

LIGHT

2016 | 2017

BRUMBERG®
— light for generations —

recessed

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LIGHT FOR GENERATIONS

„The spirit of innovation, quality and sustainability – our basic philosophy is based on these cornerstones. Also and especially in times of technological change.“

Johannes Brumberg

TRAILBLAZING AND SMART LIGHTING SOLUTIONS

As an independent family company, Brumberg is one of the leading producers of innovative and smart lighting solutions. We combine a wealth of experience with extensive knowledge about the market. We also use the latest technologies, which we are continually developing. We are investing today in tomorrow's trends and standards in order to think through future-oriented solutions and to grow actively. At the same time, we do not forget to pay attention to the highest levels of material and workmanship. This is an expression of our value-oriented and sustainable company philosophy.

A UNIQUE DIVERSITY OF PRODUCTS

We offer in our portfolio a broad spectrum of LED lights and lighting fixtures with conventional light sources in various designs, materials, surface finishes and power ratings with different protection classes for all applications. We have the widest range of recessed spots throughout Europe. We have implemented diverse product types from Tunable White and dim2warm to laser technology and flex strips to shop lighting and dynamic light. In close collaboration with scientists at the South Westphalia University of Applied Sciences, we have created the smart vitalizing vitaLED® RGBW lighting system. Customised project-related solutions are also feasible in all product areas.

COMPLEX LIGHTING PROJECTS

We are connected through numerous alliances to electricians, lighting planners, architects, wholesalers and specialist retailers. In our Brumberg Technical Centre, we convey to our partners theoretical principles and practical know-how about the latest lighting technology. Together we realise complex lighting projects for the hotel and restaurant trade, industry and retail and healthcare sectors. For the luxury private sector, we plan lighting for bathrooms, wellness areas, kitchens and living spaces, among others. We are your expert contact for renovations and modernisations as well as sophisticated customised lighting solutions for existing historically landmarked buildings.

EXPERIENCE LIGHT LIVE IN THE LED COMPETENCE CENTERS.

In our LED Competence Centers, current and potential customers can see, sense and experience live the effect of light on mood and ambience, attitude toward life and comfort in different scenarios. They will experience that light is more than luminous intensity and colour.





SOUVERÄNITÄT
Grundwert

EHRGEIZ
Markenkern

A THINK TANK WITH AMBITIOUS GOALS

„We see ourselves as trailblazers, as a think tank for the lighting industry. Our goal is to develop time and again future-oriented solutions for demanding customers.“

Benedikt Brumberg

THE BRUMBERG BRAND AND ITS VALUES

Brumberg has become a brand that customers and partners domestically and abroad trust. Our thinking and actions are determined by the values that characterise our brand.

BRAND ESSENCE: AMBITION

A healthy ambition is what drives us. We live the courage to be different according to the motto, 'Think differently'. We set ambitious goals for ourselves and keep their realisation firmly in view. With this attitude, we succeeded for example in developing the new, future-oriented vitalLED® lighting system.

Our success strengthens our own market position and that of our partners.

BASIC VALUE: AUTONOMY

We stand on a solid foundation that allows us to make independent and autonomous decisions so that we will achieve the best for our customers, partners and employees. We value self-reliant, authentic employees, whom we actively support in their professional and personal advancement. We meet our customers and partners on an equal footing. They know that they can always rely on us.

ORIENTATION VALUE: CONSISTENCY

We see ourselves as 'doers' who are consistently looking forward. We are continually developing our company and our products. During the sales of our products and the realisation of complex lighting projects, we collaborate consistently with our partners from trade, light planning and business. Together we create sustainable solutions for our customers.

TREND VALUE: INNOVATION

As a leading producer of innovative and smart lighting solutions, we see ourselves as a think tank for our industry. Wherever it appears reasonable, we leave the beaten path in order to strike out in new directions. This opens new perspectives for us and our customers and partners. In this way we will also remain in the future a company with an independent and distinctive character.

ON THE CUTTING EDGE FOR MORE THAN 140 YEARS

Brumberg Leuchten GmbH & Co. KG has been an independent family company for more than 140 years. Now in its 5th generation, it is being led by Johannes and Benedikt Brumberg.



SPIRIT OF INNOVATION BASED ON TRADITION

The beginnings of the company's history go back to 1873, when Hermann Josef Brumberg founded the metal goods factory of the same name. In 1875 production was converted to petroleum lamps, which were needed for the ore mining being carried out in the Sauerland. It is part of our tradition to develop time and again a new spirit of innovation based on many years of experience. With LED solutions such as vitaLED® and vitaLED® smart, TunableWhite or dim2warm, we are also on the cutting edge in the 21st century.





1927



1932



1952



1956



1958



1964



1968



1970



1985



2001



2016

BRUMBERG

Milestones of the Company's Development

1873

Company foundation

In 1873 the merchant Hermann Josef Brumberg, born in an old peasant and trader family, founded the metal ware company bearing his name as one of the first industries in Sundern.



1875

Oil lamps

In Neheim, near Sundern, oil lamps were already being produced for the ore mining in the Sauerland area. As a result, the company added accessories for oil lamps in 1875, and later changed to the complete production of oil lamps.



1892

The second generation

After the death of the company's founder in 1892, his son Josef managed the business successfully. By the end of the 19th century, the considerable range had an excellent reputation within the lighting branch.



1933

The third generation

After some setbacks the sons Josef and Walter Brumberg took over the company in 1933.



1890

Flood

In 1890 a flood disaster in the valley of the Röhre river ruined almost the whole production.



1914

Fire destroyed plants

1914 a large fire destroyed all the factory buildings. The First World War and the subsequent economic crisis were difficult, but all these problems were overcome.



1945

The Second World War

During the Second World War the production was compelled to be changed for German Armed Forces needs. This implicated the clearing of the factory buildings by order of the occupying power in 1945.

1950

A fire again

In 1950 another fire destroyed the company, including its most important documents, files, and design drawings. Nevertheless, the company made a recovery.



1972



The fourth generation

The company was passed to the brothers Hermann Josef and Johannes Brumberg in 1972.

2007



The fifth generation

Johannes Brumberg jr. became CEO and supports his parents Antoinette and Johannes Brumberg.

2012



Support

Dipl.-Kfm. Benedikt Brumberg becomes managing director of the family business.

2012

Cooperation Jung



Cooperation with the Albrecht Jung GmbH & Co. KG.

2015

Opening

Showroom Alling

1985

New foundation

Due to an economic crisis, associated with differences the Josef Brumberg lighting company was liquidated in 1985. However, in the same year the new founded Brumberg-Leuchten GmbH & Co. KG continued with the family's tradition.



2003

Support

Johannes Brumberg jr., bachelor of commerce, supported his parent's enterprise after he successfully finished studies of business administration in Münster and Hannover.



2009

Support

Bachelor of commerce Benedikt Brumberg supported his parent's enterprise and became responsible for the purchase department



2009

Initiation of the German competence partner program

2014

RELUX membership

Brumberg becomes a member of RELUX.



2016

New Alliances

Connected Comfort
Elektronmarken.
Starke Partner.
eNET
FEELSMART



2016

Opening

Showroom HKZ in Munich (Germany)



3D-Visualisation in Relux

LIGHT PLANNING FOR LIGHTING CONVENIENCE AND EFFICIENCY

Light is a significant design factor in architecture and interior design. The role of professional light planning has become even more important. It creates a connection between the spatial and lighting concept and provides the highest level of lighting comfort with maximum energy efficiency and compliance with all relevant standards.

LIGHTING CONCEPT WITH PRIORITIES AND GOALS

The goals and priorities are precisely defined before the beginning of the project. Determining the lighting concept and choosing the types of lighting subsequently occurs, then defining the light management and the lights, lamps and control units. Every component should make a maximum contribution to light quality and energy efficiency.

A VIVID IMAGE THROUGH 3D VISUALISATION

Special software programs, such as the leading planning software RELUX, support lighting planners by making photometric calculations for a lighting system. RELUX provides all the necessary programs and data for preparing professional planning. A graphic computer display conveys a vivid image of the property and the light planning as a 3D visualisation. This includes both the basic lighting as well as the accent lighting in interior and exterior spaces.

PLANNING RELIABILITY THROUGH LIGHTING CALCULATION

With the help of the lighting calculation, parameters such as type of lighting, lighting intensity and colour grading are determined and checked in advance. The position of the lights can also be precisely determined. The calculation of the correct photometric data furthermore provides information about compliance with international standards.



Completed project
Landgasthof Hoffmann, Arnsberg (Germany)

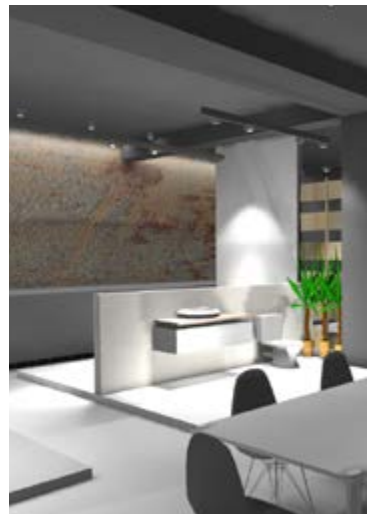
RELUX

Working with leading international manufacturers we make our complete product information available in a standard format on an online platform. A selection of around one million luminaries, 2000 sensors and 1000 lamp versions enable you to quickly and accurately find the right product. Compare your choice and save your favourites in the account provided by Relux. Share this information with other ReluxNet users. Calculate the number of products required for a specific task online. We are confident that you will save considerable time in the future using ReluxNet!

RELUX[®]
international member



Carolin Baumgärtner
Interior designer (B.A.)
Light concept BRUMBERG





LIGHT – EXPERTISE – TRAINING

In the Brumberg Technical Centre, we impart to our partners the necessary knowledge about solutions in the area of LED lighting and control technology. This is presented in increasingly shorter cycles in this era of innovative LED technology.

BRUMBERG TECHNICAL CENTRE

Electricians, lighting planners, architects, and wholesalers and specialist retailers become acquainted with our products and LED quality solutions, find out everything worth knowing about technical implementation as well as connection and control options. We examine together the added value of new technical products and present various application scenarios live in our LED Competence Center in Sundern.

THEORY AND PRACTICE MODULES

With these modules, we prepare our partners and their employees for the increasing demands and actively support them in their day-to-day tasks. In this way they remain on the cutting edge and can be persuasive with their expertise.

INDIVIDUAL KNOWLEDGE TRANSFER

Our trainings are divided into modules. The individual modules in each case offer the best of theory and practice. They convey know-how about fundamentals, effects and control variants of the LED lighting types as well as the practical planning of lighting systems and their installation and commissioning. The range of topics includes classic LED white light, dynamic vitalLED® light, ambient lighting with LED RGB light sources and LED flex strips from the QualityFlex® Select series. Sales-promoting shop light planning and lighting solutions for health, well-being and safety are additional topics in the Brumberg Technical Centre.





LED Competence Center (LCC), Brumberg



EXPERIENCE LIGHT LIVE

Brumberg will take you into the digitally networked smart home living environments of today and tomorrow. Networked thinking and acting turns into a live experience – in competence centers and top-class showrooms.

LED COMPETENCE CENTER SUNDERN

On three floors in our LED Competence Center in Sundern, we present lighting as it is actually being used. Real-life staged living and working environments are a special highlight. In the wellness area, hotel suite, high quality living space, outdoor area or in the private bathroom, we demonstrate the facets and effects of individual lighting scenarios, lighting colours and intensities as well as control options.

How light can contribute to sales success in modern retail stores is also a topic of our exhibition. Shopping needs can be aroused and brand identities created in the interaction with architecture and interior furnishings. You experience live when LED lighting creates spaces and objects in a fascinating way. Experience light as inspiration!











LIGHT EXPERIENCE ENVIRONMENTS THROUGHOUT GERMANY

A spectacular light experience environment has been created in Alling outside of Munich in a 200 m² luxury loft that can actually be lived in. There are generationally compatible lighting solutions in Iserlohn, and Oberschleißheim is turning into a hot spot for the hotel industry.

HABITABLE LUXURY LOFT IN ALLING

The large luxury loft has baths, sauna, kitchen, living area as well as bedrooms and is networked by smart building system technology, which also controls the efficient lighting. The private spa is equipped with exclusive e-solutions products from the Dornbracht brand and wellness solutions such as the Sensory Sky lifestyle shower with vitaLED®. Different pre-programmed scenarios offer the user the utmost comfort – an experience for the senses that is complemented by high-end audio solutions.

Located in the outside area is a WellnessCube® – your personal temple of luxury embedded in nature. You can enjoy the advantages of a sauna with a view of the stylishly designed garden. Our exclusive vitaLED® lighting system immerses the space and its wet areas in relaxing or activating scenarios by means of smart networked controllers.

The highlight: you can rent the entire loft with baths, kitchen, living area as well as bedrooms for one or two nights.







The GGT (German Society for Gerontechnology®) has been considered for almost 20 years to be an expert contact for industry, commerce, trade and consumers in the growing 50+ market.



GGT MODEL HOME IN ISERLOHN

Visit the GGT model home in Iserlohn! In addition to generation-compatible lighting solutions from Brumberg, you will find here numerous products from other trades that will make your life more

comfortable and easier. During a 2-day seminar, Brumberg and the GGT® can provide information on the topic of gerontechnology at Brumberg and on site in the GGT® model property.

HOTEL COMPETENCE CENTER IN OBERSCHLEISSHEIM

In the vicinity of the city of Munich, an information and events platform has been created for hoteliers, operating companies, investors, manufacturers and project developers from the hotel and restaurant trades. Manufacturers' solutions are presented here in a neutral environment, where contacts can also be made. The goal is to establish the largest integrated network for developing, modernizing and upgrading hotel and restaurant businesses.



SMART TECHNOLOGY – STRONG PARTNERS

„In order to be successful in the market in the long run, we have to offer our customers more than others. This is the precise starting point for our brand partnerships. Ideal overall solutions for upscale quality of life and living will result from the collaboration.“

Johannes Brumberg

BRUMBERG IS SHAPING THE SMART FUTURE

The future of lighting technology is smart. Brumberg is actively helping to shape this development – as a development and alliance partner and leading brand manufacturer. With these consortia, we are not only setting new benchmarks for housing standards in the premium real estate sector. We are also consciously setting an example for strong brands. We will pass the advantages of the premium collaboration on to you. Our solutions represent state-of-the-art technology and can be integrated into integrally networked smart home scenarios. Our brand partners are leaders in this area – and with them automatically our trade partners as well.

JUNG - Brumberg has developed the connection to a facility pilot project in collaboration with this specialist for controls and building system technology. The lighting control for the dynamic 4-channel vitaLED® colour light system can be easily integrated into a KNX control system. Jung products are convincing through their use of modern technology, sophisticated design and a wide range of functionality – from lighting, blind and temperature control systems to wireless technology and KNX technology, door communication and multimedia control.





DORNBRACHT - Brumberg has joined a development partnership with the well-known manufacturer of multiple award-winning design fittings and accessories for the bathroom and kitchen. Through this partnership, the Sensory SkyATT lifestyle shower was developed, where water, light and fragrance appeal to the senses in fascinating choreographies. Dornbracht's innovative family business focusses on future-oriented, integrally networked smart water concepts, which allow the kitchen and bathroom to be turned into experiential spaces.

GGT - As a recognised partner company of the GGT® (German Society for Gerontechnology), Brumberg is developing generation-compatible lighting solutions for health, well-being and safety. Numerous user-friendly products have been awarded the GGT® seal of approval. During a 2-day seminar, Brumberg and the GGT® can provide information on the topic of gerontechnology at Brumberg and on site in the GGT® model property.



SMART HOME – INTEGRALLY NETWORKED RESIDENTIAL COMFORT

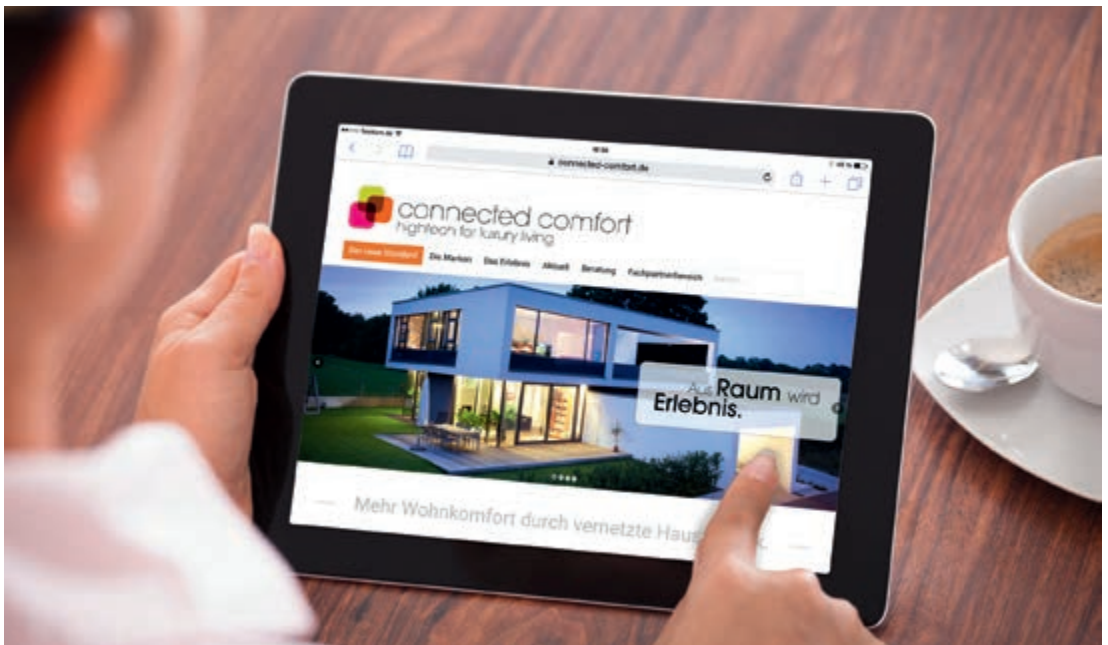
„We don't make any compromises with our products. Quality and future-oriented smart solutions are the cornerstones of our success.“

Benedikt Brumberg

BRUMBERG POINTS THE WAY TO SUCCESS

Digital networking plays a key role in everyday life today – in buildings as well. A new high standard for buildings is resulting from the perfect interplay between the very latest technology and high quality design. The smart continuously adjustable lighting systems from Brumberg fit superbly into this segment. They are part of the solutions that cut across trades and that we are implementing together with our brand partners. In many areas of the building – from building technology to household appliances to consumer electronics – scenarios can be activated with the touch of a button, individually adjusted and controlled to a large extent using a smartphone. In the smart home it is always the individual with his or her needs who is of primary importance and not the technology.

CONNECTED COMFORT - Leading premium brands from all sectors have joined together under the Connected Comfort umbrella in order to bring more cross-trade technical intelligence into buildings. Gira, Dornbrcht, Revox, Miele, Vaillant, Loewe and Brumberg, together with their local partners, make a new furnishings standard possible for added-value living at the highest level. Connected Comfort offers networked KNX-based building technology as a comprehensive solution from a single source for special requirements. The choice of the lighting solution is thus optimally matched with the property.





ENET - Combining the positive effects of professional lighting technology with the advantages of smart building control is at the heart of the eNet alliance of Brumberg and the brand manufacturers Jung and Gira. A product of this collaboration is the bidirectional eNet radio system, with which smart technology for building automation can be integrated into existing buildings. As part of the eNet alliance, Brumberg offers, for example, atmospheric dim2warm solutions and the 7 watt LED spot with a particularly shallow installation depth.

FEELSMART - With its smart KNX planning tool, Feelsmart simplifies the implementation of smart home scenarios. Developers, architects, planners and electricians can use the Feelsmart platform for planning building automation via KNX system technology. Brumberg brings to the alliance the dynamic 4-channel vitaLED® light system as well as universally deployable white light luminaires.

ELEKTROMARKEN ('ELECTRICAL BRANDS') - STRONG PARTNERS - The initiative of the 17 leading brand manufacturers pools the reliable expertise and proven quality of the German electrical sector. Behind it stands an extensive range of high quality products and services for the electrical trade. The goals of the initiative include sharpening brand awareness in the electrical and wholesale trade as well as among electrical planners and architects - because Brand values such as quality, reliability, performance, innovation, design, safety and service determine customer satisfaction and the success of a project.

ZVEH / ZVEI - As a member and premium brand partner of the Bundesinnungsverbands der elektro- und informationstechnischen Handwerke (ZVEH) (German Electrical and IT Trade Association) and the Zentralverbands Elektrotechnik- und Elektronikindustrie e.V. (ZVEI) (Central Association of the Electrical and Electronics Industry), Brumberg strengthens the interests of its partners.



BRUMBERG Photographic Contest 2016/2017



Take part
and win.

How could we present our products more vividly than with the photographs of the most beautiful reference objects in this catalog. For this purpose, we have already fallen back on numerous objects of our customers who have used our products. Many thanks for that!

If you have also recently put your object in the right light by using BRUMBERG products, be sure to send us your photographs! There are great prizes to be won!



It's so simple:
Send your photos with your contact details
by e-mail or post to:

BRUMBERG Leuchten GmbH & Co. KG
Hellefelder Str. 63
D-59846 Sundern (Germany)
E-Mail: marketing@brumberg.com

The three most beautiful objects ever win a stylish Weber Grill. The winner will be chosen by an expert jury. Deadline is the 28th February 2017. The winners will be notified in writing.

Please do not forget to include your name and complete address. By sending us your photographs via e-mail or post you are consenting to a professional photo shoot of your object by our photographers. BRUMBERG is also entitled to include the photographs in its current catalogues and in online media without restriction (without including any information on the object). The judge's decision is final.

We look forward to as many entries as possible and to the beautiful pictures of your object equipped with BRUMBERG lighting!

ENERGY-CONSCIOUSNESS

In an age of rising energy prices, environmental protection and sustainability are an important subject. Alternative energy sources have been under discussion for some time. However, a total switch to such energy suppliers is not adequate and wastes considerable potential for saving and money.

Sustainable lighting

With our lighting concepts you can save up to 90% of the present energy costs. Your maintenance costs will be greatly reduced.

You also reduce CO₂ emissions by up to 86% through the use of advanced lighting technologies. You actively contribute to environmental protection by using new and sustainable lighting concepts!

Let's do our best, `together for a clean future`, to make a healthy life possible for our children and grandchildren!



recessed

ceiling
TunableWhite / dim2warm

38



ceiling
pivotal

46



ceiling
rigid

134



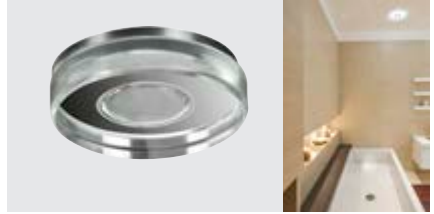
ceiling
downlights

160



ceiling
light spots

174



ceiling
LED panels

190





ceiling |
high-degree of protection indoor

196



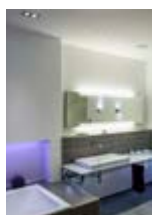
ceiling |
stainless steel

230



ceiling |
low installation depth

242



ceiling |
cardanic

258



ceiling |
frameless

274



ceiling |
loudspeaker

278

tunable 
WHITE

ENHANCED LIGHT OFFICE AND SHO

Warm white to
cool white



T QUALITY IN P



tunable 
WHITE

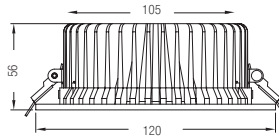
DYNAMIC WHITE LIGHT

WELL-BEING BY
CHANGING COLOUR
TEMPERATURES



12423074

LED recessed spot TunableWhite



NEW

Specification

Incl. light source: LED, power: 7 W, material: aluminium / plastic satin
 Driver and control see pages 517 and 640.

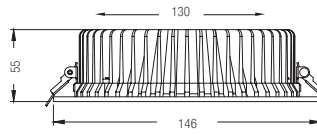
Article-No.	Colour of housing	Colour temperature
12423074	white	2700 K-6000 K

Energy efficiency class: A++ bis A

This luminaire contains incorporated and non-exchangeable LED light sources.

12424074

LED recessed spot TunableWhite



NEW

Specification

Incl. light source: LED, power: 11 W, material: aluminium / plastic satin
 Driver and control see pages 517 and 640.

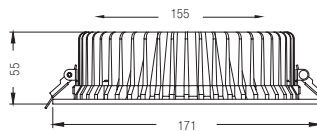
Article-No.	Colour of housing	Colour temperature
12424074	white	2700 K-6000 K

Energy efficiency class: A++ bis A

This luminaire contains incorporated and non-exchangeable LED light sources.

12425074

LED recessed spot TunableWhite



NEW

Specification

Incl. light source: LED, power: 15 W, material: aluminium / plastic satin
 Driver and control see pages 517 and 640.

Article-No.	Colour of housing	Colour temperature
12425074	white	2700 K-6000 K

Energy efficiency class: A++ bis A

This luminaire contains incorporated and non-exchangeable LED light sources.

dim  2warm



ATMOSPHERIC DIMMING EFFECT

Warmer lighting m
by adjusting the c
temperature

CT

mood
colour

Relaxing within the four walls of one's own home after the day's hustle and bustle – more and more people consciously want to enjoy these hours. The chance to withdraw and kick back plays an important role in maintaining the balance between work and life.

Soft, dimmed light is simply part of relaxation for most people. It calms our senses. What is simply not possible with conventional incandescent or halogen lamps turns out to be technically superior with LED. With dim2warm, BRUMBERG now offers a solution for LED spots.

dim  2warm



COSY ATMOSPHERE AT 2000 K

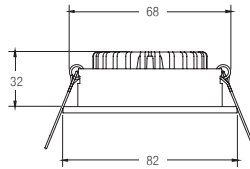
WARM WHITE IS NOW
EVEN WARMER

Until now, it was only possible to reduce the brightness by dimming the LEDs. The light became weaker but not 'warmer'. With dim2warm, the colour temperature now also changes in the lower dimming range. Depending on the type of lamp installed, the temperature can be dimmed from warm white 2800 K/3000 K to very warm white 2000 K. dim2warm thereby brings the enchantment of the desired comfortable atmosphere into your living room – like candlelight or by a cosy fireplace.

dim2warm inserts see page 368.

12461...

LED recessed spots dim2 Warm



Base model LED dim2warm 350 mA

Incl. light source: 1x LED, power: 6 W, material: aluminium / clear glass, beam angle: 38°, when the lights are dimmed, the luminous colour changes from 2800 K to 2000 K

Driver see page 629.

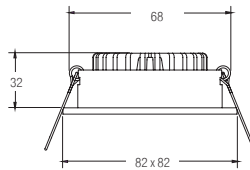
Energy efficiency class: A++ bis A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of housing	Colour temperature
12461073	white	2800 K - 2000 K ●
12461253	alu satin	2800 K - 2000 K ●

12462...

LED recessed spots dim2 Warm



Base model LED dim2warm 350 mA

Incl. light source: 1x LED, power: 6 W, material: aluminium / clear glass, beam angle: 38°, when the lights are dimmed, the luminous colour changes from 2800 K to 2000 K

Driver see page 629.

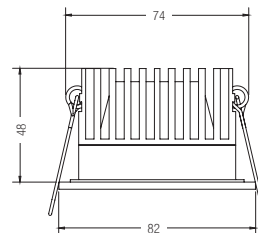
Energy efficiency class: A++ bis A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of housing	Colour temperature
12462073	white	2800 K - 2000 K ●
12462253	alu satin	2800 K - 2000 K ●

12116...

LED recessed spots dim2 Warm



Base model LED dim2warm 350 mA

Incl. light source: LED, power: 12 W, CRI > 90, material: aluminium / plastic clear, beam angle: 24°, when the lights are dimmed, the luminous colour changes from 3000 K to 2800 K

Driver see page 629.

Energy efficiency class: A++ bis A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of housing	Colour temperature
12116073	white	3000 K - 2000 K ●
12116253	alu satin	3000 K - 2000 K ●

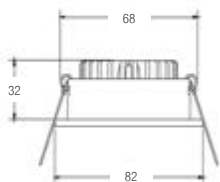


recessed

ceiling pivotable



12261... / 12361... / 33261... / 33361... / 34261... / 34361...
LED recessed spots



NEW

Base model LED 350 mA

Incl. light source: 1x LED, power: 7 W,
material: aluminium / clear glass, beam angle: 38°

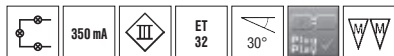
New colours (Housing and colour temperature).

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of housing	Colour temperature	Flux
12261023	chrome	2700 K	710 lm
12261073	white	2700 K	710 lm
12261253	alu satin	2700 K	710 lm
12261633	champagne satin**	2700 K	710 lm
12261643	titanium satin	2700 K	710 lm
12361023	chrome	3000 K	750 lm
12361073	white	3000 K	750 lm
12361253	alu satin	3000 K	750 lm
12361633	champagne satin**	3000 K	750 lm
12361643	titanium satin	3000 K	750 lm

**as shown in picture



LED set, including driver

Incl. light source: 1x LED, power: 7 W,
material: aluminium / clear glass, beam angle: 38°,
incl. driver for 230 V-connection, not dimmable,
dimensions of driver: l 68 x w 35 x h 21 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of housing	Colour temperature	Flux
33261023	chrome	2700 K	710 lm
33261073	white	2700 K	710 lm
33261253	alu satin	2700 K	710 lm
33261633	champagne satin**	2700 K	710 lm
33261643	titanium satin	2700 K	710 lm
33361023	chrome	3000 K	750 lm
33361073	white	3000 K	750 lm
33361253	alu satin	3000 K	750 lm
33361633	champagne satin**	3000 K	750 lm
33361633	titanium satin	3000 K	750 lm



*for the luminaire included in the set

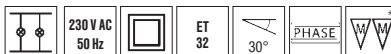
LED set, including driver, dimmable

Incl. light source: 1x LED, power: 7 W,
material: aluminium / clear glass, beam angle: 38°,
incl. driver for 230 V-connection, dimmable,
dimensions of driver: l 122 x w 39 x h 18 mm

Energy efficiency class: A++ to A

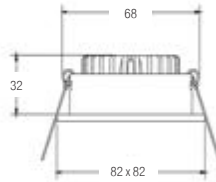
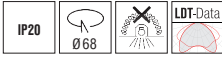
This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of housing	Colour temperature	Flux
34261023	chrome	2700 K	710 lm
34261073	white	2700 K	710 lm
34261253	alu satin	2700 K	710 lm
34261633	champagne satin**	2700 K	710 lm
34261643	titanium satin	2700 K	710 lm
34361023	chrome	3000 K	750 lm
34361073	white	3000 K	750 lm
34361253	alu satin	3000 K	750 lm
34361633	champagne satin**	3000 K	750 lm
34361643	titanium satin	3000 K	750 lm



*for the luminaire included in the set

12262... / 12362... / 33262... / 33362... / 34262... / 34362...
LED recessed spots



Base model LED 350 mA

Incl. light source: 1x LED, power: 7 W,
material: aluminium / clear glass, beam angle: 38°

New colours (Housing and colour temperature.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of housing	Colour temperature	Flux
12262023	chrome	2700 K	710 lm
12262073	white	2700 K	710 lm
12262253	alu satin	2700 K	710 lm
12262633	champagne satin	2700 K	710 lm
12262643	titanium satin**	2700 K	710 lm
12362023	chrome	3000 K	750 lm
12362073	white	3000 K	750 lm
12362253	alu satin	3000 K	750 lm
12362633	champagne satin	3000 K	750 lm
12362643	titanium satin**	3000 K	750 lm

*as shown in picture



LED set, including driver

Incl. light source: 1x LED, power: 7 W,
material: aluminium / clear glass, beam angle: 38°,
incl. driver for 230 V-connection, not dimmable,
dimensions of driver: l 68 x w 35 x h 21 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of housing	Colour temperature	Flux
33262023	chrome	2700 K	710 lm
33262073	white	2700 K	710 lm
33262253	alu satin	2700 K	710 lm
33262633	champagne satin	2700 K	710 lm
33262643	titanium satin**	2700 K	710 lm
33362023	chrome	3000 K	750 lm
33362073	white	3000 K	750 lm
33362253	alu satin	3000 K	750 lm
33362633	champagne satin	3000 K	750 lm
33362643	titanium satin**	3000 K	750 lm



*for the luminaire included in the set

LED set, including driver, dimmable

Incl. light source: 1x LED, power: 7 W,
material: aluminium / clear glass, beam angle: 38°,
incl. driver for 230 V-connection, dimmable,
dimensions of driver: l 122 x w 39 x h 18 mm

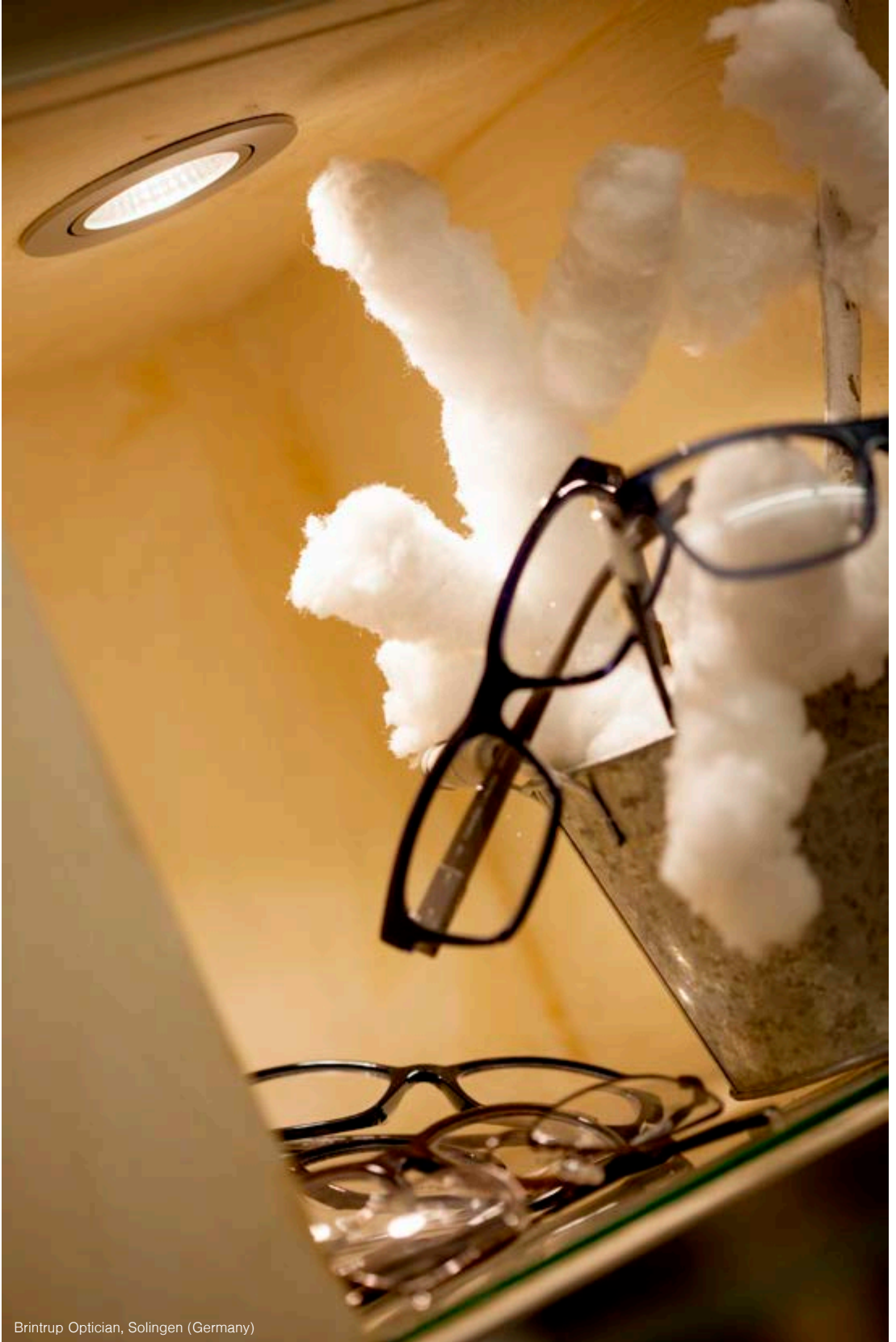
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of housing	Colour temperature	Flux
34262023	chrome	2700 K	710 lm
34262073	white	2700 K	710 lm
34262253	alu satin	2700 K	710 lm
34262633	champagne satin	2700 K	710 lm
34262643	titanium satin**	2700 K	710 lm
34362023	chrome	3000 K	750 lm
34362073	white	3000 K	750 lm
34362253	alu satin	3000 K	750 lm
34362633	champagne satin	3000 K	750 lm
34362643	titanium satin**	3000 K	750 lm

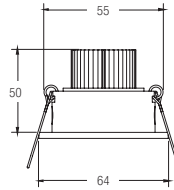


*for the luminaire included in the set



Brintrup Optician, Solingen (Germany)

12231... / 33231...
LED recessed spots



Base model LED 350 mA

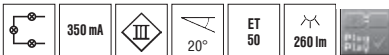
incl. light source: LED, power: 3 W, beam angle: 38°
material: aluminium / clear glass,

dimmmable driver see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
12231073	white	2700 K
12231253	alu satin	2700 K



LED set, including driver

Light source: 1x LED, power: 3 W, beam angle: 38°
material: aluminium / clear glass, incl. driver for 230 V-connection, not dimmmable,
dimension driver: L 68 x B 35 x H 21 mm

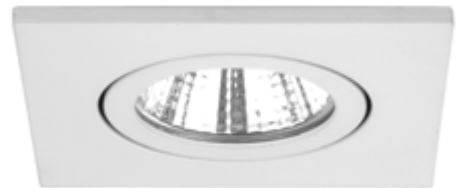
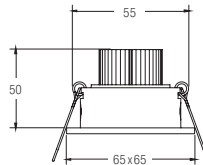
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
33231073	white	2700 K
33231253	alu satin	2700 K



12232... / 33232...
LED recessed spots



Base model LED 350 mA

incl. light source: 1x LED, power: 3 W, beam angle: 38°
material: aluminium / clear glass,

dimmmable driver see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
12232073	white	2700 K
12232253	alu satin	2700 K



LED set, including driver

Light source: 1x LED, power: 3 W, beam angle: 38°
material: aluminium / clear glass, incl. driver for 230 V-connection, not dimmmable,
dimension driver: L 68 x B 35 x H 21 mm

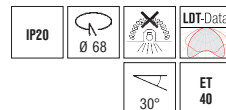
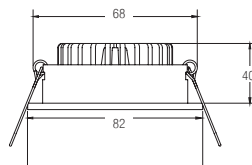
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
33232073	white	2700 K
33232253	alu satin	2700 K



12251... / 33251... LED recessed spots



NEW

New colours.

Base model LED 350 mA

Incl. light source: 1x LED, power: 3 W, beam angle: 38°
material: aluminium / clear glass

Dimmable driver see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of housing	Colour temperature
12251023	chrome	2700 K
12251073	white	2700 K
12251253	alu satin	2700 K
12251633	champagne satin	2700 K
12251643	titanium satin	2700 K



LED set, including driver

Incl. light source: 1x LED, power: 3 W, material: aluminium / clear glass,
beam angle: 38°, incl. driver for 230 V-connection, not dimmable,
dimensions of driver: L 68 x B 35 x H 21 mm

Energy efficiency class: A++ to A

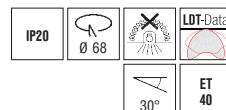
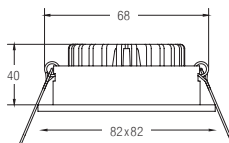
This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of housing	Colour temperature
33251023	chrome	2700 K
33251073	white	2700 K
33251253	alu satin	2700 K
33251633	champagne satin	2700 K
33251643	titanium satin	2700 K



*for the luminaire included in the set

12252... / 33252... LED recessed spots



NEW

New colours.

Base model LED 350 mA

incl. light source: 1x LED, power: 3 W, beam angle: 38°
material: aluminium / clear glass

Dimmable driver see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of housing	Colour temperature
12252023	chrome	2700 K
12252073	white	2700 K
12252253	alu satin	2700 K
12252633	champagne satin	2700 K
12252643	titanium satin	2700 K



LED set, including driver

incl. light source: 1x LED, power: 3 W, material: aluminium / clear glass,
beam angle: 38°, incl. driver for 230 V-connection, not dimmable,
dimensions of driver: L 68 x B 35 x H 21 mm

Energy efficiency class: A++ to A

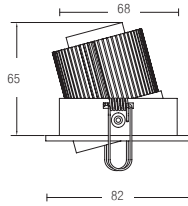
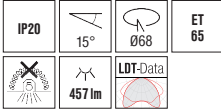
This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of housing	Colour temperature
33252023	chrome	2700 K
33252073	white	2700 K
33252253	alu satin	2700 K
33252633	champagne satin	2700 K
33252643	titanium satin	2700 K



*for the lumin included in the set

12263253 / 33263253
LED recessed spots



Base model LED 350 mA

incl. light source: LED, power: ca. 6,6 W, beam angle: 38°
material: aluminium / clear glass

Dimmable driver see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of housing	Colour temperature
12263253	alu satin	3000 K

LED set, including driver

incl. light source: LED, power: 6,6 W, beam angle: 38°
material: aluminium / clear glass, incl. driver for 230 V-connection, not dimmable, driver dimension: L 68 x B 35 x H 21 mm, Installation into suspended ceilings by spring fixation

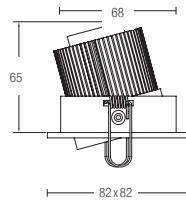
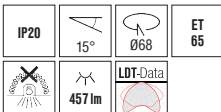
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
33263253	alu satin	3000 K



12265253 / 33265253
LED recessed spots



Base model LED 350 mA

incl. light source: LED, power: 6,6 W,
beam angle: 38°, material: aluminium / clear glass

Dimmable driver see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
12265253	alu satin	3000 K

LED set, including driver

incl. light source: LED, power: 6,6 W, beam angle: 38° material: aluminium / clear glass, incl. driver for 230 V-connection, not dimmable, dimension driver: L 68 x B 35 x H 21 mm, Installation into suspended ceilings by spring fixation

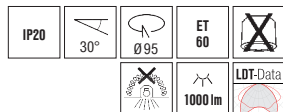
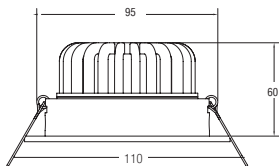
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
33265253	alu satin	3000 K



12291... / 33291... LED recessed spots



NEW

Base model LED 350 mA

Incl. light source: 1x LED, power: 14 W, beam angle: 38°
material: aluminium / clear glass

Dimmable driver see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of housing	Colour temperature
12291023	chrome	2700 K
12291073	white	2700 K
12291153	nickel satin	2700 K



LED set, including driver

Incl. light source: 1x LED, power: 14 W, beam angle: 38°
material: aluminium / clear glass, incl. converter for 230 V-connection,
not dimmable, dimensions of converter: l 118 x w 34 x h 19 mm

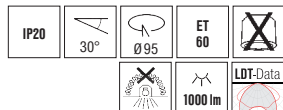
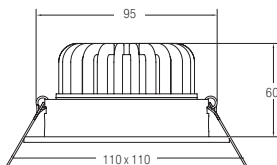
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of housing	Colour temperature
33291023	chrome	2700 K
33291073	white	2700 K
33291153	nickel satin	2700 K



12292... / 33292... LED recessed spots



NEW

Base model LED 350 mA

Incl. light source: 1x LED, power: 14 W, beam angle: 38°
material: aluminium / clear glass

Dimmable driver see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of housing	Colour temperature
12292023	chrome	2700 K
12292073	white	2700 K
12292153	nickel satin	2700 K



LED set, including converter

Incl. light source: 1x LED, power: 14 W, beam angle: 38°
material: aluminium / clear glass,
incl. converter for 230 V-connection,
not dimmable, dimensions of converter: l 115 x w 34 x h 19 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

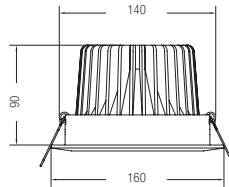
Article-No.	Colour of housing	Colour temperature
33292023	chrome	2700 K
33292073	white	2700 K
33292153	nickel satin	2700 K





Hotel Munte, Bremen (Germany)

12281073
LED recessed spots



NEW

Base model LED 700 mA

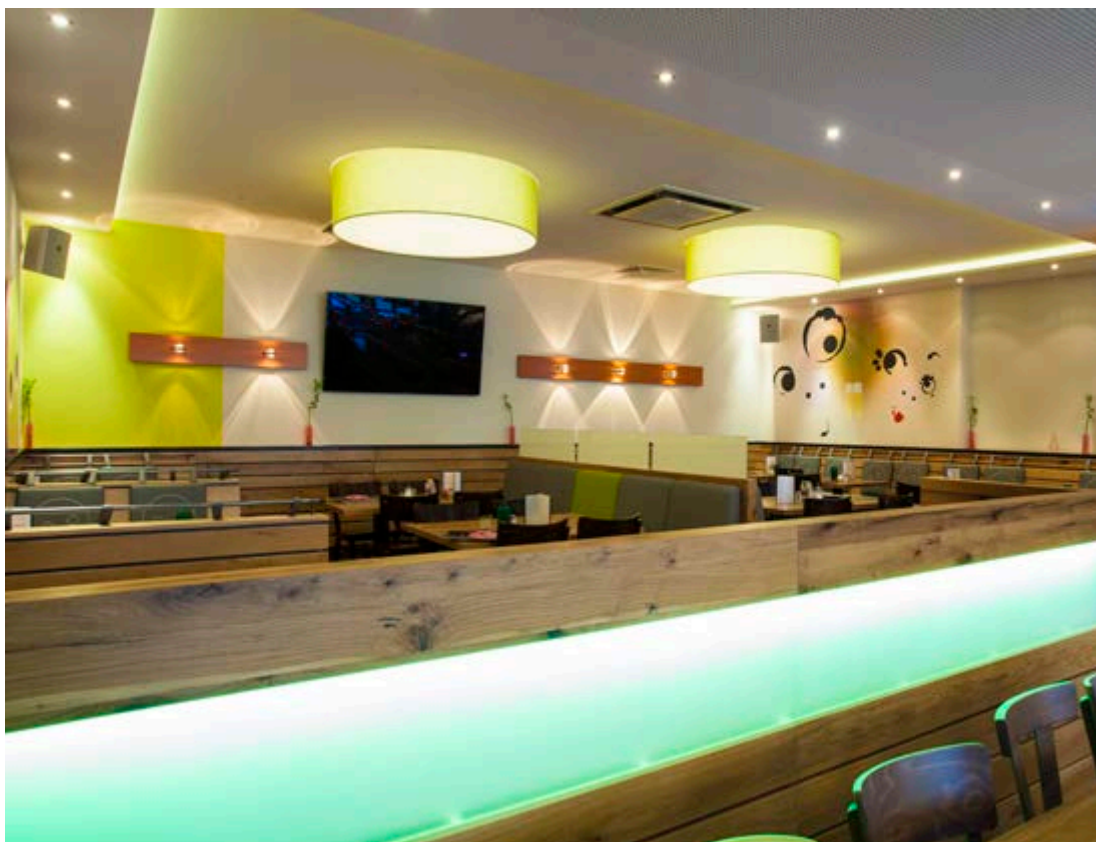
Incl. light source: 1x LED, power: 24 W, beam angle: 38°
material: aluminium / clear glass

Driver see page 634.

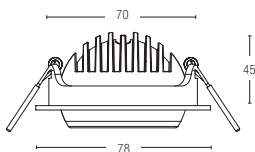
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of housing	Colour temperature
12281073	white	2700 K ●



12348...
LED recessed spots



NEW

Specification

Incl. light source: 1x LED, power: 8 W,
beam angle: 38°, material: aluminium / clear glass

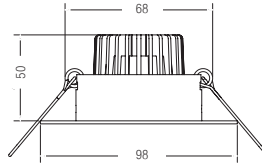
Driver see page 628.

Energy efficiency class: A++ to A

This luminaire contains built-in LED lamps.
The lamps cannot be exchanged in the luminaire.

Article-No.	Colour of housing	Colour temperature
12348073	white	2700 K ●
12348083	black	2700 K ●

13016...
LED recessed spots



NEW

Specification

Incl. light source: 1x LED, power: 6 W, beam angle: 38°
material: brass / aluminium / clear glass

Driver see page 628.

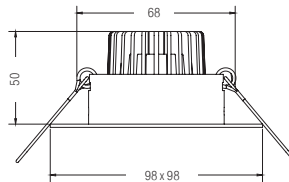
Energy efficiency class: A++ bis A

This luminaire contains incorporated and non-exchangeable LED light sources.

Modular construction: further light colors and power outputs are available on demand.

Article-No.	Colour of housing	Colour temperature
13016023	chrome	2700 K ●
13016033	chrome satin	2700 K ●

13017...
LED recessed spots



NEW

Specification

Incl. light source: 1x LED, power: 6 W, beam angle: 38°
material: brass / aluminium / clear glass

Driver see page 628.

Energy efficiency class: A++ bis A

This luminaire contains incorporated and non-exchangeable LED light sources.

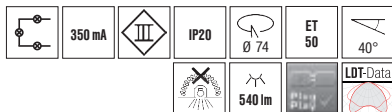
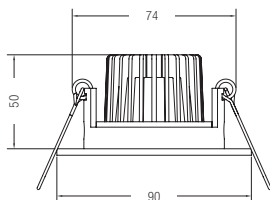
Modular construction: further light colors and power outputs are available on demand.

Article-No.	Colour of housing	Colour temperature
13017023	chrome	2700 K ●
13017033	chrome satin	2700 K ●

13253... LED recessed spots



NEW



Specification

Incl. light source: 1x LED, power: 6W, beam angle: 38°, material: aluminium / clear glass

Driver see page 628.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Modular construction: further light colors and power outputs are available on demand.

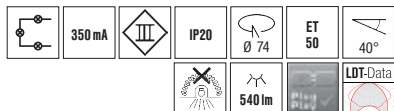
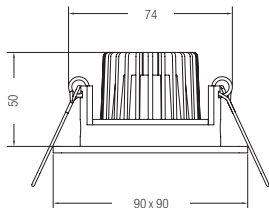
Article-No. Colour of housing Colour temperature

13253073	white	2700 K	●
13253153	nickel satin	2700 K	●
13253683	silver	2700 K	●

13255... LED recessed spots



NEW



Specification

Incl. light source: 1x LED, power: 6W, beam angle: 38°, material: aluminium / clear glass

Driver see page 628.

Energy efficiency class: A++ to A

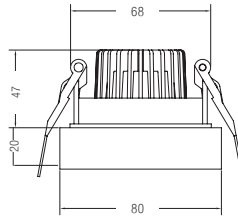
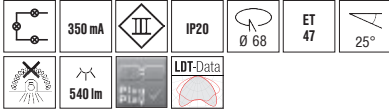
This luminaire contains incorporated and non-exchangeable LED light sources.

Modular construction: further light colors and power outputs are available on demand.

Article-No. Colour of housing Colour temperature

13255073	white	2700 K	●
13255153	nickel satin	2700 K	●
13255683	silver	2700 K	●

13026173
LED recessed spots



Design by Lounge Design
Idea: Michael Ruschmann

Specification

Incl. light source: 1x LED, power: 6 W, beam angle: 38°,
material: aluminium / clear glass

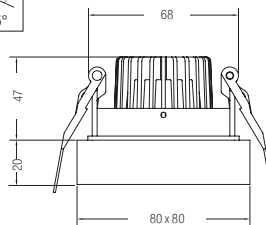
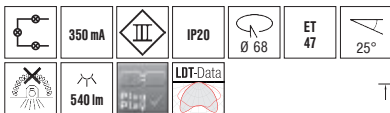
Article-No.	Colour of housing	Colour temperature
13026173	textured white	2700 K ●

Driver see page 628.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Modular construction: further light colors and power outputs are available on demand.



13027173
LED recessed spots

Design by Lounge Design
Idea: Michael Ruschmann

Specification

Incl. light source: 1x LED, power: 6 W, beam angle: 38°,
material: aluminium / clear glass

Article-No.	Colour of housing	Colour temperature
13027173	textured white	2700 K ●

Driver see page 628.

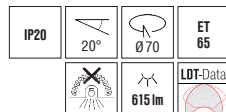
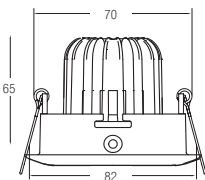
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Modular construction: further light colors and power outputs are available on demand.

12345173 / 33345173

LED recessed spots



NEW

Base model LED 700 mA

Incl. light source: LED, power: about 7 W, beam angle: 38°
material: aluminium / clear glass

Driver see page 635.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of housing	Colour temperature
12345173	textured white	3000 K



LED set, including driver

Incl. light source: LED, power: about 7 W, material: aluminium / clear glass,
incl. converter for 230 V-connection, not dimmable, beam angle: 38°
dimensions of converter: 1 68 x w 35 x h 21 mm

Energy efficiency class: A++ to A

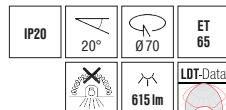
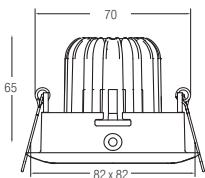
This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of housing	Colour temperature
33345173	textured white	3000 K



12346173 / 33346173

LED recessed spots



NEW

Base model LED 700 mA

Incl. light source: LED, power: about 7 W, beam angle: 38°
material: aluminium / clear glass

Driver see page 635.

Energy efficiency class: A++ bis A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of housing	Colour temperature
12346173	textured white	3000 K



LED set, including converter

Incl. light source: 1 x LED, power: 7 W, beam angle: 38°
material: aluminium / clear glass, incl. converter for 230 V-connection,
not dimmable, dimensions of converter: 1 68 x w 35 x h 21 mm

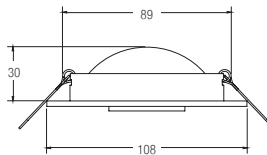
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of housing	Colour temperature
33346173	textured white	3000 K



12405073 / 33405073
LED recessed spots



Base model LED 350 mA

Incl. light source: 1x LED, power: 5,5W, beam angle: 38°, material: aluminium,

Head of luminaire adjustable independently from axis. Decentric ring shape.

Dimmable driver see page 629.

Energy efficiency class: A++ bis A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
12405073	white	3000K ●

LED set, including driver

Incl. light source: 1x LED, power: 5,5W, beam angle: 38°, material: aluminium, incl. driver for 230V-connection, not dimmable,

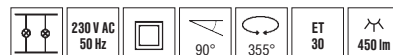
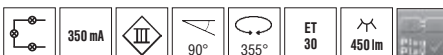
dimension driver: 168 x w 35 x h 21 mm

Head of luminaire adjustable independently from axis. Decentric ring shape.

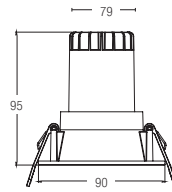
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
33405073	white	3000K ●



12402073
LED recessed spots



Specification

Incl. light source: LED, material: aluminium / plastic

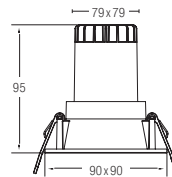
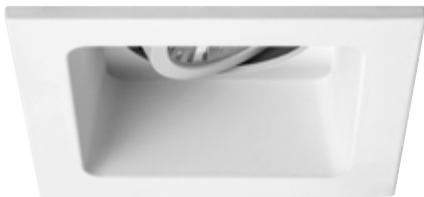
driver see page 634.

Energy efficiency class: A++ bis A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	power	Colourtemperature
12402073	white	10 W	3000 K ●

12404073
LED recessed spots



Specification

Incl. light source: LED, material: aluminium / plastic

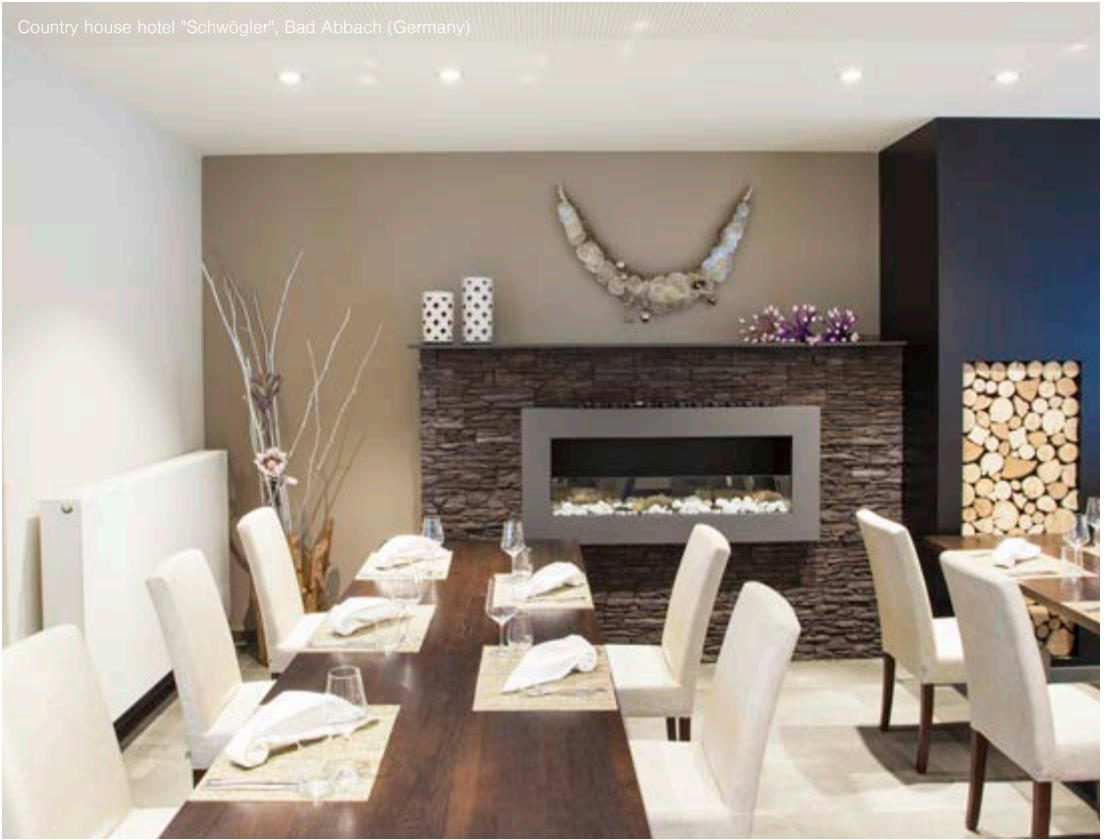
driver see page 634.

Energy efficiency class: A++ bis A

This luminaire contains incorporated and non-exchangeable LED light sources.

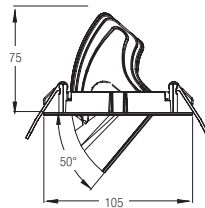
Article-no.	Colour of housing	power	Colourtemperature
12404073	white	10 W	3000 K ●

Country house hotel "Schwögler", Bad Abbach (Germany)



12401073

LED recessed spots



Specification

Incl. light source: LED, beam angle: 38°,
material: aluminium / plastic

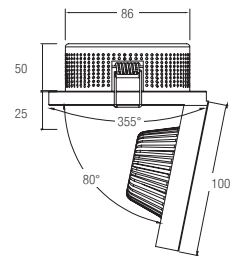
driver see page 628.

Energy efficiency class: A++ bis A

This luminaire contains incorporated and
non-exchangeable LED light sources.

Article-no.	Colour of housing	power	Colourtemperature
12401073	white	15 W	3000 K ●

12069553
LED recessed spots



Specification

incl. light source: LED, power 6,6 W,
beam angle: 20°, material: aluminium / clear glass

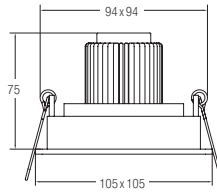
driver see page 628.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
12069553	black / white	3000K ●

12098553
LED recessed spots



Specification

Light source: LED, power: 6,6 W, beam angle: 38°, material: aluminium / clear glass

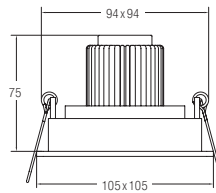
driver see page 628.

Energy efficiency class: A++ bis A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colourtemperature
12098553	black / white	2700 K

Modular construction: further light colors and power outputs are available on demand.



12099553
LED recessed

Specification

Light source: LED, power 6,6 W, beam angle: 38° material: aluminium / clear glass

driver see page 628.

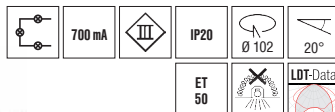
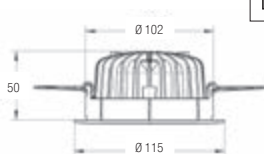
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colourtemperature
12099553	black / white	2700 K

Modular construction: further light colors and power outputs are available on demand.

SL610... LED-recessed spot



Specification

incl. light source: LED, system power: 9W, beam angle: 40°, CRI: >80, material: aluminium / polycarbonate, colour of housing: textured white,

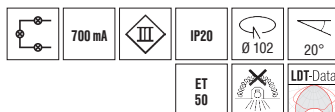
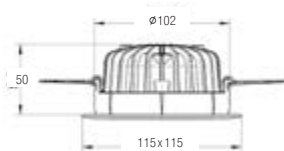
driver see page 634.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Flux	Colour temperature	Ambient colouring
SL610WW4	640 lm	3000 K	without
SL610NW4	700 lm	4000 K	without

SL630... LED-recessed spot



Specification

incl. light source: LED, system power: 9W, beam angle: 40°, CRI: >80, material: aluminium / polycarbonate, colour of housing: textured white,

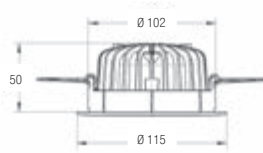
driver see page 634.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Flux	Colour temperature	Ambient colouring
SL630WW4	640 lm	3000 K	without
SL630NW4	700 lm	4000 K	without

SL700...
LED-recessed spot



Specification

incl. light source: 1x High-Power LED, power: 20 W, CRI: >80
material: aluminium / polycarbonate,
Colour: texture

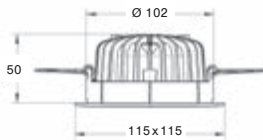
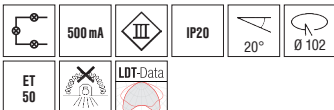
driver see page 633.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Flux	Colour temperature
SL700WW4	1150 lm	3000 K
SL700NW4	1240 lm	4000 K

SL720...
LED-recessed spot



Specification

incl. light source: 1x High-Power LED, power: 20W, beam angle: 40°, CRI: >80
material: aluminium / polycarbonate, Colour: textured white,

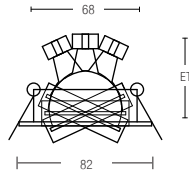
driver see page 633.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Flux	Colour temperature
SL720WW4	1150 lm	3000 K
SL720NW4	1240 lm	3000 K

0063... / 36143... / 12143... / 33143...
Recessed spots



NEW

New colours.

Base model low-voltage

For low voltage lamp: 1x GX5,3 QRCBC51,
power: max. 50 W, material: aluminium

Driver see page 645.

Energy efficiency class: A to C

Article-No.	Colour of housing
0063.07	white
0063.25	alu satin
0063.63	champagne satin
0063.64	titanium satin



Base model high-voltage spot for retrofit

For high voltage lamp: 1x GU10 QPAR51, power: max. 50 W,
material: aluminium, high-voltage-clamp included

Energy efficiency class: A++ to E

Article-No.	Colour of housing
36143070	white
36143250	alu satin
36143630	champagne satin
36143640	titanium satin



Base model LED 350 mA

Incl. light source: 1x LED, power: 6.6W, beam angle: 38°
material: aluminium / clear glass

Dimmable driver see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of housing	Colour temperature
12143073	white	2700 K
12143253	alu satin	2700 K
12143633	champagne satin	2700 K
12143643	titanium satin	2700 K



Modular construction: further light colors and power outputs are available on demand.

LED Set, including driver

Incl. light source: 1x LED, power: 6.6 W, beam angle: 38°,
material: aluminium / clear glass, incl. driver for 230 V-connection, not dimmable,
dimensions driver: l 68 x w 35 x h 21 mm

Energy efficiency class: A++ to A

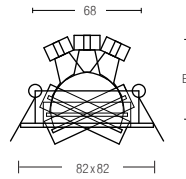
This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of housing	Colour temperature
33143073	white	2700 K
33143253	alu satin	2700 K
33143633	champagne satin	2700 K
33143643	titanium satin	2700 K



Modular construction: further light colors and power outputs are available on demand.

0065...
Recessed spots



New colours.

NEW

Base model low-voltage

For low voltage lamp: 1x GX5,3 QRCBC51, power: max. 50 W, material: aluminium

Driver see page 645.

Energy efficiency class: A to C

Article-No.	Colour of housing
0065.07	white
0065.25	alu satin
0065.63	champagne satin
0065.64	titanium satin



Base model high-voltage spot for retrofit

For high voltage lamp: 1x GU10 QPAR51, power: max. 50 W, material: aluminium, high-voltage-clamp and socket included

Energy efficiency class: A++ to E

Article-No.	Colour of housing
36144070	white
36144250	alu satin
36144630	champagne satin
36144640	titanium satin



Base model LED 350 mA

Incl. light source: 1x LED, power: 6.6W, beam angle: 38° material: aluminium / clear glass

Dimmable driver see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of housing	Colour temperature
12144073	white	2700 K
12144253	alu satin	2700 K
12144633	champagne satin	2700 K
12144643	titanium satin	2700 K



Modular construction: further light colors and power outputs are available on demand.

LED Set, including driver

Incl. light source: 1x LED, power: 6.6W, beam angle: 38°, material: aluminium / clear glass, incl. driver for 230 V-connection, not dimmable, dimensions driver: l 68 x w 35 x h 21 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

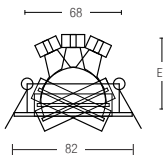
Article-No.	Colour of housing	Colour temperature
33144073	white	2700 K
33144253	alu satin	2700 K
33144633	champagne satin	2700 K
33144643	titanium satin	2700 K



Modular construction: further light colors and power outputs are available on demand.

0064.00 / 361872250 / 12187253 / 33187253

Recessed spot



Base model Low voltage

For low voltage lamp: 1 x GX5,3 QRCBC51, power: max. 50 W, material: aluminium

Driver see page 645.

Energy efficiency class: A to C

Article-no.	Colour of housing
0064.00	black / alu



Base model high-voltage spot for retrofit

For high voltage lamp: 1 x GU10 QPAR51, power: max. 50 W, material: aluminium, High-voltage-clamp included

Energy efficiency class: A++ to E

Article-no.	Colour of housing
36187250	black / alu



Base model LED 350 mA

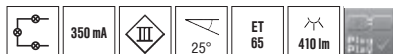
Incl. light source: 1 x LED, power: 6,6 W, beam angle: 38°, material: aluminium / clear glass

Dimmable driver see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporatead and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
12187253	black / alu	2700 K



Modular construction: further light colors and power outputs are available on demand.

LED-Set, including driver

Incl. light source: 1 x LED, power: 6,6 W, beam angle: 38° material: aluminium / clear glass, incl. driver for 230 V-connection, not dimmable, dimension driver: 1 68 x w 35 x h 21 mm

Energy efficiency class: A++ to A

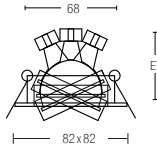
This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
33187253	black / alu	2700 K



Modular construction: further light colors and power outputs are available on demand.

0066.00 / 36188250 / 12188253 / 33188253
Recessed spot



Base model low-voltage

For low voltage lamp: 1 x GX5,3 QRCBC51, power: max. 50 W, material: aluminium

Driver see page 645.

Energy efficiency class: A to C

Article-no.	Colour of housing
0066.00	black / alu



Base model high-voltage spot for retrofit

For high voltage lamp: 1 x GU10 QPAR51, power: max. 50 W, material: aluminium, High-voltage-clamp included.

Energy efficiency class: A++ to E

Article-no.	Colour of housing
36188250	black / alu



Base model LED 350 mA

Incl. light source: 1 x LED, power: 6,6 W, beam angle: 38° material: aluminium / clear glass,

Dimmable driver see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
12188253	black / alu	2700 K ●



Modular construction: further light colors and power outputs are available on demand.

LED-Set, including driver

Incl. light source: 1 x LED, power: 6,6 W, beam angle: 38°, material: aluminium / clear glass, incl. driver for 230 V-connection, not dimmable, dimension driver: 168 x w 35 x h 21 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

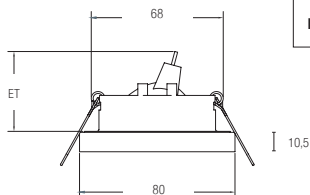
Article-no.	Colour of housing	Colour temperature
33188253	black / alu	2700 K ●



Modular construction: further light colors and power outputs are available on demand.

20031... / 36331... / 12331... / 33331...

Recessed spot



Design by Lounge Design

Base model low-voltage

For low voltage lamp: 1x GX5,3 QRCBC51, power: max. 50 W, material: aluminium / steel

Driver see page 645.

Energy efficiency class: A to C

Article-no.	Colour of housing
20031020	chrome
20031050	gold
20031150	nickel satin
20031170	textured white
20031180	textured black
20031670	textured graphite-grey



Base model high-voltage spot for retrofit

For high voltage lamp: 1x GU10 QPAR51, power: max. 50 W, material: aluminium / steel, HV-clamp included

Energy efficiency class: A++ to E

Article-no.	Colour of housing
36331020	chrome
36331050	gold
36331150	nickel satin
36331170	textured white
36331180	textured black
36331670	textured graphite-grey



Base model LED 350 mA

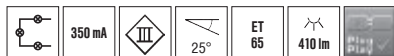
Incl. light source: 1x LED, power: 6,6 W, beam angle: 38°, material: aluminium / steel / clear glass

Dimmable driver see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
12331023	chrome	2700 K
12331053	gold	2700 K
12331153	nickel satin	2700 K
12331173	textured white	2700 K
12331183	textured black	2700 K
12331673	textured graphite-grey	2700 K



Modular construction: further light colors and power outputs are available on demand.

LED-Set, including driver

Incl. light source: 1x LED, power: 6,6 W, beam angle: 38°, material: aluminium / steel / clear glass, incl. driver for 230 V-connection, not dimmable, dimension driver: l 68 x w 35 x h 21 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
33331023	chrome	2700 K
33331053	gold	2700 K
33331153	nickel satin	2700 K
33331173	textured white	2700 K
33331183	textured black	2700 K
33331673	textured graphite-grey	2700 K

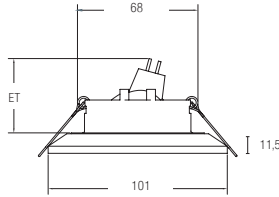


Modular construction: further light colors and power outputs are available on demand.

20032... / 36332... / 12332... / 33332...
Recessed spot



Design by Lounge Design



Base model low-voltage

For low voltage lamp: 1x GX5,3 QRCBC51, power: max. 50 W, material: aluminium / steel

Driver see page 645.

Energy efficiency class: A to C

Article-no.	Colour of housing
20032020	chrome
20032050	gold
20032150	nickel satin
20032170	textured white
20032180	textured black
20032670	textured graphite-grey



Base model high-voltage spot for retrofit

For high voltage lamp: 1x GU10 QPAR51, power: max. 50 W, material: aluminium / steel, HV-clamp included

Energy efficiency class: A++ to E

Article-no.	Colour of housing
36332020	chrome
36332050	gold
36332150	nickel satin
36332170	textured white
36332180	textured black
36332670	textured graphite-grey



Base model LED 350 mA

Incl. light source: 1x LED, power: 6,6 W, beam angle: 38°, material: aluminium / steel / clear glass

Dimmable driver see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
12332023	chrome	2700 K
12332053	gold	2700 K
12332153	nickel satin	2700 K
12332173	textured white	2700 K
12332183	texture black	2700 K
12332673	texture graphite-grey	2700 K



Modular construction: further light colors and power outputs are available on demand.

LED-Set, including driver

Incl. light source: 1x LED, power: 6,6 W, beam angle: 38°, material: aluminium / steel / clear glass, incl. driver for 230 V-connection, not dimmable, dimension driver: l 68 x w 35 x h 21mm

Energy efficiency class: A++ to A

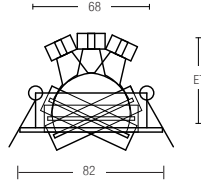
This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
33332023	chrome	2700 K
33332053	gold	2700 K
33332153	nickel satin	2700 K
33332173	textured white	2700 K
33332183	textured black	2700 K
33332673	textured graphite-grey	2700 K



Modular construction: further light colors and power outputs are available on demand.

2540.25 / 36185250 / 12185253 / 33185253
Recessed spot



Base model low-voltage

For low voltage lamp: 1x GX5,3 QRCBC51, power: max. 50 W, material: aluminium

Driver see page 645.

Energy efficiency class: A to C

Article-no.	Colour of housing
2540.25	alu satin



Base model high-voltage spot for retrofit

For high voltage lamp: 1x GU10 QPAR51, power: max. 50 W, material: aluminium, HV-clamp included

Energy efficiency class: A++ to E

Article-no.	Colour of housing
36185250	alu satin



LED 350 mA

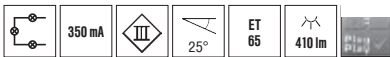
Incl. light source: 1x LED, power: 6,6W, beam angle: 38° material: aluminium / clear glass

Dimmable drivers see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
12185253	alu satin	2700 K ●



Modular construction: further light colors and power outputs are available on demand.

LED-Set, including driver

Incl. light source: 1x LED, power: 6,6 W, material: aluminium / clear glass, beam angle: 38°, incl. driver for 230 V-connection, not dimmable, dimension driver: 168 x w 35 x h 21 mm

Energy efficiency class: A++ to A

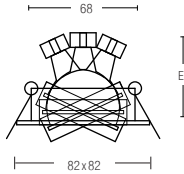
This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
33185253	alu satin	2700 K ●



Modular construction: further light colors and power outputs are available on demand.

2542.25 / 36186250 / 12186253 / 33186253
Recessed spot



Base model low-voltage

For low voltage lamp: 1x GX5,3 QRCBC51, power: max. 50 W, material: aluminium

Driver see page 645.

Energy efficiency class: A to C

Article-no.	Colour of housing
2542.25	alu satin



Base model high-voltage spot for retrofit

For high voltage lamp: 1x GU10 QPAR51, power: max. 50 W, material: aluminium, HV-clamp included

Energy efficiency class: A++ to E

Article-no.	Colour of housing
36186250	alu satin



Base model LED 350 mA

Incl. light source: 1x LED, power: 6,6W, beam angle: 38°, material: aluminium / clear glass

Dimmable drivers see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
12186253	alu satin	2700 K



Modular construction: further light colors and power outputs are available on demand.

LED-Set, including driver

Incl. light source: 1x LED, power: 6,6W, material: aluminium / clear glass beam angle: 38°, incl. driver for 230 V-connection, not dimmable, dimension driver: 168 x w 35 x h 21 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

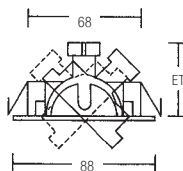
Article-no.	Colour of housing	Colour temperature
33186253	alu satin	2700 K



Modular construction: further light colors and power outputs are available on demand.

1963... / 36141... / 12141... / 33141...

Recessed spot



Base model low-voltage

For low voltage lamp: 1x GX5,3 QRCBC51, power: max. 50 W, material: cast, socket with electrical feeding 300 mm

Driver see page 645.

Energy efficiency class: A to C

Article-no.	Colour of housing
1963.02	chrome
1963.03	chrome satin
1963.05	gold
1963.07	white
1963.15	nickel satin



Base model high-voltage spot for retrofit

For high voltage lamp: 1x GU10 QPAR51, power: max. 50 W, material: cast, HV-clamp included

Energy efficiency class: A++ to E

Article-no.	Colour of housing
36141020	chrome
36141030	chrome satin
36141050	gold
36141070	white
36141150	nickel satin



Base model LED 350 mA

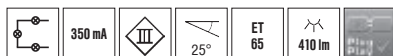
Incl. light source: 1x LED, power: 6,6W, beam angle: 38°, material: cast / clear glass

Dimmable drivers see on page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
12141023	chrome	2700 K
12141033	chrome satin	2700 K
12141053	gold	2700 K
12141073	white	2700 K
12141153	nickel satin	2700 K



Modular construction: further light colors and power outputs are available on demand.

LED-Set, including driver

Incl. light source: 1x LED, power: 6,6W, beam angle: 38°, material: cast / clear glass, incl. driver for 230 V-connection, not dimmable, dimension driver: 168 x w 35 x h 21 mm

Energy efficiency class: A++ to A

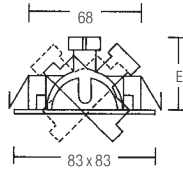
This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
33141023	chrome	2700 K
33141033	chrome satin	2700 K
33141053	gold	2700 K
33141073	white	2700 K
33141153	nickel satin	2700 K



Modular construction: further light colors and power outputs are available on demand.

1964... / 36142... / 12142... / 33142...
Recessed spot



Base model low-voltage

For low voltage lamp: 1x GX5,3 QRCBC51, power: max. 50 W, material: cast, socket with electrical feeding 300 mm

Driver see on page 645.

Energy efficiency class: A to C

Article-no.	Colour of housing
1964.02	chrome
1964.03	chrome satin
1964.05	gold
1964.07	white
1964.15	nickel satin



Base model high-voltage spot for retrofit

For high voltage lamp: 1x GU10 QPAR51, power: max. 50 W, material: cast, HV-clamp included

Energy efficiency class: A++ to E

Article-no.	Colour of housing
36142020	chrome
36142030	chrome satin
36142050	gold
36142070	white
36142150	nickel satin



Base model LED 350 mA

Incl. light source: 1x LED, power: 6,6W, beam angle: 38°, material: cast / clear glass

Dimmable drivers see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
12142023	chrome	2700 K
12142033	chrome satin	2700 K
12142053	gold	2700 K
12142073	white	2700 K
12142153	nickel satin	2700 K



Modular construction: further light colors and power outputs are available on demand.

LED-Set, including driver

Incl. light source: 1x LED, power: 6,6W, beam angle: 38°, material: cast / clear glass, incl. driver for 230 V-connection, not dimmable, dimension driver: 168 x w 35 x h 21 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
33142023	chrome	2700 K
33142033	chrome satin	2700 K
33142053	gold	2700 K
33142073	white	2700 K
33142153	nickel satin	2700 K

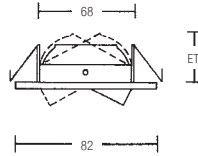


Modular construction: further light colors and power outputs are available on demand.



Cottage Wortelkamp, Schermbeck (Germany)

2169... / 36303... / 12303... / 33303...
Recessed spot



Base model low-voltage

For low voltage lamp: 1x GX5,3 QRCBC51, power: max. 50 W, material: alu cast

Drivers see page 645.

Energy efficiency class: A to C

Article-no.	Colour of housing
2169.02	chrome
2169.03	chrome satin
2169.05	gold
2169.07	white



Base model high-voltage spot for retrofit

For high voltage lamp: 1x GU10 QPAR51, power: max. 50 W, material: alu cast, HV-clamp included

Energy efficiency class: A++ to E

Article-no.	Colour of housing
36303020	chrome
36303030	chrome satin
36303050	gold
36303070	white



Base model LED 350 mA

Incl. light source: 1x LED, power: 6,6W, beam angle: 38°, material: alu cast / clear glass

Dimmable drivers see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
12303023	chrome	2700 K
12303033	chrome satin	2700 K
12303053	gold	2700 K
12303073	white	2700 K



Modular construction: further light colors and power outputs are available on demand.

LED-Set, including driver

Incl. light source: 1x LED, power: 6,6W, beam angle: 38°, material: alu cast / clear glass, incl. driver for 230 V-connection, not dimmable, dimension driver: 168 x w 35 x h 21 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

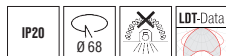
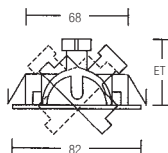
Article-no.	Colour of housing	Colour temperature
33303023	chrome	2700 K
33303033	chrome satin	2700 K
33303053	gold	2700 K
33303073	white	2700 K



Modular construction: further light colors and power outputs are available on demand.

2034... / 36180... / 12180... / 33180...

Recessed spot



Base model low-voltage

For low voltage lamp: 1x GX5,3 QRCBC51, power: max. 50 W, material: steel / brass

Drivers see page 645.

Energy efficiency class: A to C

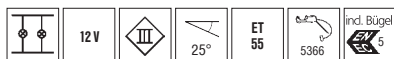
Article-no.	Colour of housing
2034.02	chrome
2034.03	chrome satin
2034.05	gold
2034.07	white
2034.08	black

Base model high-voltage spot for retrofit

For high voltage lamp: 1x GU10 QPAR51, power: max. 50 W, material: steel / brass, HV-clamp included

Energy efficiency class: A++ to E

Article-no.	Colour of housing
36180020	chrome
36180030	chrome satin
36180050	gold
36180070	white
36180080	black



Base model LED 350 mA

Incl. light source: 1x LED, power: 6,6W, beam angle: 38°, material: steel / brass / clear glass

Dimmable drivers see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
12180023	chrome	2700 K
12180033	chrome satin	2700 K
12180053	gold	2700 K
12180073	white	2700 K
12180083	black	2700 K

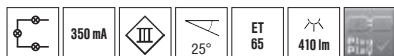
LED-Set, including driver

Incl. light source: 1x LED, power: 6,6 W, beam angle: 38°, material: steel / brass / clear glass, incl. driver for 230 V-connection, not dimmable, dimension driver: 168 x w 35 x h 21 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

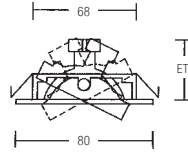
Article-no.	Colour of housing	Colour temperature
33180023	chrome	2700 K
33180033	chrome satin	2700 K
33180053	gold	2700 K
33180073	white	2700 K
33180083	black	2700 K



Modular construction: further light colors and power outputs are available on demand.

Modular construction: further light colors and power outputs are available on demand.

1925... / 36145... / 12145... / 33145...
Recessed spot



Base model low-voltage

For low voltage lamp: 1x GX5,3 QRCBC51, power: max. 50 W, material: steel or stainless steel (applies for article-ending: 20, 22, 27)

Drivers see page 645.

Energy efficiency class: A to C

Article-no.	Colour of housing
1925.02	chrome
1925.05	gold
1925.07	white
1925.15	nickel satin
1925.17	textured white
1925.20	stainless steel clear powdered
1925.22	stainless steel
1925.27	stainless steel white powdered



Base model high-voltage spot for retrofit

For high voltage lamp: 1x GU10 QPAR51, power: max. 50 W, material: steel or stainless steel (applies for article-ending: 200, 220, 270), HV-clamp included

Energy efficiency class: A++ to E

Article-no.	Colour of housing
36145020	chrome
36145050	gold
36145070	white
36145150	nickel satin
36145170	textured white
36145200	stainless steel clear powdered
36145220	stainless steel
36145270	stainless steel white powdered



Base model LED 350 mA

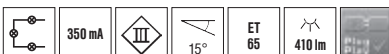
Incl. light source: 1x LED, power: 6,6 W, beam angle: 38°, material: steel or stainless steel (applies for article-ending: 203, 223, 273) / clear glass

Dimmable drivers see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
12145023	chrome	2700 K
12145053	gold	2700 K
12145073	white	2700 K
12145153	nickel satin	2700 K
12145173	textured white	2700 K
12145203	stainless steel clear powdered	2700 K
12145223	stainless steel	2700 K
12145273	stainless steel white powdered	2700 K



Modular construction: further light colors and power outputs are available on demand.

LED-Set, including driver

Incl. light source: 1x LED, power: 6,6 W, beam angle: 38°, material: steel or stainless steel (applies for article-ending: 203, 223, 273) / clear glass, incl. driver for 230 V-connection, not dimmable, dimension driver: 168 x w 35 x h 21 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
33145023	chrome	2700 K
33145053	gold	2700 K
33145073	white	2700 K
33145153	nickel satin	2700 K
33145173	textured white	2700 K
33145203	stainless steel clear powdered	2700 K
33145223	stainless steel	2700 K
33145273	stainless steel white powdered	2700 K

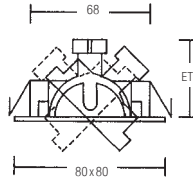


Modular construction: further light colors and power outputs are available on demand.

Private home, Vienna (Austria)



1936... / 36146... / 12146... / 33146...
Recessed spot



Base model low-voltage

For low voltage lamp: 1x GX5,3 QRCBC51, power: max. 50 W, material: steel

Drivers see page 645.

Energy efficiency class: A to C

Article-no.	Colour of housing
1936.02	chrome
1936.05	gold
1936.07	white
1936.26	steel satin



Base model high-voltage spot for retrofit

For high voltage lamp: 1x GU10 QPAR51, power: max. 50 W, material: steel, HV-clamp included

Energy efficiency class: A++ to E

Article-no.	Colour of housing
36146020	chrome
36146050	gold
36146070	white
36146260	steel satin



Base model LED 350 mA

Incl. light source: 1x LED, power: 6,6W, beam angle: 38°, material: steel / clear glass

Dimmable drivers see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
12146023	chrome	2700 K
12146053	gold	2700 K
12146073	white	2700 K
12146263	steel satin	2700 K



Modular construction: further light colors and power outputs are available on demand.

LED-Set, including driver

Incl. light source: 1x LED, power: 6,6W, beam angle: 38°, material: steel / clear glass, incl. driver for 230V-connection, not dimmable, dimension driver: 1 68 x w 35 x h 21 mm

Energy efficiency class: A++ to A

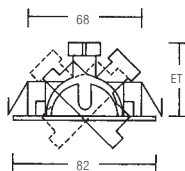
This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
33146023	chrome	2700 K
33146053	gold	2700 K
33146073	white	2700 K
33146263	steel satin	2700 K



Modular construction: further light colors and power outputs are available on demand.

2295... / 36304... / 12304... / 33304...
Recessed spot



Base model low-voltage

For low voltage lamp: 1x GX5,3 QRCBC51, power: max. 50 W, material: steel

Drivers see page 645.

Energy efficiency class: A to C

Article-no.	Colour of housing
2295.00	brass
2295.02	chrome
2295.07	white
2295.15	nickel satin



Base model high-voltage spot for retrofit

For high voltage lamp: 1x GU10 QPAR51, power: max. 50 W, material: steel, HV-clamp included

Energy efficiency class: A++ to E

Article-no.	Colour of housing
36304000	brass
36304020	chrome
36304070	white
36304150	nickel satin



Base model LED 350 mA

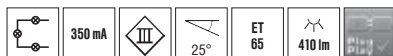
Incl. light source: 1x LED, power: 6,6W, beam angle: 38°, material: steel / clear glass

Dimmable drivers see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
12304003	brass	2700 K
12304023	chrome	2700 K
12304073	white	2700 K
12304153	nickel satin	2700 K



Modular construction: further light colors and power outputs are available on demand.

LED-Set, including driver

Incl. light source: 1x LED, power: 6,6W, beam angle: 38°, material: steel, / clear glass, incl. driver for 230 V-connection, not dimmable, dimension driver: 168 x w 35 x h 21 mm

Energy efficiency class: A++ to A

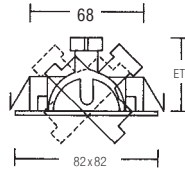
This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
33304003	brass	2700 K
33304023	chrome	2700 K
33304073	white	2700 K
33304153	nickel satin	2700 K



Modular construction: further light colors and power outputs are available on demand.

2296... / 36305... / 12305... / 33305...
Recessed spot



Base model low-voltage

For low voltage lamp: 1x GX5,3 QRCBC51, power: max. 50 W, material: steel

Drivers see page 645.

Energy efficiency class: A to C

Article-no.	Colour of housing
2296.02	chrome
2296.07	white
2296.15	nickel satin

Base model high-voltage spot for retrofit

For high voltage lamp: 1x GU10 QPAR51, power: max. 50 W, material: steel, HV-clamp included

Energy efficiency class: A++ to E

Article-no.	Colour of housing
36305020	chrome
36305070	white
36305150	nickel satin



Base model LED 350 mA

Incl. light source: 1x LED, power: 6,6W, beam angle: 38°, material: steel / clear glass

Dimmable drivers see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
12305023	chrome	2700 K
12305073	white	2700 K
12305153	nickel satin	2700 K

LED-Set, including driver

Incl. light source: 1x LED, power: 6,6W, beam angle: 38°, material: steel / clear glass, incl. driver for 230V-connection, not dimmable, dimension driver: 1 68 x w 35 x h 21 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
33305023	chrome	2700 K
33305073	white	2700 K
33305153	nickel satin	2700 K

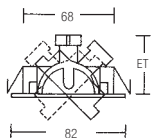


Modular construction: further light colors and power outputs are available on demand.

Modular construction: further light colors and power outputs are available on demand.

1996... / H1996... / 12182... / 33182...

Recessed spot



Base model low-voltage

For low voltage lamp: 1x GX5,3 QRCBC51, power: max. 50 W, material: steel

Drivers see page 645.

Energy efficiency class: A to C

Article-no.	Colour of housing
1996.02	chrome
1996.07	white
1996.15	nickel satin

Base model high-voltage spot for retrofit

For high voltage lamp: 1x GZ10QPAR-CB51, power: max. 50 W, material: steel, HV-clamp included

Energy efficiency class: A++ to E

Article-no.	Colour of housing
H1996.02	chrome
H1996.07	white
H1996.15	nickel satin



Base model LED 350 mA

Incl. light source: 1x LED, power: 6,6W, beam angle: 38°, material: steel / clear glass

Dimmable drivers see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
12182023	chrome	2700 K
12182073	white	2700 K
12182153	nickel satin	2700 K

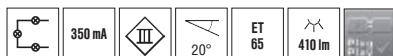
LED-Set, including driver

Incl. light source: 1x LED, power: 6,6 W, beam angle: 38°, material: steel / clear glass, incl. driver for 230 V-connection, not dimmable, dimension driver: 168 x w 35 x h 21 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

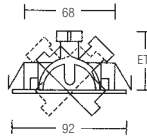
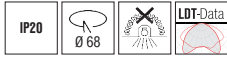
Article-no.	Colour of housing	Colour temperature
33182023	chrome	2700 K
33182073	white	2700 K
33182153	nickel satin	2700 K



Modular construction: further light colors and power outputs are available on demand.

Modular construction: further light colors and power outputs are available on demand.

2000... / 36181... / 12181... / 33181...
Recessed spot



Base model low-voltage

For low voltage lamp: 1x GX5,3 QRCBC51, power: max. 50 W, material: steel / brass

Drivers see page 645.

Energy efficiency class: A to C

Article-no.	Colour of housing
2000.00	brass
2000.02	chrome
2000.03	chrome satin
2000.07	white



Base model high-voltage spot for retrofit

For high voltage lamp: 1x GU10 QPAR51, power: max. 50 W, material: steel / brass, HV-clamp included

Energy efficiency class: A++ to E

Article-no.	Colour of housing
36181000	brass
36181020	chrome
36181030	chrome satin
36181070	white



Base model LED 350 mA

Incl. light source: 1x LED, power: 6,6 W, beam angle: 38°, material: steel / brass / clear glass

Dimmable drivers see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
12181003	brass	2700 K
12181023	chrome	2700 K
12181033	chrome satin	2700 K
12181073	white	2700 K



Modular construction: further light colors and power outputs are available on demand.

LED-Set, including driver

Incl. light source: 1x LED, power: 6,6 W, beam angle: 38°, material: steel / brass / clear glass, incl. driver for 230 V-connection, not dimmable, dimension driver: 168 x w 35 x h 21 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
33181003	brass	2700 K
33181023	chrome	2700 K
33181033	chrome satin	2700 K
33181073	white	2700 K

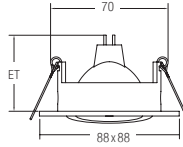


Modular construction: further light colors and power outputs are available on demand.



Private home, Coesfeld (Germany)

24002... / 36189... / 12189... / 33189...
Recessed spot



Base model low-voltage

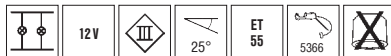
For low voltage lamp: 1x GX5,3 QRCBC51, power: max. 50 W, material: cast aluminium

Drivers see page 645.

Energy efficiency class: A to C

Article-no. Colour of housing

24002020	chrome
24002070	white
24002150	nickel satin



Base model high-voltage spot for retrofit

For high voltage lamp: 1x GU10 QPAR51, power: max. 50 W, material: cast aluminium, HV-clamp included

Energy efficiency class: A++ to E

Article-no. Colour of housing

36189020	chrome
36189070	white
36189150	nickel satin



Base model LED 350 mA

Incl. light source: 1x LED, power: 6,6 W, beam angle: 38°, material: cast aluminium / clear glass

Dimmable drivers see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
12189023	chrome	2700 K
12189073	white	2700 K
12189153	nickel satin	2700 K



Modular construction: further light colors and power outputs are available on demand.

LED-Set, including driver

Incl. light source: 1x LED, power: 6,6 W, beam angle: 38°, material: cast aluminium / clear glass, incl. driver for 230 V-connection, not dimmable, dimension driver: 1 68 x w 35 x h 21 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

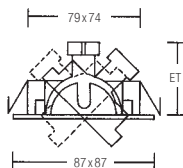
Article-no.	Colour of housing	Colour temperature
33189023	chrome	2700 K
33189073	white	2700 K
33189153	nickel satin	2700 K



Modular construction: further light colors and power outputs are available on demand.

2538.25 / 36192250 / 12192253 / 33192253

Recessed spot



Base model low-voltage

For low voltage lamp: 1x GX5,3 QRCBC51, power: max. 50 W, material: aluminium

Drivers see page 645.

Energy efficiency class: A to C

Article-no.	Colour of housing
2538.25	alu satin



Base model high-voltage spot for retrofit

For high voltage lamp: 1x GU10 QPAR51, power: max. 50 W, material: aluminium, HV-clamp included

Energy efficiency class: A++ to E

Article-no.	Colour of housing
36192250	alu satin



Base model LED 350 mA

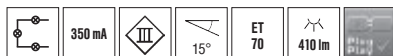
Incl. light source: 1x LED, power: 6,6W, beam angle: 38°, material: aluminium / clear glass

Dimmable drivers see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
12192253	alu satin	2700 K



Modular construction: further light colors and power outputs are available on demand.

LED-Set, including driver

Incl. light source: 1x LED, power: 6,6 W, beam angle: 38°, material: aluminium / clear glass, incl. driver for 230 V -connection, not dimmable, dimension driver: 168 x w 35 x h 21 mm

Energy efficiency class: A++ to A

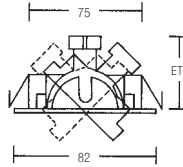
This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
33192253	alu satin	2700 K



Modular construction: further light colors and power outputs are available on demand.

2186.25 / 36190250 / 12190253 / 33190253
Recessed spot



Base model low-voltage

For low voltage lamp: 1x GX5,3 QRCBC51, power: max. 50 W, material: aluminium

Drivers see page 645.

Energy efficiency class: A to C

Article-no.	Colour of housing
2186.25	alu satin



Base model high-voltage spot for retrofit

For high voltage lamp: 1x GU10 QPAR51, power: max. 50 W, material: aluminium, HV-clamp included

Energy efficiency class: A++ to E

Article-no.	Colour of housing
36190250	alu satin



Base model LED 350 mA

Incl. light source: 1x LED, power: 6,6 W, beam angle: 38°, material: aluminium / clear glass

Dimmable drivers see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
12190253	alu satin	2700 K ●



Modular construction: further light colors and power outputs are available on demand.

LED-Set, including driver

Incl. light source: 1x LED, power: 6,6 W, beam angle: 38°, material: aluminium / clear glass, incl. driver for 230 V-connection, not dimmable, dimension driver: 168 x w 35 x h 21 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

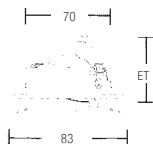
Article-no.	Colour of housing	Colour temperature
33190253	alu satin	2700 K ●



Modular construction: further light colors and power outputs are available on demand.

2110... / 12326... / 33326...

Recessed spot



Base model low-voltage , HV, LED 12V DC, LED 350 mA and LED 700 mA

Power: max. 50 W, material: aluminium, **without socket**,
for low-voltage-and-high-voltage lamps a separate clamp has to be ordered

Article-no.	Colour of housing
2110.02	chrome
2110.05	gold
2110.07	white
2110.09	noble chrome
2110.15	nickel satin

clamp for LED 12V DC

Separate LED clamp
For LED light source:
R3704..(see page 374)
power: 4,3 W
Energy efficiency class: A++ to A
Art.-No. 5399



Luminary with frame:



clamp for LV

Separate low voltage clamp
For low voltage lamp:
1x GX5,3 QRBCB51,
power: max. 50 W
Energy efficiency class: A to C
Art.-No. 5387



Luminary with frame:



Drivers see page 645.

clamp for HV

Separate high voltage clamp
For high voltage lamp:
GU10 QPAR51,
power: max. 50 W
Energy efficiency class: A++ to E
Art.-No. 5397

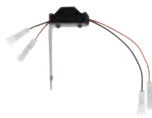


Luminary with frame:



clamp for LED 700 mA

Separate LED clamp
For LED light source:
R3701..(see page 375)
power: 6,7 W
Energy efficiency class: A++ to A
Art.-No. 5398



Luminary with frame:



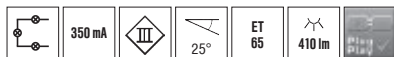
Base model LED 350 mA incl. lamp

Incl. light source: 1x LED, power: 6,6 W, beam angle: 38°,
material: aluminium / clear glass

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
12326023	chrome	2700 K
12326053	gold	2700 K
12326073	white	2700 K
12326093	noble chrome	2700 K
12326153	nickel satin	2700 K



clamp for LED 350 mA

Separate LED clamp
For LED-Set: 12326... and 33326... and R3705..(see page 374)
Energy efficiency class: A++ to A
Art.-No. 5388

Luminary with frame:



LED-Set, incl. driver and lamp

Incl. light source: 1x LED, power: 6,6 W, beam angle: 38°,
material: aluminium / clear glass, incl. driver for 230 V-connection, not dimmable,
dimension driver: 1 68 x w 35 x h 21 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

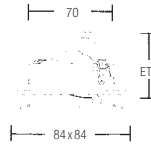
Article-no.	Colour of housing	Colour temperature
33326023	chrome	2700 K
33326053	gold	2700 K
33326073	white	2700 K
33326093	noble chrome	2700 K
33326153	nickel satin	2700 K



Dimmable drivers for 12326...see page 629.

Modular construction: further light colors and power outputs are available on demand.

2111... / 12327... / 33327...
Recessed spot



Base model low-voltage , HV, LED 12V DC, LED 350 mA and LED 700 mA

Power: max. 50 W, material: aluminium, **without socket**,
for low-voltage-and-high-voltage lamps please order suitable clamp separately

Article-no.	Colour of housing
2111.02	chrome
2111.05	gold
2111.07	white
2111.09	noble chrome
2111.15	nickel satin

clamp for LED 12V DC

Separate LED clamp
For LED light source:
R3704... (see page 374)
power: 4,3W
Energy efficiency class: A++ to A
Art.-No. 5399



Luminaire with frame:



clamp for LV

Separate low voltage clamp
For low voltage lamp:
1x GX5,3 QRCBC51,
power: max. 50 W
Energy efficiency class: A to C
Art.-No. 5387



Luminaire with frame:



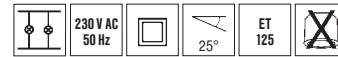
Drivers see page 645.

clamp for HV

Separate high voltage clamp
For high voltage lamp:
GU10 QPAR51,
power: max. 50 W
Energy efficiency class: A++ to E
Art.-No. 5397



Luminaire with frame:



clamp for LED 700 mA

Separate LED clamp
For LED light source:
R3701... (see page 375)
power: 6,7W
Energy efficiency class: A++ to A
Art.-No. 5398



Luminaire with frame:



Base model LED 350 mA incl. lamp

Incl. light source: 1x LED, power: 6,6W, beam angle: 38°,
material: aluminium / clear glass

Energy efficiency class: A++ to A

This luminaire contains incorporated and
non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
12327023	chrome	2700 K
12327053	gold	2700 K
12327073	white	2700 K
12327093	noble chrome	2700 K
12327153	nickel satin	2700 K



clamp for LED 350 mA

Separate LED clamp
For LED-Set: 12327... and 33327... and R3705 (see page 374)
Energy efficiency class: A++ to A
Art.-No. 5388

Luminaire with frame:



LED-Set, incl. driver and lamp

Incl. light source: 1x LED, power: 6,6W, beam angle: 38°,
material: aluminium / clear glass,
incl. driver for 230 V-connection, not dimmable,
dimension driver: 168 x w 35 x h 21 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and
non-exchangeable LED light sources.

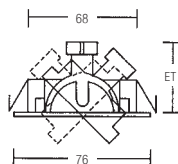
Article-no.	Colour of housing	Colour temperature
33327023	chrome	2700 K
33327053	gold	2700 K
33327073	white	2700 K
33327093	noble chrome	2700 K
33327153	nickel satin	2700 K



Dimmable drivers for 12327... see page 629.

Modular construction: further light colors and power outputs
are available on demand.

2067... / H2067... / 12197... / 33197... Recessed spot



Base model low-voltage

For low voltage lamp: 1x GX5,3 QRCBC51, power: max. 50 W, material: brass

Drivers see page 645.

Energy efficiency class: A to C

Article-no.	Colour of housing
2067.00	brass
2067.01	brass satin
2067.02	chrome
2067.03	chrome satin
2067.04	bronze
2067.07	white



Base model high-voltage spot for retrofit

For high voltage lamp: 1x GZ10 QPAR-CB51, power: max. 50 W, material: brass, HV-clamp included

Energy efficiency class: A++ to E

Article-no.	Colour of housing
H2067.00	brass
H2067.01	brass satin
H2067.02	chrome
H2067.03	chrome satin
H2067.04	bronze
H2067.07	white



Base model LED 350 mA

Incl. light source: 1x LED, power: 6,6W, beam angle: 38°, material: brass / clear glass

Dimmable drivers see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
12197003	brass	2700 K
12197013	brass satin	2700 K
12197023	chrome	2700 K
12197033	chrome satin	2700 K
12197043	bronze	2700 K
12197073	white	2700 K



Modular construction: further light colors and power outputs are available on demand.

LED-Set, including driver

Incl. light source: 1x LED, power: 6,6W, beam angle: 38°, material: brass / clear glass, incl. driver for 230 V-connection, not dimmable, dimension driver: 168 x w 35 x h 21 mm

Energy efficiency class: A++ to A

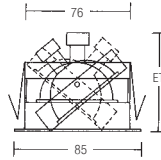
This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
33197003	brass	2700 K
33197013	brass satin	2700 K
33197023	chrome	2700 K
33197033	chrome satin	2700 K
33197043	bronze	2700 K
33197073	white	2700 K



Modular construction: further light colors and power outputs are available on demand.

1053... / 36198... / 12198... / 33198...
Recessed spot



Base model low-voltage

For low voltage lamp: 1x GX5,3 QRCBC51, power: max. 50 W, material: brass

Drivers see page 645.

Energy efficiency class: A to C

Article-no.	Colour of housing
1053.00	brass
1053.02	chrome
1053.03	chrome satin
1053.04	bronze
1053.07	white

Base model high-voltage spot for retrofit

For high voltage lamp: 1x GU10 QPAR51, power: max. 50 W, material: brass, HV-clamp included

Energy efficiency class: A++ to E

Article-no.	Colour of housing
36198000	brass
36198020	chrome
36198030	chrome satin
36198040	bronze
36198070	white



Base model LED 350 mA

Incl. light source: 1x LED, power: 6,6 W, beam angle: 38°, material: brass / clear glass

Dimmable drivers see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
12198003	brass	2700 K
12198023	chrome	2700 K
12198033	chrome satin	2700 K
12198043	bronze	2700 K
12198073	white	2700 K

LED-Set, including driver

Incl. light source: 1x LED, power: 6,6 W, beam angle: 38°, material: brass / clear glass, incl. driver for 230 V-connection, not dimmable, dimension driver: 168 x w 35 x h 21 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
33198003	brass	2700 K
33198023	chrome	2700 K
33198033	chrome satin	2700 K
33198043	bronze	2700 K
33198073	white	2700 K

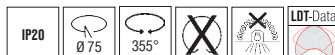
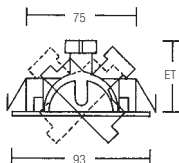


Modular construction: further light colors and power outputs are available on demand.

Modular construction: further light colors and power outputs are available on demand.

0069.25 / 33309253 / 36309250

Recessed spots



Base model low-voltage

For low voltage lamp: 1x GX5,3 QRCBC51, power: max. 50 W, material: aluminium

Drivers see page 645.

Energy efficiency class: A to C

Article-no.	Colour of housing
0069.25	alu satin



LED-Set, including driver

Incl. light source: 1x LED, power: 6,6 W, beam angle: 38°, material: aluminium / clear glass, incl. driver for 230 V-connection, not dimmable, dimension driver: 1 68 x w 35 x h 21 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
33309253	alu satin	2700 K



Modular construction: further light colors and power outputs are available on demand.

Base model HV for retrofit

For high voltage lamp: 1x GU10 QPAR51, power: max. 50 W, material: steel, HV-clamp included

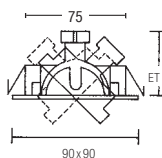
Energy efficiency class: A++ to E

Article-no.	Colour of housing
36309250	alu satin



0070.25 / 33310253 / 36310250

Recessed spots



Base model low-voltage

For low voltage lamp: 1x GX5,3 QRCBC51, power: max. 50 W, material: aluminium

Drivers see page 645.

Energy efficiency class: A to C

Article-no.	Colour of housing
0070.25	alu satin



LED-Set, including driver

Incl. light source: 1x LED, power: 6,6 W, beam angle: 38° material: aluminium / clear glass, incl. driver for 230 V-connection, not dimmable, dimension driver: 1 68 x w 35 x h 21 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
33310253	alu satin	2700 K



Modular construction: further light colors and power outputs are available on demand.

Base model HV for retrofit

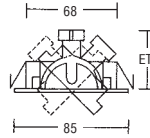
For high voltage lamp: 1x GU10 QPARC51, power: max. 50 W, material: aluminium, HV-clamp included

Energy efficiency class: A++ to E

Article-no.	Colour of housing
36310250	alu satin



2012.07 / 33312073 / 36312070
Recessed spots



Base model low-voltage

For low voltage lamp: 1x GX5.3 QRCBC51, power: max. 50 W, material: steel

Drivers see page 645.

Energy efficiency class: A to C

Article-no.	Colour of housing
2012.07	white



LED-Set, including driver

Incl. light source: 1x LED, power: 6.6 W, beam angle: 38° material: steel / clear glass, incl. driver for 230 V -connection, not dimmable, dimension driver: l 68 x w 35 x h 21 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
33312073	white	2700 K



Base model HV for retrofit

For high voltage lamp: 1x GU10 QPAR51, power: max. 50 W, material: steel, HV-clamp included

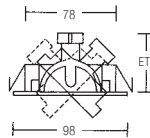
Energy efficiency class: A++ to E

Article-no.	Colour of housing
36312070	white



Modular construction: further light colors and power outputs are available on demand.

2050... / 33313... / 36313...
Recessed spots



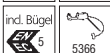
Base model low-voltage

For low voltage lamp: 1x GX5.3 QRCBC51, power: max. 50 W, material: steel

Drivers see page 645.

Energy efficiency class: A to C

Article-no.	Colour of housing
2050.02	chrome
2050.03	chrome satin
2050.04	bronze
2050.07	white



LED-Set, including driver

Incl. light source: 1x LED, power: 6.6 W, beam angle: 38° material: steel / clear glass, incl. driver for 230 V -connection, not dimmable, dimension driver: l 68 x w 35 x h 21 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
33313023	chrome	2700 K
33313033	chrome satin	2700 K
33313043	bronze	2700 K
33313073	white	2700 K



Modular construction: further light colors and power outputs are available on demand.

Base model HV for retrofit

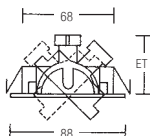
For high voltage lamp: 1x GU10 QPARC51, power: max. 50 W, material: steel, HV-clamp included

Energy efficiency class: A++ to E

Article-no.	Colour of housing
36313020	chrome
36313030	chrome satin
36313040	bronze
36313070	white



2052... / 33314... / 36314... Recessed spots



Base model low-voltage

For low voltage lamp: 1x GX5,3 QRCBC51, power: max. 50 W, material: steel

Drivers see page 645.

Energy efficiency class: A to C

Article-no. Colour of housing

2052.00	brass
2052.02	chrome
2052.03	chrome satin
2052.07	white



LED-Set, including driver

Incl. light source: 1x LED, power: 6,6 W, beam angle: 38°
material: steel / clear glass,
incl. driver for 230 V - connection, not dimmable, dimension driver:
1 68 x w 35 x h 21 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no. Colour of housing Colour temperature

33314003	brass	2700 K
33314023	chrome	2700 K
33314033	chrome satin	2700 K
33314073	white	2700 K



Modular construction: further light colors and power outputs are available on demand.

Base model HV for retrofit

For high voltage lamp: 1x GU10 QPAR51, power: max. 50 W, material: steel, HV-clamp included

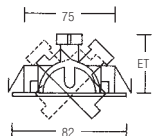
Energy efficiency class: A++ to E

Article-no. Colour of housing

36314000	brass
36314020	chrome
36314030	chrome satin
36314070	white



2093... / 33339... / 2351... Recessed spots



edge vaulted

Base model low-voltage

For low voltage lamp: 1x GX5,3 QRCBC51, power: max. 50 W, material: aluminium

Drivers see page 645.

Energy efficiency class: A to C

Article-no. Colour of housing

2093.02	chrome
2093.03	chrome satin
2093.05	gold
2093.07	white



LED-Set, including driver

Incl. light source: LED, power: 6,6 W, beam angle: 38°,
material: aluminium / clear glass,
incl. driver for 230 V - connection, not dimmable, dimension driver:
1 58 x w 35 x h 21 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no. Colour of housing Colour temperature

33339023	chrome	2700 K
33339033	chrome satin	2700 K
33339053	gold	2700 K
33339073	white	2700 K



Modular construction: further light colors and power outputs are available on demand.

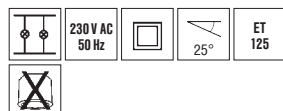
Base model HV for retrofit

For lamp: 1x GZ10 QPAR-CB51, power: max. 50 W, material: aluminium, HV-clamp included

Energy efficiency class: A++ to E

Article-no. Colour of housing

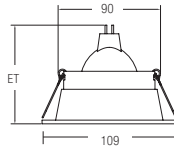
2351.02	chrome
2351.03	chrome satin
2351.05	gold
2351.07	white



20012... / 33307... / 36307...
Recessed spots



limitation of glare by inside-mounted bulb



Base model low-voltage

For low voltage lamp: 1x GX5.3 QRCBC51, power: max. 50 W, material: aluminium

Drivers see page 645.

Energy efficiency class: A to C

Article-no.	Colour of housing
20012020	chrome
20012070	white
20012250	alu satin



LED-Set, including driver

Incl. light source: 1x LED, power: 6.6 W, beam angle: 38° material: aluminium / clear glass, incl. driver for 230 V-connection, not dimmable, dimension driver: l 68 x w 35 x h 21 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
33307023	chrome	2700 K
33307073	white	2700 K
33307253	alu satin	2700 K



Modular construction: further light colors and power outputs are available on demand.

Base model HV for retrofit

For high voltage lamp: 1x GZ10 QPAR-CB51, power: max. 50 W, material: aluminium, HV-clamp included

Energy efficiency class: A++ to E

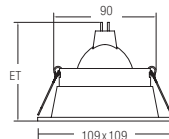
Article-no.	Colour of housing
36307020	chrome
36307070	white
36307250	alu satin



20013... / 33308... / 36308...
Recessed spots



limitation of glare by inside-mounted bulb



Base model low-voltage

For low voltage lamp: 1x GX5.3 QRCBC51, power: max. 50 W, material: aluminium

Drivers see page 645.

Energy efficiency class: A to C

Article-no.	Colour of housing
20013020	chrome
20013070	white
20013250	alu satin



LED-Set, including driver

Incl. light source: 1x LED, power: 6.6 W, beam angle: 38°, material: aluminium / clear glass, incl. driver for 230 V-connection, not dimmable, dimension driver: l 58 x w 35 x h 21 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
33308023	chrome	2700 K
33308073	white	2700 K
33308253	alu satin	2700 K



Modular construction: further light colors and power outputs are available on demand.

Base model HV for retrofit

For high voltage lamp: 1x GZ10 QPAR-CB51, power: max. 50 W, material: aluminium, HV-clamp included

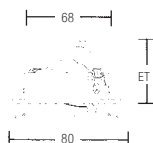
Energy efficiency class: A++ to E

Article-no.	Colour of housing
36308020	chrome
36308070	white
36308250	alu satin



1938... / 33315... / 36315...

Recessed spots



limitation of glare by inside-mounted bulb

Base model low-voltage

For low voltage lamp: 1x GX5,3 QRCBC51, power: max. 50 W, material: steel

Drivers see page 645.

Energy efficiency class: A to C

Article-no.	Colour of housing
1938.02	chrome
1938.05	gold
1938.07	white
1938.15	nickel satin



LED-Set, including driver

Incl. light source: 1x LED, power: 6,6 W, beam angle: 38°, material: steel / clear glass, incl. driver for 230 V-connection, not dimmable, dimension driver: 168 x w 35 x h 21 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
33315023	chrome	2700 K
33315053	gold	2700 K
33315073	white	2700 K
33315153	nickel satin	2700 K



Modular construction: further light colors and power outputs are available on demand.

Base model HV for retrofit

For lamp: 1x GU10 QPAR51, power: max. 50 W, material: steel, HV-clamp included

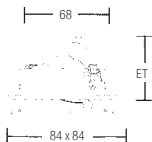
Energy efficiency class: A++ to E

Article-no.	Colour of housing
36315020	chrome
36315050	gold
36315070	white
36315150	nickel satin



1939... / 33315... / 36315...

Recessed spots



limitation of glare by inside-mounted bulb

Base model low-voltage

For low voltage lamp: 1x GX5,3 QRCBC51, power: max. 50 W, material: steel

Drivers see page 645.

Energy efficiency class: A++ to E

Article-no.	Colour of housing
1939.02	chrome
1939.05	gold
1939.07	white
1939.15	nickel satin



LED-Set, including driver

Incl. light source: 1x LED, power: 6,6 W, beam angle: 38°, material: steel / clear glass, incl. driver for 230 V-connection, not dimmable, dimension driver: 168 x w 35 x h 21 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
33316023	chrome	2700 K
33316053	gold	2700 K
33316073	white	2700 K
33316153	nickel satin	2700 K



Modular construction: further light colors and power outputs are available on demand.

Base model HV for retrofit

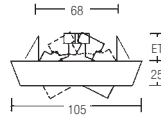
For lamp: 1x GU10 QPAR51, power: max. 50 W, material: steel, HV-clamp included

Energy efficiency class: A++ to E

Article-no.	Colour of housing
36316020	chrome
36316050	gold
36316070	white
36316150	nickel satin



1998... / 33318... / 36318...
Recessed spots



Base model low-voltage

For low voltage lamp: 1x GX5.3 QRCBC51, power: max. 50 W, material: steel

Drivers see page 645.

Energy efficiency class: A to C

Article-no.	Colour of housing
1998.02	chrome
1998.07	white
1998.15	nickel satin



LED-Set, including driver

Incl. light source: 1x LED, power: 6,6W, beam angle: 38° material: steel / clear glass, incl. driver for 230 V-connection, not dimmable, dimension driver: 1 68 x w 35 x h 21 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
33318023	chrome	2700 K
33318073	white	2700 K
33318153	nickel satin	2700 K



Modular construction: further light colors and power outputs are available on demand.

Base model HV for retrofit

For high voltage lamp: 1x GU10 QPAR51, power: max. 50 W, material: steel, HV-clamp included

Energy efficiency class: A++ to E

Article-no.	Colour of housing
36318020	chrome
36318070	white
36318150	nickel satin



Base model low-voltage

For low voltage lamp: 1x GX5.3 QRCBC51, power: max. 50 W, material: steel

Drivers see page 645.

Energy efficiency class: A to C

Article-no.	Colour of housing
1996.51	gold-white-gold



LED-Set, including driver

Incl. light source: 1x LED, power: 6,6W, beam angle: 38°, material: steel / clear glass, incl. driver for 230 V-connection, not dimmable, dimension driver: 1 68 x w 35 x h 21 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
33182513	gold-white-gold	2700 K



Modular construction: further light colors and power outputs are available on demand.

Base model HV for retrofit

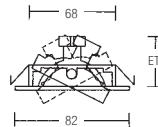
For high voltage lamp: 1x GU10 QPARC51, power: max. 50 W, material: steel, HV-clamp included

Energy efficiency class: A++ to E

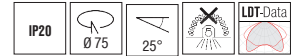
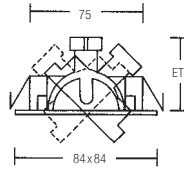
Article-no.	Colour of housing
36182510	gold-white-gold



1996.51 / 33182513 / 36182510
Recessed spots



2204... / 33319... / 36319...
Recessed spots



edge vaulted

Base model low-voltage

For low voltage lamp: 1x GX5,3 QRCBC51, power: max. 50 W, material: cast

Drivers see page 645.

Energy efficiency class: A to C

Article-no.	Colour of housing
2204.02	chrome
2204.03	chrome satin
2204.05	gold
2204.07	white



LED-Set, including driver

Incl. light source: 1x LED, power: 6,6 W, beam angle: 38°, material: cast / clear glass, incl. driver for 230 V-connection, not dimmable, dimension driver: 168 x w 35 x h 21 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
33319023	chrome	2700 K
33319033	chrome satin	2700 K
33319053	gold	2700 K
33319073	white	2700 K



Modular construction: further light colors and power outputs are available on demand.

Base model HV for retrofit

For high voltage lamp: 1x GU10 QPAR51, power: max. 50 W, material: cast, HV-clamp included

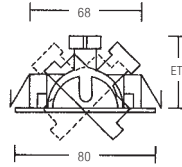
Energy efficiency class: A++ to E

Article-no.	Colour of housing
36319020	chrome
36319030	chrome satin
36319030	gold
36319070	white



Private home, Austria

1937.00 / 33321003 / 36321000
Recessed spots



Base model low-voltage

For low voltage lamp: 1x GX5,3 QRCBC51, power: max. 50 W, material: brass / steel

Drivers see page 645.

Energy efficiency class: A to C

Article-no.	Colour of housing
1937.00	brass



LED -Set, including driver

Incl. light source: 1x LED, power: 6,6 W, beam angle: 38°, material: brass / steel / clear glass, incl. driver for 230 V-connection, not dimmable, dimension driver: l 68 x w 35 x h 21 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
33321003	brass	2700 K



Modular construction: further light colors and power outputs are available on demand.

Base model HV for retrofit

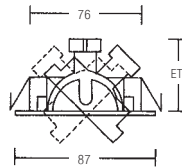
For high voltage lamp: 1x GU10 QPAR51, power: max. 50 W, material: brass / steel, HV-clamp included

Energy efficiency class: A++ to E

Article-no.	Colour of housing
36321000	brass



1009.00 / 33340003 / 36340000
Recessed spots



Base model low-voltage

For low voltage lamp: 1x GX5,3 QRCBC51, power: max. 50 W, material: brass

Drivers see page 645.

Energy efficiency class: A to C

Article-no.	Colour of housing
1009.00	brass



LED -Set, including driver

Incl. light source: 1x LED, power: 6,6 W, beam angle: 38°, material: brass / clear glass, incl. driver for 230 V-connection, not dimmable, dimension driver: l 68 x w 35 x h 21 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
33340003	brass	2700 K



Modular construction: further light colors and power outputs are available on demand.

Base model HV for retrofit

For high voltage lamp: 1x GU10 QPARC51, power: max. 50 W, material: brass, HV-clamp included

Energy efficiency class: A++ to E

Article-no.	Colour of housing
36340000	brass



Brumberg LED-Competence-Center, Heßdorf (Germany)

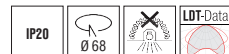
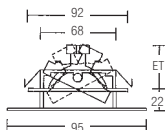




Fairmont Hotel „Vier Jahreszeiten“, Hamburg (Germany)



1920... / 33343... / 36343...
Recessed spots



33343...: Modular construction: further light colors and power outputs are available on demand.

Base model low-voltage

For low voltage lamp: 1x GX5,3 QRCBC51, power: max. 35W, material: steel / glass partly satined

Drivers see page 645.

Energy efficiency class: A to C

Article-no.	Colour of housing
1920.02	chrome
1920.03	chrome satin
1920.07	white

Article-no.	Specification
5760.00	replacement glass

LED-Set, including driver

Incl. light source: 1x LED, power: 6,6 W, beam angle: 38°, material: steel / glass partly satined / clear glass, incl. driver for 230 V-connection, not dimmable, dimension driver: 168 x w 35 x h 21 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
33343023	chrome	2700 K
33343033	chrome satin	2700 K
33343073	white	2700 K

Article-no.	Specification
5760.00	replacement glass

Base model HV for retrofit

For lamp: 1x GU10 QPAR51, power: max. 35W, material: steel / glass partly satined, HV-clamp included

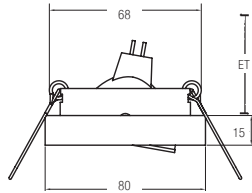
Energy efficiency class: A++ to E

Article-no.	Colour of housing
36343020	chrome
36343030	chrome satin
36343070	white

Article-no.	Specification
5760.00	replacement glass



20023... / 33341... / 36341...
Recessed spots



Base model low-voltage

For low voltage lamp: 1x GX5.3 QRCBC51, power: max. 50 W, material: aluminium cast

Drivers see page 645.

Energy efficiency class: A to C

Article-no.	Colour of housing
20023020	chrome
20023070	white
20023150	nickel satin



LED-Set, including driver

Incl. light source: 1x LED, power: 6.6 W, beam angle: 38°, material: aluminium cast / clear glass, incl. driver for 230 V-connection, not dimmable, dimension driver: l 68 x w 35 x h 21 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
33341023	chrome	2700 K
33341073	white	2700 K
33341153	nickel satin	2700 K



Modular construction: further light colors and power outputs are available on demand.

Base model HV for retrofit

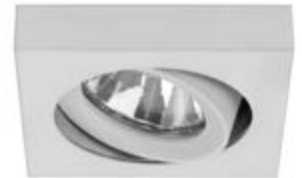
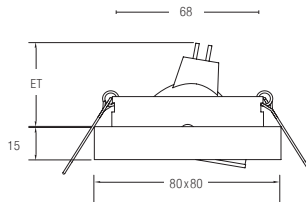
For high voltage lamp: 1x GU10 QPAR51, power: max. 50 W, material: aluminium cast, HV-clamp included

Energy efficiency class: A++ to E

Article-no.	Colour of housing
36341020	chrome
36341070	white
36341150	nickel satin



20024... / 33342... / 36342...
Recessed spots



Base model low-voltage

For low voltage lamp: 1x GX5.3 QRCBC51, power: max. 50 W, material: aluminium cast

Drivers see page 645.

Energy efficiency class: A to C

Article-no.	Colour of housing
20024020	chrome
20024070	white
20024150	nickel satin



LED-Set, including driver

Incl. light source: 1x LED, power: 6.6 W, beam angle: 38°, material: aluminium cast / clear glass, incl. driver for 230 V-connection, not dimmable, dimension driver: l 68 x w 35 x h 21 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
33342023	chrome	2700 K
33342073	white	2700 K
33342153	nickel satin	2700 K



Modular construction: further light colors and power outputs are available on demand.

Base model HV for retrofit

For high voltage lamp: 1x GU10 QPAR51, power: max. 50 W, material: aluminium cast, HV-clamp included

Energy efficiency class: A++ to E

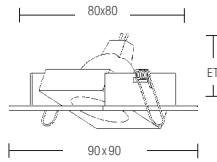
Article-no.	Colour of housing
36342020	chrome
36342070	white
36342150	nickel satin



Private home, Sundern (Germany)



512811 / 33323253
recessed spot



Base model low-voltage

For low voltage lamp: 1x GX5,3 QRCBC51, power: max. 50 W, material: aluminium

Drivers see page 645.

Energy efficiency class: A to C

Article-no. Colour of housing

512811 alu satin



LED-Set, including driver

Incl. light source: LED, power: ca. 6,6W, beam angle: 38°, material: aluminium / clear glass, incl. driver for 230 V-connection, not dimmable, dimension driver: 1 68 x w 35 x h 21 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

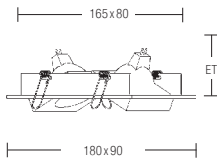
Article-no. Colour of housing Colour temperature

33323253 alu satin 2700 K ☉



Modular construction: further light colors and power outputs are available on demand.

512812 / 33324253
recessed spot



Base model low-voltage

For low voltage lamp: 2x GX5,3 QRCBC51, power: 2x max. 50 W, material: aluminium

Drivers see page 645.

Energy efficiency class: A to C

Article-no. Colour of housing

512812 alu satin



LED-Set, including driver

Incl. light source: 2x LED, power: 2x ca. 6,6W, beam angle: 38°, material: aluminium / clear glass, incl. driver for 230 V-connection, not dimmable, dimension driver: 1 145 x w 50 x h 22 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no. Colour of housing Colour temperature

33324253 alu satin 2700 K ☉



Modular construction: further light colors and power outputs are available on demand.



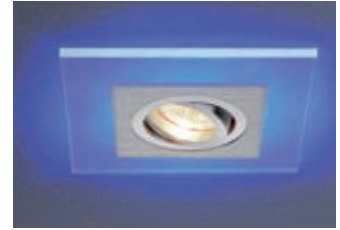
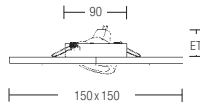
Wholesaler's exhibition, Barsbüttel (Germany)

2218... / 36344...

Recessed spots with squared LED deco-light



Delivery with LED-driver (protection class II, not dimmable). The transformer for low voltage bulb is not included. For separately switchable control two 230 V AC circuits needed (circuit 1 -> HV / transformer / circuit 2 -> LED driver)



Base model low-voltage

For lamp: 1x GX5,3 QRCBC51, power: max. 35 W and LED-Platine, power: 2,4 W, material: aluminium / glass

Drivers see page 645.

Energy efficiency class: A to C

Article-no. Colour of housing

2218.25B	<input checked="" type="radio"/>	alu satin
2218.25W	<input type="radio"/>	alu satin



Base model high-voltage for retrofit

For lamp: 1x GU10 QPAR51, power: max. 35 W and LED-Platine, power: 2,4 W material: aluminium / glass, HV-clamp included

Energy efficiency class: A++ to E

Article-no. Colour of housing

36344258	<input checked="" type="radio"/>	alu satin
36344255	<input type="radio"/>	alu satin

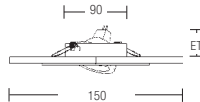


2219... / 36345...

Recessed spots with radial LED deco-light



Delivery with LED-driver (protection class II, not dimmable). The transformer for low voltage bulb is not included. For separately switchable control two 230 V AC circuits needed (circuit 1 -> HV / transformer / circuit 2 -> LED driver)



Base model low-voltage

For lamp: 1x GX5,3 QRCBC51, power: max. 35 W and LED-Platine, power: 2,4 W, material: aluminium / glass

Drivers see page 645.

Energy efficiency class: A to C

Article-no. Colour of housing

2219.25B	<input checked="" type="radio"/>	alu satin
2219.25W	<input type="radio"/>	alu satin



Base model high-voltage for retrofit

For lamp: 1x GU10 QPAR51, power: max. 35 W and LED-Platine, power: 2,4 W material: aluminium / glass, HV-clamp included

Energy efficiency class: A++ to E

Article-no. Colour of housing

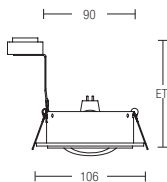
36345258	<input checked="" type="radio"/>	alu satin
36345255	<input type="radio"/>	alu satin



2220... / 36346... Recessed spots with radial LED deco-light



Spot available in chrome on request.



Delivery with LED-driver (protection class II, not dimmable). The transformer for low voltage bulb is not included. For separately switchable control two 230 V AC circuits needed (circuit 1 -> HV transformer / circuit 2 -> LED driver)

Base model low-voltage

For lamp: 1x GX5,3 QRCBC51, power: max. 35W and LED-Platine, power: 2,4W, material: aluminium / glass

Drivers see page 645.

Energy efficiency class: A to C

Article-no. Colour of housing

2220.25B ● alu satin

2220.25WW ● alu satin

Base model HV for retrofit

For lamp: 1x GU10 QPAR51, power: max. 35W and LED-Platine, power: 2,4W material: aluminium / glass, HV-clamp included

Energy efficiency class: A++ to E

Article-no. Colour of housing

36346258 ● alu satin

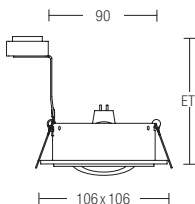
36346253 ● alu satin



2221... / 36347... Recessed spots with radial LED deco-light



Spot available in chrome on request.



Delivery with LED-driver (protection class II, not dimmable). The transformer for low voltage bulb is not included. For separately switchable control two 230 V AC circuits needed (circuit 1 -> HV transformer / circuit 2 -> LED driver)

Base model low-voltage

For lamp: 1x GX5,3 QRCBC51, power: max. 35 W and LED-Platine, power: 2,4 W, material: aluminium / glass

Drivers see page 645.

Energy efficiency class: A to C

Article-no. Colour of housing

2221.25B ● alu satin

2221.25WW ● alu satin

Base model HV for retrofit

For lamp: 1x GU10 QPAR51, power: max. 35 W and LED-Platine, power: 2,4 W material: aluminium / glass, HV-clamp included

Energy efficiency class: A++ to E

Article-no. Colour of housing

36347258 ● alu satin

36347253 ● alu satin

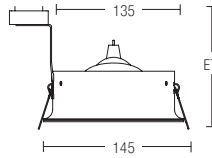


2225... / 36348...

Recessed spots with radial LED deco-light



Delivery with LED-driver (protection class II, not dimmable). The transformer for low voltage bulb is not included. For separately switchable control two 230 V AC circuits needed (circuit 1 -> HV transformer / circuit 2 -> LED driver)



Base model low-voltage

For lamp: 1x GX5,3 QRCBC51, power: max. 35 W and LED-Platine, power: 3,4 W, material: aluminium / glass

Drivers see page 645.

Energy efficiency class: A to C

Article-no.	Colour of housing
2225.25WW	● alu satin

Base model HV for retrofit

For lamp: 1x GU10 QPAR51, power: max. 35 W and LED-Platine, power: 3,4 W material: aluminium / glass, HV-clamp included

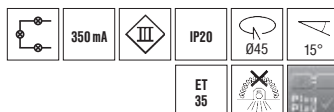
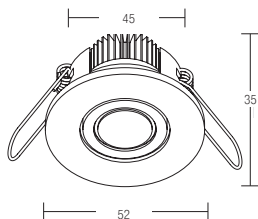
Energy efficiency class: A++ to E

Article-no.	Colour of housing
36348253	● alu satin



P3680NW

LED recessed spot



Specification

Incl. light source: 1x LED, power: ca. 1 W,
material: aluminium / plastic, incl. optical lens 38°

Installation into suspended ceilings by spring fixation

driver see page 628.

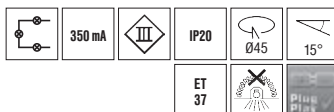
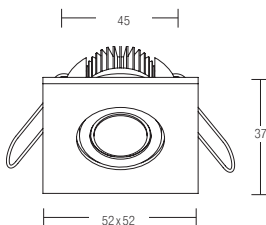
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
P3680NW	alu satin	4100K ●

P3681NW

LED recessed spot



Specification

Incl. light source: 1x LED, power: ca. 1 W,
material: aluminium / plastic,
incl. optical lens 38°,

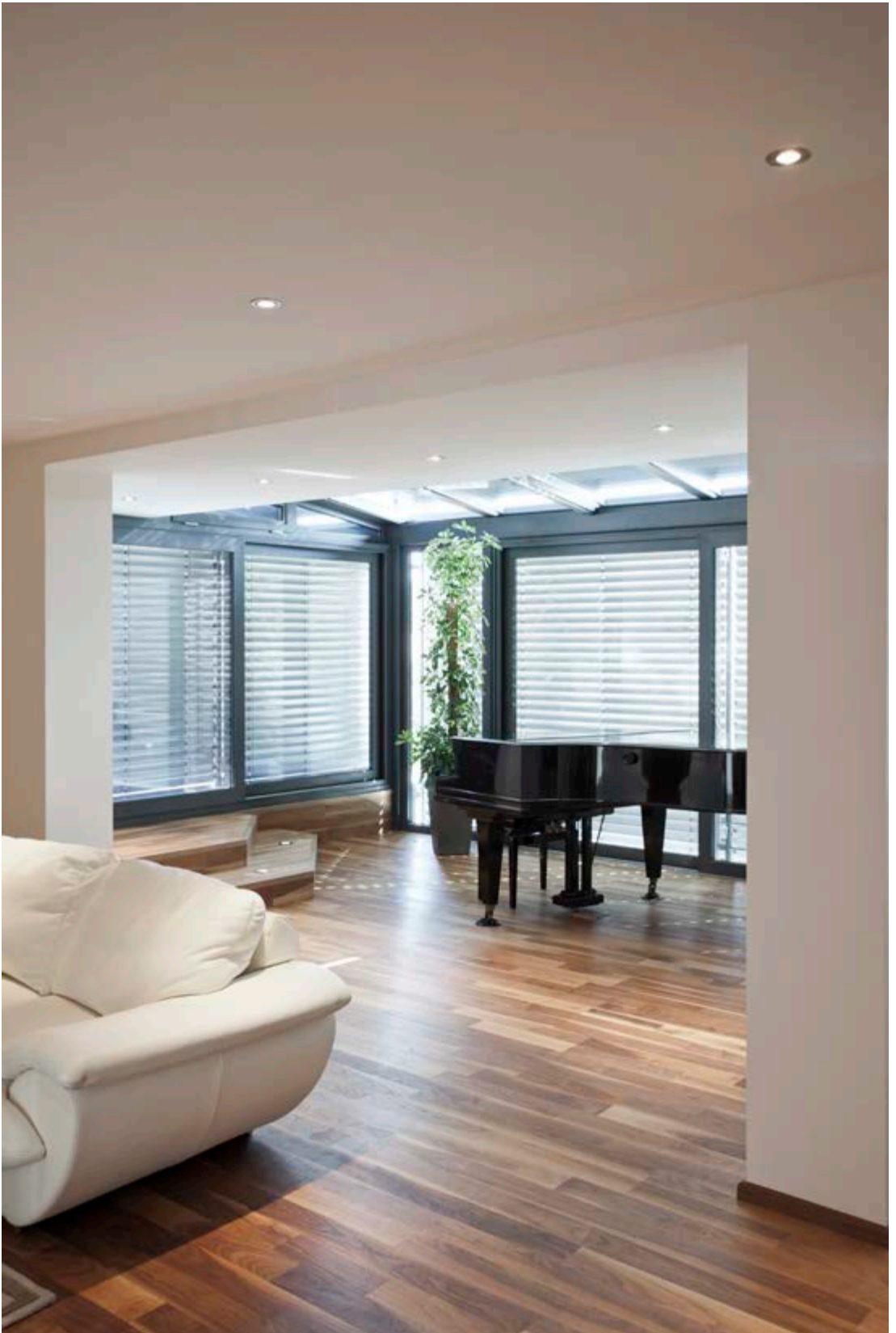
Installation into suspended ceilings by spring fixation

driver see page 628.

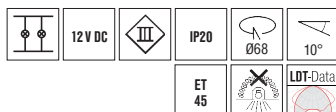
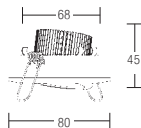
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
P3681NW	alu satin	4100K ●



R3004... LED recessed spots



Specification

Incl. light source: 1x LED, power: ca. 4,3W,
material: steel / aluminium / plastic

Installation into suspended ceilings by spring fixation.

driver see page 644.

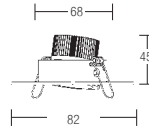
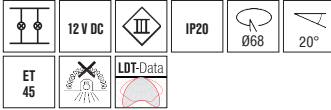
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources

Article-no.	Colour of housing	Colour temperature	Flux	Colour-rendering-index	Lenze
R3004NW2	nickel satin	4100 K	290 lm	CRI > 80	25°
R3004NW4	nickel satin	4100 K	283 lm	CRI > 80	45°
R3004NW6	nickel satin	4100 K	279 lm	CRI > 80	60°
R3004W2	nickel satin	6500 K	314 lm	CRI > 75	25°
R3004W4	nickel satin	6500 K	300 lm	CRI > 75	45°
R3004W6	nickel satin	6500 K	291 lm	CRI > 75	60°
R3004WW2	nickel satin	3000 K	176 lm	CRI > 90	25°
R3004WW4	nickel satin	3000 K	172 lm	CRI > 90	45°
R3004WW6	nickel satin	3000 K	169 lm	CRI > 90	60°



Health centre "Phoenix", Sinzheim (Germany)

R6304...
LED recessed spots


Specification

Incl. light source: 1x LED, power: ca. 4,3W,
material: aluminium / plastic

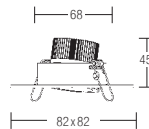
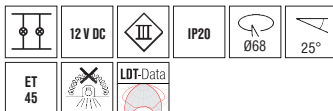
Installation into suspended ceilings by spring fixation.

driver see page 644.

Energy efficiency class: A++ to A

This luminaire contains incorporated and
non-exchangeable LED light sources

Article-no.	Colour of housing	Colour temperature	Flux	Colour-rendering-index	Lense
R6304NW2	alu satin	4100 K	290 lm	CRI > 80	25°
R6304NW4	alu satin	4100 K	283 lm	CRI > 80	45°
R6304NW6	alu satin	4100 K	279 lm	CRI > 80	60°
R6304W2	alu satin	6500 K	314 lm	CRI > 75	25°
R6304W4	alu satin	6500 K	300 lm	CRI > 75	45°
R6304W6	alu satin	6500 K	291 lm	CRI > 75	60°
R6304WW2	alu satin	3000 K	176 lm	CRI > 90	25°
R6304WW4	alu satin	3000 K	172 lm	CRI > 90	45°
R6304WW6	alu satin	3000 K	169 lm	CRI > 90	60°


 R6504...
LED recessed spots


Specification

Incl. light source: 1x LED, power: ca. 4,3W,
material: aluminium / plastic

Installation into suspended ceilings by spring fixation.

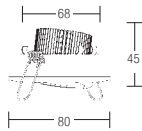
driver see page 644.

Energy efficiency class: A++ to A

This luminaire contains incorporated and
non-exchangeable LED light sources

Article-no.	Colour of housing	Colour temperature	Flux	Colour-rendering-index	Lense
R6504NW2	alu satin	4100 K	290 lm	CRI > 80	25°
R6504NW4	alu satin	4100 K	283 lm	CRI > 80	45°
R6504NW6	alu satin	4100 K	279 lm	CRI > 80	60°
R6504W2	alu satin	6500 K	314 lm	CRI > 75	25°
R6504W4	alu satin	6500 K	300 lm	CRI > 75	45°
R6504W6	alu satin	6500 K	291 lm	CRI > 75	60°
R6504WW2	alu satin	3000 K	176 lm	CRI > 90	25°
R6504WW4	alu satin	3000 K	172 lm	CRI > 90	45°
R6504WW6	alu satin	3000 K	169 lm	CRI > 90	60°

R3005...
LED recessed spots



Specification

Incl. light source: 1x LED, power: ca. 3,3 W, material: steel / aluminium / plastic

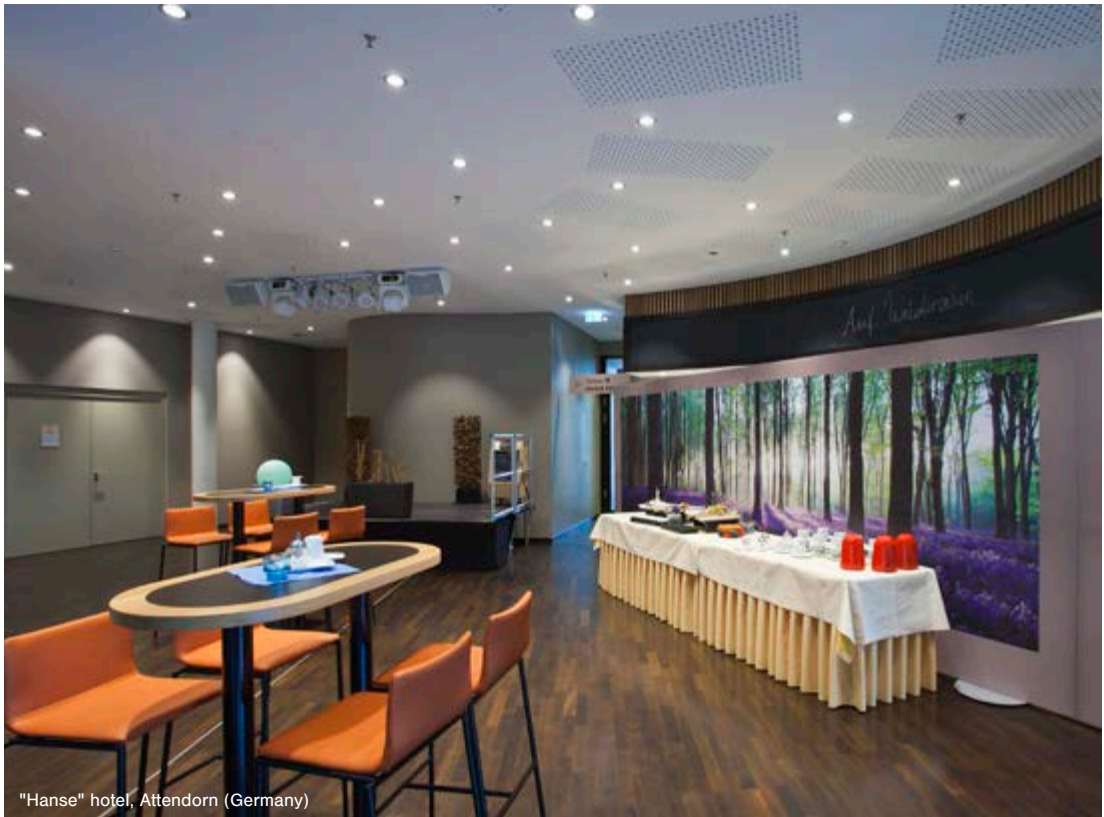
Installation into suspended ceilings by spring fixation.

driver see page 628.

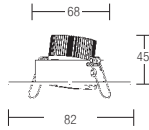
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources

Article-no.	Colour of housing	Colour temperature	Flux	Colour-rendering-index	Lens
R3005NW2	nickel satin	4100 K	290 lm	CRI > 80	25°
R3005NW4	nickel satin	4100 K	283 lm	CRI > 80	45°
R3005NW6	nickel satin	4100 K	279 lm	CRI > 80	60°
R3005W2	nickel satin	6500 K	314 lm	CRI > 75	25°
R3005W4	nickel satin	6500 K	300 lm	CRI > 75	45°
R3005W6	nickel satin	6500 K	291 lm	CRI > 75	60°
R3005WW2	nickel satin	3000 K	176 lm	CRI > 90	25°
R3005WW4	nickel satin	3000 K	172 lm	CRI > 90	45°
R3005WW6	nickel satin	3000 K	169 lm	CRI > 90	60°



"Hanse" hotel, Attendorf (Germany)

R0063...
 LED recessed spots

Specification

Incl. light source: 1x LED, power: ca. 3,3 W,
 material: aluminium / plastic

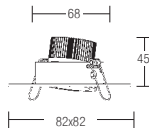
Installation into suspended ceilings by spring fixation.

driver see page 628.

Energy efficiency class: A++ to A

This luminaire contains incorporated and
 non-exchangeable LED light sources

Article-no.	Colour of housing	Colour temperature	Flux	Colour-rendering-index	Lenze
R0063NW2	alu satin	4100 K	290 lm	CRI > 80	25°
R0063NW4	alu satin	4100 K	283 lm	CRI > 80	45°
R0063NW6	alu satin	4100 K	279 lm	CRI > 80	60°
R0063W2	alu satin	6500 K	314 lm	CRI > 75	25°
R0063W4	alu satin	6500 K	300 lm	CRI > 75	45°
R0063W6	alu satin	6500 K	291 lm	CRI > 75	60°
R0063WW2	alu satin	3000 K	176 lm	CRI > 90	25°
R0063WW4	alu satin	3000 K	172 lm	CRI > 90	45°
R0063WW6	alu satin	3000 K	169 lm	CRI > 90	60°

R0065...
 LED recessed spots

Specification

Incl. light source: 1x LED, power: ca. 3,3 W,
 material: aluminium / plastic

Installation into suspended ceilings by spring fixation.

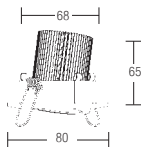
driver see page 628.

Energy efficiency class: A++ to A

This luminaire contains incorporated and
 non-exchangeable LED light sources

Article-no.	Colour of housing	Colour temperature	Flux	Colour-rendering-index	Lenze
R0065NW2	alu satin	4100 K	290 lm	CRI > 80	25°
R0065NW4	alu satin	4100 K	283 lm	CRI > 80	45°
R0065NW6	alu satin	4100 K	279 lm	CRI > 80	60°
R0065W2	alu satin	6500 K	314 lm	CRI > 75	25°
R0065W4	alu satin	6500 K	300 lm	CRI > 75	45°
R0065W6	alu satin	6500 K	291 lm	CRI > 75	60°
R0065WW2	alu satin	3000 K	176 lm	CRI > 90	25°
R0065WW4	alu satin	3000 K	172 lm	CRI > 90	45°
R0065WW6	alu satin	3000 K	169 lm	CRI > 90	60°

R3001...
LED recessed spots



Specification

Incl. light source: 3x LED, power: ca. 6,7 W, material: steel / aluminium / plastic

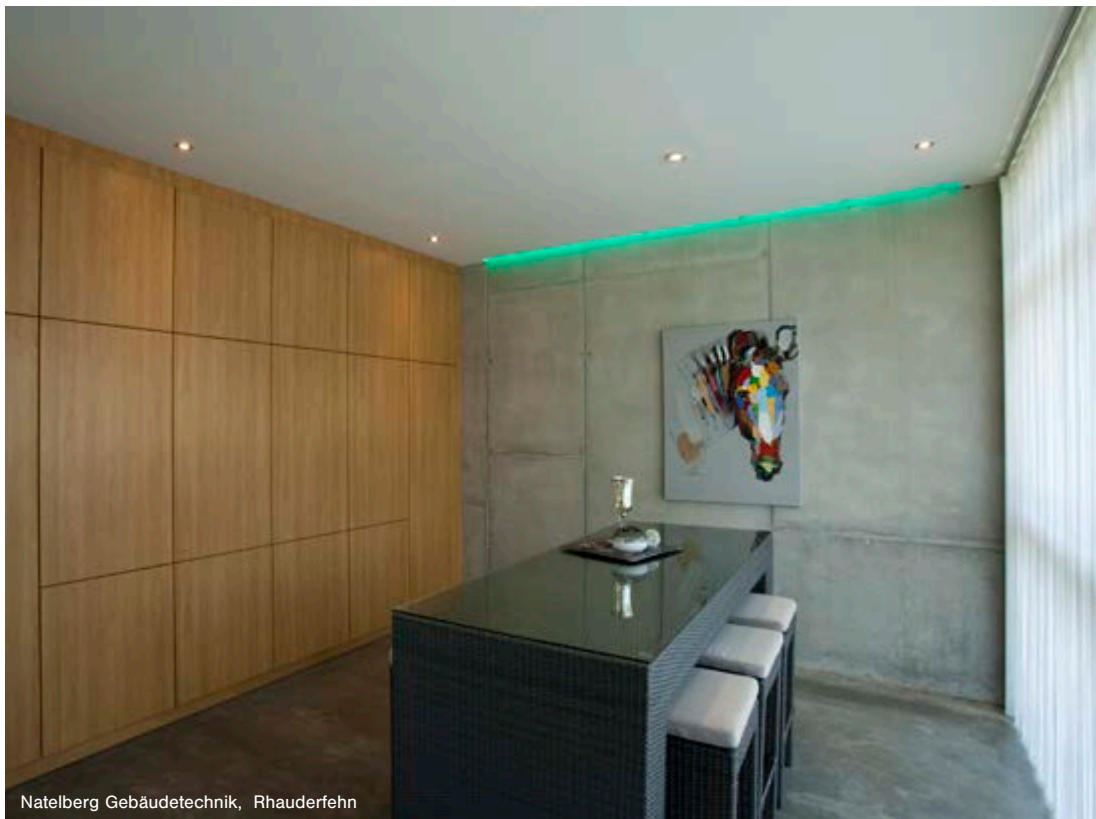
Installation into suspended ceilings by spring fixation.

driver see page 634.

Energy efficiency class: A++ to A

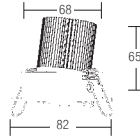
This luminaire contains incorporated and non-exchangeable LED light sources

Article-no.	Colour of housing	Colour temperature	Flux	Colour-rendering-index	Lenze
R3001NW2	nickel satin	4100 K	435 lm	CRI > 80	25°
R3001NW4	nickel satin	4100 K	423 lm	CRI > 80	45°
R3001NW6	nickel satin	4100 K	416 lm	CRI > 80	60°
R3001W2	nickel satin	6500 K	442 lm	CRI > 75	25°
R3001W4	nickel satin	6500 K	439 lm	CRI > 75	45°
R3001W6	nickel satin	6500 K	435 lm	CRI > 75	60°
R3001WW2	nickel satin	3000 K	281 lm	CRI > 90	25°
R3001WW4	nickel satin	3000 K	274 lm	CRI > 90	45°
R3001WW6	nickel satin	3000 K	269 lm	CRI > 90	60°



Natelberg Gebäudetechnik, Rhauderfehn

R6301... LED recessed spots



Specification

Incl. light source: 3x LED, power: ca. 6,7 W, material: aluminium / plastic

Installation into suspended ceilings by spring fixation.

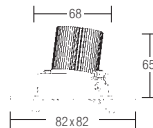
driver see page 634.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources

Article-no.	Colour of housing	Colour temperature	Flux	Colour-rendering-index	Lense
R6301NW2	alu satin	4100K	435lm	CRI > 80	25°
R6301NW4	alu satin	4100K	423lm	CRI > 80	45°
R6301NW6	alu satin	4100K	416lm	CRI > 80	60°
R6301W2	alu satin	6500K	442lm	CRI > 75	25°
R6301W4	alu satin	6500K	439lm	CRI > 75	45°
R6301W6	alu satin	6500K	435lm	CRI > 75	60°
R6301WW2	alu satin	3000 K	281lm	CRI > 90	25°
R6301WW4	alu satin	3000 K	274lm	CRI > 90	45°
R6301WW6	alu satin	3000 K	269lm	CRI > 90	60°

R6501... LED recessed spots



Specification

Incl. light source: 3x LED, power: ca. 6,7 W, material: aluminium / plastic

Installation into suspended ceilings by spring fixation.

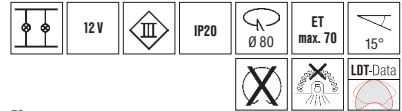
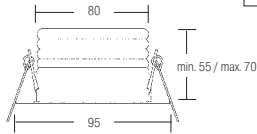
driver see page 634.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources

Article-no.	Colour of housing	Colour temperature	Flux	Colour-rendering-index	Lense
R6501NW2	alu satin	4100K	435lm	CRI > 80	25°
R6501NW4	alu satin	4100K	423lm	CRI > 80	45°
R6501NW6	alu satin	4100K	416lm	CRI > 80	60°
R6501W2	alu satin	6500K	442lm	CRI > 75	25°
R6501W4	alu satin	6500K	439lm	CRI > 75	45°
R6501W6	alu satin	6500K	435lm	CRI > 75	60°
R6501WW2	alu satin	3000 K	281lm	CRI > 90	25°
R6501WW4	alu satin	3000 K	274lm	CRI > 90	45°
R6501WW6	alu satin	3000 K	269lm	CRI > 90	60°

1085... Low voltage-Recessed spots



Specification

For low voltage lamp: 1x GX5,3 QRCBC51,
power: max. 50 W, material: steel

Drivers see page 645.

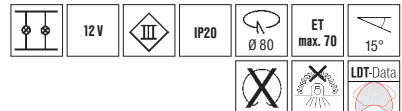
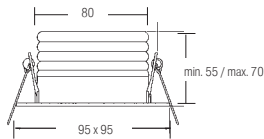
Energy efficiency class: A to C

Article-no. Colour of housing

1085.07 white

1085.08 black

1086... Low voltage-Recessed spots



Specification

For low voltage lamp: 1x 1x GX5,3 QRCBC51,
power: max. 50 W, material: steel

Drivers see page 645.

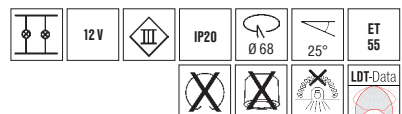
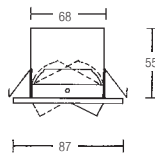
Energy efficiency class: A to C

Article-no. Colour of housing

1086.07 white

1086.08 black

1928... Low voltage-Recessed spots



Specification

For low voltage lamp: 1x 1x GX5,3 QRCBC51,
power: max. 50 W, material: cast / steel

Drivers see page 645.

Energy efficiency class: A to C

edge angular

Article-no. Colour of housing

1928.02 chrome

1928.07 white

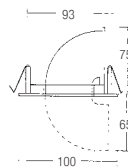
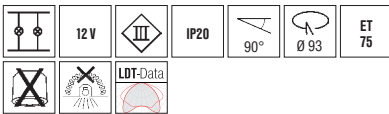
1928.15 nickel satin



Sauna park, Epe

2139...

Low voltage-Recessed spots



Specification

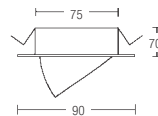
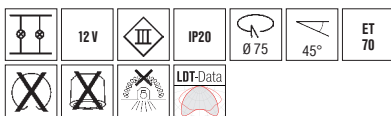
For low voltage lamp: 1x 1x GX5,3 QRCBC51,
power: max. 50 W, material: cast / steel

Drivers see page 645.

Energy efficiency class: A to C

Article-no. Colour of housing

2139.02	chrome
2139.03	chrome satin
2139.07	white



2174.25

Low voltage-Recessed spots



Specification

For low voltage lamp: 1x 1x GX5,3 QRCBC51,
power: max. 50 W, material: cast / steel

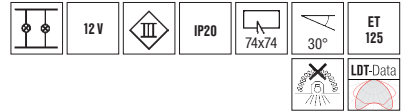
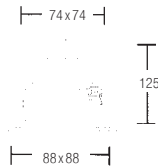
Drivers see page 645.

Energy efficiency class: A to C

Article-no. Colour of housing

2174.25	alu satin
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26002... Low voltage-Recessed spots



Specification

For low voltage lamp: 1x 1x GX5,3 QRCBC51, power: max. 50 W, material: cast / steel

Drivers see page 645.

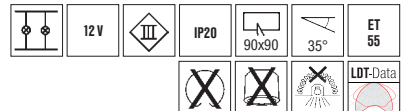
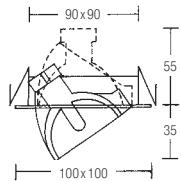
Energy efficiency class: A to C

Article-no. Colour of housing

26002070 white

26002150 nickel satin

2132.07 Low voltage-Recessed spots



Specification

For low voltage lamp: 1x 1x GX5,3 QRCBC51, power: max. 50 W, material: cast / steel

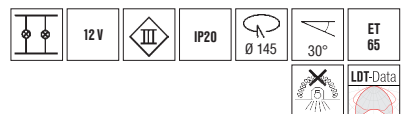
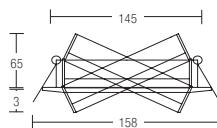
Drivers see page 645.

Energy efficiency class: A to C

Article-no. Colour of housing

2132.07 white

512761 Low voltage-Recessed luminaire



Specification

For low voltage lamp: 1x G53 QR-LP111, power: max. 50 W, material: aluminium

Drivers see page 645.

Energy efficiency class: A to C

Article-no. Colour of housing

512761 white



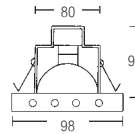
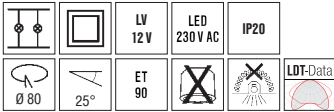
Private home, Going (Austria)



Private home, Münster (Germany)

2288...

recessed low-voltage spot with radial-led-circuit



Specification

For low voltage lamp: 1x GX5,3 QRCBC51, power: max. 35W, material: cast / crystal glass
 delivery with LED-driver (not dimmable). The transformer for the low voltage bulb is not included. For separately switchable control two 230 V AC circuits needed (circuit 1 -> transformer / circuit 2 -> LED driver)

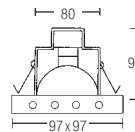
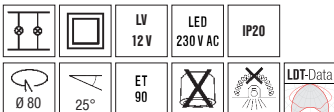
Low-voltage drivers see page 645.

Energy efficiency class: A to C

Article-no.	Colour of housing
2288.02W	○ chrome
2288.02B	● chrome
2288.02R	● chrome
2288.02Y	● chrome
2288.02G	● chrome

2284...

recessed low-voltage spot with radial-led-circuit



Specification

For low voltage lamp: 1x GX5,3 QRCBC51, power: max. 35W, material: cast

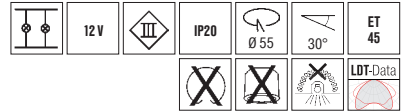
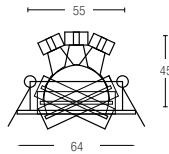
delivery with LED-driver (not dimmable). The transformer for the low voltage bulb is not included. For separately switchable control two 230 V AC circuits needed (circuit 1 -> transformer / circuit 2 -> LED driver).

Low-voltage drivers see page 645.

Energy efficiency class: A to C

Article-no	Colour of housing
2284.02W	○ chrome
2284.02B	● chrome
2284.02R	● chrome
2284.02Y	● chrome
2284.02G	● chrome

0067.25
low voltage spot



Specification

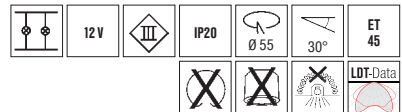
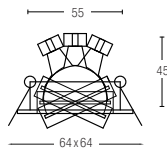
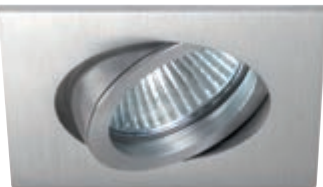
For low voltage lamp: 1x GZ4 QRCBC35,
power: max. 35 W, material: aluminium

Drivers see page 645.

Energy efficiency class: A+ to C

Article-no.	Colour of housing
0067.25	alu satin

0068.25
low voltage spot



Specification

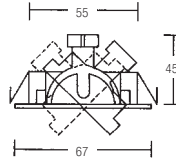
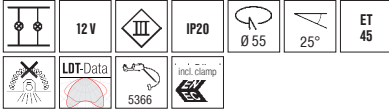
For low voltage lamp: 1x GZ4 QRCBC35,
power: max. 35 W, material: aluminium

Drivers see page 645.

Energy efficiency class: A+ to C

Article-no.	Colour of housing
0068.25	alu satin

2019...
low voltage spot



Specification

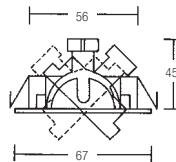
For low voltage lamp: 1x GZ4 QRCBC35,
power: max. 20 W, material: steel / brass

Drivers see page 645.

Energy efficiency class: A+ to C

Article-no.	Colour of housing
2019.02	chrome
2019.03	chrome satin
2019.07	white

1927...
low voltage spot



Specification

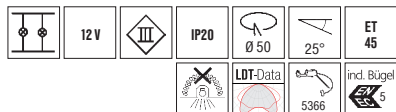
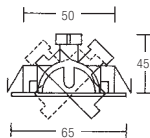
For low voltage lamp: 1x GZ4 QRCBC35,
power: max. 20 W, material: cast / steel

Drivers see page 645.

Energy efficiency class: A+ to C

Article-no.	Colour of housing
1927.05	gold
1927.07	white
1927.15	nickel satin

2089... low voltage spot



Specification

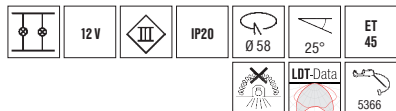
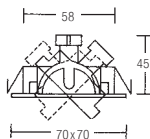
For low voltage lamp: 1x GZ4 QRCBC35,
power: max. 20 W, material: pure brass

Drivers see page 645.

Energy efficiency class: A+ to C

Article-no.	Colour of housing
2089.00	brass
2089.03	chrome satin

1026... low voltage spot



Specification

For low voltage lamp: 1x GZ4 QRCBC35,
power: max. 35 W, material: pure brass

Drivers see page 645.

Energy efficiency class: A+ to C

Article-no.	Colour of housing
1026.02	chrome
1026.03	chrome satin
1026.07	white



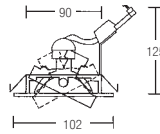
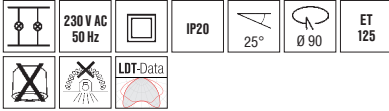
Brumberg LED-Competence-Center, Poing (Germany)



"Hanse" hotel, Attendorf (Germany)

2164...

High voltage recessed spots



Specification

For high voltage lamp: 1x GU10 QPAR64, power: max. 75 W, material: cast, HV-clamp included

Energy efficiency class: A++ to E

Article-no. Colour of housing

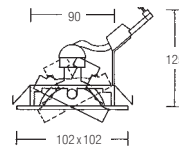
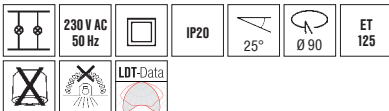
2164.02 chrome

2164.03 chrome satin

2164.07 white

2192.03

High voltage recessed spot



Specification

For high voltage lamp: 1x GU10 QPAR64, power: max. 75 W, material: cast, HV-clamp included

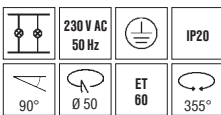
Energy efficiency class: A++ to E

Article-no. Colour of housing

2192.03 chrome satin

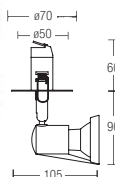
1204...

recessed & surface mounted high-voltage lights

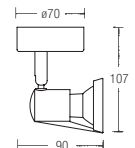


applies just for article-no.12043150

12043150



12044150



Specification

For lamp: 1x GU10 QPAR51 power: max. 50 W, material: steel / cast

Energy efficiency class: A++ to E

Article-no. Colour of housing

12043150 nickel satin

12044150 nickel satin

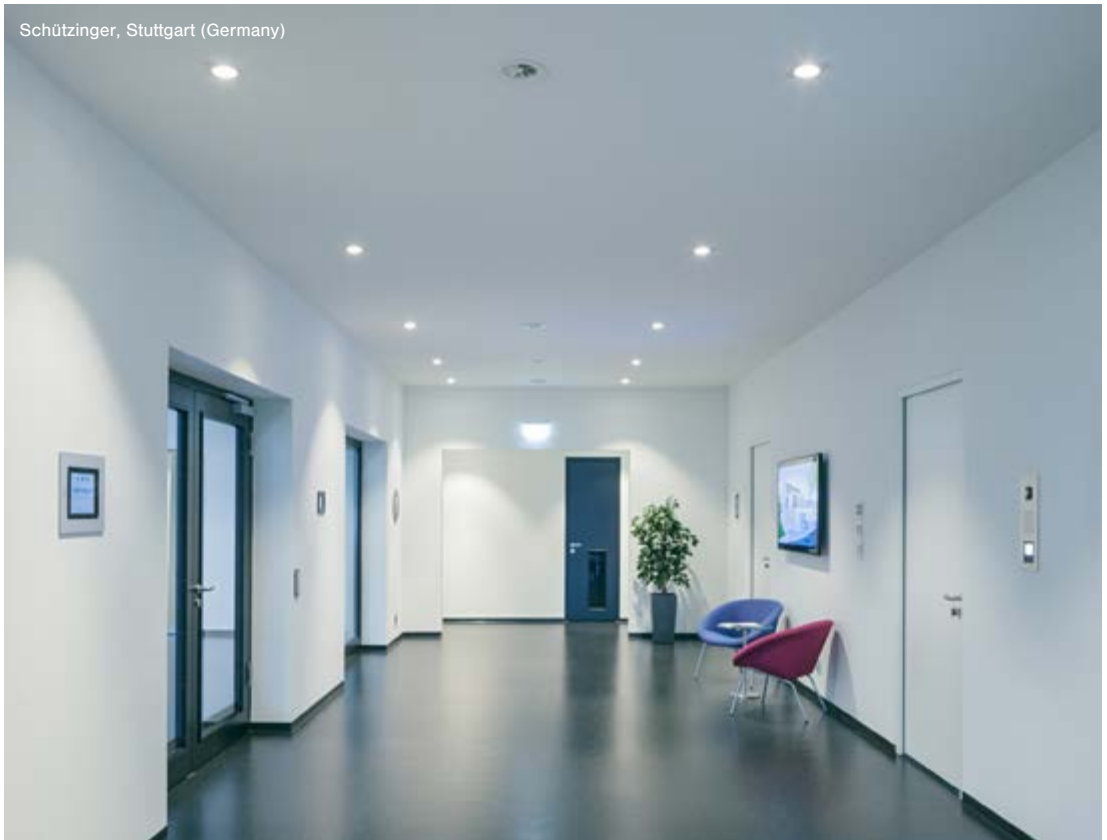


recessed

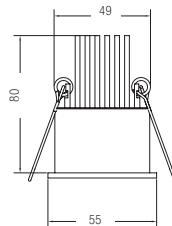
ceiling rigid



Schützinger, Stuttgart (Germany)



12412023 / 12413023
LED recessed downlight



NEW

Specification

Incl. light source: 1x LED, power: 5 W, beam angle: 50°
material: aluminium / glass

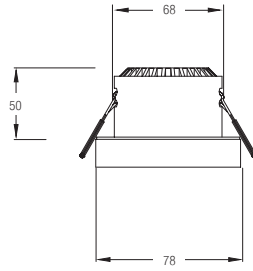
Drivers see page 628.

Energy efficiency class: A++ bis A
This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of housing	cover	colour temperature	Flux
12412023	chrome	clear glass	3000 K ●	420 lm
12413023	chrome	glass satin	3000 K ●	400 lm



12413023

12347003
LED recessed downlight

NEW

Specification

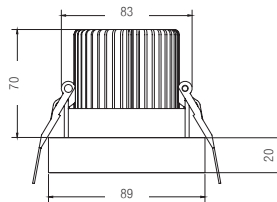
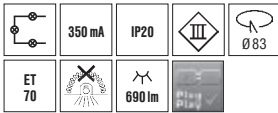
Incl. light source: LED, power: 7 W, beam angle: 38°;
material: aluminium / plastic / clear glass

Article-No.	Colour of housing	colour temperature
12347003	acryl glass partly satin	2700K ●

Drivers see page 628.

Energy efficiency class: A++ bis A

This luminaire contains incorporated and non-exchangeable LED light sources.

12416003
LED recessed downlight

NEW

Specification

Incl. light source: 1x LED, power: about 10 W,
material: aluminium / plastic satin

Article-No.	Colour of housing	colour temperature
12416003	plastic satin	3000K ●

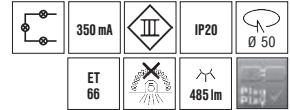
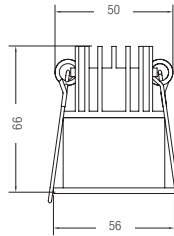
Drivers see page 628.

Energy efficiency class: A++ bis A

This luminaire contains incorporated and non-exchangeable LED light sources.



12105073
LED recessed downlight



NEW

Specification

Incl. light source: 1x LED, power: 6.2 W, beam angle: 24°, material: aluminium / clear plastic, suitable for ceiling thicknesses up to a maximum of 40 mm

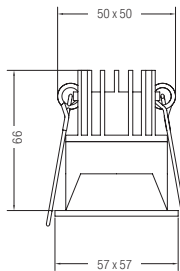
Drivers see page 628.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of housing	colour temperature	CRI
12105073	white	3000 K ●	90

12107073
LED recessed downlight



NEW

Specification

Incl. light source: 1x LED, power: 6.2 W, beam angle: 24°, material: aluminium / clear plastic, suitable for ceiling thicknesses up to a maximum of 40 mm

Drivers see page 628.

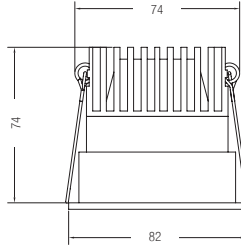
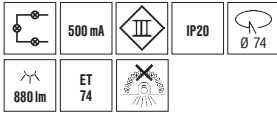
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of housing	colour temperature	CRI
12107073	white	3000 K ●	90

12108...

LED recessed downlight



NEW

Specification

Incl. light source: 1x LED, power: 11 W, beam angle: 32°,
material: aluminium / clear plastic

Suitable for ceiling thickness up to 30 mm.

Drivers see page 633.

Energy efficiency class: A++ to A

This luminaire contains incorporated and
non-exchangeable LED light sources.

Article-No.	Colour of housing	colour temperature	CRI
12108063	gold satin	3000 K	90
12108073	white	3000 K	90
12108253	alu satin	3000 K	90



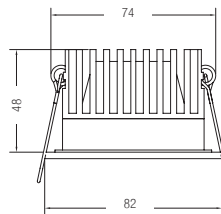
12108253



12108063

12106...

LED recessed downlight



NEW

Specification

Incl. light source: 1x LED, power: 10 W, beam angle: 32°,
material: aluminium / clear plastic

Drivers see page 633.

Energy efficiency class: A++ to A

This luminaire contains incorporated and
non-exchangeable LED light sources.

Article-No.	Colour of housing	colour temperature	CRI
12106063	gold satin	3000 K	90
12106073	white	3000 K	90
12106253	alu satin	3000 K	90

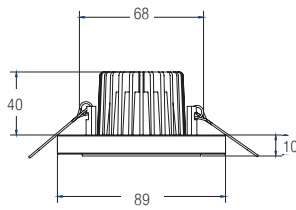


12106253



12106063

13335003 / 13333003
LED design downlight



NEW

Specification

Incl. light source: 1x LED, power: 6 W, beam angle: 38°, material: aluminium / smooth glass reflected on back wall / clear glass

Drivers see page 628.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

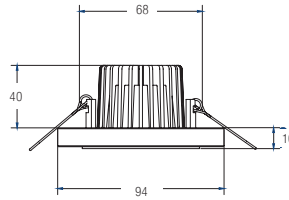
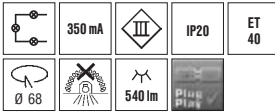
Article-No. Colour of housing colour temperature

13335003 smoked glass / alu 2700 K

13333003 clear glass / alu 2700 K

Modular construction: further light colors and power outputs are available on demand



13338003 / 13337003
LED design downlight

NEW

Specification

Incl. light source: 1x LED, power: 6 W, beam angle: 38°,
material: aluminium / prismatic glass reflected on back wall / clear glass

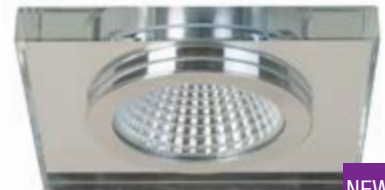
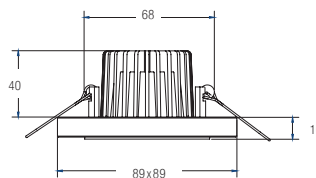
Drivers see page 628.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of housing	colour temperature
13338003	smoked glass / alu	2700 K
13337003	clear glass / alu	2700 K

Modular construction; further light colors and power outputs are available on demand

13336003 / 13334003
LED design downlight

NEW

Specification

Incl. light source: 1x LED, power: 6 W, beam angle: 38°,
material: aluminium / smooth glass reflected on back wall / clear glass

Drivers see page 628.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of housing	colour temperature
13336003	smoked glass / alu	2700 K
13334003	clear glass / alu	2700 K

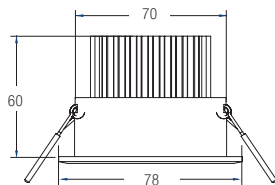
Modular construction; further light colors and power outputs are available on demand

12350253 / 12351253 / 12352253

LED built-in downlight



12352253



NEW

Specification

Incl. light source: 1x LED, power: 8 W, beam angle: 38°, material: aluminium / clear glass

Drivers see page 628.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources

Article-No.	Colour of housing	colour temperature
12350253	alu satin / black	2700 K
12351253	alu satin / blue	2700 K
12352253	alu satin / green	2700 K



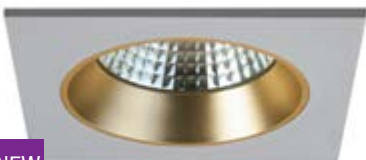
12350253



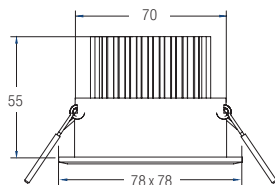
12351253

12349253 / 12349613

LED built-in downlight



12349613



NEW

Specification

Incl. light source: 1x LED, power: 8 W, beam angle: 38°, direct light emission, material: aluminium / clear glass

Drivers see page 628.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of housing	colour temperature
12349253	alu satin / black	2700 K
12349613	alu satin / gold	2700 K



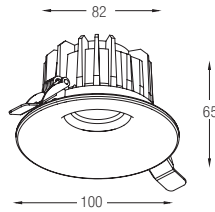
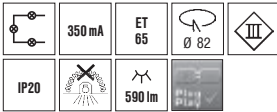
12349253

Hotel Munte, Bremen (Germany)



12411073

LED recessed downlight



NEW

Specification

Incl. light source: 1x LED, power: 6,2 W,
material: aluminium

Drivers see page 628.

Energy efficiency class: A++ to A

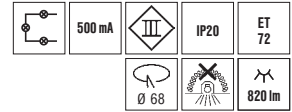
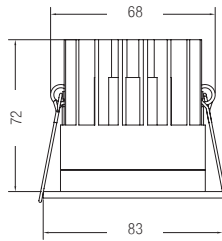
This luminaire contains incorporated and
non-exchangeable LED light sources.

Article-No.	Colour of housing	colour temperature	Beam angle
12411073	white	3000 K ●	40°

12035...
LED recessed downlight



12035173 textured white



NEW

Specification

Incl. light source: 1x LED, power: 9,2W, beam angle: 33°, material: aluminium / clear glass

Drivers see page 633.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of housing	colour temperature
12035173	textured white	3000 K ●
12035553	textured white / textured black	3000 K ●
12035753	textured white / textured gold	3000 K ●
12035853	textured black / textured gold	3000 K ●



12035553 textured white / textured black



12035753 textured white / textured gold



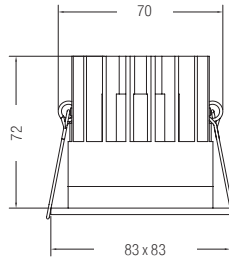
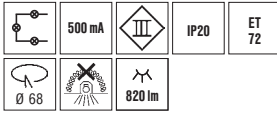
12035853 textured black / textured gold

The covers of this page can be interchanged on-site.



12036...

LED recessed downlight



12036173 textured white

NEW

Specification

Incl. light source: 1x LED, power: 9,2 W, beam angle: 33°, material: aluminium / clear glass

Drivers see page 633.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of housing	colour temperature
12036173	textured white	3000 K
12036553	textured white / textured black	3000 K
12036753	textured white / textured gold	3000 K
12036853	textured black / textured gold	3000 K



12036553 textured white / textured black



12036753 textured white / textured gold



12036853 textured black / textured gold

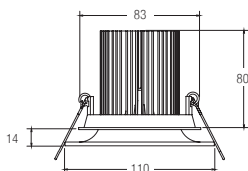
The covers of this page can be interchanged on-site.





12406073 / 33406073

Semi-recessed direct / indirect LED downlight



Base model LED 350mA

Incl. light source: LED, Power: 10,5 W, material: aluminium, additional indirect ambient light

Dimmable Drivers see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature	Beam angle
12406073	white	3000 K	45°



LED-Set, including driver

Incl. light source: LED, Power: 10,5 W, material: aluminium, incl. driver for 230V-connection, not dimmable, dimension driver: l 115 x w 34 x h 19 mm additional indirect ambient light

Energy efficiency class: A++ to A

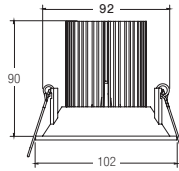
This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature	Beam angle
33406073	white	3000 K	45°



12407073

Ceiling-recessed LED downlight



Specification

Incl. Light source: LED, power: 13,6 W,
material: aluminium, with circular light slot

Drivers see page 634.

Energy efficiency class: A++ to A

This luminaire contains incorporated and
non-exchangeable LED light sources.

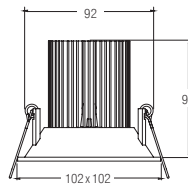
Equivalent surface mounted versions see page 322.

Article-no.	Colour of housing	Colour temperature	Beam angle
12407073	white	3000K	38°



12408073

Ceiling-recessed LED downlight



Specification

Incl. Light source: LED, power: 13,6 W,
material: aluminium, with circular light slot

Drivers see page 634.

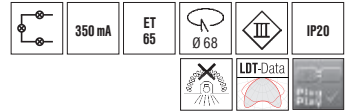
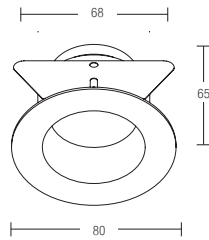
Energy efficiency class: A++ to A

This luminaire contains incorporated and
non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature	Beam angle
12408073	white	3000K	38°



R3008... Ceiling-recessed LED downlight



Specification

Incl. light source: LED, power: 3,3 W,
material: aluminium / plastic

Drivers see page 628.

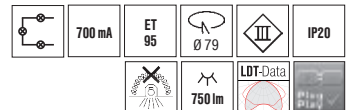
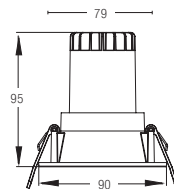
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature	Flux	Beam angle
R3008NW2	white	4100 K	290lm	25°
R3008NW4	white	4100 K	283lm	45°
R3008W2	white	6500 K	314lm	25°
R3008W4	white	6500 K	300lm	45°
R3008WW2	white	3000 K	176lm	25°
R3008WW4	white	3000 K	172lm	45°

Modular construction: further light colors and power outputs are available on demand

12403073 Ceiling-recessed LED downlight



Specification

Incl. light source: LED, power: 10 W,
material: aluminium / plastic

Drivers see page 634.

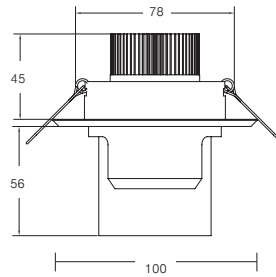
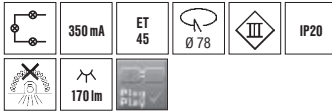
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature	Beam angle
12403073	white	3000 K	30°

12012253

Ceiling-recessed LED downlight



Design by Lounge Design

Specification

Incl. light source: LED, power: 3,3 W,
material: aluminium / acrylic glass

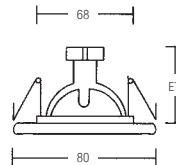
Drivers see page 628.

Energy efficiency class: A++ to A

This luminaire contains incorporated and
non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature	Beam angle
12012253	alu satin	3000 K	30°

Modular construction: further light colors and power outputs are
available on demand

2170... / 12184... 33184...
Ceiling-recessed downlight

Modular construction: further light colors and power outputs are
available on demand (12184... / 33184...)

Base model low-voltage

For Low-voltage lamp: 1x GX5,3 QRCBC51,
power: max. 50 W, material: aluminium / clear
glass

Drivers see page 645.

Energy efficiency class: A to C

Article-no.	Colour of housing
2170.02	chrome
2170.05	gold
2170.25	alu satin

Base model LED 350mA

Incl. light source: 1x LED, power: 6,6 W,
beam angle: 38° material: aluminium / clear glass

Dimmable Drivers see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and
non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
12184023	chrome	2700 K
12184053	gold	2700 K
12184253	alu satin	2700 K

LED-Set, including driver

Incl. light source: 1x LED, power: 6,6 W, beam angle: 38°,
material: aluminium / clear glass, incl. driver for
230V-connection, not dimmable, dimension
driver: l 68 x w 35 x h 21 mm

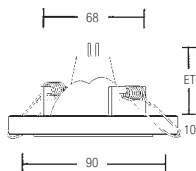
Energy efficiency class: A++ to A

This luminaire contains incorporated and
non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
33184023	chrome	2700 K
33184053	gold	2700 K
33184253	alu satin	2700 K



0282.00 Low-voltage recessed downlight



Base model low-voltage

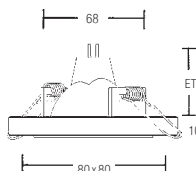
For Low-voltage lamp: 1x GX5,3 QRC51, power: max. 50 W, material: cast / glass

Drivers see page 645.

Energy efficiency class: A to C

Article-no.	Colour of housing
0282.00	chrome / clear glass

0283.00 Low-voltage recessed downlight



Base model LV

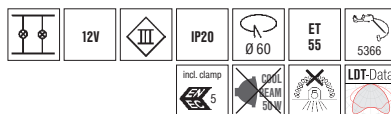
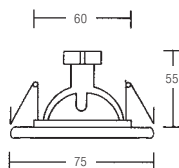
For Low-voltage lamp: 1x GX5,3 QRC51, power: max. 50 W, material: cast / glass

Drivers see page 645.

Energy efficiency class: A to C

Article-no.	Colour of housing
0283.00	chrome / clear glass

2082... Low-voltage recessed downlight



Specification

For Low-voltage lamp: 1x GX5,3 QRC51, power: max. 50W, material: brass

Drivers see page 645.

Energy efficiency class: A to C

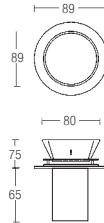
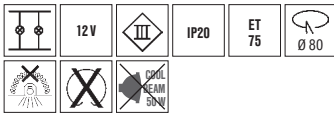
Article-no.	Colour of housing
2082.00	brass
2082.02	chrome
2082.03	chrome satin
2082.07	white



Mosecker Badideen, Rheda-Wiedenbrück (Germany)

2553.25

Low-voltage recessed downlight



NEW

Specification

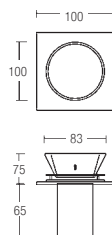
For low-voltage lamp: 1x GX5,3 QRC51, power: max. 50W,
material: aluminium / glass satinéd

Drivers see page 645.

Energy efficiency class: A to C

Article-no. Colour of housing

2332.15 alu satin / frosted glass



2555.25

Low-voltage recessed downlight



NEW

Specification

For low-voltage lamp: 1x GX5,3 QRC51, power: max. 50W,
material: aluminium / glass satinéd

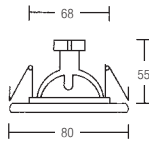
Drivers see page 645.

Energy efficiency class: A to C

Article-no. Colour of housing

2333.15 alu satin / frosted glass

1924... Low-voltage recessed downlight



Specification

For low-voltage lamp: 1x GX5,3 QRC51, power: max. 35 W, material: steel

Drivers see page 645.

Energy efficiency class: A to C

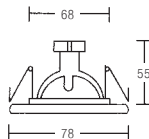
Article-no. Colour of housing

1924.02 chrome

1924.07 white

1924.15 nickel satin

2117.. Low-voltage recessed downlight



Specification

For low-voltage lamp: 1x GX5,3 QRC51, power: max. 50 W, material: aluminium cast

Drivers see page 645.

Energy efficiency class: A to C

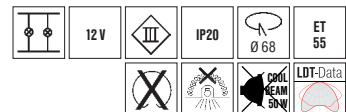
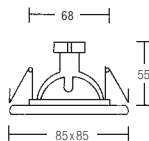
Article-no. Colour of housing

2117.02 chrome

2117.03 chrome satin

2117.07 white

2535.25 Low-voltage recessed downlight



Specification

For low-voltage lamp: 1x GX5,3 QRC51, power: max. 50 W, material: aluminium

Drivers see page 645.

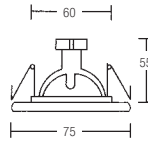
Energy efficiency class: A to C

Article-no. Colour of housing

2535.25 alu satin

2033...

Low-voltage recessed downlight



Specification

For low-voltage lamp: 1x GX5,3 QRC51, power: max. 50 W
material: cast

Drivers see page 645.

Energy efficiency class: A to C

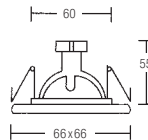
Article-no. Colour of housing

2033.02 chrome

2033.03 chrome satin

2033.05 gold

2033.07 white

2203...
Low-voltage recessed downlight

Specification

For low-voltage lamp: 1x GX5,3 QRC51 power: max. 50 W,
material: cast

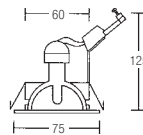
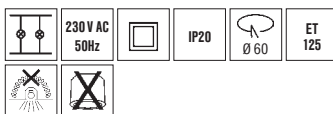
Drivers see page 645.

Energy efficiency class: A to C

Article-no. Colour of housing

2203.02 chrome

2203.03 chrome satin

2350...
High-voltage recessed downlight

Specification

For high-voltage lamp: 1x GZ10 QPAR-CB51, power: max. 20 W,
edge vaulted, material: cast, incl. high voltage bracket

Energy efficiency class: A++ to E

Article-no. Colour of housing

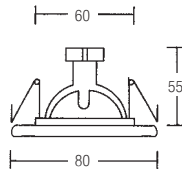
2350.02 chrome

2350.03 chrome satin

2350.05 gold

2350.07 white

2017... Low-voltage recessed downlight



Specification

For low-voltage lamp: 1x GX5,3 QRC51, power: max. 50 W, material: steel

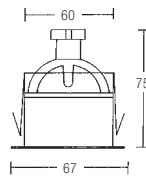
Drivers see page 645.

Energy efficiency class: A to C

Article-no. Colour of housing

2017.02	chrome
2017.03	chrome satin
2017.04	bronze
2017.07	white

1052.07 Low-voltage recessed downlight



limitation of glare by
inside-mounted bulb

Specification

For Low-voltage lamp: 1x GX5,3 QRC51, power: max. 50 W, material: brass

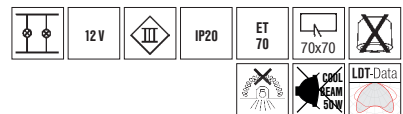
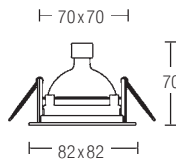
Drivers see page 645.

Energy efficiency class: A+ to C

Article-no. Colour of housing

1052.07	white
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2094.25 Low-voltage recessed downlight



Specification

For low-voltage lamp: 1x GX5,3 QRC51, power: max. 50 W, material: aluminium cast

Drivers see page 645.

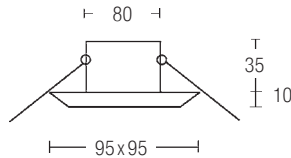
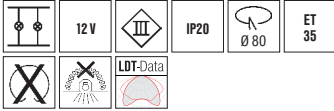
Energy efficiency class: A to C

Article-no. Colour of housing

2094.25	aluminium satin / black
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2147.15

Low-voltage recessed downlight



Specification

For low-voltage lamp: 1x GY6,35 QT12, power: max. 35 W, material: cast / glass satiné

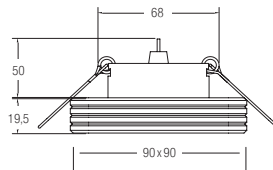
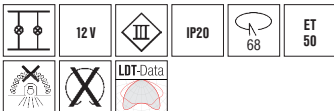
Drivers see page 645.

Energy efficiency class: A to E

Article-no.	Colour of housing
2147.15	nickel satin

20028020

Low-voltage recessed downlight



Specification

For low-voltage lamp: 1x GX5,3 QRCBC51, power: max. 50 W, material aluminium

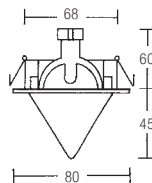
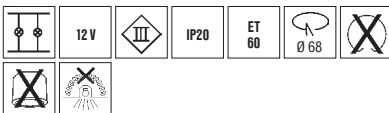
Drivers see page 645.

Energy efficiency class: A to C

Article-no.	Colour of housing
20028020	chrome

3041.02

Low-voltage recessed downlight



Specification

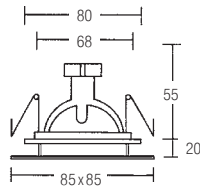
For low-voltage lamp: 1x GX5,3 QRCBC51, power: max. 20 W, material: cast / clear glass

Drivers see page 645.

Energy efficiency class: A to C

Article-no.	Colour of housing
3041.02	chrome

1960...
Low-voltage recessed downlight



Specification

For low-voltage lamp: 1x GX5,3 QRC51, power: max. 50 W
material: aluminium cast / partially satined glass

Drivers see page 645.

Energy efficiency class: A to C

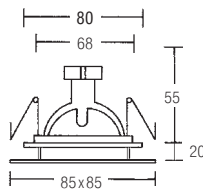
Article-no. Colour of housing

1960.02 chrome

1960.15 nickel satin

5740.00 replacement glass

1961...
Low-voltage recessed downlight



Specification

For low-voltage lamp: 1x GX5,3 QRC51, power: max. 50 W,
material: aluminium cast / partially satined glass

Drivers see page 645.

Energy efficiency class: A to C

Article-no. Colour of housing

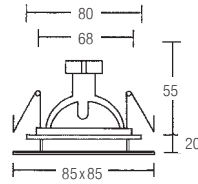
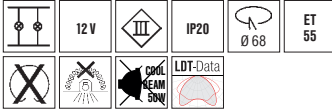
1961.02 chrome

1961.15 nickel satin

5741.00 replacement glass

1965...

Low-voltage recessed downlight



Specification

For low-voltage lamp: 1x GX5.3 QRC51, power: max. 50 W
material: aluminium cast / partially satined glass

Drivers see page 645.

Energy efficiency class: A to C

Article-no. Colour of housing

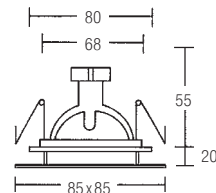
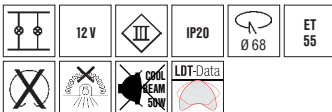
1965.02 chrome

1965.15 nickel satin

5745.00 replacement glass

1966...

Low-voltage recessed downlight



Specification

For low-voltage lamp: 1x GX5.3 QRC51, power: max. 50 W,
material: aluminium cast / partially satined glass

Drivers see page 645.

Energy efficiency class: A to C

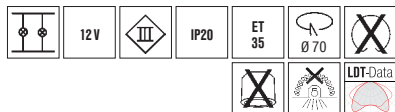
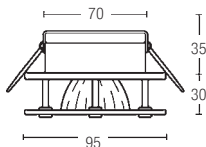
Article-no. Colour of housing

1966.02 chrome

1966.15 nickel satin

5746.00 replacement glass

1930... Low-voltage recessed downlight



Specification

For low-voltage lamp: 1x GX5,3 QRCBC51, power: max. 50W
material: iron / clear glass

Drivers see page 645.

Energy efficiency class: A to C

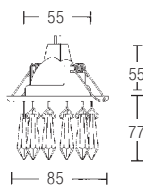
Article-no. Colour of housing

1930.02 chrome

1930.05 gold

1930.15 nickel satin

0284.00 Low-voltage recessed downlight



Specification

For low-voltage lamp: 1x GX5,3 QRC51, power: max. 35W,
material: iron / crystal glass

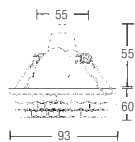
Drivers see page 645.

Energy efficiency class: A to C

Article-no. Colour of housing

0284.00 gold

0286.00 Low-voltage recessed downlight



Specification

For low-voltage lamp: 1x GX5,3 QRCBC51, power: max. 35W
material: iron / crystal glass

Drivers see page 645.

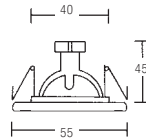
Energy efficiency class: A to C

Article-no. Colour of housing

0286.00 gold

0287.00

Low-voltage recessed downlight



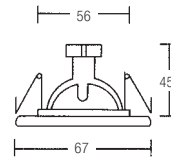
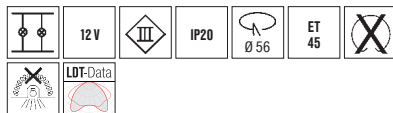
Specification

For low-voltage lamp: 1x GZ4 QRCBC35, power: max. 20 W, material: brass

Drivers see page 645.

Energy efficiency class: A+ to C

Article-no.	Colour of housing
0287.02	chrome
0287.03	chrome satin
0287.07	white

1926...
Low-voltage recessed downlight

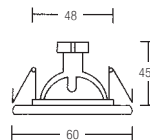
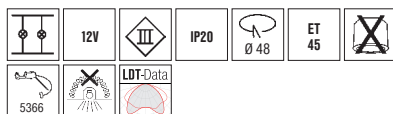
Specification

For low-voltage lamp: 1x GZ4 QRCBC35, power: max. 20 W, material: iron / crystal glass

Drivers see page 645.

Energy efficiency class: A+ to C

Article-no.	Colour of housing
1926.02	chrome
1926.07	white

2103...
Low-voltage recessed downlight

Specification

For Low-voltage lamp: 1x GZ4 QRCBC35, power: max. 20W, material: cast

Drivers see page 645.

Energy efficiency class: A+ to C

Article-no.	Colour of housing
2103.02	chrome
2103.03	chrome satin
2103.05	gold
2103.07	white



recessed

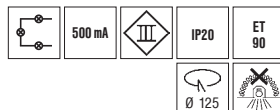
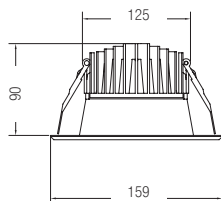
ceiling downlights



ENT-department, Solingen (Germany)



40515..
Recessed LED downlight



NEW

Specification

Incl. light source: 1x LED, power: 14 W, material: aluminium / plastic, beam angle: 60°, UGR<19, reflector silver satin

Driver see page 633.

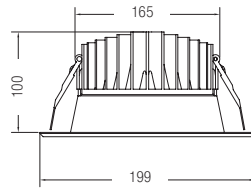
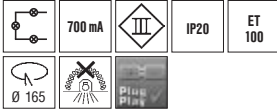
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of housing	Colour temperature	light flux	CRI
40515073	white	3000 K	1050 lm	>83
40515074	white	4000 K	1150 lm	>83

40516...

Recessed LED downlight



NEW

Specification

Incl. light source: 1x LED, power: 24 W, material: aluminium / plastic, beam angle: 60°, UGR<19, reflector silver satin

Driver see page 634.

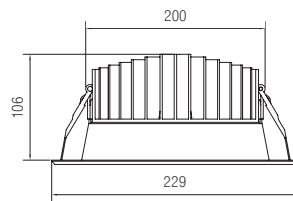
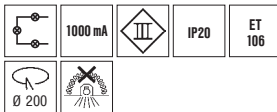
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of housing	Colour temperature	light flux	CRI
40516073	white	3000 K	2150 lm	>83
40516074	white	4000 K	2350 lm	>83

40517...

Recessed LED downlight



NEW

Specification

Incl. light source: 1x LED, power: 36 W, material: aluminium / plastic, beam angle: 70°, UGR<19, reflector with silver finish

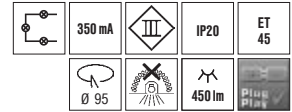
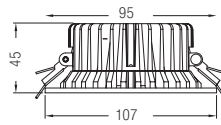
Driver see page 639.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of housing	Colour temperature	light flux	CRI
40517073	white	3000 K	3250 lm	>83
40517074	white	4000 K	3510 lm	>83

40523073 Recessed LED downlight



NEW

Specification

Incl. light source: 1x LED, power: 6 W, beam angle: 90°, material: aluminium / plastic satin, plastic mounting ring, maximum installation thickness: 15 mm

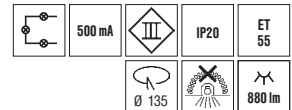
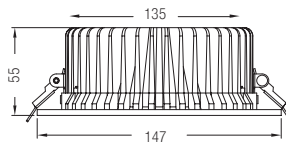
Driver see page 628.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of housing	Colour temperature
40523073	white	3000 K ●

40524073 Recessed LED downlight



NEW

Specification

Incl. light source: 1x LED, power: 12 W, beam angle: 90°, material: aluminium / plastic satin, maximum installation thickness: 15 mm

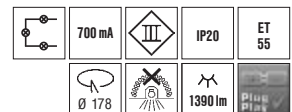
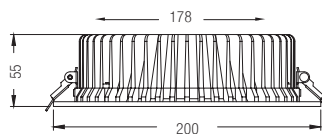
Driver see page 633.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of housing	Colour temperature
40524073	white	3000 K ●

40526073 Recessed LED downlight



NEW

Specification

Incl. light source: 1x LED, power: 17 W, beam angle: 100°, material: aluminium / plastic satin, maximum installation thickness: 15 mm

Driver see page 634.

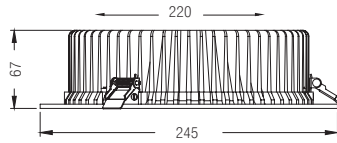
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of housing	Colour temperature
40526073	white	3000 K ●

40527073

Recessed LED downlight



NEW

Specification

Incl. light source: 1x LED, power: 22 W, beam angle: 100°, material: aluminium / plastic satin, maximum installation thickness: 15 mm

Driver see page 634.

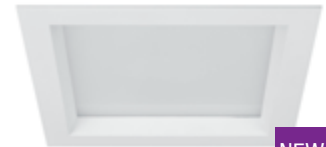
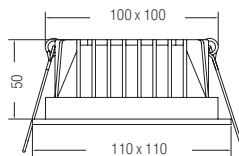
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of housing	Colour temperature
40527073	white	3000 K ●

40535073

Recessed LED downlight



NEW

Specification

Incl. light source: LED, power: 13 W, material: aluminium / plastic satin, beam angle: 100°

Driver see page 628.

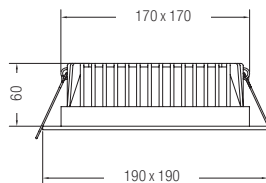
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of housing	Colour temperature
40535073	white	3000 K ●

40536073

Recessed LED downlight



NEW

Specification

Incl. light source: LED, power: 25 W, material: aluminium / plastic satin, beam angle: 100°

Driver see page 634.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of housing	Colour temperature
40536073	white	3000 K ●

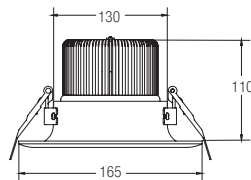


Elektro Kraus, Vaterstetten (Germany)

12414073
LED recessed pivotable downlight



NEW



	500 mA	IP20		
	ET 110			

Specification

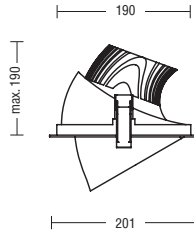
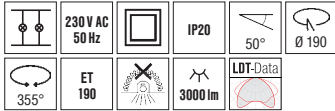
Incl. light source: 1x LED, beam angle: 38°, material: aluminium / clear glass

Driver see page 633.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of housing	Power	Colour temperature
12414073	white	18W	3000 K

88492... / 88493...
Recessed LED spot

Specification

Incl. light source: LED, material: aluminium / clear glass, LED power: 29W, system power: 32W, flux: 3270lm, heat dissipation: passive (without fan), incl. separate operating device (driver dimensions: 147 x 45 x 32 mm).
Not applicable for through-wiring.

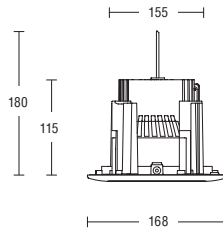
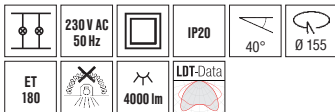
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature	Beam patterns
88492073	white	3000 K	24° (MF)
88492083	black	3000 K	24° (MF)
88492683	silver	3000 K	24° (MF)
88493073	white	3000 K	40° (FL)
88493083	black	3000 K	40° (FL)
88493683	silver	3000 K	40° (FL)



On request also available in colour temperatures 2700K, 3500K and 4000 K.

88415...
Recessed LED spot

Specification

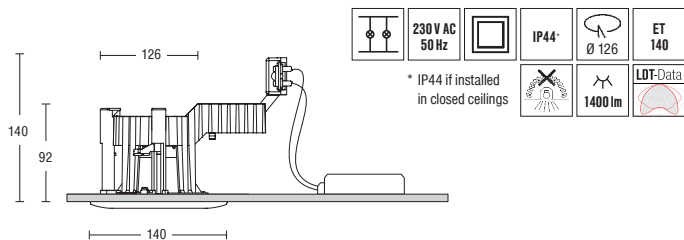
Incl. light source: LED, material: aluminium / plastic clear, incl. separate operating device (driver dimensions: 160 x 80 x 35 mm).
Not applicable for through-wiring.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Power	Colour temperature	Beam patterns
88415073	white satin	36W	3000 K	36° (FL)
88415683	silver	36W	3000 K	36° (FL)

88405... Recessed LED downlight



Specification

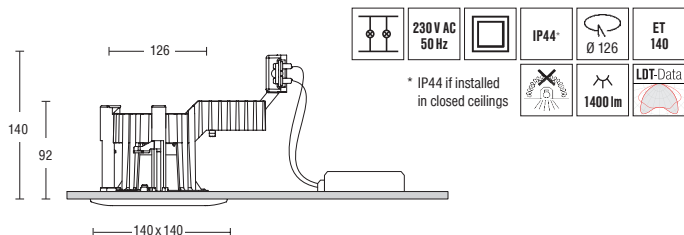
Incl. light source: LED, material: aluminium / clear glass, incl. separate operating device (driver dimensions: 100 x 50 x 30 mm).
Not applicable for through-wiring.

Article-no.	Colour of housing	Power	Colour temperature	Beam patterns
88405073	white	12 W	3000 K	60° (WFL)
88405683	silver	12 W	3000 K	60° (WFL)

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

88406... Recessed LED downlight



Specification

Incl. light source: LED, material: aluminium / clear glass, incl. separate operating device (driver dimensions: 100 x 50 x 30 mm).
Not applicable for through-wiring.

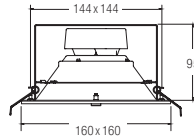
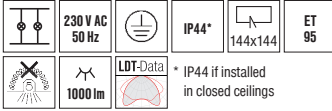
Article-no.	Colour of housing	Power	Colour temperature	Beam patterns
88406073	white	12 W	3000 K	60° (WFL)
88406683	silver	12 W	3000 K	60° (WFL)

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

40510223

Recessed LED downlight



Specification

Incl. light source: LED, material: stainless steel / glass, cover: partially frosted, incl. operating device. Adapted for through-wiring.

Article-no.	Colour of housing	Power	Colour temperature	Beam patterns
40510223	stainless steel	12 W	3000 K	60° (WFL)

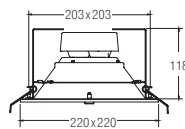
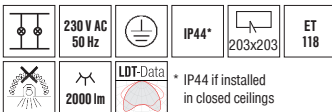
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.



40511223

Recessed LED downlight



Specification

Incl. light source: LED, material: stainless steel / glass, cover: partially frosted, incl. operating device. Adapted for through-wiring.

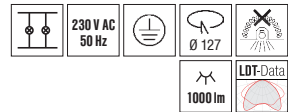
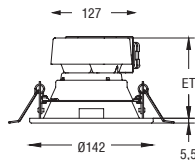
Article-no.	Colour of housing	Power	Colour temperature	Beam Patterns
40511223	stainless steel	26 W	3000 K	60° (WFL)

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.



88431... / 88433...
Recessed LED downlight



Specification

Incl. light source: LED, material: steel / aluminium, incl. operating device.
Not applicable for through-wiring.

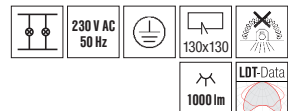
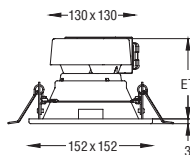
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Installation depth	Protection	Power	Colour temperature	Beam patterns
88431073	white	91 mm	IP20	15 W	3000 K	60° (WFL)
88431074	white	91 mm	IP20	15 W	4000 K	60° (WFL)
88433073	white	95 mm	IP44*	15 W	3000 K	60° (WFL)
88433074	white	95 mm	IP44*	15 W	4000 K	60° (WFL)

* IP44 if installed in closed ceilings (cover: clear glass)

88445... / 88446...
Recessed LED downlight



Specification

Incl. light source: LED, material: steel / aluminium, incl. operating device.
Not applicable for through-wiring.

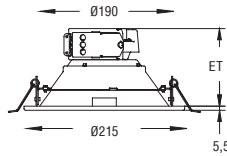
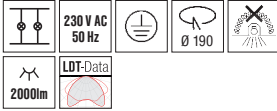
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Installation depth	Protection	Power	Colour temperature	Beam patterns
88445073	white	77 mm	IP20	15W	3000 K	60° (WFL)
88445074	white	77 mm	IP20	15W	4000 K	60° (WFL)
88446073	white	81 mm	IP44*	15W	3000 K	60° (WFL)
88446074	white	81 mm	IP44*	15W	4000 K	60° (WFL)

* IP44 if installed in closed ceilings (cover: clear glass)

88432... / 88434...
Recessed LED downlight



Specification

Incl. light source: LED, material: steel / aluminium, incl. operating device. Adapted for through-wiring.

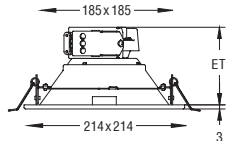
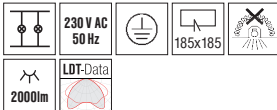
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Installation depth	Protection	Power	Colour temperature	Beam patterns
88432073	white	104 mm	IP20	26 W	3000 K	60° (WFL)
88432074	white	104 mm	IP20	26 W	4000 K	60° (WFL)
88434073	white	108 mm	IP44*	26 W	3000 K	60° (WFL)
88434074	white	108 mm	IP44*	26 W	4000 K	60° (WFL)

* IP44 if installed in closed ceilings (cover: clear glass)

88447... / 88448...
Recessed LED downlight



Specification

Incl. light source: LED, material: steel / aluminium, incl. operating device. Adapted for through-wiring.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

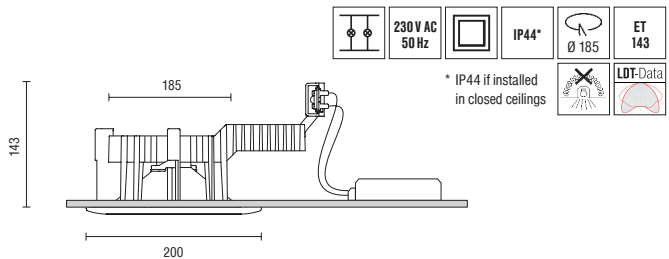
Article-no.	Colour of housing	Installation depth	Protection	Power	Colour temperature	Beam patterns
88447073	white	84 mm	IP20	26 W	3000 K	60° (WFL)
88447074	white	84 mm	IP20	26 W	4000 K	60° (WFL)
88448073	white	89 mm	IP44	26 W	3000 K	60° (WFL)
88448074	white	89 mm	IP44	26 W	4000 K	60° (WFL)

* IP44 if installed in closed ceilings (cover: clear glass)

Electrician exhibition Bollmann, Ellerau (Germany)



88401... / 88402...
Recessed LED downlight



Specification

Incl. light source: LED, material: aluminium, incl. separate operating device (driver dimensions: 160 x 80 x 35 mm).
Not applicable for through-wiring.

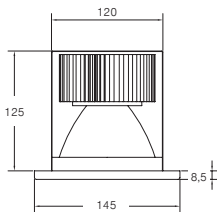
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Power	Colour temperature	Flux	Beam angle
88401073	white	39 W	3000 K	3500 lm	WFL
88401683	silver	39 W	3000 K	3500 lm	WFL
88402073	white	51 W	3000 K	5000 lm	WFL
88402683	silver	51 W	3000 K	5000 lm	WFL

40601074 / 40602074 / 40603074
TunableWhite LED-Downlight

40602074



40601074



40603074

Specification

Incl. light source: LED, material: aluminium / steel, beam angle: 45°, colour rendering: CRI>90

Create an ambient room lightening by adjustable colour temperature from cool white to warm white. I.e. cool white at day and warm and comfortable light in the evening.

Control via two 1-10V-interface:

1. for luminaire dimming
2. to control light colour (3000 K–5700 K)

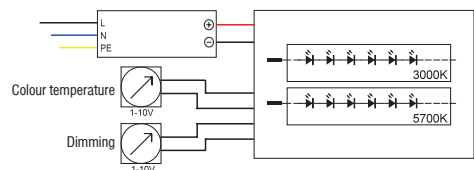
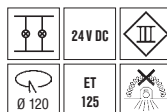
driver see page 640.
control see page 517.

Energieeffizienzklasse: A++ bis A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Cover	Protection	Power	Colour temperature	Flux
40601074	none	IP20	21 W	2700 K–5700 K	1250 lm
40602074	satined glass ring	IP20	21 W	2700 K–5700 K	1250 lm
40603074	satined glass cover	IP44*	21 W	2700 K–5700 K	1250 lm

* IP44 if installed in closed ceilings





recessed

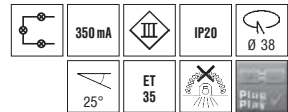
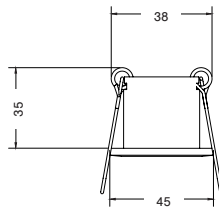
ceiling light spots



12169...
Recessed LED light spot pivotable



NEW



Specification

Incl. light source: 1x LED, power 1 W, material: aluminium / plastic,
Maximum installation thickness: 20 mm (clearance hole)

Driver see page 628.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No. Colour of housing Colour temperature

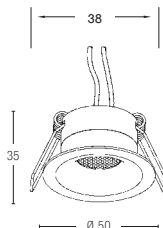
12169023	chrome	3000 K	●
12169073	white	3000 K	●
12169153	nickel satin	3000 K	●

12079...
Recessed LED light spot

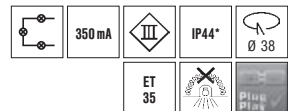


NEW

New colour



*IP44 if installed in closed ceilings



Hint:
A natural oxidation of copper is possible.

Specification

Incl. light source: 1x LED, power 4 W

Driver see page 628.

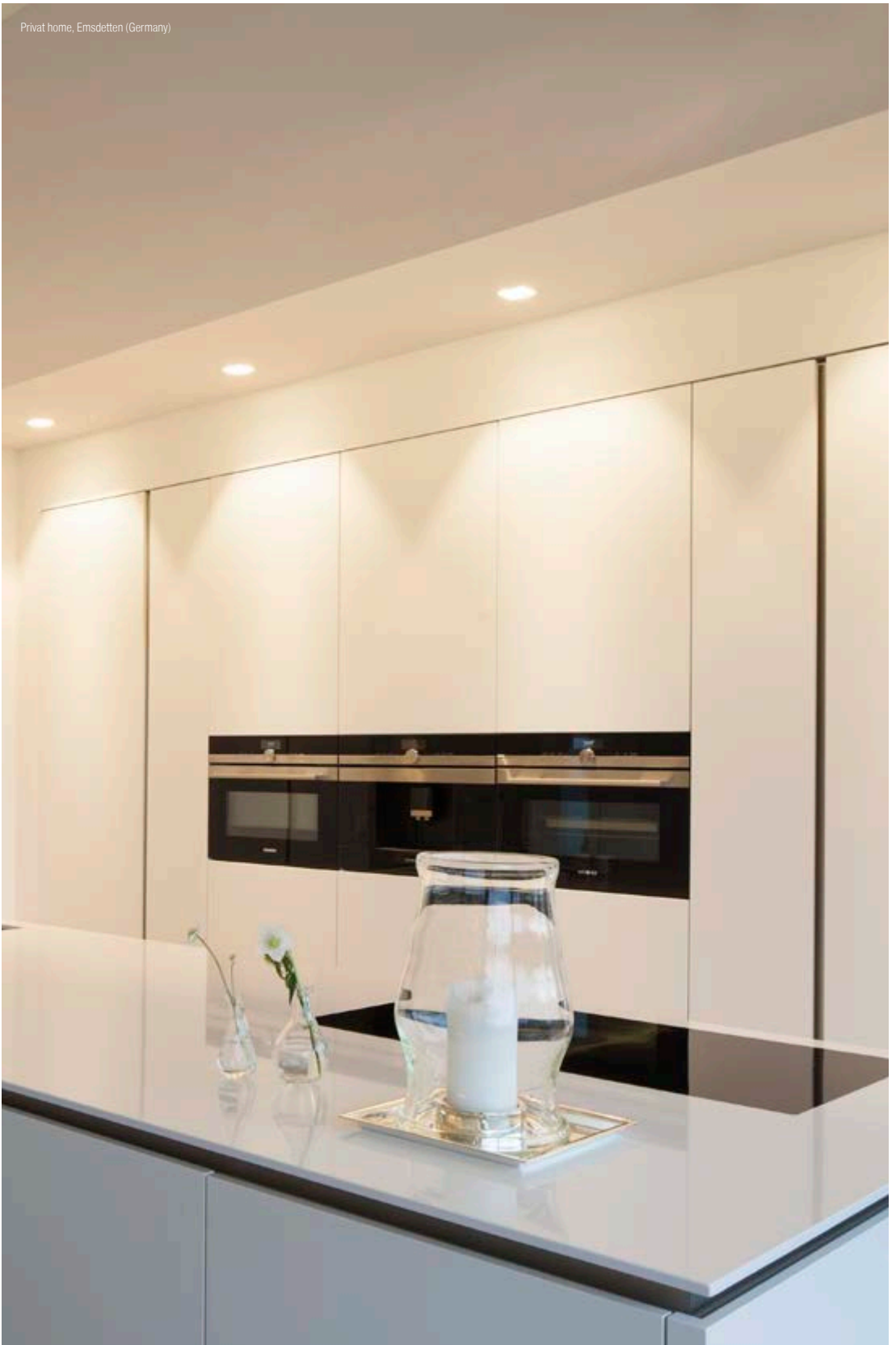
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

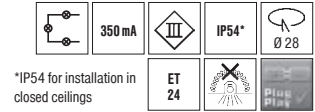
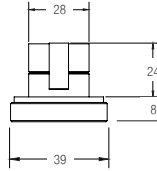
Article-No. Material Colour of housing Colour temperature

12079023	aluminium / stainless steel	chrome	3000 K	●
12079073	aluminium / stainless steel	white	3000 K	●
12079193	aluminium / copper	copper	3000 K	●

Privat home, Emsdetten (Germany)



12031023 LED light point



*IP54 for installation in closed ceilings

Design by BCM Lighting

Specification

Incl. light source: LED, power: 1 W, beam angle: 15°, material: aluminium / clear glass, height: 8 mm

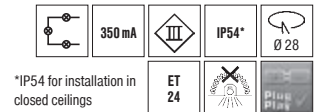
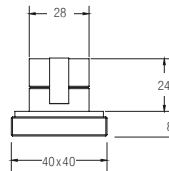
Drivers see page 628.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
12031023	chrome	3100 K ●

12032023 LED light point



*IP54 for installation in closed ceilings

Design by BCM Lighting

Specification

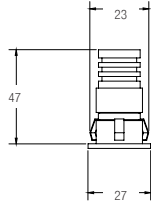
Incl. light source: LED, power: 1 W, beam angle: 15°, material: aluminium / clear glass, height: 8 mm

Drivers see page 628.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
12032023	chrome	3100 K ●

12051173
LED light point

Specification

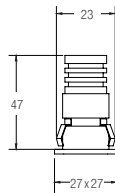
Incl. light source: LED, power: 1 W, beam angle: 45°,
material: aluminium / clear glass

Drivers see page 628.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
12051173	textured white	3100 K

12052173
LED light point

Specification

Incl. light source: LED, power: 1 W, beam angle: 45°,
material: aluminium / clear glass

Drivers see page 628.

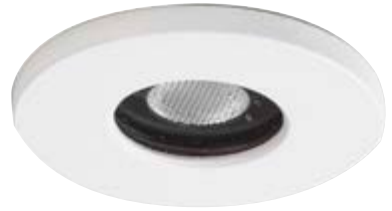
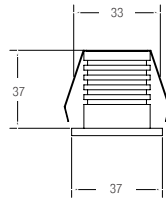
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
12052173	textured white	3100 K

Private home, Berching (Germany)



12053173
LED light point

Specification

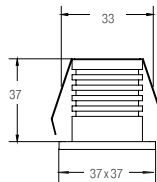
Incl. light source: LED, power: 3 W, beam angle: 45°,
material: aluminium / glass textured

Drivers see page 634.

Energy efficiency class: A++ to A

This luminaire contains incorporated and
non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
12053173	textured white	3100 K

12054173
LED light point

Specification

Incl. light source: LED, power: 3 W, beam angle: 45°,
material: aluminium / glass textured

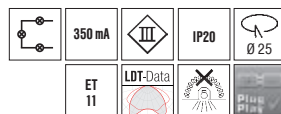
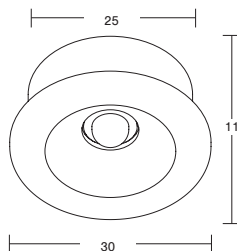
Drivers see page 634.

Energy efficiency class: A++ to A

This luminaire contains incorporated and
non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
12054173	textured white	3100 K

P3605... LED light point



Specification

Incl. light source: LED, power: 1 W, beam angle: 120°, material: plastic / aluminium, colour: chrome, installation into suspended ceilings with low installation depth

INDOOR

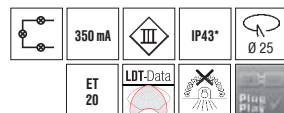
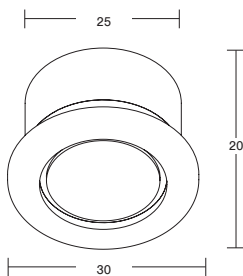
Drivers see page 628.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Light colour	Flux
P3605W	6500 K ○	60 lm
P3605WW	3100 K ●	40 lm
P3605B	●	
P3605R	●	
P3605Y	●	
P3605G	●	

P3653... LED light point



*IP43 for installation in closed ceilings only indoor

Specification

Incl. light source: LED, power: 1 W, 30° optical lense incl., material: plastic / aluminium, colour: chrome, installation into suspended ceilings with low installation depth

INDOOR

Drivers see page 628.

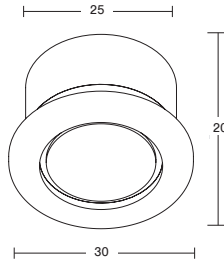
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Light colour	Flux
P3653 W	6500 K ○	60 lm
P3653 WW	3100 K ●	40 lm
P3653B	●	
P3653R	●	
P3653Y	●	
P3653G	●	

P3654...
LED light point

*IP43 for installation in closed ceilings, only indoor



Specification

Incl. light source: LED, power: 1 W, 10° optical lens incl., material: plastic / aluminium, colour: chrome, installation into suspended ceilings with low installation depth

INDOOR

Drivers see page 628.

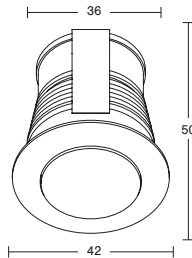
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Light colour	Flux
P3654W	6500 K ○	60 lm
P3654WW	3100 K ○	40 lm
P3654B	●	
P3654R	●	
P3654Y	●	
P3654G	●	



*IP43 for installation in closed ceilings only indoor

P3659...
LED light point

Specification

Incl. light source: LED, power: 1 W, beam angle: 120°, material: stainless steel / glass satin, colour: stainless steel, installation into suspended ceilings by leaf spring fixation

INDOOR

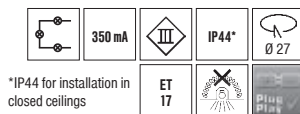
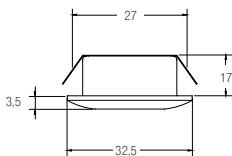
Drivers see page 628.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Light colour	Flux
P3659W	6500 K ○	60 lm
P3659WW	3100 K ○	40 lm
P3659B	●	
P3659R	●	
P3659Y	●	
P3659G	●	

12071... LED light point



*IP44 for installation in closed ceilings

Specification

Incl. light source: LED, power: 1 W, beam angle: 30°
material: aluminium / textured plastic

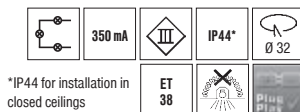
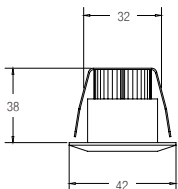
Drivers see page 628.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
12071023	chrome	3000 K
12071073	white	3000 K
12071253	aluminium satin	3000 K

12070253 LED light point



*IP44 for installation in closed ceilings

Specification

Incl. light source: LED, power: 1,2W, beam angle: 36°
material: aluminium / textured plastic

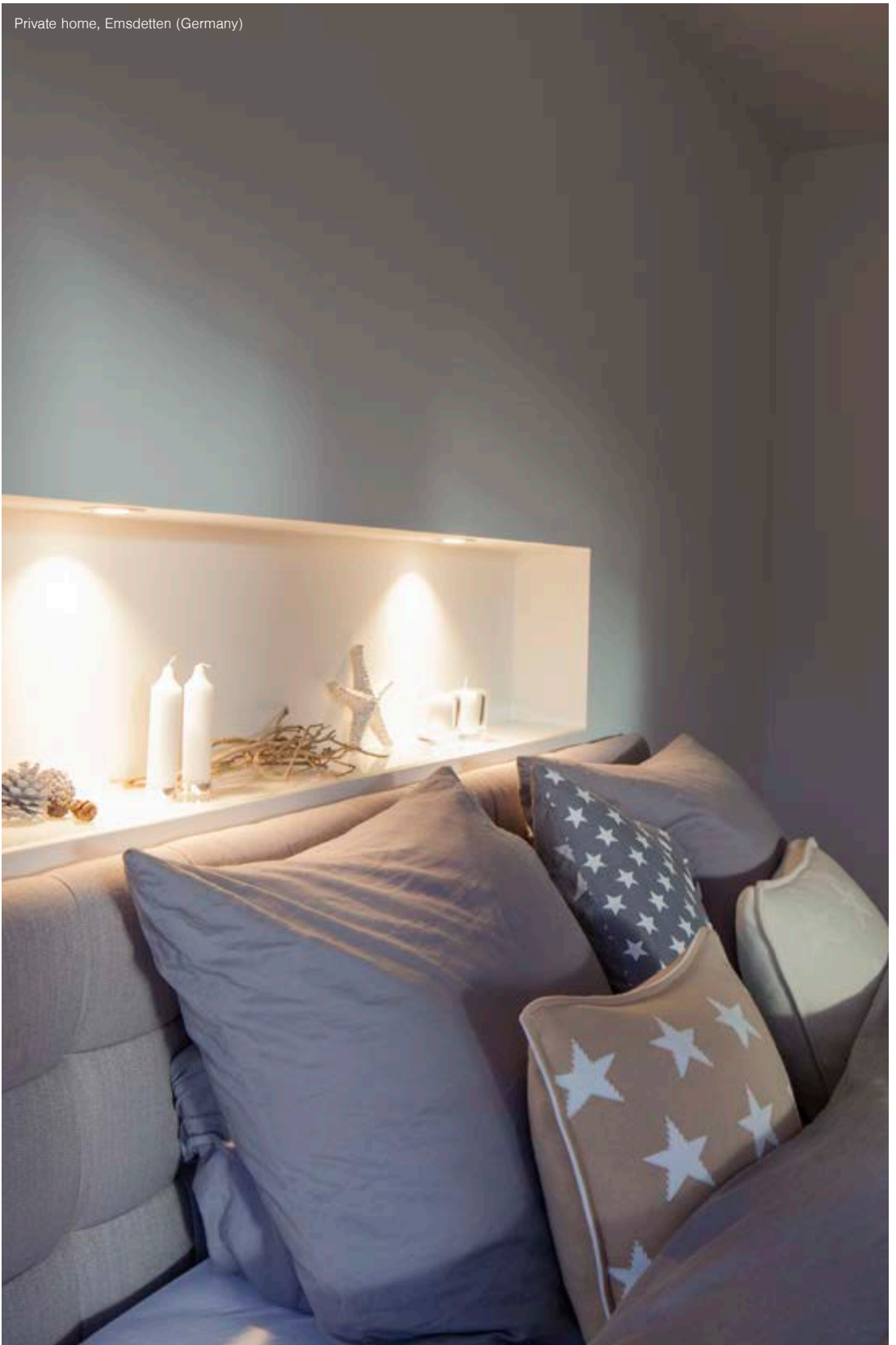
Drivers see page 628.

Energy efficiency class: A++ to A

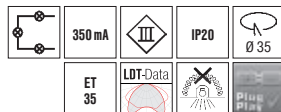
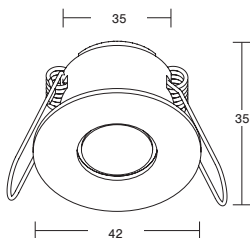
This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Colour temperature
12070253	aluminium satin	3000 K

Private home, Emsdetten (Germany)



P3650...
LED light point



Specification

Incl. light source: LED, power: 1 W, material: brass / plastic clear, colour: chrome satin, 10° optical lens incl., installation into suspended ceilings by spring fixation

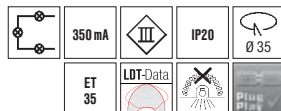
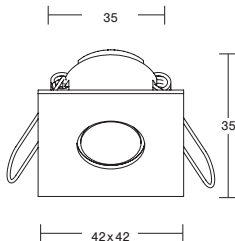
Drivers see page 628.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour temperature	Flux
P3650W	6500 K ○	60 lm
P3650WW	3100 K ●	40 lm
P3650B	●	
P3650R	●	
P3650Y	●	
P3650G	●	

P3651...
LED light point



Specification

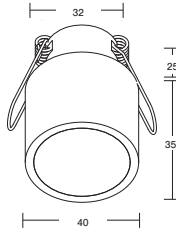
Incl. light source: LED, power: 1 W, material: brass / plastic clear, colour: chrome satin, 10° optical lens incl., installation into suspended ceilings by spring fixation

Drivers see page 628.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour temperature	Flux
P3651 W	6500 K ○	60 lm
P3651 WW	3100 K ●	40 lm
P3651B	●	
P3651R	●	
P3651Y	●	
P3651G	●	

P3669...
LED effect-light point

Specification

Incl. light source: LED, power 1 W, material: aluminium / acryl, installation into suspended ceilings by spring fixation.

Drivers see page 628.

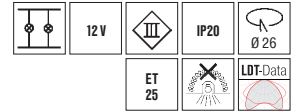
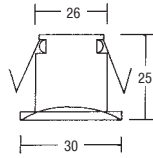
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour temperature	Flux
P3669W	6500K ○	60lm
P3669WW	3100K ●	40lm
P3669B	●	
P3669R	●	
P3669Y	●	
P3669G	●	



2030... low voltage light spot



Specification

For lamp: 1x G4 QT9, power: max. 20 W
material: cast

Drivers see page 645.

Energy efficiency class: A to C

Article-no. Colour of housing

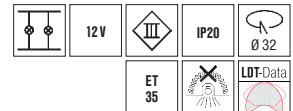
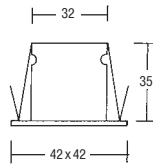
2030.02 chrome

2030.03 chrome satin

2030.05 gold

2030.07 white

0232... low voltage light spot



Specification

For lamp: 1x G4 QT9, power: max. 20 W
material: steel

Drivers see page 645.

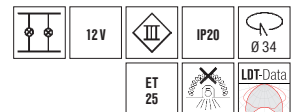
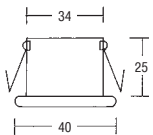
Energy efficiency class: A to C

Article-no. Colour of housing

0232.02 chrome

0232.03 chrome satin

2020... low voltage light spot



Specification

For lamp: 1x G4 QT9, power: max. 20 W
material: brass

Drivers see page 645.

Energy efficiency class: A to C

Article-no. Colour of housing

2020.00 brass

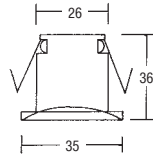
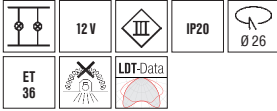
2020.02 chrome

2020.03 chrome satin

2020.07 white

2031...

low voltage light spot



Specification

For lamp: 1x G4 QT9, power: max. 10 W
material: cast

Drivers see page 645.

Energy efficiency class: A to C

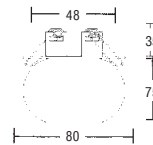
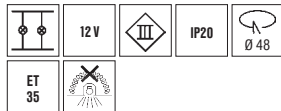
Article-no. Colour of housing

2031.02 chrome

2031.03 chrome satin

2031.05 gold

2031.07 white



0289.00
low voltage light spot



Specification

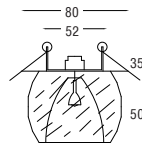
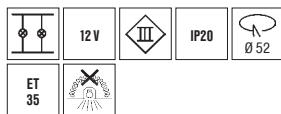
For lamp: 1x G4 QT9, power: max. 20 W, material: steel / crystal glass,
colour: chrome frame surface

Drivers see page 645.

Energy efficiency class: A to C

Article-no. Colour of housing

0289.00 chrome



0210.02
low voltage light spot



Specification

For lamp: 1x G4 QT9, power: max. 20 W,
material: steel / crystal glass, colour: chrome frame surface

Drivers see page 645.

Energy efficiency class: A to C

Article-no. Colour of housing

0210.02 chrome

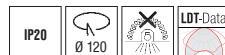
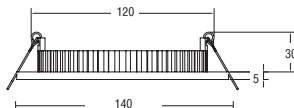


recessed

ceiling LED panels



12015073 / 12172073 LED recessed panel



Base model LED 24 V DC

Incl. light source: SMD-LED, power: 6 W, material: aluminium / plastic, beam angle: 120°

Dimmable drivers see page 640.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

LED set, including power supply

Incl. light source: SMD-LED and separate driver for 230 V-connection (l 68 x w 35 x h 21 mm), not dimmable, power: 6 W, material: aluminium / plastic, beam angle: 120°

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

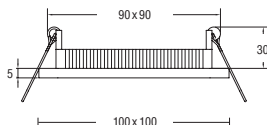
Article-No.	Colour of housing	Colour temperature
12015073	white	3000 K



Article-No.	Colour of housing	Colour temperature
12172073	white	3000 K



12016073 / 12173073 LED recessed panel



Base model LED 24 V DC

Incl. light source: SMD-LED, power: 5 W, material: aluminium / plastic, beam angle: 120°

Dimmable drivers see page 640.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

LED set, including power supply

Incl. light source: SMD-LED and separate driver for 230 V-connection (l 68 x w 35 x h 21 mm), not dimmable, power: 5W, material: aluminium / plastic, beam angle: 120°

Energy efficiency class: A++ to A

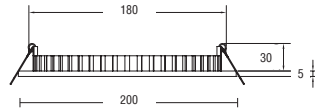
This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of housing	Colour temperature
12016073	white	3000 K



Article-No.	Colour of housing	Colour temperature
12173073	white	3000 K



12017073 / 12174073
LED recessed panel

Base model LED 24 V DC

Incl. light source: SMD-LED, power: 11 W,
material: aluminium / plastic, beam angle: 120°.

Energy efficiency class: A++ to A

This luminaire contains incorporated and
non-exchangeable LED light sources.

Article-No.	Colour of housing	Colour temperature
12017073	white	3000 K



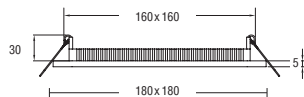
LED set, including power supply

Incl. light source: SMD-LED and separate driver for 230V-connection
(l 145 x w 55 x h 19 mm), power: 11 W, dimmable
material: aluminium / plastic, beam angle: 120°.

Energy efficiency class: A++ to A

This luminaire contains incorporated and
non-exchangeable LED light sources.

Article-No.	Colour of housing	Colour temperature
12174073	white	3000 K

12018073 / 12175073
LED recessed panel

Base model LED 24 V DC

Incl. light source: SMD-LED, power: 12 W,
material: aluminium / plastic, beam angle: 120°.

Energy efficiency class: A++ to A

This luminaire contains incorporated and
non-exchangeable LED light sources.

Article-No.	Colour of housing	Colour temperature
12018073	white	3000 K



LED set, including power supply

Incl. light source: SMD-LED and separate driver for 230V-connection
(l 145 x w 55 x h 19 mm), dimmable,
power: 12 W, material: aluminium / plastic, beam angle: 120°.

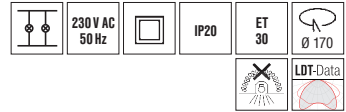
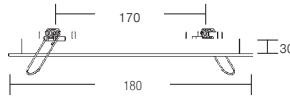
Energy efficiency class: A++ to A

This luminaire contains incorporated and
non-exchangeable LED light sources.

Article-No.	Colour of housing	Colour temperature
12173073	white	3000 K



3381... LED recessed panel



Specification

Incl. light source: 90x SMD-LED, power: 10 W,
material: aluminium cast / glass satin, colour: silver satin,
beam angle: 120°

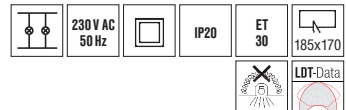
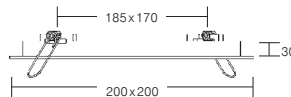
incl. driver for 230 V-connection (l 105 x w 31 x h 25 mm), not dimmable.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour temperature	Flux
3381WW	3100 K	650 lm
3381NW	4200 K	700 lm

3380... LED recessed panel



Specification

Incl. light source: 90x SMD-LED, power: 10 W, material: aluminium cast / glass satin, colour: silver satin, beam angle: 120°

incl. driver for 230V-connection (l 105 x w 31 x h 25 mm), not dimmable.

Energy efficiency class: A++ to A

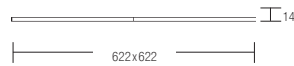
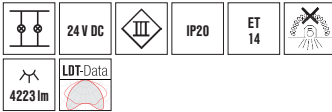
This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour temperature	Flux
3380WW	3100 K	650 lm
3380NW	4200 K	700 lm



Meeting room Brumberg Leuchten, Sundern (Germany)

12030... LED recessed Panel



Specification

Incl. light source: 372x SMD-LED,
Material: aluminium / plastic satin.

Suitable for grid ceiling 625 x 625 mm

Driver see page 641.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of housing	Power	Colour temperature	Beam angle
12030003	silver satin	48 W	3000 K	120°
12030005	silver satin	48 W	6500 K	120°

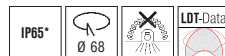
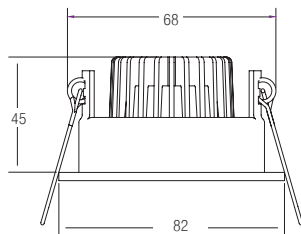


recessed

high degree of protection indoor



12353... / 33353...
LED recessed spots



* IP65 for installation in closed ceilings



NEW

Base model LED 350 mA

Incl. light source: 1 x LED, power: 6 W, beam angle: 38°, material: aluminium / caoutchouc / clear glass

Dimmable driver see page 629.

Energy efficiency class: A++ bis A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of cabinet	Colour temperature
12353073	white	3000 K
12353253	alu satin	3000 K



LED-set, including driver

Incl. light source: 1 x LED, power: 6 W, beam angle: 38°, material: aluminium / caoutchouc / clear glass, incl. driver for 230 V-connection, dimensions of driver: I 100 x w 38 x h 22 mm

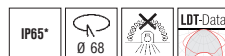
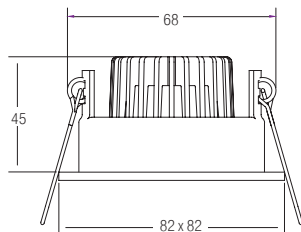
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of cabinet	Colour temperature
33353073	white	3000 K
33353253	alu satin	3000 K



12355... / 33355...
LED recessed spots



* IP65 for installation in closed ceilings



NEW

Base model LED 350 mA

Incl. light source: 1 x LED, power: 6 W, beam angle: 38°, material: aluminium / caoutchouc / clear glass

Dimmable driver see page 629.

Energy efficiency class: A++ bis A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of cabinet	Colour temperature
12355073	white	3000 K
12355253	alu satin	3000 K



LED-set, including driver

Incl. light source: 1 x LED, power: 6 W, beam angle: 38°, material: aluminium / caoutchouc / clear glass, incl. driver for 230 V-connection, dimensions of driver: I 100 x w 38 x h 22 mm

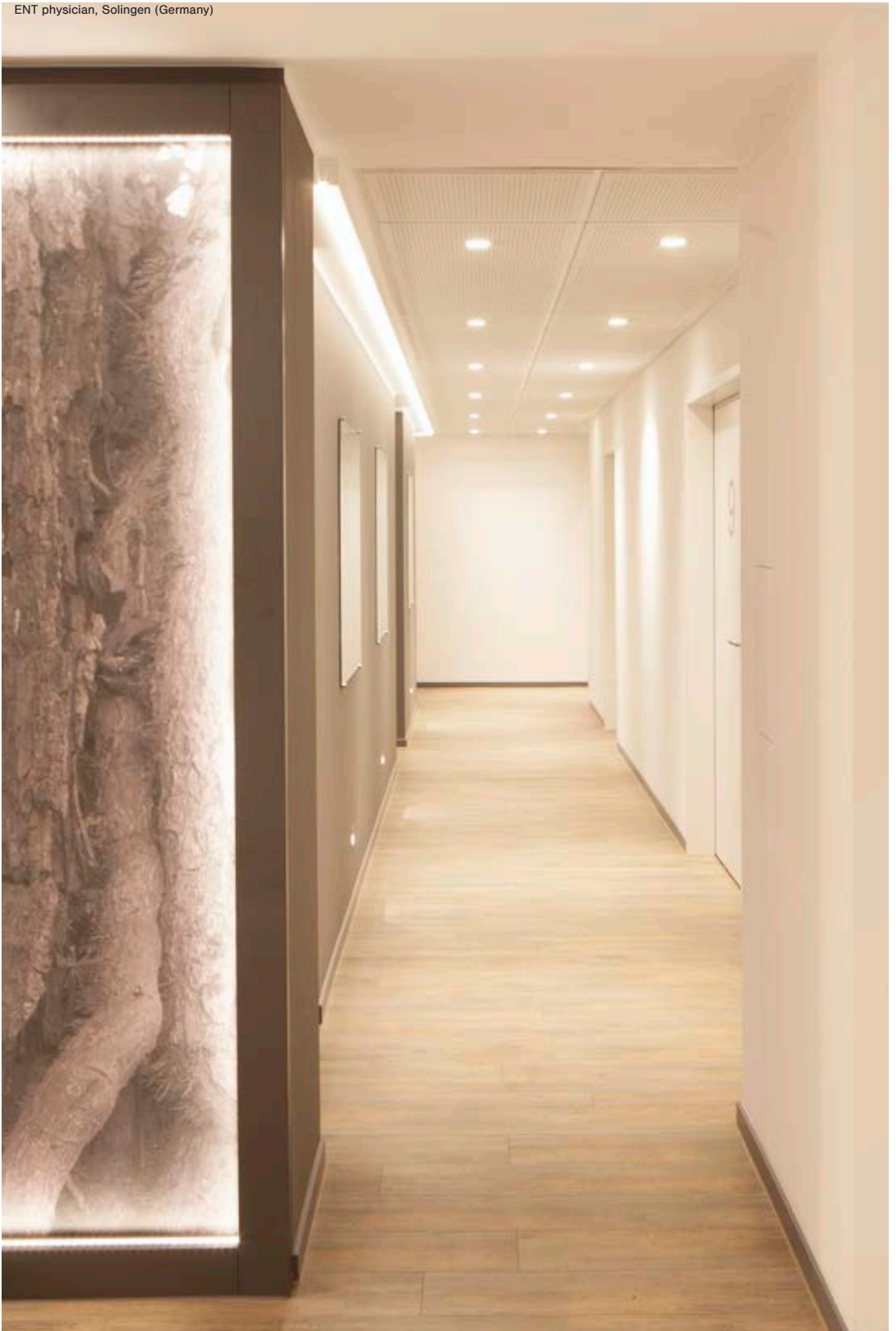
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

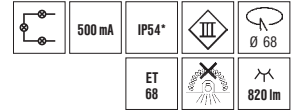
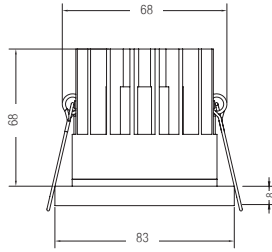
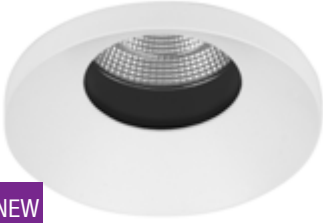
Article-No.	Colour of cabinet	Colour temperature
33355073	white	3000 K
33355253	alu satin	3000 K



ENT physician, Solingen (Germany)



12270...
LED recessed spots



* IP54 if installed in closed ceilings

NEW

Specification

Incl. light source: 1 x LED, power: 9.2 W, beam angle: 33°, material: aluminium / clear glass

Driver see page 633.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of cabinet	Colour temperature
12270173	textured white	3000 K
12270183	textured black	3000 K



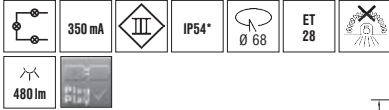
12270183

Country Lodge Schwögler, Bad Abbach (Germany)

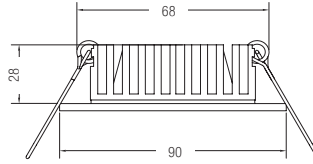


12273073

LED recessed spot



* IP54 if installed in closed ceilings



NEW

Specification

Incl. light source: 1 x LED, power: 6.3W, beam angle: 25°, material: aluminium / clear glass

Driver see page 628.

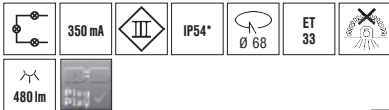
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

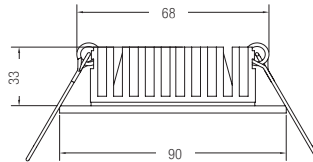
Article-No.	Colour of cabinet	Colour temperature
12273073	white	3000 K ●

12274553

LED recessed spot



* IP54 if installed in closed ceilings



NEW

Specification

Incl. light source: 1 x LED, power: 6.3W, beam angle: 25°, material: aluminium / clear glass

Driver see page 628.

Energy efficiency class: A++ to A

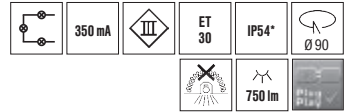
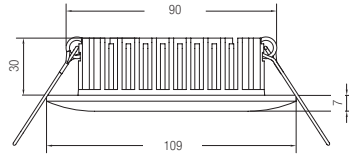
This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of cabinet	Colour temperature
12274553	white / black	3000 K ●

12366073
LED recessed spot



NEW



* IP54 if installed in closed ceilings

Specification

Incl. light source: 1 x LED, power: 10 W, material: aluminium / platic satin

Driver see page 628.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

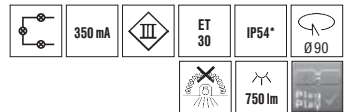
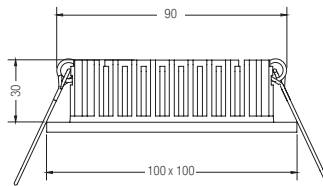
Article-No. Colour of cabinet Colour temperature

12366073 white 3000K ●

12367073
LED recessed spot



NEW



* IP54 if installed in closed ceilings

Specification

Incl. light source: 1 x LED, power: 10 W, material: aluminium / platic satin

Driver see page 628.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

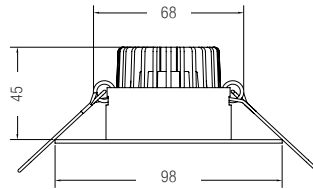
Article-No. Colour of cabinet Colour temperature

12367073 white 3000K ●

13006...
LED recessed spots



* IP44 if installed in closed ceilings



NEW

Specification

Incl. light source: 1 x LED, power: 6 W, beam angle: 25°, material: brass / aluminium / clear glass

Driver see page 628.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

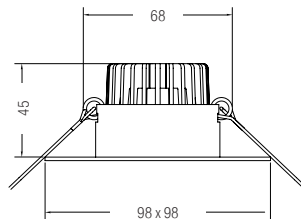
Article-No. Colour of cabinet Colour temperature

13006023	chrome	2700 K	●
13006033	chrome satin	2700 K	●

modular construction: further light colors and power outputs are available on demand



* IP44 if installed in closed ceilings



13007...
LED recessed spots



NEW

Specification

Incl. light source: LED, power: 6 W, beam angle: 25°, material: brass / aluminium / clear glass

Driver see page 628.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

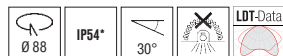
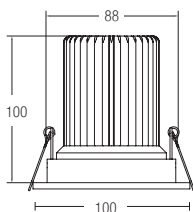
Article-No. Colour of cabinet Colour temperature

13007023	chrome	2700 K	●
13007033	chrome satin	2700 K	●

modular construction: further light colors and power outputs are available on demand

12026073 / 33026073

LED recessed spots



* IP54 if installed in closed ceilings

Base model LED 700mA

Incl. light source: 1 x LED, power: 15 W, beam angle: 25°, material: aluminium / steel / clear glass

Dimmable driver see page 635

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
12026073	white	3000 K



LED-Set, including driver

Incl. light source: 1 x LED, power: 15 W, beam angle: 25°, material: aluminium / steel / clear glass, incl. driver for 230V connection, not dimmable, dimension driver: length 141 x breadth 43 x height 30mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

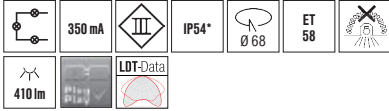
Article-no.	Colour of cabinet	Colour temperature
33026073	white	3000 K



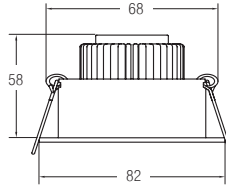
bath exhibition, Straubing (Germany)



12266...
LED recessed spots



* IP54 if installed in closed ceilings



Specification

Incl. light source: LED, power: 6,6 W, material: aluminium / clear glass

Driver see page 628.

Energy efficiency class: A++ to A

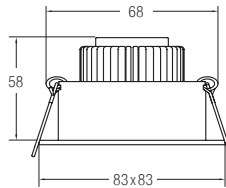
This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature	Beam angle
12266073	white	2700 K	38°
12266083	black	2700 K	38°

12267...
LED recessed spots



* IP54 if installed in closed ceilings



Specification

Incl. light source: LED, power: 6,6 W, material: aluminium / clear glass

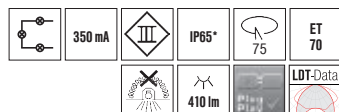
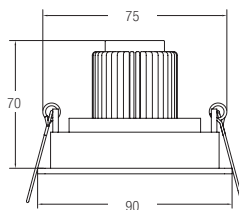
Driver see page 628.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature	Beam angle
12267073	white	2700 K	38°
12267083	black	2700 K	38°

12268... LED recessed spots



* IP65 if installed in closed ceilings

Specification

Incl. light source: LED, power: 6,6 W, material: aluminium / clear glass

Driver see page 628.

Energy efficiency class: A++ to A

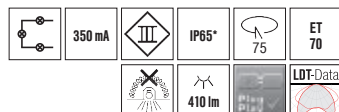
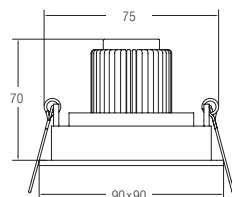
This luminaire contains incorporated and non-exchangeable LED light sources

Article-no. Colour of cabinet Colour temperature Beam angle

12268073	white	2700 K	38°
12268683	silver	2700 K	38°
12268153	nickel satin	2700 K	38°

Modular construction: further light colors and power outputs are available on demand

12269... LED recessed spots



* IP65 if installed in closed ceilings

Specification

Incl. light source: LED, power: 6,6 W, material: aluminium / clear glass

Driver see page 628.

Energy efficiency class: A++ to A

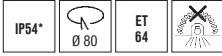
This luminaire contains incorporated and non-exchangeable LED light sources

Article-no. Colour of cabinet Colour temperature Beam angle

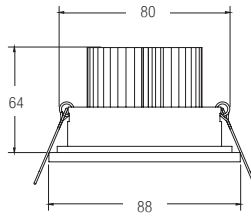
12269073	white	2700 K	38°
12269683	silver	2700 K	38°
12269153	nickel satin	2700 K	38°

Modular construction: further light colors and power outputs are available on demand

12033023 / 33033023
LED recessed spots



* IP54 if installed in closed ceilings



Base model LED 700 mA

Incl. light source: LED, power: 7 W, material: aluminium / glass partially satin

Dimmable driver see page 635

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Design by BCM Lighting

Article-no.	Colour of cabinet	Colour temperature
12033023	chrome	3000 K



LED-Set, including driver

Incl. light source: LED, power: 7 W, material: aluminium / partially glass, incl. driver for 230 V-connection, not dimmable, dimension driver: L 68 x B 35 x H 21 mm

Energy efficiency class: A++ to A

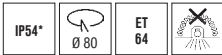
This luminaire contains incorporated and non-exchangeable LED light sources.

Design by BCM Lighting

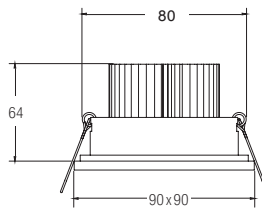
Article-no.	Colour of cabinet	Colour temperature
33033023	chrome	3000 K



12034023 / 33034023
LED recessed spots



* IP54 if installed in closed ceilings



Base model LED 700 mA

Incl. light source: LED, power: 7 W, material: aluminium / glass partially satin

Dimmable driver see page 635

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Design by BCM Lighting

Article-no.	Colour of cabinet	Colour temperature
12034023	chrome	3000 K



LED-Set, including driver

Incl. light source: LED, power: 7 W, material: aluminium / glass partially satin, incl. driver for 230 V-connection, not dimmable, dimension driver: L 68 x B 35 x H 21 mm

Energy efficiency class: A++ to A

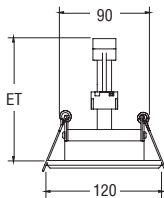
This luminaire contains incorporated and non-exchangeable LED light sources.

Design by BCM Lighting

Article-no.	Colour of cabinet	Colour temperature
33034023	chrome	3000 K



37003250 / 12152253 / 33152253
Recessed spots



* IP44 if installed in closed ceilings

Base model for high-voltage

For high voltage lamp: 1 x GU10 QPAR51, power: max. 50 W, material: aluminium / clear glass, HV-clamp included

Energy efficiency class: A++ to E

Article-no. Colour of cabinet

37003250 alu satin



Base model LED 350 mA

Incl. light source: 1 x LED, power: 6,6 W, beam angle: 38°, material: aluminium / clear glass

Dimmable driver see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no. Colour of cabinet Colour temperature

12152253 alu satin 2700 K

Modular construction: further light colors and power outputs are available on demand



LED-Set, including driver

Incl. light source: 1 x LED, power: 6,6 W, beam angle: 38°, material: aluminium / clear glass, incl. driver for 230V connection, not dimmable, dimension driver: length 68 x breadth 35 x height 21mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no. Colour of cabinet Colour temperature

33152253 alu satin 2700 K

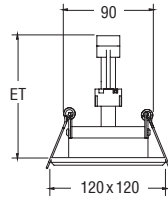
Modular construction: further light colors and power outputs are available on demand



37004250 / 12153253 / 33153253
Recessed spots



* IP44 if installed in closed ceilings



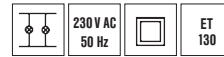
Base model for high-voltage

For high voltage lamp: 1 x GU10 QPAR51, power: max. 50 W, material: aluminium / clear glass, HV-clamp included

Energy efficiency class: A++ to E

Article-no. Colour of cabinet

37004250 alu satin



Base model LED 350 mA

Incl. light source: 1 x LED, power: 6,6 W, beam angle: 38°, material: aluminium / clear glass

Dimmable driver see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no. Colour of cabinet Colour temperature

12153253 alu satin 2700 K ●

Modular construction: further light colors and power outputs are available on demand



LED-Set, including driver

Incl. light source: 1 x LED, power: 6,6 W, beam angle: 38°, material: aluminium / clear glass, incl. driver for 230V connection, not dimmable, dimension driver: length 68 x breadth 35 x height 21 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no. Colour of cabinet Colour temperature

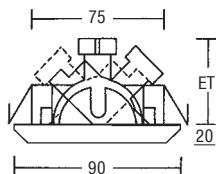
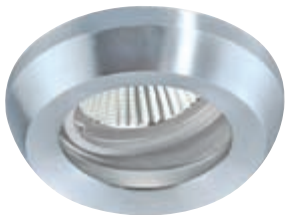
33153253 alu satin 2700 K ●

Modular construction: further light colors and power outputs are available on demand



2188.25 / 12302253 / 33302253

Recessed spots



* IP44 - if installed in closed ceilings

Base model for low-voltage

For low voltage lamp: 1 x GX5,3 QRCBC51, power: max. 35 W, material: aluminium / clear glass

Driver see page 645.

Energy efficiency class: A to C

Article-no. Colour of cabinet

2188.25 alu satin



Base model LED 350 mA

Incl. light source: 1 x LED, power: 6,6 W, beam angle: 38°, material: aluminium / clear glass

Dimmable driver on page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Modular construction: further light colors and power outputs are available on demand

Article-no. Colour of cabinet Colour temperature

12302253 alu satin 2700 K ●



LED-Set, including driver

Incl. light source: 1 x LED, power: 6,6 W, beam angle: 38°, material: aluminium / clear glass, incl. driver for 230V connection, not dimmable, dimension driver: length 68 x breadth 35 x height 21mm

Energy efficiency class: A++ to A

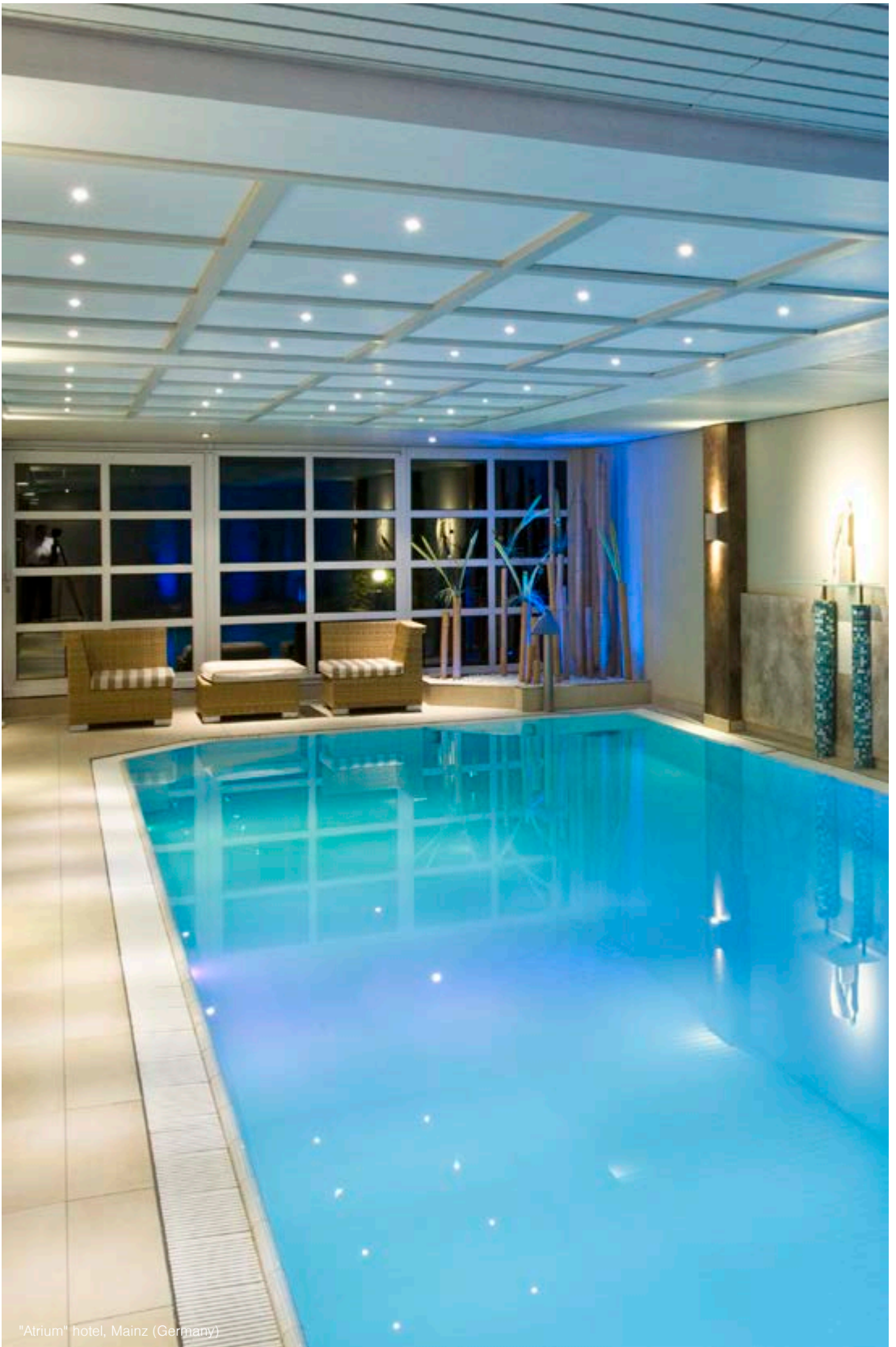
This luminaire contains incorporated and non-exchangeable LED light sources.

Modular construction: further light colors and power outputs are available on demand

Article-no. Colour of cabinet Colour temperature

33302253 alu satin 2700 K ●

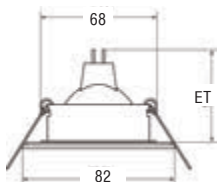




"Atrium" hotel, Mainz (Germany)

26004220 / 36004220 / 12004223 / 33004223

recessed spots AISI 316 stainless steel



* IP54 if installed in closed ceilings

Base model for low-voltage

For lamp: 1 x GX5,3 QRC51, power: max. 50 W, material: AISI 316 stainless steel / clear glass

Driver see page 645.

Energy efficiency class: A to C

Article-no. Colour of cabinet

26004220 stainless steel



Base model for high-voltage spot for retrofit

For lamp: 1 x GU10 QPAR51, power: max. 50 W, HV-clamp included, material: AISI 316 stainless steel / clear glass

Energy efficiency class: A++ to E

Article-no. Colour of cabinet

36004220 stainless steel



Base model LED 350 mA

Incl. light source: 1 x LED, power: 6,6 W, beam angle: 38°, material: AISI 316 stainless steel / clear glass

Dimmable driver see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no. Colour of cabinet Colour temperature

12004223 stainless steel 2700 K ●

Modular construction: further light colors and power outputs are available on demand



LED-Set, including driver

Incl. light source: 1 x LED, power: 6,6 W, beam angle: 38°, material: AISI 316 stainless steel / clear glass, incl. driver for 230V connection, not dimmable, dimension driver: length 68 x breadth 35 x height 21mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no. Colour of cabinet Colour temperature

33004223 stainless steel 2700 K ●

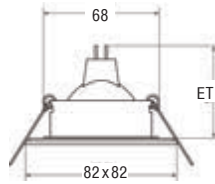
Modular construction: further light colors and power outputs are available on demand



26005220 / 36005220 / 12005223 / 33005223
recessed spots AISI 316 stainless steel



* IP54 if installed in closed ceilings



Base model for low-voltage

For lamp: 1 x GX5,3 QRC51, power: max. 50 W, material: AISI 316 stainless steel / clear glass

Driver see page 645.

Energy efficiency class: A to C

Article-no. Colour of cabinet

26005220 stainless steel



Base model for high-voltage spot for retrofit

For lamp: 1 x GU10 QPAR51, power: max. 50 W, HV-clamp included, material: AISI 316 stainless steel / clear glass

Energy efficiency class: A++ to E

Article-no. Colour of cabinet

36005220 stainless steel



Base model LED 350 mA

Incl. light source: 1 x LED, power: 6,6 W, beam angle: 38°; material: AISI 316 stainless steel / clear glass

Dimmable driver see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no. Colour of cabinet Colour temperature

12005223 stainless steel 2700 K ●

Modular construction: further light colors and power outputs are available on demand



LED-Set, including driver

Incl. light source: 1 x LED, power: 6,6 W, beam angle: 38°, material: AISI 316 stainless steel / clear glass, incl. driver for 230V connection, not dimmable, dimension driver: length 68 x breadth 35 x height 21mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no. Colour of cabinet Colour temperature

33005223 stainless steel 2700 K ●

Modular construction: further light colors and power outputs are available on demand



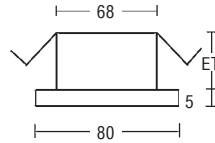
Wholesale's bathroom exhibition, Bielefeld (Germany)



2062... / 36149... / 12149... / 33149...
recessed spots



* IP65 if installed in closed ceilings



Base model for low-voltage

For low voltage lamp: 1 x GX5,3 QRCBC51, power: max. 50 W, material: cast / glass frosted

Driver see page 645.

Energy efficiency class: A to C

Article-no.	Colour of cabinet
2062.02	chrome
2062.07	white
2062.25	alu satin



Base model for high-voltage spot for retrofit

For high voltage lamp: 1 x GU10 QPAR51, power: max. 50 W, material: cast / glass frosted, HV-clamp included

Energy efficiency class: A++ to E

Article-no.	Colour of cabinet
36149020	chrome
36149070	white
36149250	alu satin



Base model LED 350 mA

Incl. light source: 1 x LED, power: 6,6 W, beam angle: 38°, material: cast / glass frosted

Dimmable driver see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
12149023	chrome	2700 K
12149073	white	2700 K
12149253	alu satin	2700 K

Modular construction: further light colors and power outputs are available on demand



LED-Set, including driver

Incl. light source: 1 x LED, power: 6,6 W, beam angle: 38°, material: cast / glass frosted, incl. driver for 230V connection, not dimmable, dimension driver: length 68 x breadth 35 x height 21 mm

Energy efficiency class: A++ to A

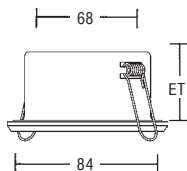
This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
33149023	chrome	2700 K
33149073	white	2700 K
33149253	alu satin	2700 K

Modular construction: further light colors and power outputs are available on demand



2339.42 / 36306420 / 12306423 / 33306423
recessed spots AISI 316 stainless steel



* IP65 if installed in closed ceilings

Base model for low-voltage

For low voltage lamp: 1 x GX5,3 QRCBC51, power: max. 50 W, material: AISI 316 stainless steel / glass frosted

Driver see page 645.

Energy efficiency class: A to C

Article-no.	Colour of cabinet
2339.42	stainless steel

Base model for high-voltage spot for retrofit

For high voltage lamp: 1 x GU10 QPAR51, power: max. 50 W, material: AISI 316 stainless steel / glass frosted, HV-clamp included

Energy efficiency class: A++ to E

Article-no.	Colour of cabinet
36306420	stainless steel



Base model LED 350 mA

Incl. light source: 1 x LED, power: 6,6 W, beam angle: 38°, material: AISI 316 stainless steel / glass frosted

Dimmable driver see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
12306423	stainless steel	2700 K ●

Modular construction: further light colors and power outputs are available on demand



LED-Set, including driver

Incl. light source: 1 x LED, power: 6,6 W, beam angle: 38°, material: AISI 316 stainless steel / glass frosted, incl. driver for 230V connection, not dimmable, dimension driver: length 68 x breadth 35 x height 21 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
33306423	stainless steel	2700 K ●

Modular construction: further light colors and power outputs are available on demand



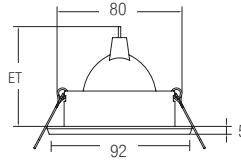
37001... / 36156... / 12156... / 33156...
recessed spots



* IP65 if installed in closed ceilings

Advice

Natural colour-changing for copper-version.



Base model for low-voltage

For low voltage lamp: 1 x GX5,3 QRCBC51, power: max. 35 W, material: AISI 316 stainless steel / clear glass or copper / clear glass

Driver see page 645.

Energy efficiency class: A to C

Article-no.	Colour of cabinet
37001190	copper
37001200	stainless steel clear powdered



* only: 37001200

Base model for high-voltage spot for retrofit

For high voltage lamp: 1 x GU10 QPAR51, power: max. 35 W, material: AISI 316 stainless steel / clear glass or copper / clear glass, HV-cable included

Energy efficiency class: A++ to E

Article-no.	Colour of cabinet
36156190	copper
36156200	stainless steel clear powdered



* only: 36156200

Base model LED 350 mA

Incl. light source: 1 x LED, power: 6,6 W, beam angle: 38°, material: AISI 316 stainless steel / clear glass or copper / clear glass

Dimmable driver see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
12156193	copper	2700 K
12156203	stainless steel clear powdered	2700 K

Modular construction: further light colors and power outputs are available on demand



* only: 12156203

LED-Set, including driver

Incl. light source: 1 x LED, power: 6,6 W, beam angle: 38°, material: AISI 316 stainless steel / clear glass or copper / clear glass, incl. driver for 230V connection, not dimmable, dimension driver: length 68 x breadth 35 x height 21 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

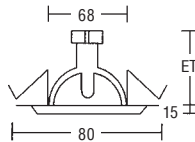
Article-no.	Colour of cabinet	Colour temperature
33156193	copper	2700 K
33156203	stainless steel clear powdered	2700 K

Modular construction: further light colors and power outputs are available on demand



* only: 33156203

2178... / 12301... / 33301...
recessed spots



* IP44 if installed in closed ceilings

Base model for low-voltage

For low voltage lamp: 1 x GX5,3 QRCBC51, power: max. 35 W, material: aluminium / clear glass

Driver see page 645.

Energy efficiency class: A to C

Article-no. Colour of cabinet

2178.02	chrome
2178.05	gold
2178.25	alu satin



Base model LED 350 mA

Incl. light source: 1 x LED, power: 6,6 W, beam angle: 38°, material: aluminium / clear glass

Dimmable driver see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
12301023	chrome	2700 K
12301053	gold	2700 K
12301253	alu satin	2700 K

Modular construction: further light colors and power outputs are available on demand



LED-Set, including driver

Incl. light source: 1 x LED, power: 6,6 W, beam angle: 38°, material: aluminium / clear glass, incl. driver for 230V connection, not dimmable, dimension driver: length 68 x breadth 35 x height 21 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
33301023	chrome	2700 K
33301053	gold	2700 K
33301253	alu satin	2700 K

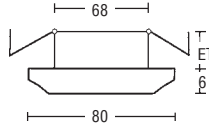
Modular construction: further light colors and power outputs are available on demand



12199253 / 33199253 / 2162.25
recessed spots



* IP44 if installed in closed ceilings



Base model for low-voltage

For low voltage lamp: 1 x GX5,3 QRCBC51, power: max. 35 W, material: aluminium / clear glass

Driver see page 645.

Energy efficiency class: A to C

Article-no. Colour of cabinet

2162.25 alu satin



Base model LED 350 mA

Incl. light source: 1 x LED, power: 6,6 W, beam angle: 38°, material: aluminium cast / clear glass

Dimmable driver see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
12199253	alu satin	2700 K ●

Modular construction: further light colors and power outputs are available on demand



LED-Set, including driver

Incl. light source: 1 x LED, power: 6,6 W, beam angle: 38°, material: aluminium cast / clear glass, incl. driver for 230V connection, not dimmable, dimension driver: length 68 x breadth 35 x height 21mm

Energy efficiency class: A++ to A

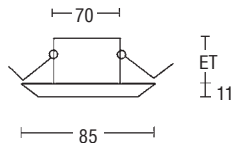
This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
33199253	alu satin	2700 K ●

Modular construction: further light colors and power outputs are available on demand



2671.02 / 12151023 / 33151023
recessed spots



* IP44 if installed in closed ceilings

Base model for low-voltage

For low voltage lamp: 1 x GX5,3 QRCBC51, power: max. 35 W, material: aluminium / glass frosted

Driver see page 645.

Energy efficiency class: A to C

Article-no. Colour of cabinet

2671.02 chrome



Base model LED 350 mA

Incl. light source: 1 x LED, power: 6,6 W, beam angle: 38°, material: aluminium / clear glass

Dimmable driver see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Modular construction: further light colors and power outputs are available on demand

Article-no. Colour of cabinet Colour temperature

12151023 chrome 2700 K



LED-Set, including driver

Incl. light source: 1 x LED, power: 6,6 W, beam angle: 38°, material: aluminium / clear glass, incl. driver for 230V connection, not dimmable, dimension driver: l 68 x b 35 x h 21mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Modular construction: further light colors and power outputs are available on demand

Article-no. Colour of cabinet Colour temperature

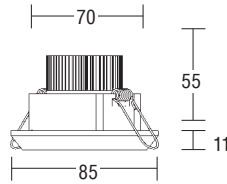
33151023 chrome 2700 K



R7104...
LED recessed spots



* IP44 if installed in closed ceilings



Specification

Incl. light source: LED, power: 4,3W, material: aluminium / aluminium cast / plastic / clear glass

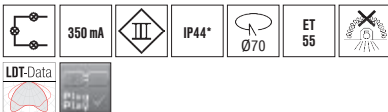
Driver see page 644.

Energy efficiency class: A++ to A

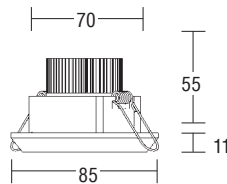
This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature	Flux	Lense
R7104NW2	chrome	4100 K	● 240 lm	25°
R7104NW4	chrome	4100 K	● 233 lm	45°
R7104NW6	chrome	4100 K	● 230 lm	60°
R7104W2	chrome	6500 K	○ 259 lm	25°
R7104W4	chrome	6500 K	○ 247 lm	45°
R7104W6	chrome	6500 K	○ 241 lm	60°
R7104WW2	chrome	3000 K	● 145 lm	25°
R7104WW4	chrome	3000 K	● 142 lm	45°
R7104WW6	chrome	3000 K	● 139 lm	60°

R2671...
LED recessed spots



* IP44 if installed in closed ceilings



Specification

Incl. light source: LED, power: 3,3W, material: aluminium / aluminium cast / plastic / clear glass

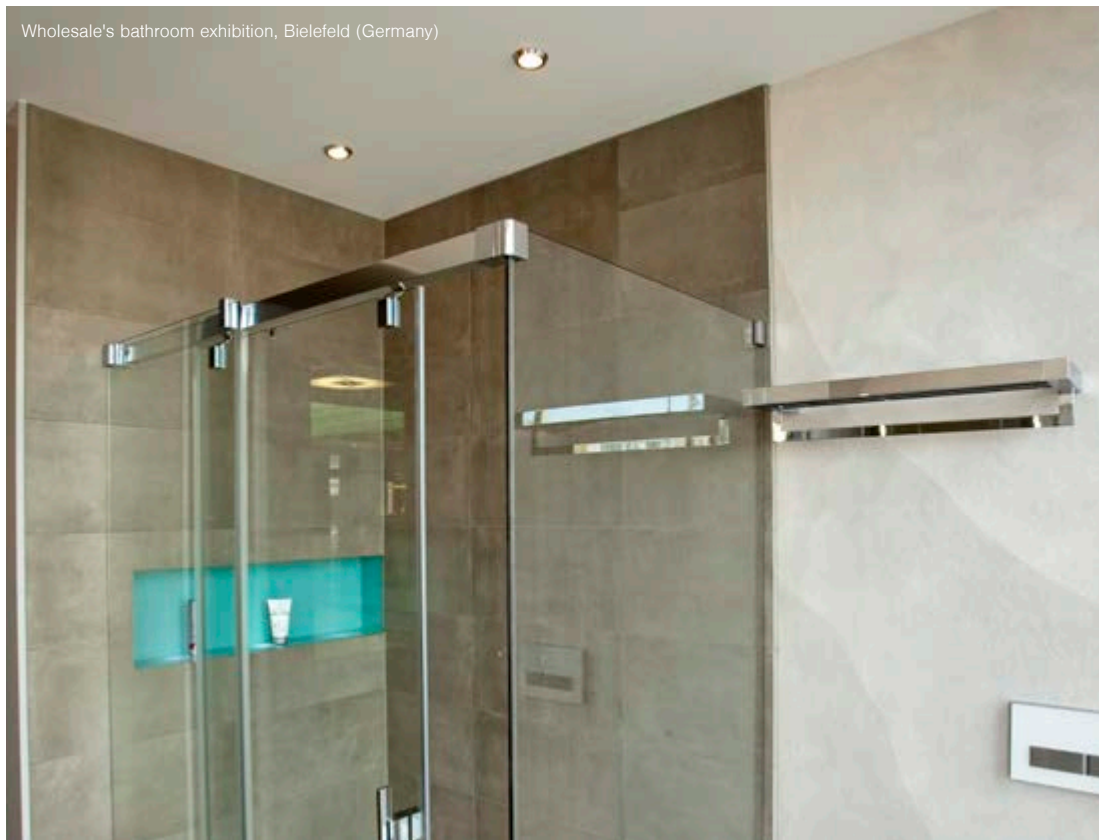
Driver see page 628.

Energy efficiency class: A++ to A

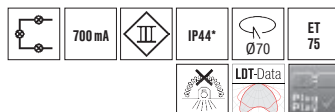
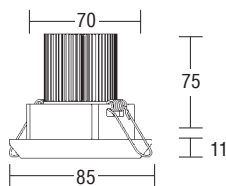
This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature	Flux	Lense
R2671NW2	chrome	4100 K	● 240 lm	25°
R2671NW4	chrome	4100 K	● 233 lm	45°
R2671NW6	chrome	4100 K	● 230 lm	60°
R2671W2	chrome	6500 K	○ 259 lm	25°
R2671W4	chrome	6500 K	○ 247 lm	45°
R2671W6	chrome	6500 K	○ 241 lm	60°
R2671WW2	chrome	3000 K	● 145 lm	25°
R2671WW4	chrome	3000 K	● 142 lm	45°
R2671WW6	chrome	3000 K	● 139 lm	60°

Wholesale's bathroom exhibition, Bielefeld (Germany)



R7101... LED recessed spots



* IP44 if installed
in closed ceilings

Specification

Incl. light source: LED, power: 6,7 W,
material: aluminium / aluminium cast / plastic / clear glass

Driver see page 634.

Energy efficiency class: A++ to A

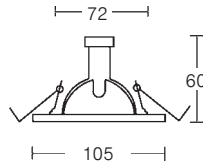
This luminaire contains incorporated and
non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature	Flux	Lens
R7101NW2	chrome	4100 K ●	240 lm	25°
R7101NW4	chrome	4100 K ●	233 lm	45°
R7101NW6	chrome	4100 K ●	230 lm	60°
R7101W2	chrome	6500 K ○	259 lm	25°
R7101W4	chrome	6500 K ○	247 lm	45°
R7101W6	chrome	6500 K ○	241 lm	60°
R7101WW2	chrome	3000 K ●	145 lm	25°
R7101WW4	chrome	3000 K ●	142 lm	45°
R7101WW6	chrome	3000 K ●	139 lm	60°

2310.22
low-voltage spot



* IP54 if installed
in closed ceilings



Specification

For low voltage lamp: 1 x GX5,3 QRC51, power: max. 50 W,
material: AISI 316 stainless steel / clear glass

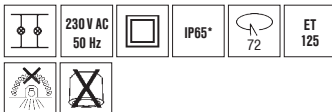
Driver see page 645.

Energy efficiency class: A to C

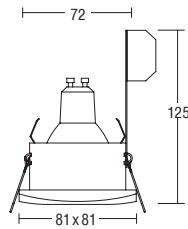
Article-no. Colour of cabinet

2310.22 stainless steel

37002150
high-voltage spot



* IP65 if installed
in closed ceilings



Specification

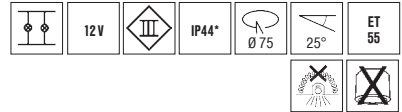
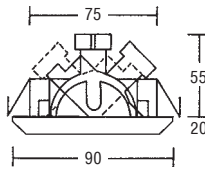
For high voltage lamp: 1 x GU10 QPAR51, power: max. 50 W,
material: steel / cast / clear glass

Energy efficiency class: A++ to E

Article-no. Colour of cabinet

37002150 nickel satin

2160 Low - voltage spots



* P44 - if installed in closed ceilings

Specification

For low voltage lamp: 1 x GX5,3 QRCBC51, power: max. 35 W, material: aluminium / glass frosted

Driver see page 645.

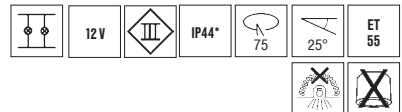
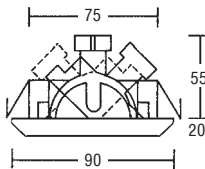
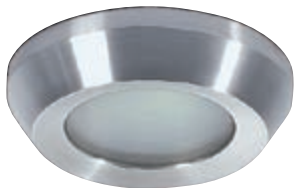
Energy efficiency class: A to C

Article-no. Colour of cabinet

2160.02 chrome

2160.25 alu satin

2180.25 Spot - enhanced IP rating



* IP44 if installed in closed ceilings

Specification

For low voltage lamp: 1 x GX5,3 QRCBC51, power: max. 35 W, material: aluminium / glass frosted

Driver see page 645.

Energy efficiency class: A to C

Article-no. Colour of cabinet

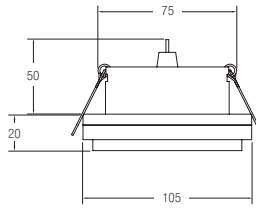
2180.25 alu satin

22007020

Recessed ceiling luminaire



* IP44 if installed in closed ceilings



Specification

For lamp: 1 x GX5,3 QRBCB51,
power: max. 50 W, material: cast / clear glass

Driver see page 645.

Energy efficiency class: A to C

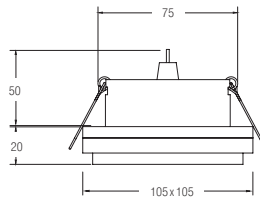
Article-no.	Colour of cabinet
22007020	chrome

22008020

Recessed ceiling luminaire



* IP44 if installed in closed ceilings



Specification

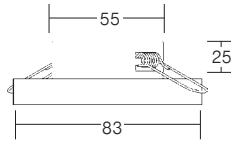
For lamp: 1 x GX5,3 QRBCB51,
power: max. 50 W, material: cast / clear glass

Driver see page 645.

Energy efficiency class: A to C

Article-no.	Colour of cabinet
22008020	chrome

2274.22
Low - voltage spot



* IP44 if installed
in closed ceilings
only for indoor

Specification

For low voltage lamp: 1 x G4 QT9, power: max. 20 W,
material: stainless steel / glass frosted

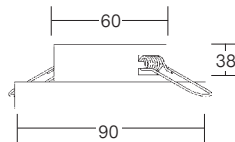
Driver see page 645.

Energy efficiency class: A+ to C

Article-no. Colour of cabinet

2274.22 stainless steel

2674.22
Low - voltage spot



* IP44 if installed
in closed ceilings
only for indoor

Specification

For low voltage lamp: 1 x G4 QT9, power: max. 20 W,
material: stainless steel / glass frosted

Driver see page 645.

Energy efficiency class: A+ to C

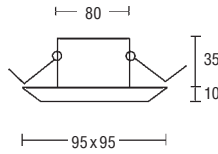
Article-no. Colour of cabinet

2674.22 glass frosted

2289...
Low - voltage spots



* IP65 if installed
in closed ceilings



Specification

For low voltage lamp: 1x GY6,35 QT12, power: max. 35 W,
material: cast / glass frosted

Driver see page 645.

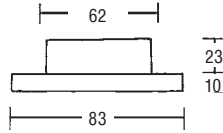
Energy efficiency class: A+ to C

Article-no.	Colour of cabinet
2289.02	chrome
2289.15	nickel satin



Wholesale's bathroom exhibition, Bielefeld (Germany)

1055...
Low - voltage spots



* IP65 if installed
in closed ceilings

screw mounting

Specification

For low voltage lamp: 1 x G4 QT9, power: max. 20W,
material: brass / stainless steel / glass frosted

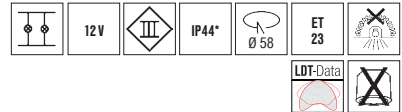
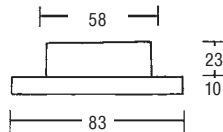
Driver see page 645.

Energy efficiency class: A+ to C

Article-no. Colour of cabinet

1055.07	white
1055.22	stainless steel

1355...
Low - voltage spots



* IP44 if installed
in closed ceilings

clip mounting

Specification

For low voltage lamp: 1 x G4 QT9, power: max. 20W,
material: brass / stainless steel / glass frosted

Driver see page 645.

Energy efficiency class: A+ to C

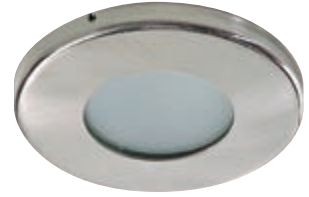
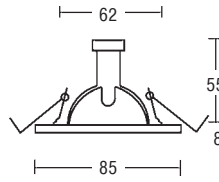
Article-no. Colour of cabinet

1355.00	brass
1355.02	chrome
1355.07	white
1355.22	stainless steel

2264.22
Low - voltage spot



* IP65 if installed
in closed ceilings



Specification

For low voltage lamp: 1x QRCBC51, power: max. 35 W,
material: stainless steel / glass frosted

Driver see page 645.

Energy efficiency class: A to C

Article-no. Colour of cabinet

2264.22 stainless steel



Private bathroom, Berlin (Germany)



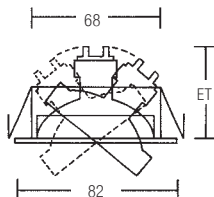
recessed

ceiling stainless steel



1180.22 / 36147220 / 12147223 / 33147223

Spot - stainless steel for outdoor use



Base model low-voltage

For low voltage lamp: 1x GX5,3 QRCBC51, power: max. 50 W, material: AISI 316 stainless steel

Driver see page 645.

Energy efficiency class: A to C

Article-no. Colour of cabinet

1180.22 stainless steel

Base model high-voltage for retrofit

For high voltage lamp: 1x GU10 QPAR51, power: max. 50 W, material: AISI 316 stainless steel, HV-clamp included

Energy efficiency class: A++ to E

Article-no. Colour of cabinet

36147220 stainless steel



Base model LED 350mA

Incl. light source: 1x LED, power: 6,6 W, beam angle: 38°, material: AISI 316 stainless steel / clear glass

Dimmable drivers on page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
12147223	stainless steel	2700 K ●

Modular construction: further light colors and power outputs are available on demand

LED-Set, including driver

Incl. light source: 1x LED, power: 6,6 W, beam angle: 38°, material: AISI 316 stainless steel, incl. driver for 230V-connection, not dimmable, dimension driver: 1 68 x w 35 x h 21mm

Energy efficiency class: A++ to A

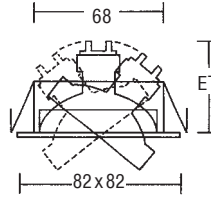
This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
33147223	stainless steel	2700 K ●

Modular construction: further light colors and power outputs are available on demand



1181.22 / 36148220 / 12148223 / 33148223
Spot - stainless steel for outdoor use



Base model low-voltage

For low voltage lamp: 1x GX5,3 QRCBC51, power: max. 50 W, material: AISI 316 stainless steel

Driver see page 645.

Energy efficiency class: A to C

Article-no. Colour of cabinet

1181.22 stainless steel

Base model high-voltage for retrofit

For high voltage lamp: 1x GU10 QPAR51, power: max. 50 W, material: AISI 316 stainless steel, HV-clamp included

Energy efficiency class: A++ to E

Article-no. Colour of cabinet

36148220 stainless steel



Base model LED 350mA

Incl. light source: 1x LED, power: 6,6 W, beam angle: 38°, material: AISI 316 stainless steel / clear glass

Dimmable drivers on page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
12148223	stainless steel	2700 K

Modular construction: further light colors and power outputs are available on demand



LED-Set, including driver

Incl. light source: 1x LED, power: 6,6 W, beam angle: 38°, material: AISI 316 stainless steel, incl. driver for 230V-connection, not dimmable, dimension driver: 168 x w 35 x h 21mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

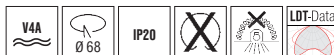
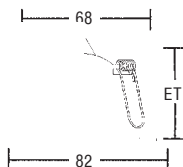
Article-no.	Colour of cabinet	Colour temperature
33148223	stainless steel	2700 K

Modular construction: further light colors and power outputs are available on demand



2337.42 / 36195420 / 12195423 / 33195423

Spot - stainless steel for outdoor use



Base model low-voltage

For low voltage lamp: 1x GX5,3 QRCBC51, power: max. 50 W, material: AISI 316 stainless steel

Driver see page 645.

Energy efficiency class: A to C

Article-no.	Colour of cabinet
2337.42	stainless steel

Base model high-voltage for retrofit

For high voltage lamp: 1x GU10 QPAR51, power: max. 50 W, material: AISI 316 stainless steel, HV-clamp included

Energy efficiency class: A++ to E

Article-no.	Colour of cabinet
36195420	stainless steel



Base model LED 350mA

Incl. light source: 1x LED, power: 6,6 W, beam angle: 38°, material: AISI 316 stainless steel / clear glass

Dimmable drivers see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
12195423	stainless steel	2700 K ●

Modular construction: further light colors and power outputs are available on demand

LED-Set, including driver

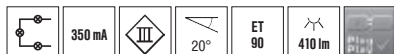
Incl. light source: 1x LED, power: 6,6 W, beam angle: 38°, material: AISI 316 stainless steel / clear glass, incl. driver for 230V-connection, not dimmable, dimension driver: l 68 x w 35 x h 21 mm

Energy efficiency class: A++ to A

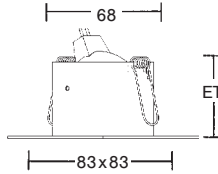
This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
33195423	stainless steel	2700 K ●

Modular construction: further light colors and power outputs are available on demand



2338.42 / 36196420 / 12196423 / 33196423
Spot - stainless steel for outdoor use



Base model low-voltage

For low voltage lamp: 1x GX5,3 QRCBC51, power: max. 50 W, material: AISI 316 stainless steel

Driver see page 645.

Energy efficiency class: A to C

Article-no.	Colour of cabinet
2338.42	stainless steel

Base model high-voltage for retrofit

For high voltage lamp: 1x GU10 QPAR51, power: max. 50 W, material: AISI 316 stainless steel, HV-clamp included

Energy efficiency class: A++ to E

Article-no.	Colour of cabinet
36196420	stainless steel



Base model LED 350mA

Incl. light source: 1x LED, power: 6,6W, beam angle: 38°, material: AISI 316 stainless steel

Dimmable drivers see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
12196423	stainless steel	2700 K ●

Modular construction: further light colors and power outputs are available on demand

LED-Set, including driver

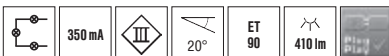
Incl. light source: 1x LED, power: 6,6W, beam angle: 38°, material: AISI 316 stainless steel / clear glass, incl. driver for 230V-connection, not dimmable, dimension driver: l 68 x w 35 x h 21mm

Energy efficiency class: A++ to A

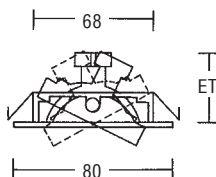
This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
33196423	stainless steel	2700 K ●

Modular construction: further light colors and power outputs are available on demand



1925... / 36145... / 12145... / 33145...
Recessed spot



Base model low-voltage

For low voltage lamp: 1x GX5,3 QRCBC51, power: max. 50 W, material: stainless steel

Driver see page 645.

Energy efficiency class: A to C

Article-no.	Colour of cabinet
1925.20	stainless steel clear powdered
1925.22	stainless steel
1925.27	stainless steel white powdered

Base model high-voltage for retrofit

For high voltage lamp: 1x GU10 QPAR51, power: max. 50 W, material: stainless steel, HV-clamp included

Energy efficiency class: A++ to E

Article-no.	Colour of cabinet
36145200	stainless steel clear powdered
36145220	stainless steel
36145270	stainless steel white powdered



Base model LED 350mA

Incl. light source: 1x LED, power: 6,6W, beam angle: 38°, material: stainless steel / clear glass

Dimmable drivers see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
12145203	stainless steel clear powdered	2700 K ●
12145223	stainless steel	2700 K ●
12145273	stainless steel white powdered	2700 K ●

Modular construction: further light colors and power outputs are available on demand

LED-Set, including driver

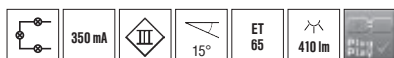
Incl. light source: 1x LED, power: 6,6W, beam angle: 38° material: stainless steel / clear glass, incl. driver for 230V-connection, not dimmable, dimension driver: l 68 x w 35 x h 21mm

Energy efficiency class: A++ to A

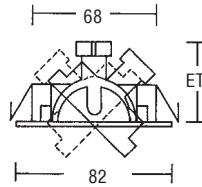
This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
33145203	stainless steel clear powdered	2700 K ●
33145223	stainless steel	2700 K ●
33145273	stainless steel white powdered	2700 K ●

Modular construction: further light colors and power outputs are available on demand



1996.22 / H1996.22 / 12182223 / 33182223
Recessed spot



Base model low-voltage

For low voltage lamp: 1x GX5,3 QRCBC51, power: max. 50 W, material: stainless steel

Driver see page 645.

Energy efficiency class: A to C

Article-no.	Colour of cabinet
1996.22	stainless steel

Base model high-voltage for retrofit

For high voltage lamp: 1x GZ10 QPAR-CB51, power: max. 50 W, material: stainless steel, HV-clamp included

Energy efficiency class: A++ to E

Article-no.	Colour of cabinet
H1996.22	stainless steel



Base model LED 350mA

Incl. light source: 1x LED, power: 6,6 W, beam angle: 38°, material: stainless steel / clear glass

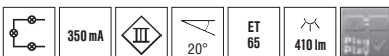
Dimmable drivers see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
12182223	stainless steel	2700 K ●

Modular construction: further light colors and power outputs are available on demand



LED-Set, including driver

Incl. light source: 1x LED, power: 6,6 W, beam angle: 38°, material: stainless steel / clear glass, incl. driver for 230V-connection, not dimmable, dimension driver: l 68 x w 35 x h 21mm

Energy efficiency class: A++ to A

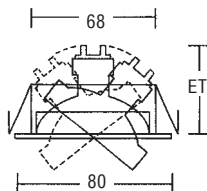
This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
33182223	stainless steel	2700 K ●

Modular construction: further light colors and power outputs are available on demand



2191... / H2191... / 12194... / 33194...
Recessed spot



Base model low-voltage

For low voltage lamp: 1x GX5,3 QRCBC51, power: max. 50 W, material: stainless steel

Driver see page 645.

Energy efficiency class: A to C

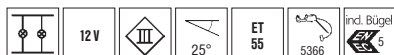
Article-no.	Colour of cabinet
2191.07	white
2191.20	stainless steel clear powdered
2191.22	stainless steel

Base model high-voltage for retrofit

For high voltage lamp: 1x GZ10 QPAR-CB51, power: max. 50 W, material: stainless steel, HV-clamp included

Energy efficiency class: A++ to E

Article-no.	Colour of cabinet
H2191.07	white
H2191.20	stainless steel clear powdered
H2191.22	stainless steel



Base model LED 350mA

Incl. light source: 1x LED, power: 6,6W, beam angle: 38°, material: stainless steel / clear glass

Dimmable drivers see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
12194073	white	2700 K
12194203	stainless steel clear powdered	2700 K
12194223	stainless steel	2700 K

Modular construction: further light colors and power outputs are available on demand

LED-Set, including driver

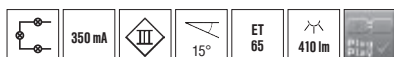
Incl. light source: 1x LED, power: 6,6W, beam angle: 38°, material: stainless steel / clear glass, incl. driver for 230V-connection, not dimmable, dimension driver: l 68 x w 35 x h 21mm

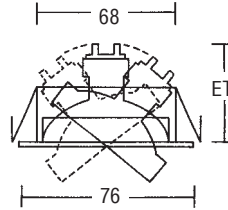
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
33194073	white	2700 K
33194203	stainless steel clear powdered	2700 K
33194223	stainless steel	2700 K

Modular construction: further light colors and power outputs are available on demand



1191... / H1191... / 12193... / 33193...
Recessed spot

Base model low-voltage

For low voltage lamp: 1x GX5,3 QRBCB51, power: max. 50 W, material: stainless steel

Driver see page 645.

Energy efficiency class: A to C

Article-no. Colour of cabinet

1191.07	white
1191.20	stainless steel clear powdered
1191.22	stainless steel

Base model high-voltage for retrofit

For high voltage lamp: 1x GZ10 QPAR-CB51, power: max. 50 W, material: stainless steel, HV-clamp included

Energy efficiency class: A++ to E

Article-no. Colour of cabinet

H1191.07	white
H1191.20	stainless steel clear powdered
H1191.22	stainless steel



Base model LED 350mA

Incl. light source: 1x LED, power: 6,6 W, beam angle: 38°, material: stainless steel / clear glass

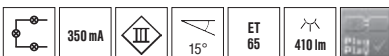
Dimmable drivers see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
12193073	white	2700 K
12193203	stainless steel clear powdered	2700 K
12193223	stainless steel	2700 K

Modular construction: further light colors and power outputs are available on demand



LED-Set, including driver

Incl. light source: 1x LED, power: 6,6 W, beam angle: 38°, material: stainless steel / clear glass, incl. driver for 230V-connection, not dimmable, dimension driver: l 68 x w 35 x h 21mm

Energy efficiency class: A++ to A

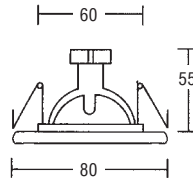
This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
33193073	white	2700 K
33193203	stainless steel clear powdered	2700 K
33193223	stainless steel	2700 K

Modular construction: further light colors and power outputs are available on demand



2190...
Recessed low - voltage spot



Specification

For low voltage lamp: 1x GX5,3 QRC51,
power: max. 50 W, material: stainless steel

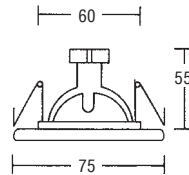
Driver see page 645.

Energy efficiency class: A to C

Article-no. Colour of cabinet

2190.07	white
2190.20	stainless steel clear powdered
2190.22	stainless steel

1190...
Recessed low - voltage spot



Specification

For low voltage lamp: 1x GX5,3 QRC51,
power: max. 50 W, material: stainless steel

Driver see page 645.

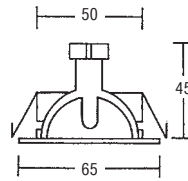
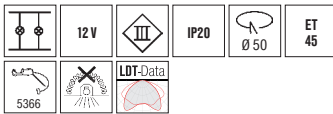
Energy efficiency class: A to C

Article-no. Colour of cabinet

1190.07	white
1190.20	stainless steel clear powdered
1190.22	stainless steel



Private home roof garden, Ihrlenstein-Kehlheim (Germany)



1192... Recessed low - voltage spot



Specification

For low voltage lamp: 1x GZ4 QRBC35,
power: max. 20 W, material: stainless steel

Driver see page 645.

Energy efficiency class: A+ to C

Article-no. Colour of cabinet

1192.20	stainless steel clear powdered
1192.22	stainless steel

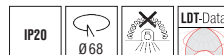
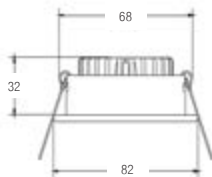


recessed

ceiling low installation depth



12261... / 12361... / 33261... / 33361... / 34261... / 34361...
LED recessed spots



NEW

New Colours

Base model LED 350 mA

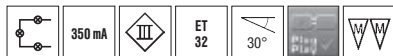
Incl. light source: 1 x LED, power: 7 W,
material: aluminium / clear glass, beam angle: 38°

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of cabinet	Colour temperature	Flux
12261023	chrome	2700 K	710 lm
12261073	white	2700 K	710 lm
12261253	alu satin	2700 K	710 lm
12261633	champagne satin**	2700 K	710 lm
12261643	titanium satin	2700 K	710 lm
12361023	chrome	3000 K	750 lm
12361073	white	3000 K	750 lm
12361253	alu satin	3000 K	750 lm
12361633	champagne satin**	3000 K	750 lm
12361643	titanium satin	3000 K	750 lm

**as shown in picture



LED set, including driver

Incl. light source: 1 x LED, power: 7 W,
material: aluminium / clear glass, beam angle: 38°,
incl. driver for 230 V-connection, not dimmable,
dimensions of driver: l 68 x w 35 x h 21 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of cabinet	Colour temperature	Flux
33261023	chrome	2700 K	710 lm
33261073	white	2700 K	710 lm
33261253	alu satin	2700 K	710 lm
33261633	champagne satin**	2700 K	710 lm
33261643	titanium satin	2700 K	710 lm
33361023	chrome	3000 K	750 lm
33361073	white	3000 K	750 lm
33361253	alu satin	3000 K	750 lm
33361633	champagne satin**	3000 K	750 lm
33361633	titanium satin	3000 K	750 lm



*for the luminaire included in the set

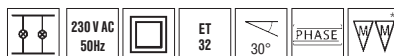
LED set, including driver, dimmable

Incl. light source: 1 x LED, power: 7 W,
material: aluminium / clear glass, beam angle: 38°,
incl. driver for 230 V-connection, dimmable,
dimensions of driver: l 122 x w 39 x h 18 mm

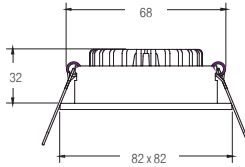
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of cabinet	Colour temperature	Flux
34261023	chrome	2700 K	710 lm
34261073	white	2700 K	710 lm
34261253	alu satin	2700 K	710 lm
34261633	champagne satin**	2700 K	710 lm
34261643	titanium satin	2700 K	710 lm
34361023	chrome	3000 K	750 lm
34361073	white	3000 K	750 lm
34361253	alu satin	3000 K	750 lm
34361633	champagne satin**	3000 K	750 lm
34361643	titanium satin	3000 K	750 lm



*for the luminaire included in the set

12262... / 12362... / 33262... / 33362... / 34262... / 34362...
LED recessed spots

New Colours

NEW

Base model LED 350 mA

Incl. light source: 1 x LED, power: 7 W,
material: aluminium / clear glass, beam angle: 38°

Energy efficiency class: A++ to A

This luminaire contains incorporated and
non-exchangeable LED light sources.

Article-No.	Colour of cabinet	Colour temperature	Flux
12262023	chrome	2700 K	710 lm
12262073	white	2700 K	710 lm
12262253	alu satin	2700 K	710 lm
12262633	champagne satin	2700 K	710 lm
12262643	titanium satin**	2700 K	710 lm
12362023	chrome	3000 K	750 lm
12362073	white	3000 K	750 lm
12362253	alu satin	3000 K	750 lm
12362633	champagne satin	3000 K	750 lm
12362643	titanium satin**	3000 K	750 lm

**as shown in picture



LED set, including driver

Incl. light source: 1 x LED, power: 7 W,
material: aluminium / clear glass, beam angle: 38°,
incl. driver for 230 V-connection, not dimmable,
dimensions of driver: l 68 x w 35 x h 21 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and
non-exchangeable LED light sources.

Article-No.	Colour of cabinet	Colour temperature	Flux
33262023	chrome	2700 K	710 lm
33262073	white	2700 K	710 lm
33262253	alu satin	2700 K	710 lm
33262633	champagne satin	2700 K	710 lm
33262643	titanium satin**	2700 K	710 lm
33362023	chrome	3000 K	750 lm
33362073	white	3000 K	750 lm
33362253	alu satin	3000 K	750 lm
33362633	champagne satin	3000 K	750 lm
33362643	titanium satin**	3000 K	750 lm

*for the luminaire
included in the set

LED set, including driver, dimmable

Incl. light source: 1 x LED, power: 7 W,
material: aluminium / clear glass, beam angle: 38°,
incl. driver for 230 V-connection, dimmable,
dimensions of driver: l 122 x w 39 x h 18 mm

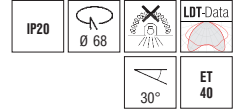
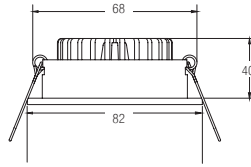
Energy efficiency class: A++ to A

This luminaire contains incorporated and
non-exchangeable LED light sources.

Article-No.	Colour of cabinet	Colour temperature	Flux
34262023	chrome	2700 K	710 lm
34262073	white	2700 K	710 lm
34262253	alu satin	2700 K	710 lm
34262633	champagne satin	2700 K	710 lm
34262643	titanium satin**	2700 K	710 lm
34362023	chrome	3000 K	750 lm
34362073	white	3000 K	750 lm
34362253	alu satin	3000 K	750 lm
34362633	champagne satin	3000 K	750 lm
34362643	titanium satin**	3000 K	750 lm

*for the luminaire
included in the set

12251... / 33251...
LED recessed spots



NEW

New Colours

Base model LED 350 mA

Incl. light source: 1 x LED, power: 3 W, beam angle: 38°, material: aluminium / clear glass

Dimmable driver see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of cabinet	Colour temperature
12251023	chrome	2700 K
12251073	white	2700 K
12251253	alu satin	2700 K
12251633	champagne satin	2700 K
12251643	titanium satin	2700 K



LED set, including driver

Incl. light source: 1 x LED, power: 3 W, beam angle: 38°, material: aluminium / clear glass, beam angle: 38°, incl. driver for 230 V-connection, not dimmable, dimensions of driver: l 68 x w 35 x h 21 mm

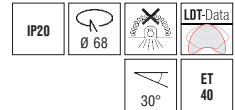
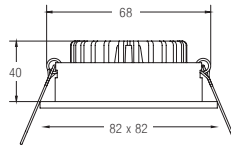
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of cabinet	Colour temperature
33251023	chrome	2700 K
33251073	white	2700 K
33251253	alu satin	2700 K
33251633	champagne satin	2700 K
33251643	titanium satin	2700 K



12252... / 33252...
LED recessed spots



NEW

New Colours

Base model LED 350 mA

Incl. light source: 1 x LED, power: 3 W, beam angle: 38°, material: aluminium / clear glass

Dimmable driver see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of cabinet	Colour temperature
12252023	chrome	2700 K
12252073	white	2700 K
12252253	alu satin	2700 K
12252633	champagne satin	2700 K
12252643	titanium satin	2700 K



LED set, including driver

Incl. light source: 1 x LED, power: 3 W, beam angle: 38°, material: aluminium / clear glass, beam angle: 38°, incl. driver for 230 V-connection, not dimmable, dimensions of driver: l 68 x w 35 x h 21 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

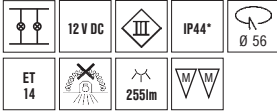
Article-No.	Colour of cabinet	Colour temperature
33252023	chrome	2700 K
33252073	white	2700 K
33252253	alu satin	2700 K
33252633	champagne satin	2700 K
33252643	titanium satin	2700 K



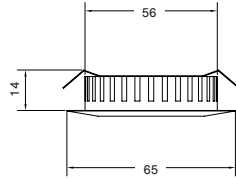
*for the luminaire included in the set

12109...

LED recessed furniture spot



*IP44 if installed in closed ceilings



NEW

Specification

Incl. light source: 1x LED, power 3.4 W, beam angle: 60°,
material: diecast zinc / plastic satin, with 2,000 mm supply line

Driver see page 643.

Energy efficiency class: A++ to A

This luminaire contains incorporated and
non-exchangeable LED light sources.

Article-No.	Colour of cabinet	Colour temperature
12109023	chrome	3000 K
12109153	nickel satin	3000 K

Equipment base element (height 15 mm)

81019020	chrome
81019150	nickel satin

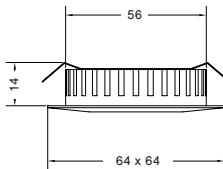


12110...

LED recessed furniture spot



*IP44 if installed in closed ceilings



NEW

Specification

Incl. light source: 1x LED, power 3.4 W, beam angle: 60°,
material: diecast zinc / plastic satin, with 2,000 mm supply line

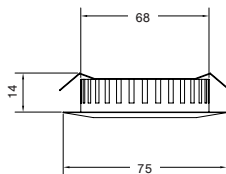
Driver see page 643.

Energy efficiency class: A++ to A

This luminaire contains incorporated and
non-exchangeable LED light sources.

Article-No.	Colour of cabinet	Colour temperature
12110023	chrome	3000 K
12110157	nickel satin	3000 K

12127..
LED recessed furniture spot



*IP44 if installed in closed ceilings

NEW

Specification

Incl. light source: 1 x LED, power 5 W, beam angle: 60°, material: diecast aluminium / plastic satin, with 2,000 mm supply line

Driver see page 643.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No. Colour of cabinet Colour temperature

12127023	chrome	3000 K	●
12127153	nickel satin	3000 K	●

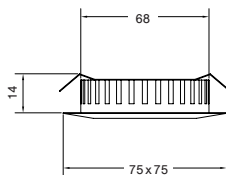
Accessories bottom-mounted housing (height 15mm)

Article-No. Colour of cabinet Price €

81029020	chrom	12.40
81029150	nickel satin	12.40



12128...
LED recessed furniture spot



*IP44 if installed in closed ceilings

NEW

Specification

Incl. light source: 1 x LED, power 5 W, beam angle: 60°, material: diecast aluminium / plastic satin, with 2,000 mm supply line

Driver see page 643.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No. Colour of cabinet Colour temperature

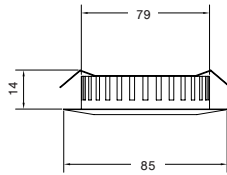
12128023	chrome	3000 K	●
12128153	nickel satin	3000 K	●

12129...

LED recessed furniture spot



*IP44 if installed in closed ceilings



NEW

Specification

Incl. light source: 1 x LED, power 7,5 W, beam angle: 60°,
material: diecast aluminium / plastic satin, with 2,000 mm supply line

Driver see page 643.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

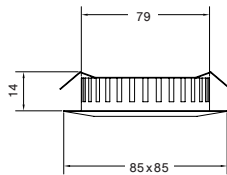
Article-No.	Colour of cabinet	Colour temperature
12129023	chrome	3000 K
12129153	nickel satin	3000 K

Accessories bottom-mounted housing (height 15mm)

Article-No.	Colour of cabinet	Price €
81039020	chrome	14.70
81039150	nickel satin	14.70



*IP44 if installed in closed ceilings

12130...
LED recessed furniture spot

NEW

Specification

Incl. light source: 1 x LED, power 7,5 W, beam angle: 60°,
material: diecast aluminium / plastic satin, with 2,000 mm supply line

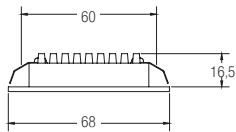
Driver see page 643.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of cabinet	Colour temperature
12130023	chrome	3000 K
12130153	nickel satin	3000 K

12090.... LED recessed furniture spot



NEW

Specification

Incl. light source: 1 x LED, power: 3 W, beam angle: 150°; material: aluminium / plastic

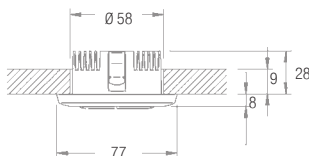
Driver see page 628.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of cabinet	Colour temperature
12090073	white	3000 K ●
12090083	black	3000 K ●
12090623	polished brushed aluminium	3000 K ●

12091263 Recessed LED furniture spot



Specification

Incl. light source: LED, power 3,7 W, beam angle: 50°; material: aluminium / plastic

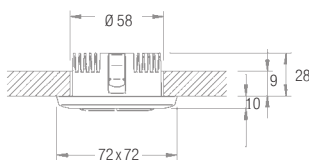
Driver see page 643.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
12091263	titan	3200 K ●

12092263 Recessed LED furniture spot



Specification

Incl. light source: LED, power 3,7 W, beam angle: 50°; material: aluminium / plastic

Driver see pag 643.

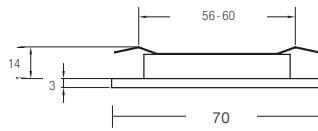
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
12092263	titan	3200 K ●

12027153

LED recessed furniture spot



Specification

Incl. light source: LED, power: about 2 W,
beam angle: 45°, material: cast / plastic, pluggable system

See suitable accessories on the page 643.

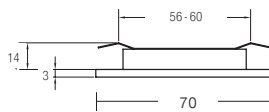
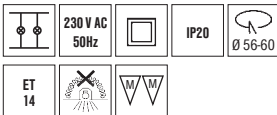
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
12027153	titan	3000 K ●

12171153

trifold LED furniture set



Specification

Set comes with: 3 x luminaire, incl. 2000 mm connection wire, 1 x splitter, 1 x driver
Incl. light source: 3 x LED, power: 3 x 2 W, material: cast / plastic, beam angle: 45°,
plug + play system, dimensions LED power supply: l 123 x w 39 x h 19 mm

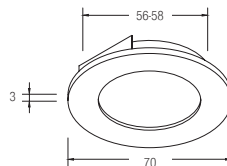
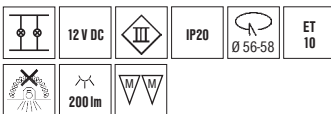
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
12171153	titan	3000 K ●

12093...

Recessed LED furniture spot



Specification

Incl. light source: LED, power 3,5 W, beam angle: 120°,
material: aluminium / plastic

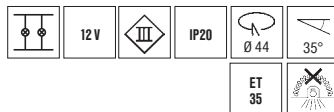
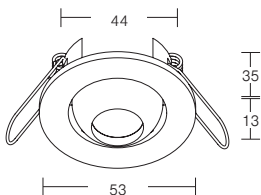
Driver see page 643.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
12093263	titan	3200 K ●
12093264	titan	4000 K ●
12093265	titan	5500 K ○

2269.15 Low - voltage spot for showcases



Specification

For lamp: 1 x G4 QT9, power: max. 20 W, material: cast delivery incl. AMP-plug

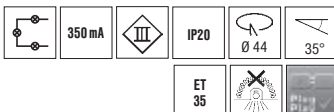
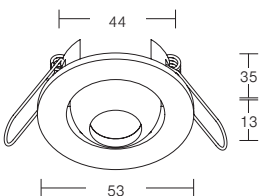
Delivery without lamp and transformer/driver/ballast AMP-accessories see page 649. Driver see page 645.

Energy efficiency class: A+ to C

Article-no. Colour of cabinet

2269.15 nickel satin

P2269WW LED-recessed furniture light



Specification

Incl. light source: 1 x power LED, power: approx. 1,0 W, beam angle: 15°, material: cast, Installation in suspended ceilings by leaf spring fixation

Driver see page 628.

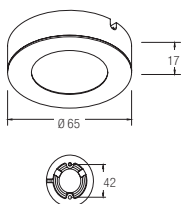
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no. Colour of cabinet Colour temperature

P2269WW nickel satin 3100 K ●

12078... LED recessed furniture or surface mounted LED spot



(cut out 54mm) Available as recessed spot. Installation depth 16mm when recessed spot.

Specification

Incl. light source: LED, power 3,6 W, beam angle: 100°, material: aluminium / plastic

Driver see page 628.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no. Colour of cabinet Colour temperature

12078073 white 3000 K ●

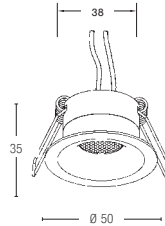
12078253 alu satin 3000 K ●

12079...

Recessed LED spot



*IP44 if installed in closed ceilings



Hint:
A natural oxidation
of copper is possible.



New Colour

NEW

Specification

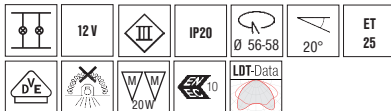
Incl. light source: 1 x LED, power 4 W

Driver see page 628.

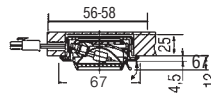
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Material	Colour of cabinet	Colour temperature
12079023	aluminium / stainless steel	chrome	3000 K ●
12079073	aluminium / stainless steel	white	3000 K ●
12079193	aluminium / copper	copper	3000 K ●



suitable for humid areas

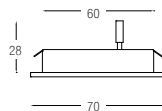
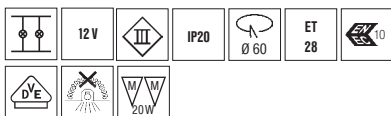
2461...
low - voltage recessed furniture spot

Specification

For low pressure lamp: 1 x G4 QT9, power: max. 20 W, material: thermoplastic / clear glass

Delivery incl. AMP-plug
AMP-accessories see page 649.
Driver see page 645.**Energy efficiency class: A+ to C**

Article-no.	Colour of cabinet
2461.02	chrome
2461.07	white
2461.26	steel satin

2455...
low - voltage recessed furniture spot

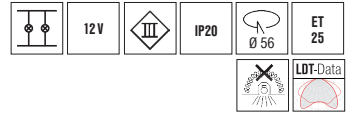
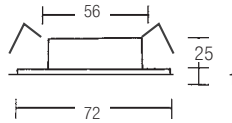
Specification

For lamp: 1 x G4 QT9, power: max. 20 W, material: thermoplastic / clear glass
delivery incl. 2000 mm electrical feeding (in)AMP-accessories see page 649.
Driver see page 645.**Energy efficiency class: A+ to C**

Article-no.	Colour of cabinet
2455.02	chrome
2455.05	gold
2455.26	steel satin

2358...

Low - voltage recessed furniture spot



Specification

For lamp: 1 x G4 QT9, power: max. 20 W,
material: steel / glass satin

Delivery incl. AMP-plug.
AMP-accessories see page 649.
Driver see page 645.

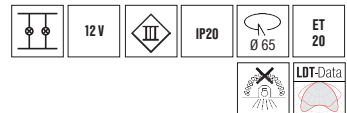
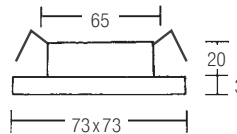
Energy efficiency class: A+ to C

Article-no. Colour of cabinet

2358.00	brass
2358.02	chrome
2358.07	white
2358.15	nickel satin

2359...

Low - voltage recessed furniture spot



Specification

For lamp: 1 x G4 QT9, power: max. 20 W,
material: steel / glass satin, cover magnetically fixed.

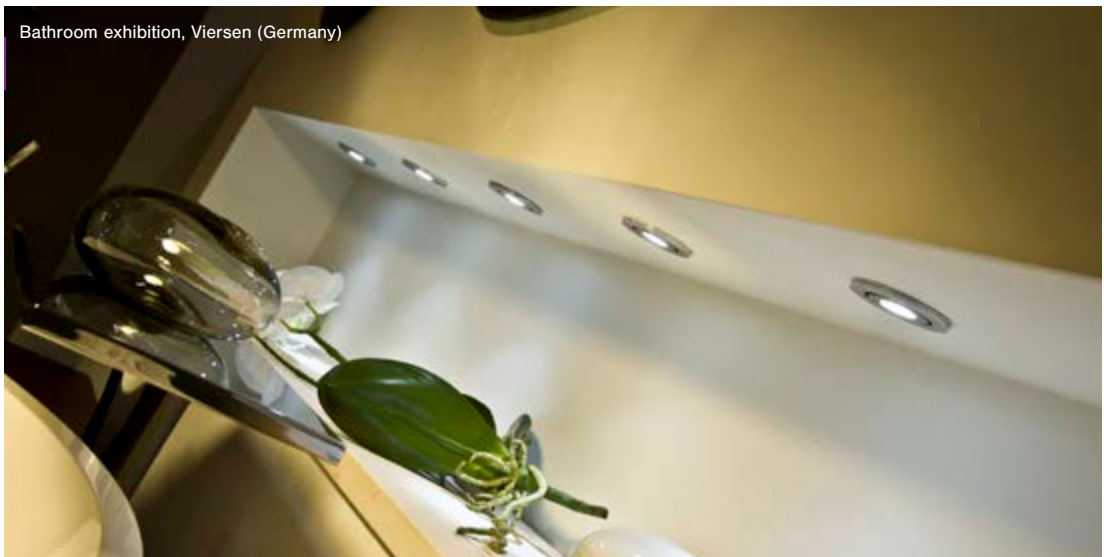
Delivery incl. AMP-plug
AMP-accessories see page 649.
Driver see page 645.

Energy efficiency class: A+ to C

Article-no. Colour of cabinet

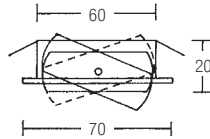
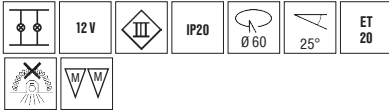
2359.00	brass
2359.02	chrome
2359.07	white
2359.15	nickel satin

Bathroom exhibition, Viersen (Germany)



2073...

Low - voltage recessed furniture spot



Specification

For lamp: 1 x G4 QT9, power: max. 10 W,
material: thermoplastic / steel / clear glass

Delivery incl. AMP-plug.
AMP-accessories see page 649.
Driver see page 645.

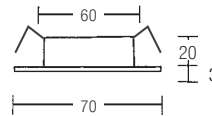
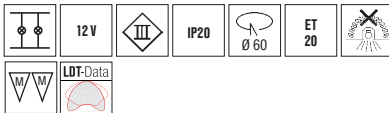
Article-no. Colour of cabinet

2073.02	chrome
2073.03	chrome satin
2073.05	gold
2073.07	white

Energy efficiency class: A+ to C

2070...

Low - voltage recessed furniture spot



Specification

For lamp: 1 x G4 QT9, power: max. 10 W,
material: thermoplastic / steel / clear glass

Delivery incl. AMP-plug.
AMP-accessories see page 649.
Driver see page 645.

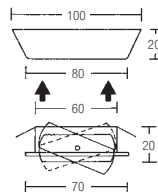
Article-no. Colour of cabinet

2070.02	chrome
2070.03	chrome satin
2070.05	gold
2070.07	white

Energy efficiency class: A+ to C

5370...

Surface ring for art.-no 2070 / 2073



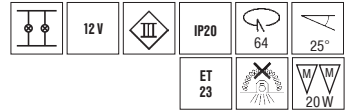
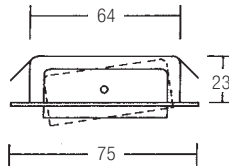
Specification

surface-mount ring for 2073 / 2070
material: steel

Article-no. Colour of cabinet

5370.02	chrome
5370.03	chrome satin
5370.05	gold
5370.07	white

2037...
Low - voltage recessed furniture light



Specification

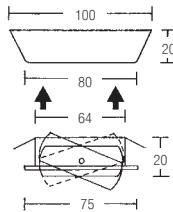
For lamp: 1 x G4 QT9, power: max. 20 W

Delivery incl. AMP-plug
AMP-accessories see page 649.
Driver see page 645.

Energy efficiency class: A+ to C

Article-no.	Colour of cabinet	Material
2037.00	brass	steel / clear glass
2037.02	chrome	steel / clear glass
2037.03	chrome satin	steel / clear glass
2037.07	white	steel / clear glass
2037.22	stainless steel	stainless steel / clear glass

5372.22
Surface ring for art.-no. 2037.22



Specification

ring for art.-no. 2037.22
material: stainless steel

Article-no.	Colour of cabinet
5372.22	stainless steel

Private home, Sundern (Germany)





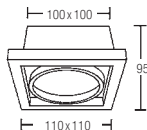
recessed

ceiling cardanic



512541 / 12161253 / 33161253

Recessed cardanic spot



Base model low-voltage

For low voltage lamp: 1 x GX5,3 QRCBC51, power: max. 50 W, material: aluminium

Driver see page 645.

Energy efficiency class: A to C

Article-no. Colour of cabinet

512541 brushed alu



Base model LED 350 mA

Incl. light source: 1 x LED, power: 6,6 W, beam angle: 38°, material: aluminium / clear glass

Dimmable drivers see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
12161253	brushed alu	2700 K ●

Modular construction: further light colors and power outputs are available on demand



LED-Set, including driver

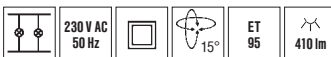
Incl. light source: 1 x LED, power: 6,6 W, beam angle: 38°, material: aluminium / clear glass, incl. driver for 230V-connection, not dimmable, dimension driver: l 68 x w 35 x h 21 mm

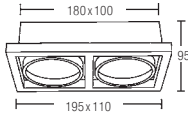
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
33161253	brushed alu	2700 K ●

Modular construction: further light colors and power outputs are available on demand



512542 / 12162253 / 33162253
Recessed cardanic spot

Base model low-voltage

For low voltage lamp: 2 x GX5,3 QRCBC51, power: max. 2 x 50 W,
material: aluminium

Driver see page 645.

Energy efficiency class: A to C

Article-no. Colour of cabinet

512542 brushed alu



Base model LED 350 mA

Incl. light source: 2 x LED, power: 2 x 6,6 W, beam angle: 38°,
material: aluminium / clear glass

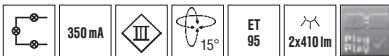
Dimmable drivers see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and
non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
12162253	brushed alu	2700 K ●

Modular construction: further light colors and
power outputs are available on demand



LED-Set, including driver

Incl. light source: 2 x LED, power: 2x 6,6 W, beam angle: 38°,
material: aluminium / clear glass, incl. driver for 230V-connection,
not dimmable, dimension driver: l 145 x w 50 x h 22 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and
non-exchangeable LED light sources.

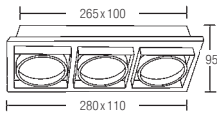
Article-no.	Colour of cabinet	Colour temperature
33162253	brushed alu	2700 K ●

Modular construction: further light colors and
power outputs are available on demand



Conference room fence manufacturer, Arnsberg (Germany)



512543 / 12163253 / 33163253
Recessed cardanic spot

Base model low-voltage

For low voltage lamp: 3 x GX5,3 QRBCBC51, power: max. 3 x 50 W, material: aluminium

Driver see page 645.

Energy efficiency class: A to C

Article-no. Colour of cabinet

512543 brushed alu



Base model LED 350 mA

Incl. light source: 3 x LED, power: 3 x 6,6 W, beam angle: 38°, material: aluminium / clear glass,

Dimmable drivers on page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
12163253	brushed alu	2700 K ●

Modular construction: further light colors and power outputs are available on demand



LED-Set, including driver

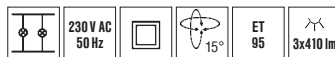
Incl. light source: 3 x LED, power: 3 x 6,6 W, beam angle: 38°, material: aluminium / clear glass, incl. driver for 230V-connection, not dimmable, dimension driver: l 145 x w 50 x h 22 mm

Energy efficiency class: A++ to A

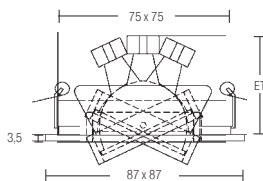
This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
33163253	brushed alu	2700 K ●

Modular construction: further light colors and power outputs are available on demand



20001... / 12157... / 33157...
Recessed cardanic spot



Base model low-voltage

For low voltage lamp: 1 x GX5,3 QRCBC51, power: max. 50 W, material: aluminium

Driver see page 645.

Energy efficiency class: A to C

Article-no. Colour of cabinet

20001070 white

20001250 alu satin



Base model LED 350 mA

Incl. light source: 1 x LED, power: 6,6 W, beam angle: 38°, material: aluminium / clear glass,

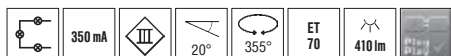
Dimmable drivers see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
12157073	white	2700 K ●
12157253	alu satin	2700 K ●

Modular construction: further light colors and power outputs are available on demand



LED-Set, including driver

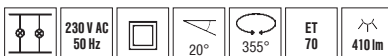
Incl. light source: 1 x LED, power: 6,6 W, beam angle: 38°, material: aluminium / clear glass, incl. incl. driver for 230V-connection, not dimmable, dimension driver: l 68 x w 35 x h 21 mm

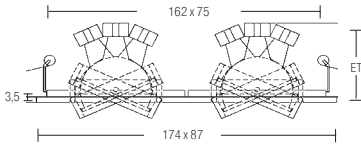
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
33157073	white	2700 K ●
33157253	alu satin	2700 K ●

Modular construction: further light colors and power outputs are available on demand



20002... / 12158... / 33158...
Recessed cardanic spot

Base model low-voltage

Incl. low voltage lamp: 2 x GX5,3 QRCBC51, power: max. 2 x 50 W,
material: aluminium

Driver see page 645.

Energy efficiency class: A to C

Article-no. Colour of cabinet

20002070 white

20002250 alu satin



Base model LED 350 mA

Incl. light source: 2 x LED, power: 2 x 6,6 W, beam angle: 38°,
material: aluminium / clear glass

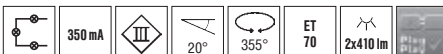
Dimmable drivers see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and
non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
12158073	white	2700 K
12158253	alu satin	2700 K

Modular construction: further light colors and
power outputs are available on demand



LED-Set, including driver

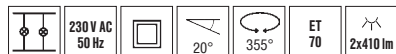
Incl. light source: 2 x LED, power: 2 x 6,6 W, beam angle: 38°,
material: aluminium / clear glass, incl. driver for 230V-connection,
not dimmable, dimension driver: l 145 x w 50 x h 22 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and
non-exchangeable LED light sources.

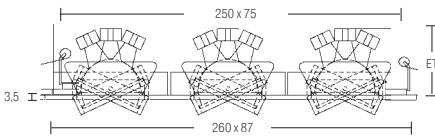
Article-no.	Colour of cabinet	Colour temperature
33158073	white	2700 K
33158253	alu satin	2700 K

Modular construction: further light colors and
power outputs are available on demand





Schwarte Haustechnik, Hüven (Germany)

20003... / 12159... / 33159...
Recessed cardanic spot

Base model low-voltage

For low voltage lamp: 3 x GX5,3 QRCBC51, power: max. 3 x 50 W,
material: aluminium

Driver see page 645.

Energy efficiency class: A to C

Article-no. Colour of cabinet

20003070 white

20003250 alu satin



Base model LED 350 mA

Incl. light source: 3 x LED, power: 3 x 6,6 W, beam angle: 38°,
material: aluminium / clear glass

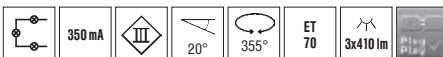
Dimmable drivers see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and
non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
12159073	white	2700 K
12159253	alu satin	2700 K

Modular construction: further light colors and
power outputs are available on demand



LED-Set, including driver

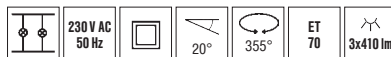
Incl. light source: 3 x LED, power: 3 x 6,6 W, beam angle: 38°,
material: aluminium, incl. incl. driver for 230V-connection, not dimmable,
dimension driver: l 145 x w 50 x h 22 mm

Energy efficiency class: A++ to A

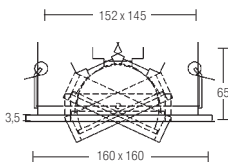
This luminaire contains incorporated and
non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
33159073	white	2700 K
33159253	alu satin	2700 K

Modular construction: further light colors and
power outputs are available on demand



20004... Recessed cardanic low - voltage spot



Specification

For lamp: 1 x G53 QR-LP111, power: max. 50 W, material: aluminium

Energy efficiency class: A to C

Driver see page 645.

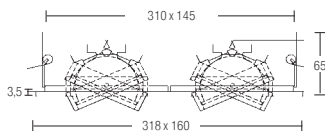
Suitable LED-inserts see page 370.

Article-no. Colour of cabinet

20004070 white

20004250 alu satin

20005... Recessed cardanic low - voltage spot



Specification

For lamp: 2 x G53 QR-LP111, power: max. 2 x 50 W, material: aluminium

Energy efficiency class: A to C

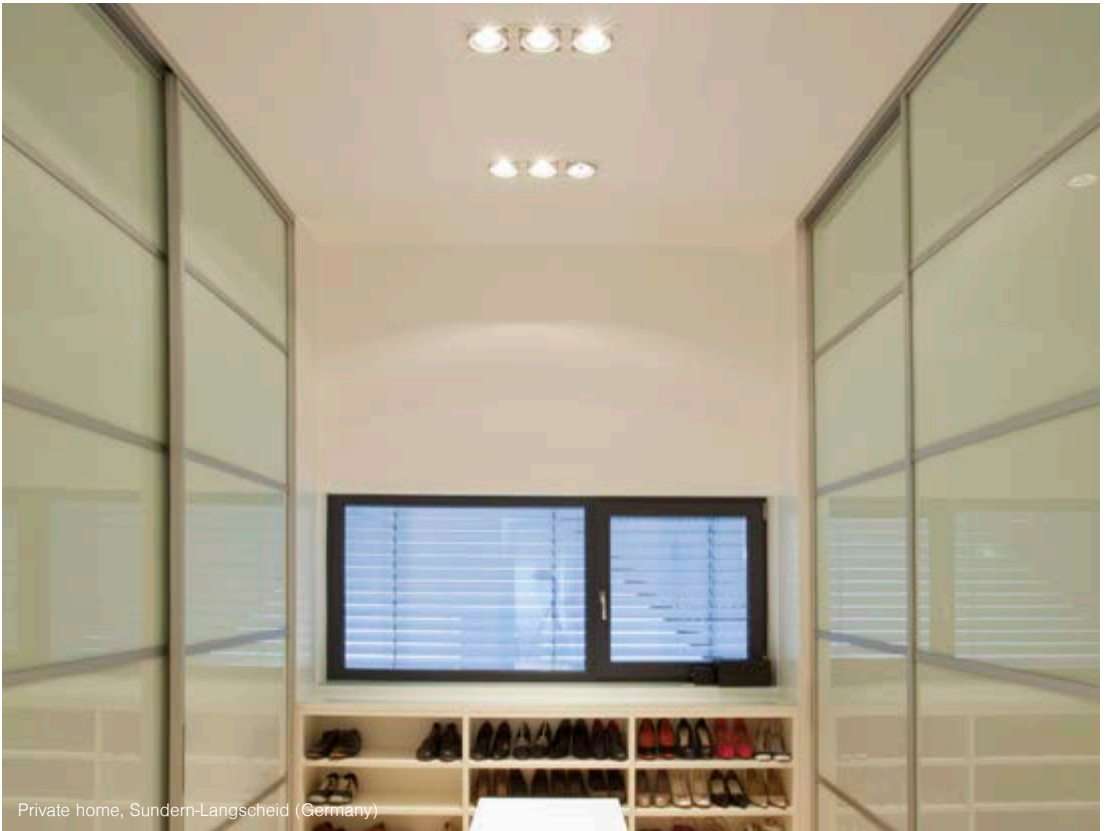
Driver see page 645.

Suitable LED-inserts see page 370.

Article-no. Colour of cabinet

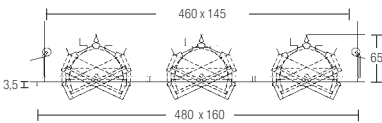
20005070 white

20005250 alu satin



Private home, Sundern-Langscheid (Germany)

20006... | Recessed cardanic low - voltage spot



Specification

For lamp: 3x G53 QR-LP111, power: max. 3x 50 W, material: aluminium

Energy efficiency class: A to C

Electronic transformers see page 645.

Suitable LED-inserts see page 370.

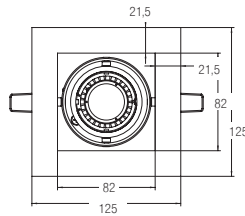
Article-no. Colour of cabinet

20006070 white

20006250 alu satin

46001... / 88454173

Recessed cardanic spot



Modular construction: further light colors and power outputs are available on demand (88454173)

Base model low-voltage

For lamp: 1 x GX5,3 QRCBC51, power: max. 1 x 50 W
material: steel

Different RAL colours on request.
delivery without lamp and without driver

Electronic transformers see page 645.

Energy efficiency class: A to C

Article-no.	Colour of cabinet
46001020	chrome
46001170	textured white



LED-Set, including driver

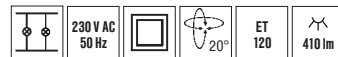
Incl. light source: LED, power: 1 x 6,6 W, beam angle: 38°,
material: steel / aluminium / clear glass, incl. driver for 230V-connection,
not dimmable, dimensions driver: L68 x B35 x H21 mm

Different RAL colours on request. Inclusive light source and separate driver.

Energy efficiency class: A++ to A

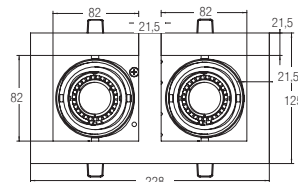
This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
88454173	textured white	2700 K ●



46004... / 88457173

Recessed cardanic spot



Modular construction: further light colors and power outputs are available on demand (88457173)

Base model low-voltage

For lamp: 2 x GX5,3 QRCBC51, power: max. 2 x 50 W
material: steel

Different RAL colours on request.
delivery without lamp and without driver

Electronic transformers see page 645.

Energy efficiency class: A to C

Article-no.	Colour of cabinet
46004020	chrome
46004170	textured white



LED-Set, including driver

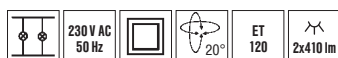
Incl. light source: 2 x LED, power: 2 x 6,6 W, beam angle: 38°,
material: steel / aluminium / clear glass, incl. driver for 230V-connection, not
dimmable, dimensions driver: L145 x B50 x H22 mm

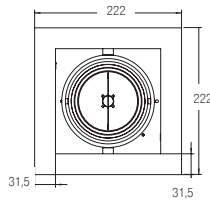
Different RAL colours on request. Inclusive light source and separate driver.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
88457173	textured white	2700 K ●



46007... / 8846...
Recessed cardanic spot

Base model low-voltage

For low voltage lamp: 1 x G53 QR-LP111, power: max. 1 x 50 W, material: steel

Different RAL colours on request.
delivery without lamp and without driver

Drivers see page 645.

Energy efficiency class: A to C

Article-no.	Colour of cabinet
46007020	chrome
46007170	textured white



LED-Set, including driver

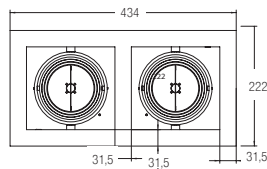
Incl. light source: 1 x LED, power: 1 x 31 W, material: steel / aluminium, incl. driver for 230V-connection, not dimmable, dimensions driver: L180 x B32 x H32 mm

Different RAL colours on request.
Inclusive light source and separate driver.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature	Beam pattern
88461173	textured white	3000 K	18° (SP)
88462173	textured white	3000 K	30° (MF)
88463173	textured white	3000 K	50° (FL)

46010... / 8846...
Recessed cardanic spot

Base model low-voltage

For low voltage lamp: 2 x G53 QR-LP111, power: max. 2 x 50 W, material: steel

Different RAL colours on request.
delivery without lamp and without driver

Drivers see page 645.

Energy efficiency class: A to C

Article-no.	Colour of cabinet
46010020	chrome
46010170	textured white



LED-Set, including driver

Incl. light source: 2 x LED, power: 2 x 31 W, material: steel / aluminium, incl. 2 x driver for 230V-connection, not dimmable, dimensions driver: L180 x B32 x H32 mm

Different RAL colours on request.
Inclusive light source and separate drivers.

Energy efficiency class: A++ to A

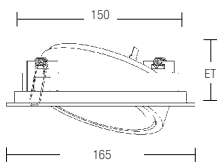
This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature	Beam pattern
88464173	textured white	3000 K	18° (SP)
88465173	textured white	3000 K	30° (MF)
88466173	textured white	3000 K	50° (FL)



512474 / 20014070 / 12132...

Recessed cardanic spot



Base model low-voltage

For lamp: 1 x G53 QR-LP111, power: max. 1 x 50 W
material: aluminium, with tension spring

Delivery without lamp and driver

Driver see page 645.

Energy efficiency class: A to C

Article-no.	Colour of cabinet
20014070	white
512474	alu satin



Base model LED 1000 mA

Incl. light source: 1 x LED, power: 1 x 31 W, material: aluminium, with thrust spring

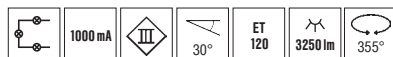
Driver see page 638.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

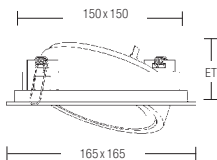
Other beam pattern on demand.

Article-no.	Colour of cabinet	Colour temperature	Beam pattern
12132073	white	3000 K	30° (FL)
12132253	alu satin	3000 K	30° (FL)



512475 / 20015070 / 12133...

Recessed cardanic spot



Base model low-voltage

For lamp: 1 x G53 QR-LP111, power: max. 1 x 50 W
material: aluminium, with tension spring

Delivery without lamp and driver

Driver see page 645.

Energy efficiency class: A to C

Article-no.	Colour of cabinet
20015070	white
512475	alu satin



Base model LED 1000 mA

Incl. light source: 1 x LED, power: 1 x 31 W, material: aluminium, with thrust spring

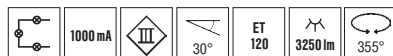
Driver see page.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Other beam pattern on demand.

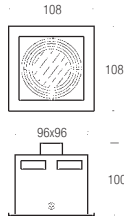
Article-no.	Colour of cabinet	Colour temperature	Beam pattern
12133073	white	3000 K	30° (FL)
12133253	alu satin	3000 K	30° (FL)



0°-8° = SSP (Super Spot), 9°-18° = SP (Spot), 19°-29° = MF (Medium Flood), 30°-45° = FL (Flood), 46°-60° = WFL (Wide Flood)

512411

Recessed cardanic low - voltage spot



Specification

For lamp: 1x GX5,3 QRBC51, power: max. 50 W, material: cast

Luminaire should not be installed into socket- or installation box.

Driver see page 645.

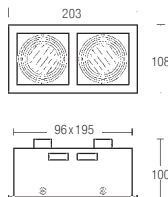
Energy efficiency class: A to C

Article-no. Colour of cabinet

512411 silver-grey

512412

Recessed cardanic low - voltage spot



Specification

For lamp: 2x GX5,3 QRBC51, power: max. 2 x 50 W, material: cast

Luminaire should not be installed into socket- or installation box.

Driver see page 645.

Energy efficiency class: A to C

Article-no. Colour of cabinet

512412 silver-grey

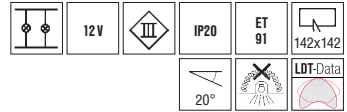
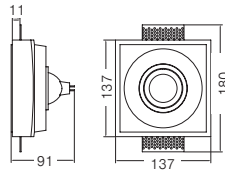


recessed

ceiling frameless



44007000 Concealed plaster luminaire frameless



Specification

For low voltage lamp: 1 x GX5,3 QRCB51, power: max. 50 W, frameless, material: plaster / aluminium cast

Driver see page 645.

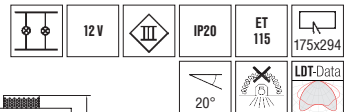
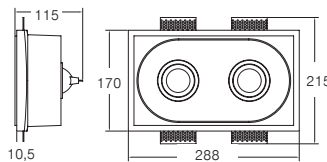
 Useable in plasterboard ceilings with thickness 12,5 mm.

Energy efficiency class: A to C

Article-no. Colour of cabinet

44007000 white

44008000 Concealed plaster luminaire frameless



Specification

For low voltage lamp: 2 x GX5,3 QRCB51, power: max. 2 x 50 W, frameless, material: plaster / aluminium cast

Driver see page 645.

 Useable in plasterboard ceilings with thickness 12,5 mm.

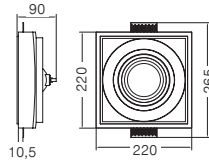
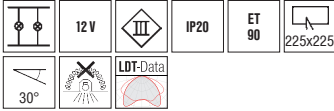
Energy efficiency class: A to C

Article-no. Colour of cabinet

44008000 white

44005000

Concealed plaster luminaire frameless



Specification

For lamp: 1x G53 QR-LP111, power: max. 50 W, frameless, material: plaster / aluminium cast

Article-no. Colour of cabinet

44005000 white

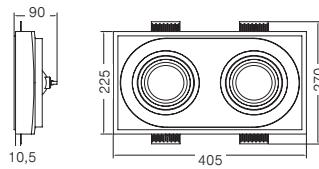
Driver see page 645.

⚠ Useable in plasterboard ceilings with thickness 12,5 mm.

Energy efficiency class: A+ to C

44006000

Concealed plaster luminaire frameless



Specification

For lamp: 2x G53 QR-LP111, power: max. 50 W, frameless, material: plaster / aluminium cast

Article-no. Colour of cabinet

44006000 white

Driver see page 645.

⚠ Useable in plasterboard ceilings with thickness 12,5 mm.

Energy efficiency class: A+ to C

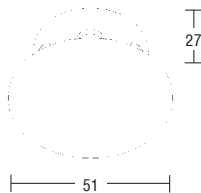


recessed

ceiling loudspeaker



3096... Ø51 mm speaker inlay without transformer



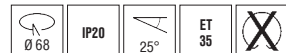
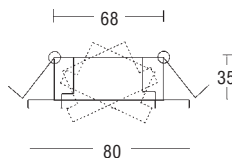
Specification

power rating:	3 / 4 W
impedance:	20 Ohm (it is possible to connect up to 5 speakers in parallel of one channel of a hi-fi-unit)
sound pressure level:	1 W / 1 m: 82 dB (by rated burden 87 dB)
frequency response: (-3 db):	200 - 16.000 Hz
frequency response: (-10 db):	150 - 20.000 Hz
specification:	perforated metal sheet cover white or chrome-metalized
net weight:	0,06 kg
technical features:	Mounting by catch spring. Connection with 2-pole cord and terminal clamp.

article-no.	perforated cover
3096.02	chrome
3096.07	white

Suitable for most low-voltage-spots for QR-CBC51.

3093... recessed speaker, cut - out 68 mm



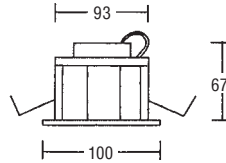
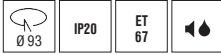
Specification

power rating:	3 / 4 W
impedance:	20 Ohm (it is possible to connect up to 5 speakers in parallel of one channel of a hi-fi-unit)
sound pressure level:	1 W / 1 m: 82 dB (by rated burden 87 dB)
frequency response: (-3 db):	200 - 16.000 Hz
frequency response: (-10 db):	150 - 20.000 Hz
specification:	front ring (steel) and perforated metal sheet cover white or chrome-metalized
net weight:	0,14 kg
technical features:	Mounting by catch spring. Connection with 2-pole cord and terminal clamp.

article-no.	cover
3093.02	chrome
3093.07	white
3093.15	nickel satin

3090...

recessed speaker with transformer 100V for ELA-installation



Specification

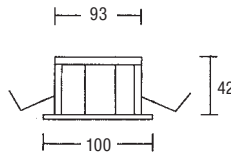
power rating: 6 W
 100V-transformer: 6 / 3 / 1,5 W
 sound pressure level: 1 W / 1 m: 86 dB (by rated burden 94 dB)
 frequency response: (-3 db): 250 - 20.000 Hz
 frequency response: (-10 db): 170 - 21.000 Hz
 specification: Front ring (plastic) and perforated metal sheet cover white or chrome-metalized

net weight: 0,6 kg
 technical features: Mounting by catch spring. Connection with 2-pole cord and terminal clamp.

article-no.	cover
3090.02	chrome
3090.07	white

Impregnated membrane:

limited damp proofing. Not for permanent use in outdoor areas.



3092...

recessed speaker without transformer

Specification

power rating: 6 / 8 W
 impedance: 8 Ohm
 sound pressure level: 1 W / 1 m: 86 dB (by rated burden 94 dB)
 frequency response: (-3 db): 250 - 20.000 Hz
 frequency response: (-10 db): 170 - 21.000 Hz
 specification: Front ring (plastic) and perforated metal sheet cover in chrome, white or steel satin

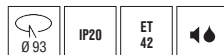
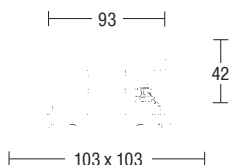
net weight: 0,4 kg
 technical features: Mounting by catch spring. Connection with 2-pole cord and terminal clamp.

article-no.	cover
3092.02	chrome
3092.07	white
3092.26	steel satin

Impregnated membrane:

limited damp proofing. Not for permanent use in outdoor areas.

3083.07 recessed speaker without transformer



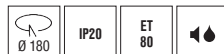
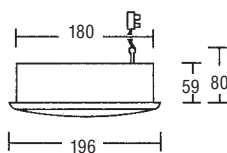
Specification

power rating:	6 / 8 W
impedance:	20 Ohm (it is possible to connect up to 5 speakers in parallel of one channel of a hi-fi-unit).
sound pressure level:	1 W / 1 m: 86 dB (by rated burden 94 dB)
frequency response: (-3 db):	250 - 20.000 Hz
frequency response: (-10 db):	170 - 21.000 Hz
specification:	Front ring and mounting ring consisting of plastic with perforated metal sheet cover in white
net weight:	0,4 kg
technical features:	Mounting by catch spring. Connection with 2-pole cord and terminal clamp.

article-no.	cover
3083.07	white

Impregnated membrane:
limited damp proofing. Not for permanent use in outdoor areas.

3094.07 recessed speaker without transformer



Specification

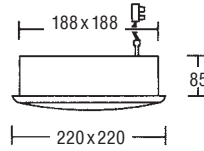
power rating:	40 / 50 W
impedance:	8 Ohm
sound pressure level:	1 W / 1 m: 90 dB (by rated burden 98 dB)
frequency response: (-3 db):	100 - 20.000 Hz
frequency response: (-10 db):	60 - 23.000 Hz
specification:	Front ring and mounting ring consisting of plastic with perforated metal sheet cover in white
net weight:	1,0 kg
technical features:	Installation for ceiling thicknesses from 1-20 mm. Connection with 2-pole cord terminal clamp.

article-no.	cover
3094.07	white

Impregnated membrane:
limited damp proofing. Not for permanent use in outdoor areas.

3084.07

recessed speaker without transformer



Specification

power rating:	40 / 50 W
impedance:	8 Ohm
sound pressure level:	1 W / 1 m: 89 dB (by rated burden 105 dB)
frequency response:(-3 db):	100 - 20.000 Hz
frequency response:(-10 db):	50 - 22.000 Hz
specification:	Front ring and mounting ring consisting of plastic with perforated metal sheet cover in white
net weight:	1,0 kg
technical features:	Installation for ceiling thicknesses from 7-32 mm. Connection with 2-pole cord terminal clamp.

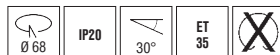
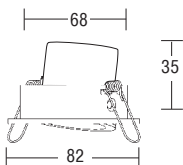
article-no.	cover
3084.07	white

Impregnated membrane:
limited damp proofing. Not for permanent use in outdoor areas.



43003250

recessed speaker, cut - out 68 mm



Specification

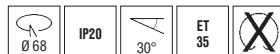
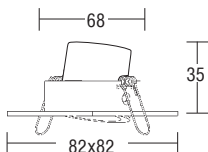
power rating:	3 / 4 W
impedance:	20 Ohm (it is possible to connect up to 5 speakers in parallel of one channel of a hi-fi-unit)
sound pressure level:	1 W / 1 m: 82 dB (by rated burden 87 dB)
frequency response (-3 db):	200 - 16.000 Hz
frequency response (-10 db):	150 - 20.000 Hz
specification:	front ring consisting of aluminium and perforated metal sheet cover in chrome - metalized.
net weight:	0,1 kg
technical features:	mounting by catch spring connection with 2-pole cord and terminal clamp

article-no.	cover
43003250	alu satin

Also available in white, champagne satin or titanium satin on request.

43004250

recessed speaker



Specification, cut - out 68 mm

power rating:	3 / 4 W
impedance:	20 Ohm (it is possible to connect up to 5 speakers in parallel of one channel of a hi-fi-unit)
sound pressure level:	1 W / 1 m: 82 dB (by rated burden 87 dB)
frequency response (-3 db):	200 - 16.000 Hz
frequency response (-10 db):	150 - 20.000 Hz
specification:	front ring consisting of aluminium and perforated metal sheet cover in chrome-metalized.
net weight:	0,1 kg
technical features:	mounting by catch spring connection' with 2-pole cord and terminal clamp

article-no.	cover
43004250	alu satin

Also available in white, champagne satin or titanium satin on request.



HDO Druckguss u. Oberflächentechnik GmbH, Paderborn (Germany)

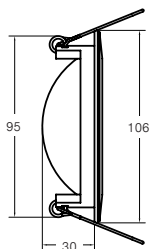


recessed

wall recessed



10063173 Recessed LED wall light



NEW

Specification

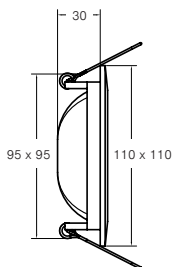
Incl. light source: LED, material: aluminium, incl. driver for 230 V-connection (l 52 x w 26 x h 22 mm)

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article no.	Colour of cabinet	Power	Colour temperature
10063173	texture white	1,2W	3000 K

10065173 Recessed LED wall light



NEW

Specification

Incl. light source: LED, material: aluminium, incl. driver for 230 V-connection (l 52 x w 26 x h 22 mm)

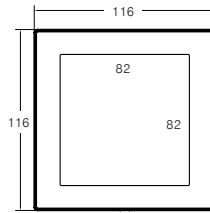
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article no.	Colour of cabinet	Power	Colour temperature
10065173	texture white	1,2W	3000 K

10035153...

Recessed LED wall light




Specification

Incl. light source: LED, material: aluminium, glass.
 Cover: peripherally black glass with light field 82 x 82 mm,
 incl. driver for 230 V-connection,
 incl. junction box Ø 68 mm / installation depth 65 mm, height 10 mm

Energy efficiency class: A++ to A

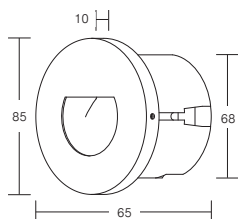
This luminaire contains incorporated and non-exchangeable LED light sources.

Article no.	Colour of cabinet	Power	Colour temperature
10035153	nickel satin	3,5 W	3000 K 



Bathideas - Mosecker, Rheda-Wiedernbrück (Germany)

R3928... Recessed LED wall light



Specification

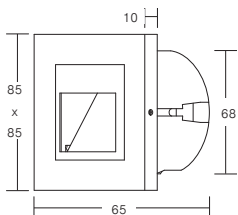
Incl. light source: LED, material: stainless steel / plastic / aluminium,
incl. driver for 230 V-connection,
incl. junction box Ø 68 mm / installation depth 65 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article no.	Colour of cabinet	Power	Colour temperature
R3928W	texture white	1,2 W	6500 K
R3928WW	texture white	1,2 W	3100 K
R3928B	texture white	1,2 W	
R3928R	texture white	1,2 W	
R3928Y	texture white	1,2 W	
R3928G	texture white	1,2 W	

R3929... Recessed LED wall light



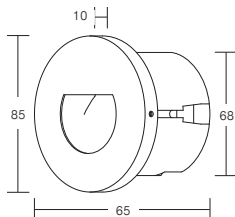
Specification

Incl. light source: LED, material: stainless steel / plastic / aluminium,
incl. driver for 230 V-connection,
incl. junction box Ø 68 mm / installation depth 65 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article no.	Colour of cabinet	Power	Colour temperature
R3929W	texture white	1,2 W	6500 K
R3929WW	texture white	1,2 W	3100 K
R3929B	texture white	1,2 W	
R3929R	texture white	1,2 W	
R3929Y	texture white	1,2 W	
R3929G	texture white	1,2 W	



101282... Recessed LED wall light



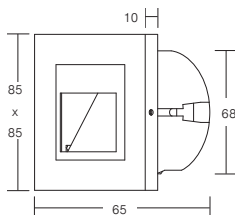
Specification

Incl. light source: LED, material: stainless steel / plastic / aluminium,
incl. driver for 230 V - connection,
incl. junction box Ø 68 mm / installation depth 65 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article no.	Colour of cabinet	Power	Colour temperature
10128205	stainless steel	1,2 W	6500 K
10128203	stainless steel	1,2 W	3100 K
10128208	stainless steel	1,2 W	
10128206	stainless steel	1,2 W	
10128209	stainless steel	1,2 W	
10128207	stainless steel	1,2 W	



101292... Recessed LED wall light



Specification

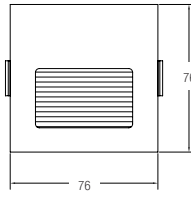
Incl. light source: LED, material: stainless steel / plastic / aluminium,
incl. driver for 230 V-connection,
incl. junction box Ø 68 mm / installation depth 65 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article no.	Colour of cabinet	Power	Colour temperature
10129205	stainless steel	1,2 W	6500 K
10129203	stainless steel	1,2 W	3100 K
10129208	stainless steel	1,2 W	
10129206	stainless steel	1,2 W	
10129209	stainless steel	1,2 W	
10129207	stainless steel	1,2 W	

10054253
Recessed LED wall light



Specification

Incl. light source: LED, material: aluminium

Driver see page 634.

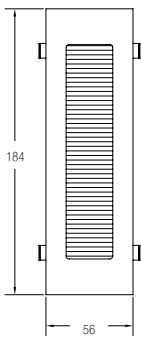
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article no.	Colour of cabinet	Power	Colour temperature
10054253	alu brushed	3W	3000 K

LED Competence Center, Heßdorf (Germany)



10055253
Recessed LED wall light

Specification

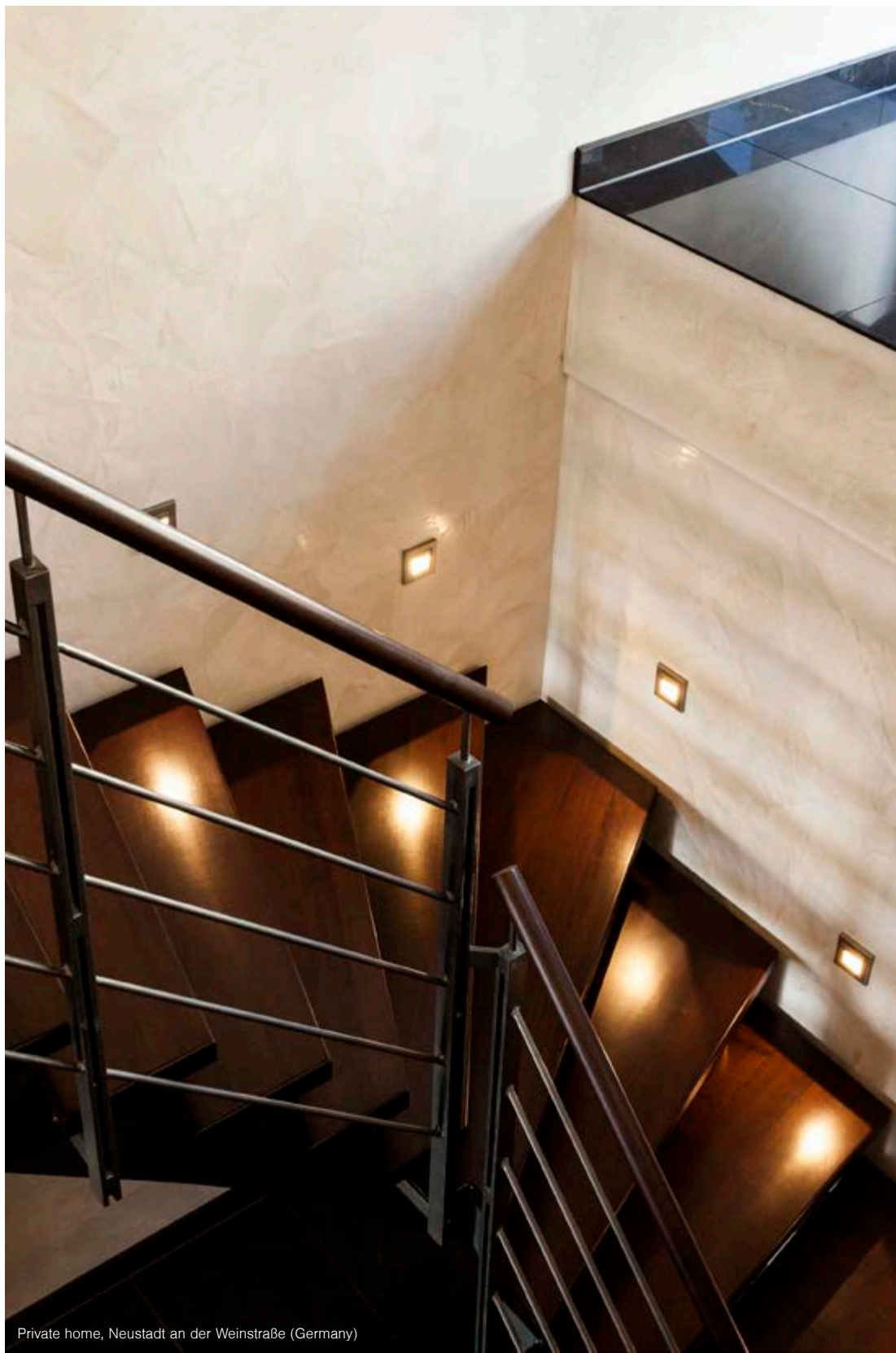
Incl. light source: LED, material: aluminium

Driver see page 634.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

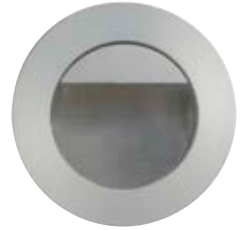
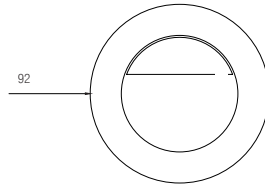
Article no.	Colour of cabinet	Power	Colour temperature
10055253	alu brushed	3W	3000 K 



Private home, Neustadt an der Weinstraße (Germany)

10065253

Recessed LED wall light



Specification

Incl. light source: LED, operating device and recessing box,
material: aluminium / steel / clear glass

INDOOR

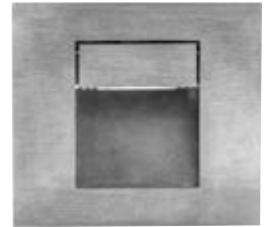
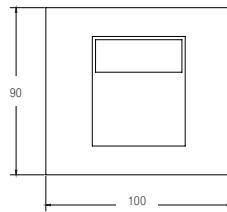
Energy efficiency class: A++ to A

This luminaire contains incorporated and
non-exchangeable LED light sources.

Article no.	Colour of cabinet	Power	Colour temperature
10065253	alu satin	1 W	3000 K

10066223

Recessed LED wall light



Specification

Incl. light source: LED, operating device and recessing box,
material: stainless steel / steel / clear glass

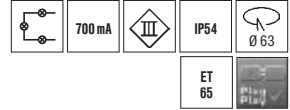
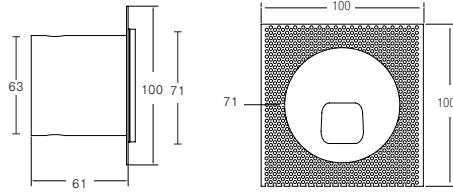
INDOOR

Energy efficiency class: A++ to A

This luminaire contains incorporated and
non-exchangeable LED light sources.

Article no.	Colour of cabinet	Power	Colour temperature
10066223	stainless steel	1 W	3000 K

10015173
 Recessed LED wall light with high degree of protection IP54



Specification

Incl. light source: LED, material: aluminium / steel / clear glass, asymmetric light beam

Delivery incl. recessing box and installation plate 100 x 100 mm.

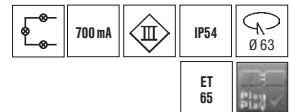
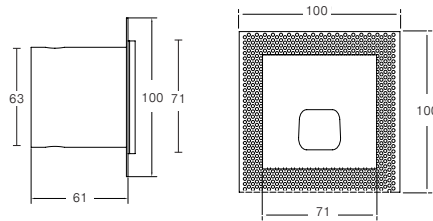
Driver see page 634.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article no.	Colour of cabinet	Power	Colour temperature
10015173	texture white	3W	3000 K

10016173
 Recessed LED wall light with high degree of protection IP54



Specification

Incl. light source: LED, material: aluminium / steel / clear glass, asymmetric light beam

Delivery incl. recessing box and installation plate 100 x 100 mm.

Driver see page 634.

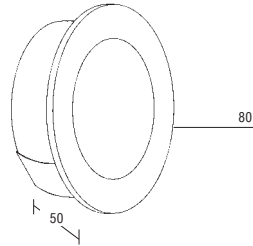
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article no.	Colour of cabinet	Power	Colour temperature
10016173	texture white	3W	3000 K

10057173

Recessed LED wall light with high degree of protection IP54



Specification

Incl. light source: LED, material: aluminium / steel / clear glass, asymmetric light beam

Delivery incl. recessing box (w 70 x h 70 x d 50 mm) and installation plate 100 x 100 mm.

Driver see page 634.

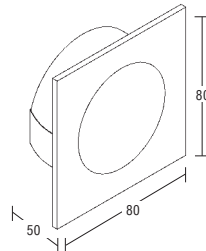
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article no.	Colour of cabinet	Power	Colour temperature
10057173	texture white	2 W	3000 K

10058173

Recessed LED wall light with high degree of protection IP54



Specification

Incl. light source: LED, material: aluminium / steel / clear glass, asymmetric light beam, asymmetric light beam

Delivery incl. recessing box (b 70 x h 70 x d 50 mm) and installation plate 100x100 mm.

Driver see page 634.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

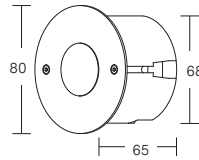
Article no.	Colour of cabinet	Power	Colour temperature
10058173	texture white	2 W	3000 K

Bath studio, Menden (Germany)



10012...

Recessed LED wall light with high degree of protection IP54



Specification

Incl. light source: LED, material: stainless steel / acryl opal / plastic,
incl. driver for 230 V-connection.
Built-in box Ø 68 mm / installation depth 65 mm incl.

Article no.	Colour of cabinet	Power	Colour temperature
10012225	stainless steel	1,2 W	6500 K
10012223	stainless steel	1,2 W	3100 K

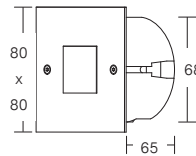
For mounting on flat surfaces only!

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

10011...

Recessed LED wall light with high degree of protection IP54



Specification

Incl. light source: LED, material: stainless steel / acryl opal / plastic,
incl. driver for 230 V connection.
Built-in box Ø 68mm / installation depth 65 mm incl.

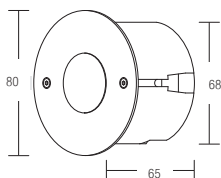
Article no.	Colour of cabinet	Power	Colour temperature
10011225	stainless steel	1,2 W	6500 K
10011223	stainless steel	1,2 W	3100 K

For mounting on flat surfaces only!

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

P3937... Recessed LED wall light



Specification

Incl. light source: LED, material: stainless steel / acryl opal / plastic, incl. driver for 230 V-connection.

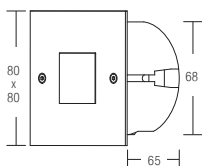
Built-in box Ø 68 mm / installation depth 65 mm incl.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article no.	Colour of cabinet	Power	Colour temperature
P3937W	stainless steel	1,2 W	6500 K
P3937WW	stainless steel	1,2 W	3100 K
P3937B	stainless steel	1,2 W	
P3937R	stainless steel	1,2 W	
P3937Y	stainless steel	1,2 W	
P3937G	stainless steel	1,2 W	

P3930... Recessed LED wall light



Specification

Incl. light source: LED, material: stainless steel / acryl opal / plastic, incl. driver for 230 V-connection.

Built-in box Ø 68 mm / installation depth 65 mm incl.

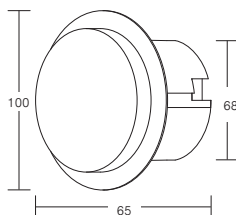
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article no.	Colour of cabinet	Power	Colour temperature
P3930W	stainless steel	1,2 W	6500 K
P3930WW	stainless steel	1,2 W	3100 K
P3930B	stainless steel	1,2 W	
P3930R	stainless steel	1,2 W	
P3930Y	stainless steel	1,2 W	
P3930G	stainless steel	1,2 W	



P3938... Recessed LED wall light



Specification

Incl. light source: LED, material: stainless steel / glass partially frosted / plastic, incl. driver for 230 V-connection
junction box Ø 68 mm / installation depth 65 mm incl.

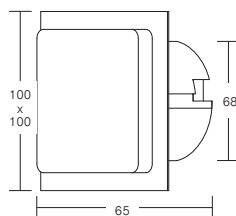
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article no.	Colour of cabinet	Power	Colour temperature
P3938W	stainless steel	1,2 W	6500 K
P3938WW	stainless steel	1,2 W	3100 K
P3938B	stainless steel	1,2 W	
P3938R	stainless steel	1,2 W	
P3938Y	stainless steel	1,2 W	
P3938G	stainless steel	1,2 W	



P3939... Recessed LED wall light



Specification

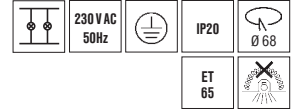
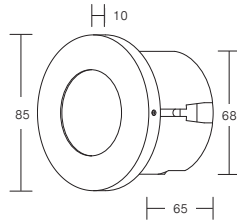
Incl. light source: LED, material: stainless steel / glass partially frosted / plastic, incl. driver for 230 V-connection,
junction box Ø 68 mm / installation depth 65 mm incl.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article no.	Colour of cabinet	Power	Colour temperature
P3939W	stainless steel	1,2 W	6500 K
P3939WW	stainless steel	1,2 W	3100 K
P3939B	stainless steel	1,2 W	
P3939R	stainless steel	1,2 W	
P3939Y	stainless steel	1,2 W	
P3939G	stainless steel	1,2 W	

1014120... Recessed LED wall light



Specification

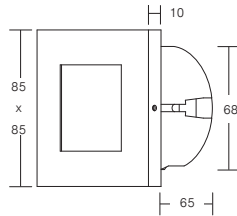
Incl. light source: LED, material: stainless steel / acryl opal / plastic, incl. driver for 230V connection.
Built-in box \varnothing 68mm / installation depth 65 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article no.	Colour of cabinet	Power	Colour temperature
10141205	stainless steel	1,2 W	6500 K
10141203	stainless steel	1,2 W	3100 K
10141208	stainless steel	1,2 W	
10141206	stainless steel	1,2 W	
10141209	stainless steel	1,2 W	
10141207	stainless steel	1,2 W	

1014020... Recessed LED wall light



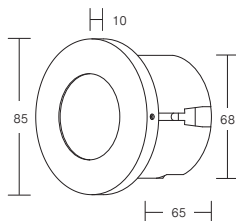
Specification

Incl. light source: LED, material: stainless steel / acryl opal / plastic, incl. driver for 230V-connection.
Built-in box \varnothing 68 mm / installation depth 65 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article no.	Colour of cabinet	Power	Colour temperature
10140205	stainless steel	1,2 W	6500 K
10140203	stainless steel	1,2 W	3100 K
10140208	stainless steel	1,2 W	
10140206	stainless steel	1,2 W	
10140209	stainless steel	1,2 W	
10141207	stainless steel	1,2 W	



R3941... Recessed LED wall light



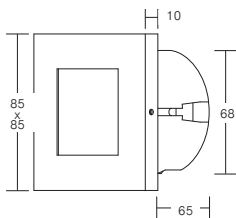
Specification

Incl. light source: LED, material: stainless steel / acryl opal / plastic,
incl. driver for 230V - connection.
Built-in box Ø 68 mm / installation depth 65 mm

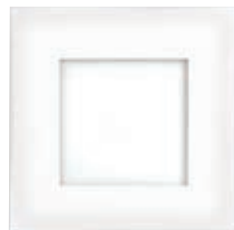
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article no.	Colour of cabinet	Power	Colour temperature
R3941W	texture white	1,2W	6500 K
R3941WW	texture white	1,2W	3100 K
R3941B	texture white	1,2W	
R3941R	texture white	1,2W	
R3941Y	texture white	1,2W	
R3941G	texture white	1,2W	



R3940... Recessed LED wall light



Specification

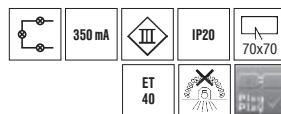
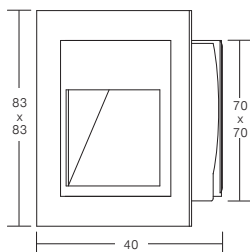
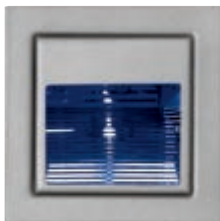
Incl. light source: LED, material: stainless steel / acryl opal / plastic,
incl. driver for 230V - connection.
Built-in box Ø 68 mm / installation depth 65 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article no.	Colour of cabinet	Power	Colour temperature
R3940W	texture white	1,2W	6500 K
R3940WW	texture white	1,2W	3100 K
R3940B	texture white	1,2W	
R3940R	texture white	1,2W	
R3940Y	texture white	1,2W	
R3940G	texture white	1,2W	

P3729... Recessed LED wall light



Specification

Incl. light source: LED, material: steel

Driver see page 628.

Energy efficiency class: A++ to A

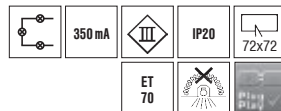
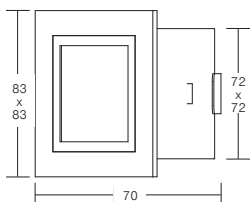
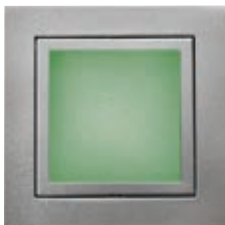
This luminaire contains incorporated and non-exchangeable LED light sources.

Article no.	Colour of cabinet	Power	Colour temperature
P3729W	alu satin	1,2 W	6500 K
P3729WW	alu satin	1,2 W	3100 K
P3729B	alu satin	1,2 W	
P3729R	alu satin	1,2 W	
P3729Y	alu satin	1,2 W	
P3729G	alu satin	1,2 W	

additionally available:

Article-no.	Specification
3702	In-wall-box (72 x 70 x installation depth 54 mm)

P3730... Recessed LED wall light



Specification

Incl. light source: LED, material: cast / frosted glass

Driver see page 628.

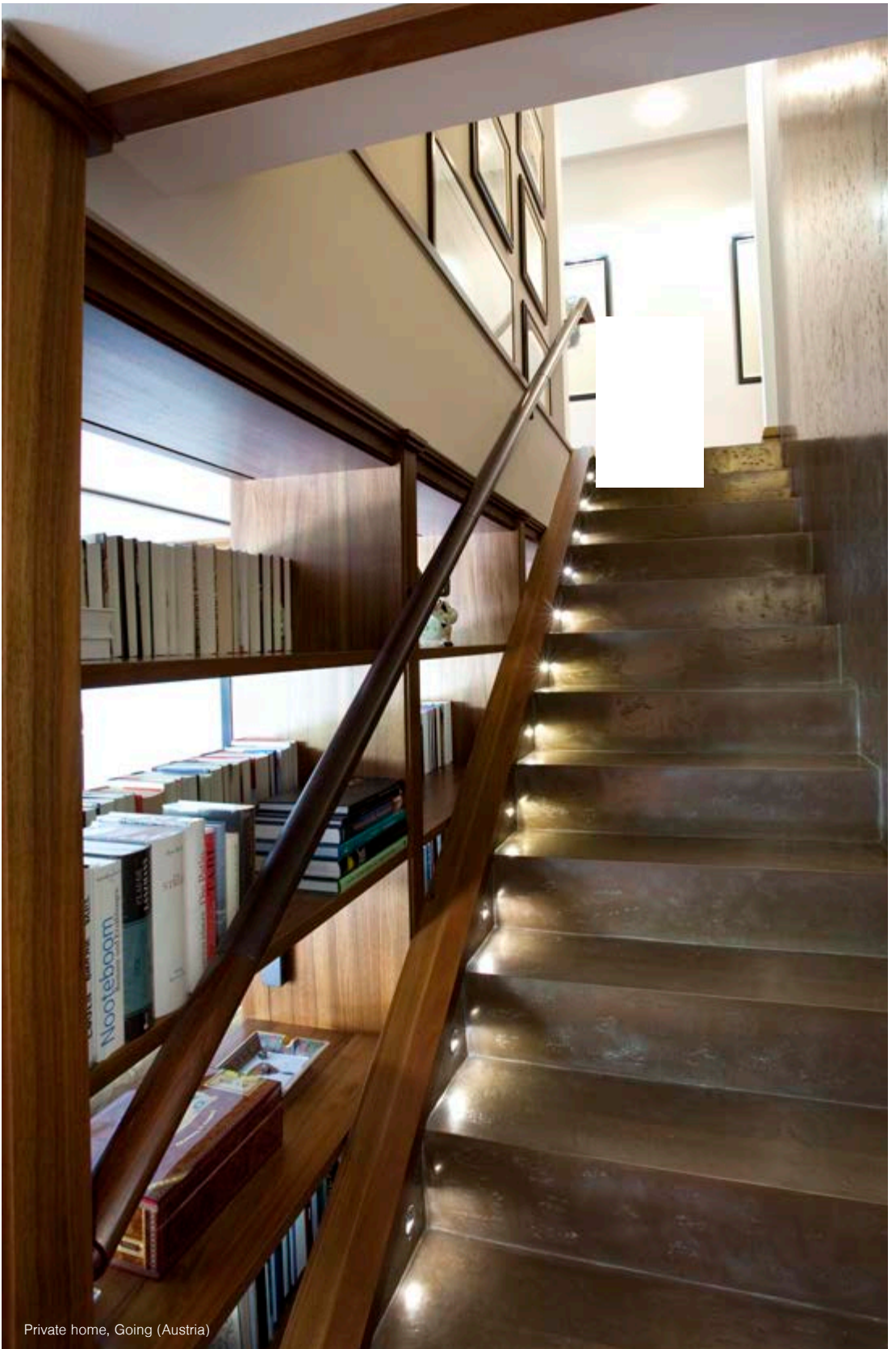
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article no.	Colour of cabinet	Power	Colour temperature
P3730W	alu satin	1,2 W	6500 K
P3730WW	alu satin	1,2 W	3100 K
P3730B	alu satin	1,2 W	
P3730R	alu satin	1,2 W	
P3730Y	alu satin	1,2 W	
P3730G	alu satin	1,2 W	

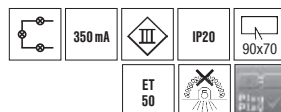
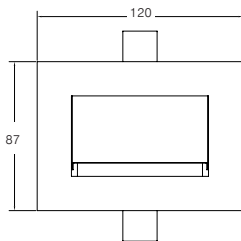
additionally available:

Article-no.	Specification
3701	In-wall-box (76 x 76 x installation depth 74 mm)



Private home, Going (Austria)

10003... Recessed LED wall light



Specification

Incl. light source: LED, material: brass / steel, aperture angle: max. 80°

Driver see page 628.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

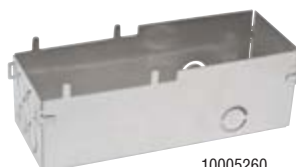
Article no.	Colour of cabinet	Power	Colour temperature
10003013	brass satin	3 W	3200 K
10003073	white	3 W	3200 K
10003153	nickel satin	3 W	3200 K

10004260 / 10005260 built-in case for 10003...



driver outside of case

10004260



for usage with LED-driver art-no. 17666000 (see on page 628).

10005260

Specification

Material: aluminium

Article no.	Dimensions
10004260	98 x 70 x 62 (LxBxH)
10005260	187 x 82 x 62 (LxBxH)

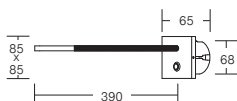
Private home, Kehlheim (Germany)





Brumberg LED-Competence Center, Poing

R3713...
LED recessed reading luminaire "flexible arm"



Specification

Incl. light source: 3 x LED, material: stainless steel / brass / acryl, integrated on-/off-switch, incl. driver for 230 V-connection, built-in box Ø 68 mm / installation depth 65 mm incl.

Energy efficiency class: A++ to A
This luminaire contains incorporated and non-exchangeable LED light sources.

Article no.	Colour of cabinet	Power	Colour temperature
R3713W	stainless steel	4,2 W	6500 K
R3713NW	stainless steel	4,2 W	4100 K
R3713WW	stainless steel	4,2 W	3100 K

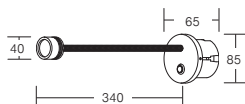


wall mounted version
R3714... |
see p. 364



R3715...

LED recessed reading luminaire "flexible arm"



Specification

Incl. light source: 3 x LED, material: stainless steel / brass / acryl, integrated on-/off-switch, incl. driver for 230 V-connection, built-in box Ø 68 mm / installation depth 65 mm incl., lense: 80°

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

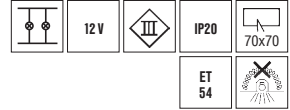
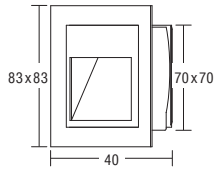
Article no.	Colour of cabinet	Power	Colour temperature
R3715W	stainless steel	3,6 W	6500 K
R3715NW	stainless steel	3,6 W	4100 K
R3715WW	stainless steel	3,6 W	3100 K



wall mounted version
R3716... |
see p. 364

522941

Low voltage recessed wall light



Specification

For low voltage lamp: 1 x G4 QT9, material: steel

delivery incl. in-wall box (dimensions: 72x70 mm; installation depth 54 mm)

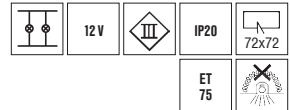
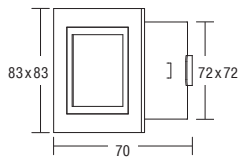
Energy efficiency class: A+ to C

Article no.	Colour of cabinet	Power
522941	alu satin	max. 20W

Drivers see page 645.

522942

Low voltage recessed wall light



Specification

For low voltage lamp: 1 x G4 QT9, material: cast / frosted glass

delivery incl. in-wall box (dimensions: 76x76 mm; installation depth 75 mm)

Energy efficiency class: A+ to C

Article no.	Colour of cabinet	Power
522942	alu satin	max. 20W

Drivers see page 645.



BRILLIANT

Eye-catching and unique



With these spotlights, you can create customised products with your own personal design! Whether as a ceiling or a recessed wall luminaire, give your creativity free rein.

E.g. affix your company, business or association logo to your spotlight or even transfer your CI (corporate identity) to the lights in your business or association premises. Even photos or ornaments can be included within the products if you wish!

This is how it works: Just send us your high resolution print with your design. We will affix this on the carrier material with digital or screen printing, and mount it on the spots. And your customised spotlights are finished!

Of course this is only makes sense when you order a particular quantity! Come and have a chat to us, we are happy to advise you!

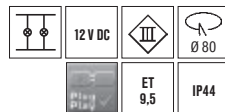
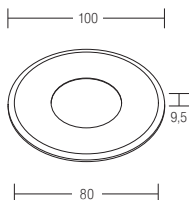


recessed

in-ground light



3900... LED-in-ground light Indoor



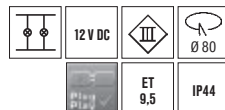
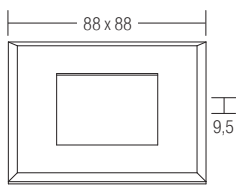
Specification

Incl. light source: 3x SMD-LED, power: approx. 0,4 W, material: stainless steel / acryl

the connecting cable article 3714 and coupler article 3715 must be ordered separatly (see example for installation)!

article-no..	colour of cabinet	colour temperature
3900W	stainless steel	6500 K <input type="radio"/>
3900WW	stainless steel	3000 K <input checked="" type="radio"/>

3901... LED-in-ground light Indoor



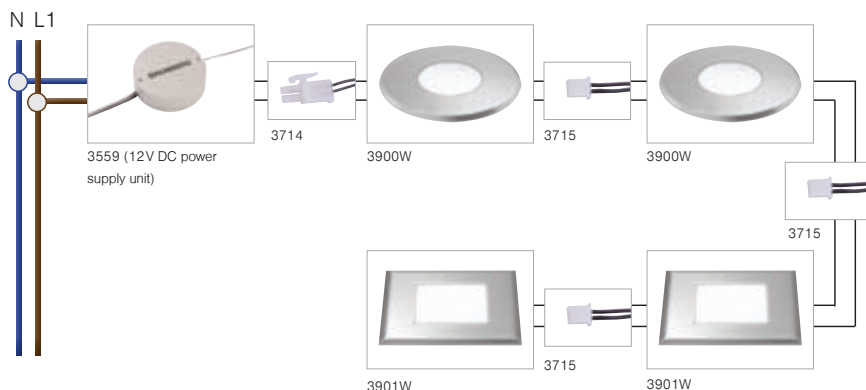
Specification

Incl. light source: 3x SMD-LED, power: approx. 0,4 W, material: stainless steel / acryl

the connecting cable article 3714 and coupler article 3715 must be ordered separatly (see example for installation)!

article-no..	colour of cabinet	colour temperature
3901W	stainless steel	6500 K <input type="radio"/>
3901WW	stainless steel	3000 K <input checked="" type="radio"/>

example for installation 3900W + 3901W



3711 / 3712

in-wall box (round) for article 3900... or 3901...



Specification

colour: grey

article-no. suitable for

3711 3900

3712 3901

3559
round transformer 10W

Specification

cable length: prim. 90 mm, sec. 80 mm,
AMP-connector, prim. 230V, sec. 12V DC, power: 0,1- 10 W,
dimensions: Ø 57,5 mm, installation depth 19 mm

article-no.

3559

3713
in-wall box for round transformer, two - parts

Specification

for in-wall mounting behind baseboard, colour: grey
dimensions: 180 x 32mm

article-no.

3713

3714 / 3715
connection / coupler

3714



3715

Specification

3714: Cable 2 x 0,34 mm² black, 5000 mm length, for connection between transformer (secondary) and first luminaire, JST coupler for light source connection, AMP-plug for transformer connection

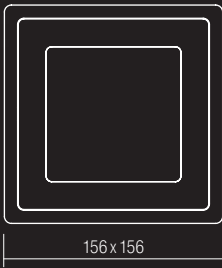
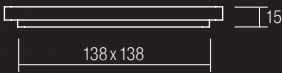
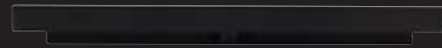
article-no.

3714

3715

3715: Cable 2 x 0,34 mm² black, 2000 mm length, for connection among luminaires

- > high-efficiency OLED of latest generation
- > walk-on-able
- > glare free panel light source
- > extremely flat recessing depth
- > low heat
- > low power consumption
- > elegant design
- > incl. sep. converter for connection to 230V
- > pleasant light distribution
- > warm light colour



I

installation depth
only 15 mm

OLED, THE INNOVATION FOR INDOOR APPLICATIONS

Always at the cutting edge: latest technology // exclusive lighting design

INDOOR

IP67



Art.-No. 14901223

OLED GROUND RECESSED

Light source: organic LED, light temperature: warm white / 3000 K, power: 6.5 W, color rendering index CRI: >80, material: aluminium / glass, colour: black, 1-10 V dimming; dimensions: 156 x 156 mm, installation depth: 15 mm, ground-cutout: 138 x 138mm, Dimensions OLED controller: 58 x 50 x 12 mm, Dimensions power supply: 145 x 55 x 19 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and nonexchangeable LED light sources.



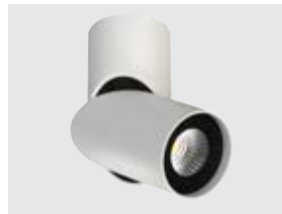
VARIATION APPLICATIONS

surface mounted



ceiling

320



wall

344





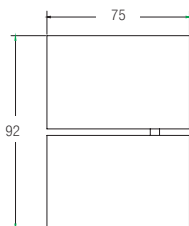
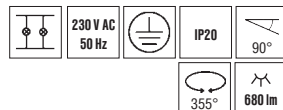


surface mounted

ceiling



12062173 Surface mounted LED spot



NEW

Specification

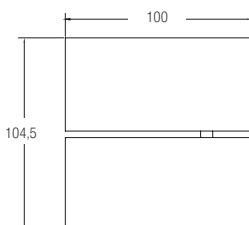
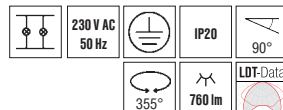
Incl. light source: 1x LED, power: 6.2 W (circular light slot), beam angle: 34°, material: aluminium / clear glass, operating unit included, not dimmable.

Article-No.	Colour of cabinet	Colour temperature
12062173	textured white	3000 K ●

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

12061073 Surface mounted LED spot



Specification

Incl. light source: LED, material: aluminium, with circular light slot, not dimmable.

Article-no.	Colour of cabinet	Power	Colour temperature	Beam angle
12061073	white	9,8 W	3000 K ●	FL

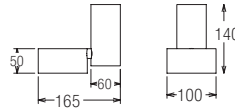
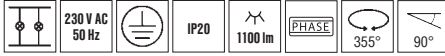
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Equivalent ceiling-recessed version art.-no. 12407073 | see page 147.

12067173

LED ceiling / wall mounted luminaires



NEW

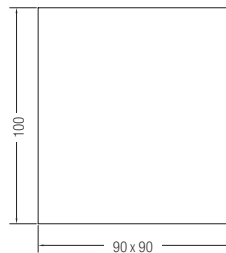
Specification

Incl. light source: 1x LED, power: 14 W, beam angle: 40°, consisting of base cylinder (height 125 mm x diameter 60 mm) and side-mounted swivel cylinder (height 50 mm x diameter 100 mm), ceiling mounting via screw mounting, direct light emission, can be rotated 355° and pivoted 180°. dimensions: height min.140 mm, height max. 170 mm x width 165 mm, material: aluminium, operating unit included, phase-dimmable.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of cabinet	Colour temperature
12067173	textured white	3000 K ●

12064173
Surface mounted LED spot

NEW

Specification

Incl. light source: 1 x LED, power: 15 W, material: aluminium / plastic clear, beam angle: 32°

Operating unit included, phase-dimmable.

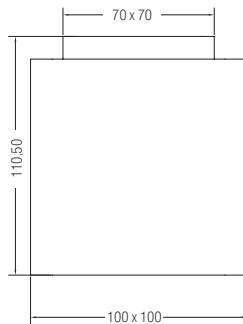
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of cabinet	Colour temperature
12064173	textured white	3000 K ●

12040173

LED ceiling mounted luminaire with indirect light



NEW

Specification

Incl. light source: 1x LED, power: 9 W (directly) + 1,5 W (indirectly), material: aluminium / plastic, phase-dimmable, operating unit included.

Energy efficiency class: A++ to A

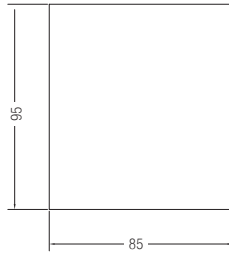
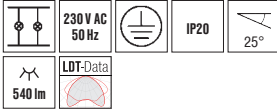
This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of cabinet	Colour temperature
12040173	textured white	3000 K ●

Design by Lounge Design
Idea: Michael Ruschmann

12063173

Ceiling mounted LED spot



Specification

Incl. light source: 1x LED, power: 6 W, beam angle: 38°,
material: aluminium / clear glass,
operating unit included for 230 V-connection, not dimmable.

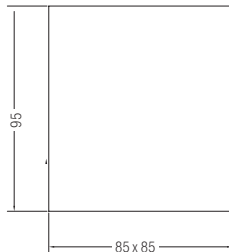
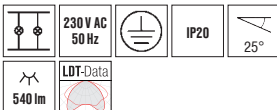
Article-No.	Colour of cabinet	Colour temperature
12063173	textured white	3000 K ●

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

12065173

Ceiling mounted LED spot



Specification

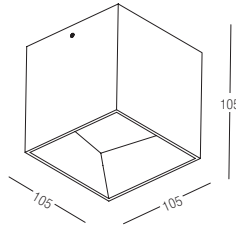
Incl. light source: 1x LED, power: 6 W, beam angle: 38°,
material: aluminium / clear glass, operating unit included for 230 V-connection,
not dimmable.

Article-No.	Colour of cabinet	Colour temperature
12065173	textured white	3000 K ●

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

12020173
LED ceiling mounted luminaire



Detail: Light-emitting

NEW

Specification

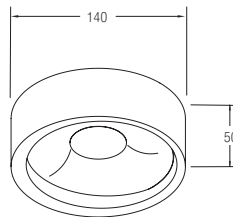
Incl. light source: 1 x LED, power: 9.8 W, asymmetrically arranged light emission, dimensions: l 105 x w 105 x h 105 mm material: aluminium / plastic, driver included, not dimmable.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of cabinet	Colour temperature
12020173	textured white	3000 K ●

12060...
LED ceiling mounted luminaire



NEW

Specification

Incl. light source: 1 x LED, power: 10 W, direct light emission, slightly decentral light emission aperture as design element, material: aluminium / plastic, driver included, not dimmable.

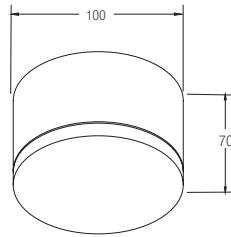
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of cabinet	Colour temperature
12060173	textured white	3000 K ●
12060174	textured white	4000 K ●

12068173

LED ceiling mounted luminaire



NEW

Specification

Incl. light source: 1 x LED, power: 9 W, direct light emission, material: aluminium / plastic satin driver included, phase-dimmable.

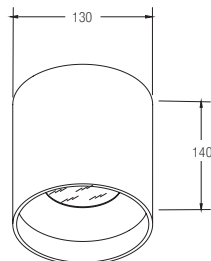
Article-No.	Colour of cabinet	Colour temperature
12068173	textured white	3000 K ●

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

12039173

LED ceiling mounted luminaire



NEW

Specification

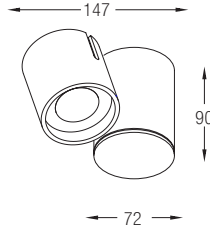
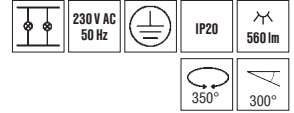
Incl. light source: 1 x LED, power: 14 W, direct light emission, material: aluminium / clear glass, driver included, not dimmable

Article-No.	Colour of cabinet	Colour temperature
12039173	textured white	3000 K ●

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

12028173
LED ceiling / wall mounted luminaires



NEW

Specification

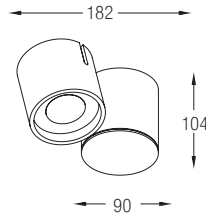
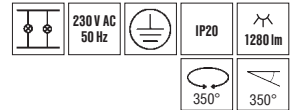
Incl. light source: 1x LED, power: 7 W, beam angle: 30°, consisting of base cylinder (height 90 mm x diameter 72 mm) and side-mounted swivel cylinder (height 90 mm x diameter 72 mm), ceiling mounting via screw mounting, direct light emission, dimensions: height min. 90 mm, height max. 130 mm x w 147 mm, material: aluminium / clear glass, diver included, not dimmable.

Article-No.	Colour of cabinet	Colour temperature
12028173	textured white	3000 K ●

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

12029173
LED ceiling / wall mounted luminaires



NEW

Specification

Incl. light source: 1x LED, power: 15 W, beam angle: 30°, consisting of base cylinder (height 104 mm x diameter 90 mm) and side-mounted swivel cylinder (height 85 mm x diameter 90 mm) ceiling mounting via screw mounting, direct light emission, dimensions: height min. 104 mm, height max. 130 mm x width 182 mm, material: aluminium / clear glass, diver included, not dimmable.

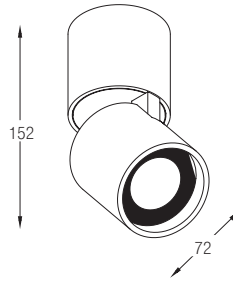
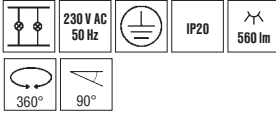
Article-No.	Colour of cabinet	Colour temperature
12029173	textured white	3000 K ●

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

12037173

LED ceiling / wall mounted luminaires



NEW

Specification

Incl. light source: 1x LED, power: 7 W,
beam angle: 30°, consisting of base cylinder and swivel cylinder beneath mounted
(height 152 mm x diameter 72 mm), ceiling mounting via screw mounting, direct
light emission, material: aluminium / clear glass, diver included, not dimmable.

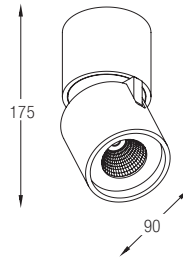
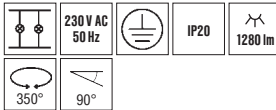
Article-No.	Colour of cabinet	Colour temperature
12037173	textured white	3000 K ●

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

12038173

LED ceiling / wall mounted luminaires



NEW

Specification

Incl. light source: 1x LED, power: 15 W,
beam angle: 30°, consisting of base cylinder and swivel cylinder beneath mounted
(height 175 mm x diameter 90 mm), ceiling mounting via screw mounting, direct light
emission, material: aluminium / clear glass, diver included, not dimmable.

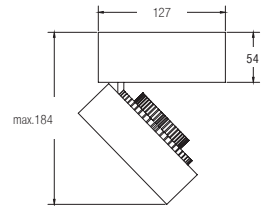
Article-No.	Colour of cabinet	Colour temperature
12038173	textured white	3000 K ●

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

88527073

Surface mounted LED spot



Specification

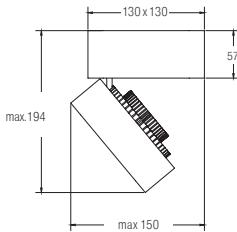
Incl. light source: LED, Material: aluminium / plastic,
Incl. operating device, not dimmable.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Power	Colour temperature	Beam patterns
88527073	white / black	26 W	3000 K ●	FL

0°-8° = SSP (Super Spot), 9°-18° = SP (Spot), 19°-29° = MF (Medium Flood), 30°-45° = FL (Flood), 46°-60° = WFL (Wide Flood)

88528073
Surface mounted LED spot

Specification

Incl. light source: LED, Material: aluminium / plastic,
Incl. operating device, not dimmable.

Energy efficiency class: A++ to A

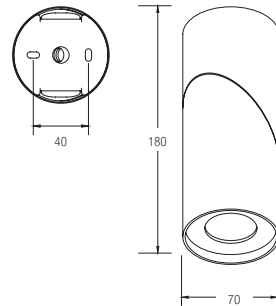
This luminaire contains incorporated and
non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Power	Colour temperature	Beam patterns
88528073	white / black	26 W	3000 K	● FL

0°-8° = SSP (Super Spot), 9°-18° = SP (Spot), 19°-29° = MF (Medium Flood), 30°-45° = FL (Flood), 46°-60° = WFL (Wide Flood)

Dimensions indicated in mm | All prices are recommended retail prices in euros without VAT | Errors excepted
Delivery will take place according to our general terms of sale, see page 680.

12083173
Surface mounted LED spot



Specification

Incl. light source: LED, material: aluminium / clear glass, incl. driver for 230 V-connection, not dimmable.

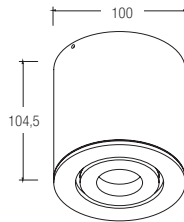
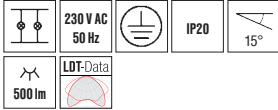
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Power	Colour temperature	Beam angle
12083173	textured white	10W	3000 K ●	FL

12055073

Surface mounted LED spot



Specification

Incl. light source: LED, material: aluminium / acryl, not dimmable.
incl. driver, not dimmable,
not applicable for through-wiring.

Energy efficiency class: A++ to A

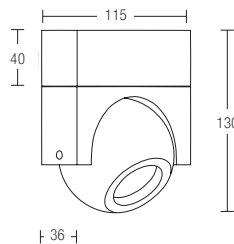
This luminaire contains incorporated and
non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Power	Colour temperature	Beam angle
12055073	white	7 W	3100 K ●	FL

0°-8° = SSP (Super Spot), 9°-18° = SP (Spot), 19°-29° = MF (Medium Flood), 30°-45° = FL (Flood), 46°-60° = WFL (Wide Flood)

R3037...

decorative surface mounted LED light



Design by Lounge Design

Specification

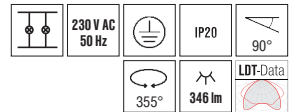
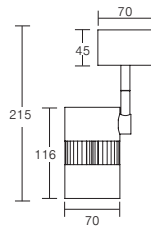
Incl. light source: 1x power LED, power: approx. 3,3 W, beam angle: 45°,
material: aluminium, incl. driver for 230 V-connection,
lighthead tilting and turning, not dimmable.

Energy efficiency class: A++ to A

This luminaire contains incorporated and
non-exchangeable LED light sources.

Article-no.	colour of cabinet	power	colour of temperature	Flux
R3037NW4	alu satin	3,3 W	4100 K ●	283 lm
R3037 W4	alu satin	3,3 W	6500 K ●	300 lm
R3037 WW4	alu satin	3,3 W	3100 K ●	172 lm

12009073 surface mounted LED light



Specification

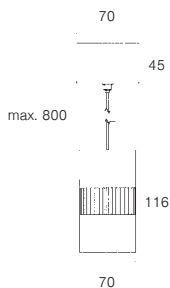
Incl. light source: LED, power: about 6 W, beam angle: 20°, material: aluminium, incl. driver for 230 V-connection, not dimmable.

Energy efficiency class: A+++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

article-no.	colour of cabinet	power	colour of temperature	Beam patterns
12009073	white / black	6 W	3000 K ●	20°

12008073 Pendant LED light



Specification

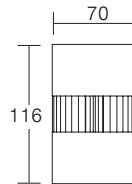
Incl. light source: LED, power: 7 W, beam angle: 20°, material: aluminium, incl. driver for 230 V-connection, not dimmable.

Energy efficiency class: A+++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

article-no.	colour of cabinet	power	colour of temperature	Beam patterns
12008073	white / black	7 W	3000 K ●	20°

12007073 LED surface-mounted luminaire



Specification

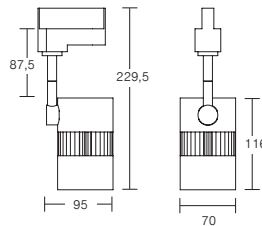
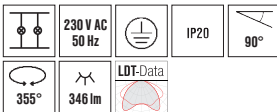
Incl. light source: LED, warm white, 3000 K, power: about 6 W, beam angle: 20°, material: aluminium, incl. driver for 230 V-connection, not dimmable.

article-no.	colour of cabinet	power	colour of temperature	Beam patterns
12007073	white / black	6 W	3000 K ●	20°

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

12010073 LED track spot



Specification

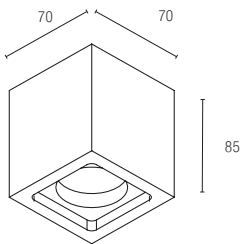
Incl. light source: LED, power: about 6 W, beam angle: 20°, warm white, 3000 K, material: aluminium, Colour: white / black power supply unit and 3 phase track adapter inclusive, not dimmable.

article-no.	colour of cabinet	power	colour of temperature	Beam patterns
12010073	white / black	6 W	3000 K ●	20°

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

12076173
Surface mounted LED spot



Specification

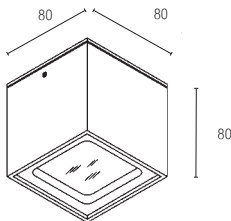
Incl. light source: LED,
material: aluminium / clear glass, not dimmable.

Energy efficiency class: A+++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Power	Colour temperature	Beam angle
12076173	textured white	7 W	3000 K ●	30°

12077173
Surface mounted LED spot



Specification

Incl. light source: LED,
material: aluminium / frosted glass, not dimmable.

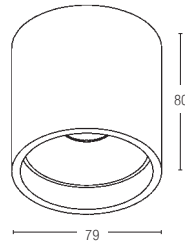
Energy efficiency class: A+++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Power	Colour temperature	Beam angle
12077173	textured white	7 W	3000 K ●	120°

12072183

Surface mounted LED spot



Specification

Incl. light source: LED,
material: aluminium / plastic, not dimmable.

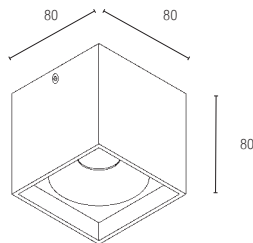
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Power	Colour temperature	Beam angle
12072183	textured black / satin gold	4 W	3000 K	40°

12073183

Surface mounted LED spot



Specification

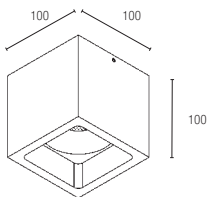
Incl. light source: LED, power: 4 W,
material: aluminium / plastic, not dimmable.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Power	Colour temperature	Beam angle
12073183	textured black / satin gold	4 W	3000 K	40°

12075183
Surface mounted LED spot



Specification

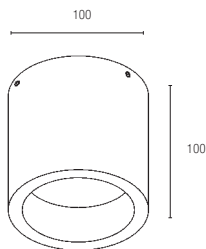
Incl. light source: LED, material: aluminium / clear glass, not dimmable.

Energy efficiency class: A+++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Power	Colour temperature	Beam angle
12075183	textured black	15 W	3000 K	40°

12074183
Surface mounted LED spot



Specification

Incl. light source: LED, Material: aluminium / clear glass, not dimmable.

Energy efficiency class: A+++ to A

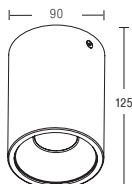
This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Power	Colour temperature	Beam angle
12074183	textured black	15 W	3000 K ●	40°



Crêpes Factory, Norderstedt (Germany)

88521... Surface mounted LED downlight



Specification

Incl. light source: LED,
material: aluminium / clear glass

Incl. operating device.

This luminaire contains incorporated and non-exchangeable LED light sources.

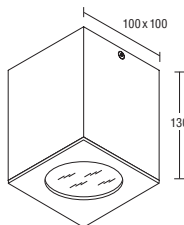
Energy efficiency class: A++ to A

This luminaire contains incorporated and nonexchangeable LED light sources. dimmable via leading edge

Dimmable via leading edge.

Article-no.	Colour of cabinet	Power	Colour temperature	Beam patterns
88521173	textured white	12 W	3000 K	WFL (85°)
88521183	textured black	12 W	3000 K	WFL (85°)
88521693	textured silver	12 W	3000 K	WFL (85°)

88522... Surface mounted LED downlight



Specification

Incl. light source: LED,
material: aluminium / clear glass

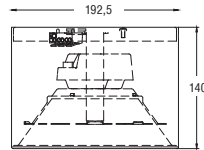
Incl. operating device.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Dimmable via leading edge

Article-no.	Colour of cabinet	Power	Colour temperature	Beam patterns
88522173	textured white	12 W	3000 K	WFL (85°)
88522183	textured black	12 W	3000 K	WFL (85°)
88522693	textured silver	12 W	3000 K	WFL (85°)

88523...
Surface mounted LED downlight

Specification

Incl. light source: LED,
material: aluminium / clear glass,
incl. operating device, not dimmable.

Energy efficiency class: A++ to A

This luminaire contains incorporated and
non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Power	Colour temperature	Beam patterns
88523173	textured white	26 W	3000 K	WFL (60°)
88523183	textured black	26 W	3000 K	WFL (60°)
88523693	textured silver	26 W	3000 K	WFL (60°)



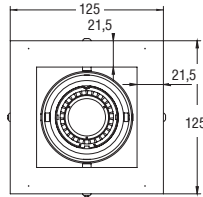
Advertising agency "Team Wandres", Sundern (Germany)

0°-8° = SSP (Super Spot), 9°-18° = SP (Spot), 19°-29° = MF (Medium Flood), 30°-45° = FL (Flood), 46°-60° = WFL (Wide Flood)

Dimensions indicated in mm | All prices are recommended retail prices in euros without VAT | Errors excepted
Delivery will take place according to our general terms of sale, see page 680.



Church, Wesel - Lackhausen (Germany)

46301170 / 88503173
Surface mounted spot

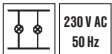
Base model low-voltage

For low voltage lamp: GX5,3 QRCBC51, power: max. 50 W, material: steel, incl. transformer, without bulb

Energy efficiency class: A to C

Article-no. Colour of cabinet

46301170 textured white



LED-Set, including driver

Incl. light source: LED, power: 6,6 W, beam angle: 38°, material: steel / clear glass, incl. driver for 230V-connection, not dimmable

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no. Colour of cabinet

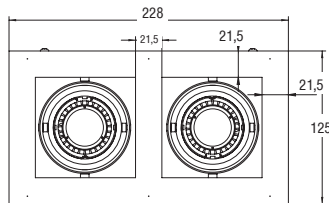
88503173 textured white

Colour temperature

2700 K



modular construction: further light colors and power outputs are available on demand

46304170 / 88506173
Surface mounted twin-spot

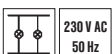
Base model low-voltage

For low voltage lamp: 2 x GX5,3 QRCBC51, power: max. 2 x 50 W, material: steel incl. transformer, without bulb

Energy efficiency class: A to C

Article-no. Colour of cabinet

46304170 textured white



LED-Set, including driver

Incl. light source: 2 x LED, power: 2 x 6,6 W, beam angle: 38°, material: steel / clear glass, incl. driver for 230V-connection, not dimmable

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no. Colour of cabinet

88506173 textured white

Colour temperature

2700 K

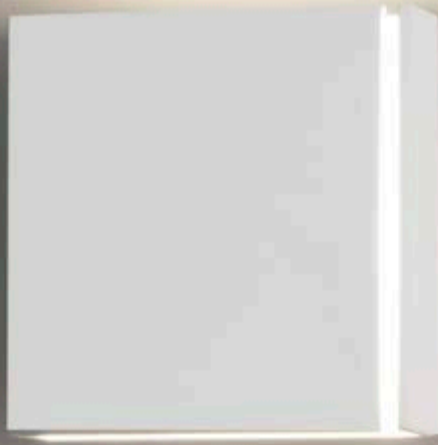


modular construction: further light colors and power outputs are available on demand



surface mounted

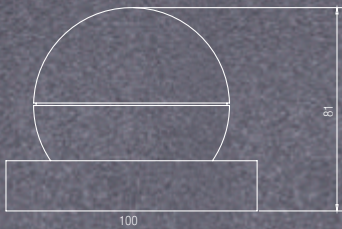
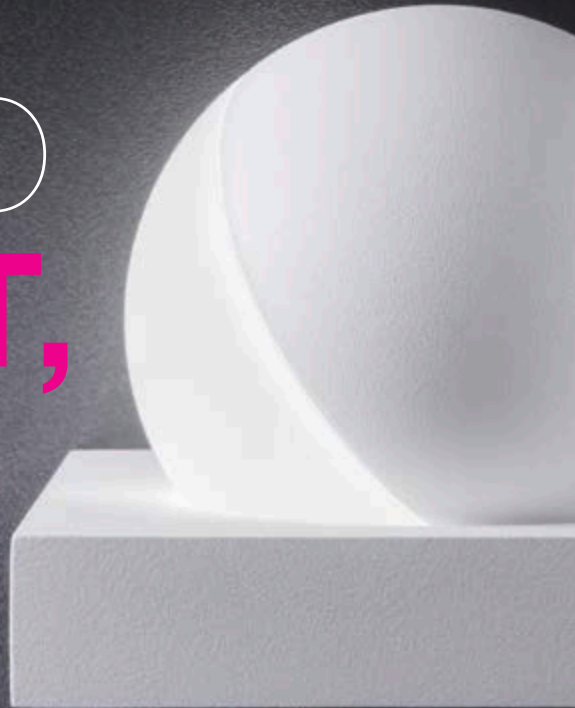
wall mounted



10048173

LED Wall mounted luminaire

I LIKE TO
MOVE IT,



NEW

Specification

Incl. light source: 1x LED, power: 4 W,
material: aluminium / satin plastic,
operating device for 230 V, not dimmable, extension 105 mm
Luminaire head independently movable

Article-No.	Colour of cabinet	Colour temperature
10048173	textured white	3000 K ●

Energy efficiency class: A++ to A

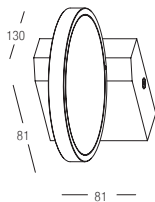
This luminaire contains incorporated and non-exchangeable LED light sources.





... MOVE IT!

10052173
LED wall mounted spotlight



NEW

Specification

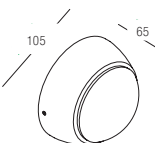
Incl. light source: 1x LED, power: 6.5W, direct / indirect light emission, pivotable light plate, diameter: 115 mm, dimensions: 181 mm x w 81 mm x h 33 mm, max. extension: 130 mm, material: aluminium / plastic opal (cover), not dimmable.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of cabinet	Colour temperature
10052173	textured white	3000 K ●

10051173
LED wall mounted spotlight



NEW

Specification

Incl. light source: 1x LED, power: 4 W, direct / indirect light emission, pivotable inner section, diameter: 105 mm, max. extension: 65 mm (max. 75 mm), material: aluminium / plastic opal, not dimmable.

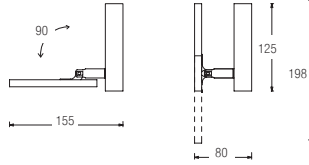
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of cabinet	Colour temperature
10051173	textured white	3000 K ●

10053173

LED wall mounted spotlight



NEW

Specification

Incl. light source: 1x LED, power: 7 W, direct / indirect light emission, pivotable light plate, diameter: 125 mm, height 80 mm, height of base housing: 27 mm, max. extension: 155 mm, material aluminium / plastic opal (cover), not dimmable

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

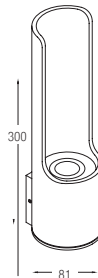
Article-No.	Colour of cabinet	Colour temperature
10053173	textured white	3000 K ●

10032183

LED wall mounted luminaire



Can be mounted as up- or downlight



NEW

Specification

Incl. light source: 1x LED, power: 4 W, direct or indirect light emission, diameter: 81 mm, height: 300 mm, extension: 91 mm, material: aluminium / glass, not dimmable.

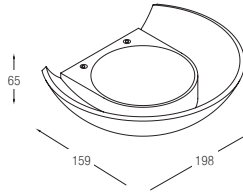
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of cabinet	Colour temperature
10032183	textured black / gold satin	3000 K ●



Hotel Steinberg, Sundern (Germany)

10021173
LED wall mounted luminaire

NEW

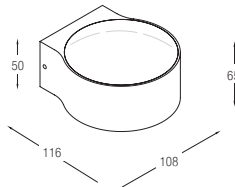
Specification

Incl. light source: 1x LED, power: 2x 4 W, indirect light emission, dimensions: h 65 x w 198 mm, extension: 159 mm, material: aluminium / clear glass, not dimmable

Article-No.	Colour of cabinet	Colour temperature
10021173	textured white	3000 K ●

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

10020173
LED wall mounted luminaire

NEW

Specification

Incl. light source: 2x LED, power: 2 x 4 W, Direct and indirect light emission, dimensions: h 65 mm x w 108 mm, extension: 116 mm, material: aluminium / clear glass, not dimmable.

Article-No.	Colour of cabinet	Colour temperature
10020173	textured white	3000 K ●

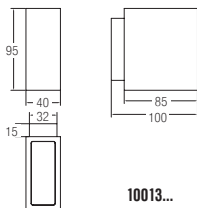
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

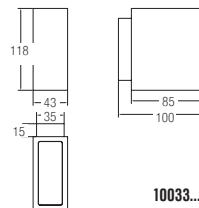




10013... / 10033... LED wall mounted luminaire



10013...



10033...



Up & Down

NEW

Specification

Incl. light source: 2 x LED, 3000 K,
material: aluminium / clear glass,
with a power supply unit to connect to
230 V main voltage, not dimmable.

Energy efficiency class: A++ to A

This luminaire contains incorporated and
non-exchangeable LED light sources.

Article-No.	Colour of cabinet	Flux	Power
10013173	textured white	2 x 218 lm	2 x 3 W
10013103	textured graphite	2 x 218 lm	2 x 3 W
10033173	textured white	2 x 365 lm	2 x 5 W
10033103	textured graphite	2 x 365 lm	2 x 5 W

- > Eye-Catcher for gastronomic and private surroundings
- > optimized product presentation by effective accent lighting
- > no heat radiation
- > Stand-alone or wall-mounted



Delivery without decoration

EYE-CATCHER



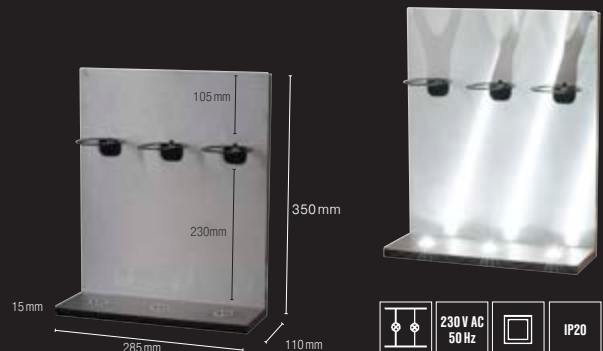
Art.-No. 10901223

Hangover LED-BÖTTLER RACK

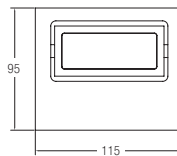
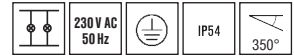
Incl. light source: 3 x 1,0W LED, colour temperature: 6000 K,
material: stainless steel / steel Incl. operating device for 230 V, not dimmable.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.



10012173 LED wall mounted luminaire



Specification

Incl. light source: 1 x LED, Power: 3W
material: aluminium / clear glass, colour: textured white, warm white, 3000 K.
incl. driver for 230V-connection, not dimmable.

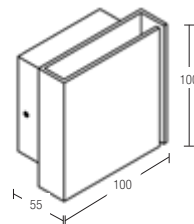
adjustable luminaire head

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour temperature
10012173	3000K ●

10056173 LED wall mounted luminaire



Up & Down

Specification

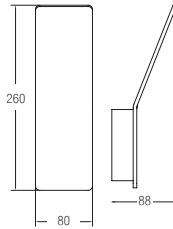
Incl. light source: LED, material: aluminium

Including light source and operating device, not dimmable.
Not applicable for through-wiring.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Power	Colour temperature
10056173	textured white	4 W	3000K ●

10014173
LED wall mounted luminaire

Specification

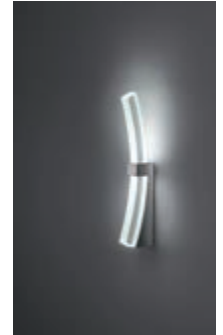
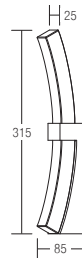
Incl. light source: 1 x LED, warm white, 3000 K, power: about 6 W, material: aluminium, colour: textured white.

incl. driver for 230V -connection, not dimmable.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour temperature
10014173	3000 K ●

500940W
LED wall mounted luminaire

Specification

Incl. light source: 1 x LED, power: approx 1 W, material: aluminium / crystal partially satined, colour: chrome, 1 W, incl. driver for 230V -connection, not dimmable.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour temperature
500940W	6500 K ○

BOMAC3.2
BOMAC LED wall light



reddot design award
winner

Specification

Incl. light source: 2x LED, power: each 1 W, material: aluminium, colour: aluminium dimensions: L 80mm x W 80mm x projection 88 mm, heads of light are rotatable, Incl. driver for 230 V-connection, not dimmable.

Article-no.	Colour temperature
BOMAC3.2	3500 K ●

Energy efficiency class: A+++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

For all articles on this page the discount category 2 shall be applied.

BOMAC3.4
BOMAC LED wall light



reddot design award
winner

Specification

Incl. light source: 2x LED, each 1 W, material: aluminium, colour: black / aluminium, power: dimensions: L 80mm x W 80mm x projection 88 mm, heads of light are rotatable, Incl. driver for 230 V-connection, not dimmable.

Article-no.	Colour temperature
BOMAC3.4	3500 K ●

Energy efficiency class: A+++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

For all articles on this page the discount category 2 shall be applied.

BOMAC3.6
BOMAC LED wall light



reddot design award
winner

Specification

Incl. light source: 2x LED, power: each 1 W, material: aluminium, colour: chrome, dimensions: L 80 x W 80 mm x projection 88 mm, heads of light are rotatable, incl. driver for 230 V-connection, not dimmable.

Article-no.	Colour temperature
BOMAC3.6	3500 K ●

Energy efficiency class: A+++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

For all articles on this page the discount category 2 shall be applied.

Wholesaler's bath studio, Rheda Wiedenbrück (Germany)



BOMAC4.2
BOMAC LED wall light



reddot design award
winner

Up & Down

Specification

Incl. light source: 2 x LED, power: each 1 W, optics: 10°, material: aluminium, colour: aluminium / black, dimensions: L80 x W80mm x projection 104 mm, head of light is moveable, Incl. driver for 230V connection, not dimmable, delivery incl. 2 replacement optics 30°

Article-no.	Colour temperature
BOMAC4.2	3500 K ●

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

For all articles on this page the discount category 2 shall be applied.

BOMAC4.4
BOMAC LED wall light



reddot design award
winner

Up & Down

Specification

Incl. light source: 2 x LED, power: each 1 W, optics: 10°, material: aluminium, colour: aluminium / black, dimensions: L80 mm x W80 mm x projection 104 mm, head of light is moveable
Incl. driver for 230V connection, not dimmable, delivery incl. 2 replacement optics 30°

Article-no.	Colour temperature
BOMAC4.4	3500 K ●

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

For all articles on this page the discount category 2 shall be applied.

BOMAC4.6
BOMAC LED wall light



reddot design award
winner

Up & Down

Specification

Incl. light source: 2 x LED, power: each 1 W, optics: 10°, material: aluminium, colour: chrome, dimensions: L 80 x W 80 mm x projection 104 mm, head of light is moveable, incl. driver for 230 V connection, not dimmable, delivery incl. 2 replacement optics 30°

Article-no.	Colour temperature
BOMAC4.6	3500 K ●

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

For all articles on this page the discount category 2 shall be applied.

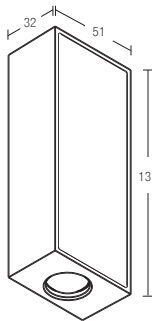


"Paschen" libraries, Wadersloh (Germany)



Badausstellung Gienger-Straubing

10069173
wall mounted LED luminaire



Up & Down

Specification

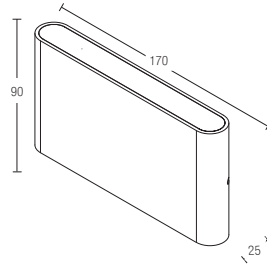
Incl. light source: LED, material: aluminium

Driver built-in, not dimmable.
Not applicable for through-wiring.

Magnetic front panel, magnet for cover removal is contained in scope of delivery.

Energy efficiency class: A++ to A
This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Power	Colour temperature	Beam angle
10069173	textured white	2 x 3 W	3000 K	60°

10046...
wall mounted LED luminaire

Up & Down

Specification

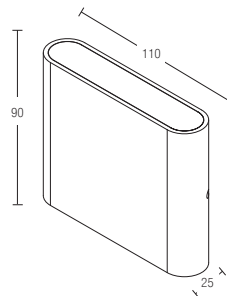
Incl. light source: LED, material: aluminium / acrylic, cover: opal

Incl. light source and operating device for 230 V, not dimmable.
Not applicable for through-wiring.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Power	Colour temperature
10046253	aluminium	2 x 5,4 W	3100 K
10046173	textured white	2 x 5,4 W	3100 K

10045...
wall mounted LED luminaire

Up & Down

Specification

Incl. light source: LED, material: aluminium / acrylic, cover: opal

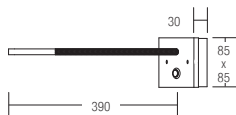
Incl. operating device for 230 V, not dimmable.
Not applicable for through-wiring.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Power	Colour temperature
10045253	aluminium	2 x 3,6 W	3100 K
10045173	textured white	2 x 3,6 W	3100 K

R3714... LED reading luminaire "flexible arm"



Specification

Incl. light source: 3 x power LED,
power: approx. 4,2 W in total,
Material: stainless steel / brass / acrylic,
colour: stainless steel,
Integrated on-/off-switch
incl. driver for 230V-connection, not dimmable.

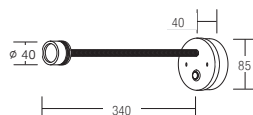
Article-no.	Colour temperature
R3714 W	6500 K ○
R3714NW	4100 K ●
R3714 WW	3100 K ●

available as recessed luminaire as well (Art. R3713...)!

Energy efficiency class: A+++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

R3716... LED reading luminaire "flexible arm"



Specification

Incl. light source: LED,
power: approx. 3,6 W in total,
material: stainless steel / brass / acrylic,
colour: stainless steel
Integrated on-/off-switch
incl. driver for 230V-connection, not dimmable.

Article-no.	Colour temperature
R3716 W	6500 K ○
R3716NW	4100 K ●
R3716 WW	3100 K ●

available as recessed luminaire as well (Art. R3713... see page)!

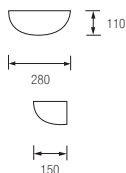
Energy efficiency class: A+++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

"Steinberg" hotel, Sundern (Germany)



783150 wall light plaster, natural textured



Available in LED on request
(6,4 W / 800 lm).

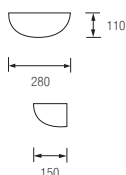
Specification

Material: plaster, colour: white

Energy efficiency class: A++ to E

Article-no.	For lamp	Power
783150	1 x P45 E27	max. 42 W

782450 wall light plaster, natural textured



Available in LED on request
(6,4 W / 800 lm).

Specification

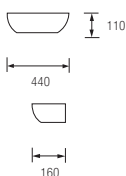
Material: plaster, colour: white

indirect and direct light exit

Energy efficiency class: A++ to E

Article-no.	For lamp	Power
782450	1 x P45 E27	max. 42 W

782650 wall light plaster, natural textured



Available in LED on request
(6,4 W / 800 lm).

Specification

Material: plaster, colour: white
incl. satined covering glass

indirect and direct light exit

Energy efficiency class: A++ to E

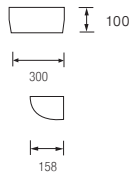
Article-no.	For lamp	Power
782650	1 x P45 E27	max. 42 W

Hotel "Pollmann", Ernst / Cochem (Germany)



784050

wall light plaster, natural textured



Available in LED on request
(6,4 W / 800 lm).

Specification

Material: plaster, colour: white

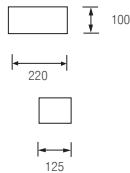
indirect and direct light exit, incl. satined glass for direct light exit.

Energy efficiency class: A++ to E

Article-no.	For lamp	Power
784050	1x P45 E27	max. 42 W

785550

wall light plaster, natural textured



Available in LED on request
(6,4 W / 800 lm).

Specification

Material: plaster, colour: white

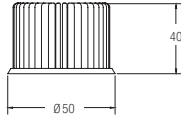
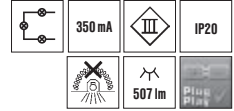
indirect and direct light exit, incl. satined glass for direct light exit.

Energy efficiency class: A++ to E

Article-no.	For lamp	Power
785550	1x P45 E27	max. 42 W

LED inserts



12963003**MR16 High-power LED insert dim2warm****NEW****dim2warm****6 W / 507 lm****Specification**

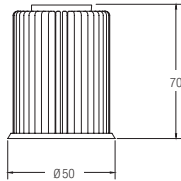
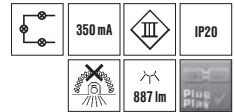
Light source: LED, power: about 6 W,
beam angle: 38°,
material: aluminium / clear glass

Driver see page 629.

Energy efficiency class: A

Article-No. Colour temperature

12963003 2800 K - 2000 K ●

12965003**MR16 High-power LED insert dim2warm****NEW****dim2warm****12 W / 887 lm****Specification**

Light source: LED, power: about 12 W,
beam angle: 38°, CRI > 90,
material: aluminium / clear glass

Driver see page 629.

Energy efficiency class: A

Article-No. Colour temperature

12965003 2800 K - 2000 K ●

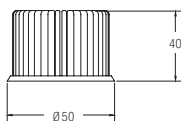


Private home, Ipsheim (Germany)

12925... / 12926003 MR16 High-power LED insert



3 W / 270 lm



NEW

Specification

Light source: LED, power: about 3 W,
beam angle: 38°,
material: aluminium / clear glass

Driver see page 628.

Energy efficiency class: A ++

Article-No. Colour temperature

12925003 2700 K ●

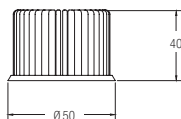
12926003 3000 K ●

12925004 4000 K ●

12923... / 12924003 MR16 High-power LED insert



6 W / 540 lm



NEW

Specification

Light source: LED, power: about 6 W,
beam angle: 38°,
material: aluminium / clear glass

Driver see page 628.

Energy efficiency class: A+

Article-No. Colour temperature

12923003 2700 K ●

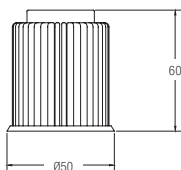
12924003 3000 K ●

12923004 4000 K ●

12921... / 12922003 MR16 High-Power-LED insert



6,6 W / 410 lm



Specification

Incl. light source: LED, power: about 6,6 W,
beam angle: 38°,
material: aluminium / clear glass

Driver see page 628.

Energy efficiency class: A

Article-no. Colour temperature

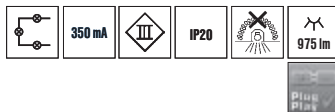
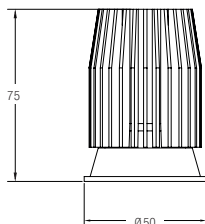
12921003 2700 K ●

12922003 3000 K ●

12921004 4000 K ●

12931003 / 12932003

MR16 High-Power-LED insert



9,3 W / 975 lm

Specification

Incl. light source: LED, power: ca. 9,3 W,
beam angle: 38°,
material: aluminium / clear plastic

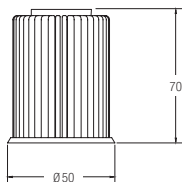
Driver see page 628.

Energy efficiency class: A+

Article-no.	Colour temperature
12931003	2700 K ●
12932003	3000 K ●

12953... / 12954003

MR16 High-power LED insert



12 W / 1100 lm

NEW

Specification

Light source: LED, power: about 12 W,
beam angle: 38°,
material: aluminium / clear glass

Driver see page 628.

Energy efficiency class: A+

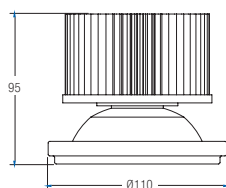
Article-No.	Colour temperature
12953003	2700 K ●
12954003	3000 K ●
12953004	4000 K ●

1291...

QR111 High-Power-LED insert



31 W / 3250 lm



Specification

Incl. light source: LED, power: 31 W,
material: aluminium

Driver see page 638.

Energy efficiency class: A+

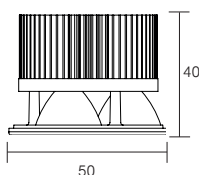
Article-no.	Colour temperature	Colour rendering index	Beam angle
12912003	3000 K	☉ CRI > 80	18°
12913003	3000 K	☉ CRI > 80	30°
12914003	3000 K	☉ CRI > 80	50°

Café Amorini, Swisttal (Germany)



R3704...

MR 16 high-power LED insert



4,3 W

Specification

Incl. light source: 3x high-power LED, power: approx. 4,3 W,
material: aluminium / plastic

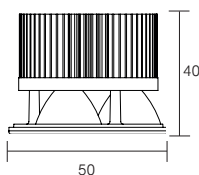
Driver see page 644.

Energy efficiency class: A

Article-no.	Colour temperature	Flux	Colour-rendering-index	Lenze
R3704NW2	4100 K	● 290 lm	CRI >80	25°
R3704NW4	4100 K	● 283 lm	CRI >80	45°
R3704NW6	4100 K	● 279 lm	CRI >80	60°
R3704W2	6500 K	○ 314 lm	CRI >75	25°
R3704W4	6500 K	○ 300 lm	CRI >75	45°
R3704W6	6500 K	○ 291 lm	CRI >75	60°
R3704WW2	3000 K	● 176 lm	CRI >90	25°
R3704WW4	3000 K	● 172 lm	CRI >90	45°
R3704WW6	3000 K	● 169 lm	CRI >90	60°

R3705...

MR 16 high-power LED insert



3,3 W

Specification

Incl. light source: 3x high-power LED, power: approx. 3,3 W,
material: aluminium / plastic

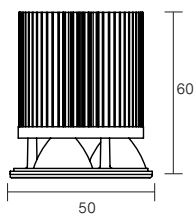
Driver see page 628.

Energy efficiency class: A

Article-no.	Colour temperature	Flux	Colour-rendering-index	Lenze
R3705NW2	4100 K	● 290 lm	CRI >80	25°
R3705NW4	4100 K	● 283 lm	CRI >80	45°
R3705NW6	4100 K	● 279 lm	CRI >80	60°
R3705W2	6500 K	○ 314 lm	CRI >75	25°
R3705W4	6500 K	○ 300 lm	CRI >75	45°
R3705W6	6500 K	○ 291 lm	CRI >75	60°
R3705WW2	3000 K	● 176 lm	CRI >90	25°
R3705WW4	3000 K	● 172 lm	CRI >90	45°
R3705WW6	3000 K	● 169 lm	CRI >90	60°



6,7 W



Specification

Incl. light source: 3x high-power LED, power: approx. 6,7W, material: aluminium / plastic

Driver see page 634.

Energy efficiency class: A

Article-no.	Colour temperature	Flux	Colour-rendering-index	Lense
R3701NW2	4100 K	● 435lm	CRI >80	25°
R3701NW4	4100 K	● 423lm	CRI >80	45°
R3701NW6	4100 K	● 416lm	CRI > 80	60°
R3701W2	6500 K	○ 442lm	CRI >75	25°
R3701W4	6500 K	○ 439lm	CRI >75	45°
R3701W6	6500 K	○ 435lm	CRI >75	60°
R3701WW2	3000 K	● 281lm	CRI >90	25°
R3701WW4	3000 K	● 274lm	CRI >90	45°
R3701WW6	3000 K	● 269lm	CRI >90	60°



RGB luminaires

RGB flexible strip

378



RGB ceiling mounted

381



RGB wall mounted

388





RGB ground
mounted

390



RGB surface- and earth
spike flood light

391



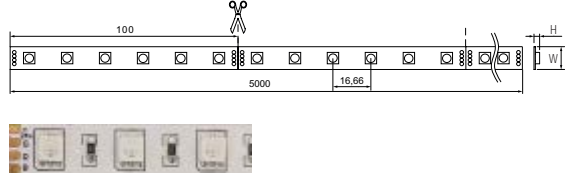
RGB accessories

392

15203001 / 15223001 / 15273001
LED flexible strip RGB 14.4 W / m



14,4 W / m



Specification

Flexible LED conductor strips fitted with 300x SMD 5050 RGB LEDs, multi-colour; power: max. 72 W (14.4 W / m), beam angle: 120°, width: 10-12.7 mm, length: 5,000 mm, easily cut every 100 mm, two-sided 3M adhesive tape included in delivery to aid installation. Incl. connector cables at both ends; length 350 mm each.

To dissipate heat, light must be mounted on aluminium profiles (starting on p. 492).

*Intended purpose: special product for a decorative application. Not appropriate to use in other applications.

Electrical data	Mechanical data	Temperature data	Luminaire data
Nominal voltage [V DC]: 24 protection class: III Power input [W/m]: 14.4 Number of LEDs per metre: 60 Current [mA/Chip]: 60 Control: negative (4-core wire)	Separable length [mm]: 100 Short Pitch [mm]: 16.66 max. module length [mm]: 5,000	Ambient temperature [°C]: -10 - +40	Beam angle: 120° Light colour category: RGB

IP00



Article no./5 m	Article no./100 mm	Light colour	Light flux/m	Dimensions [W x H]:
15203001	75203001	red	about 160 lm	10 x 2.2 mm
		green	about 430 lm	
		blue	about 80 lm	
	75998000	Customization for protection class IP00		

IP60



Article no./5 m	Article no./100 mm	Light colour	Light flux/m	Dimensions [W x H]:
15223001	75223001	red	about 115 lm	10 x 2.5 mm
		green	about 309 lm	
		blue	about 57 lm	
	75999000	Customization for increased protection rating IP60		

Resistant silicon coating, impervious to any mechanical stress; wipeable.

IP67



Article no./5 m	Article no./100 mm	Light colour	Light flux/m	Dimensions [W x H]:
15273001	75273001	red	about 105 lm	12.7 x 5 mm
		green	about 282 lm	
		blue	about 52 lm	
	75999000	Customization for increased protection rating IP67		

White, light-reflecting support profile with resistant silicon coating. Optimum protection against mechanical stress and moisture; washable.



Building management services „Natelberg“, Rhaderfehn (Germany)

Accessories for 15203001 / 15223001 / 15273001

Fields of application

Individual colours or colour blending using the red, green and blue colour channels for decorative and accent lighting of lighting covers, linear applications and backlighting, such as furniture, shelves, display cases, shadow gaps and many others. Optimized for use with Brumberg RGB controls.

Driver

Starting on page 514, you can find appropriate drivers



Controllers

Starting on page 516, you can find controllers for all signal types
























Additional accessories

You can find feeds, connectors and direct connectors on page 519.

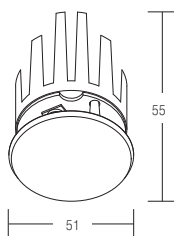


15726000 15729000 15732000

APPLICABLE PROFILES

 P. 494 IP00 IP60	 P. 495 IP00 IP60
 P. 496 IP00 IP60	 P. 497 IP00 IP60 IP67
 P. 498 IP00 IP60	 P. 499 IP00 IP60 IP67
 P. 500 IP00 IP60	 P. 501 IP00 IP60
 P. 502 IP00 IP60	 P. 503 IP00 IP60
 P. 504 IP00	 P. 505 IP00 IP60
 P. 506 IP00 IP60	 P. 507 IP00 IP60 IP67
 P. 508 IP00 IP60	 P. 508 IP00 IP60
 P. 509 IP00 IP60 IP67	 P. 510 IP00 IP60
 P. 511 IP00 IP60	 P. 512 IP00 IP60
 P. 513 IP00 IP60	

18101001 LED-RGB-lamp MR16



Specification

Incl. light source: 3 x RGB-LED full colour, power: 13,8 W, incl. optical lens 45°,
material: aluminium / plastic, connection cable: 4-wire

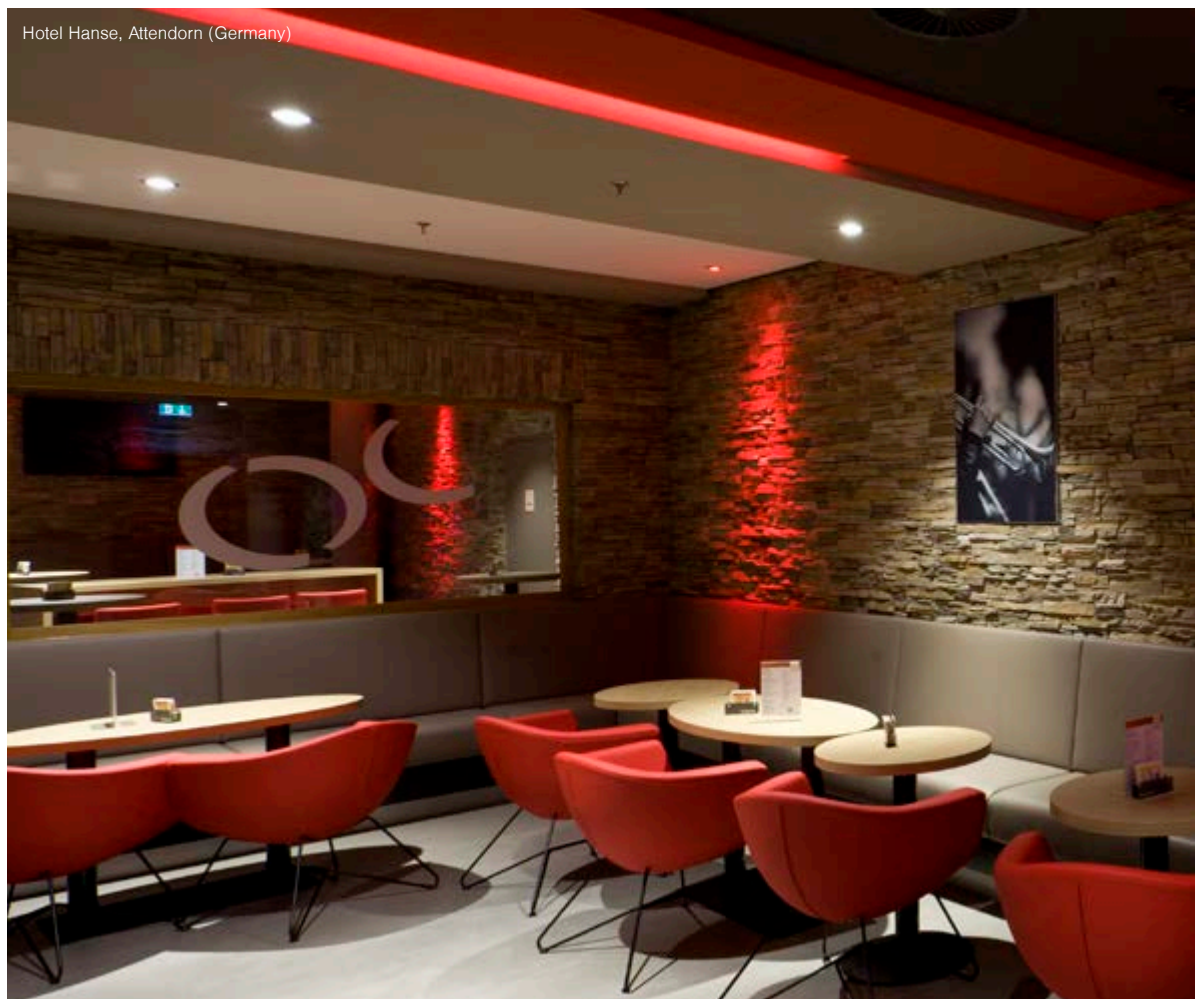
Article-no. Light colour

18101001 RGB 

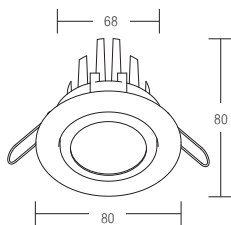
Important indication for system configuration:
control: negative, common anode (C.A)

Driver see page 644, control accessories from page 392.

Energy efficiency class: A



Hotel Hanse, Attendorn (Germany)

18145...
Recessed LED-RGB spot

Specification

Incl. light source: 3 x RGB-LED full colour, power: 13,8 W, incl. optical lens 45°, material: steel / aluminium / plastic, connection cable: 4-wire
Installation into suspended ceilings by spring fixation.

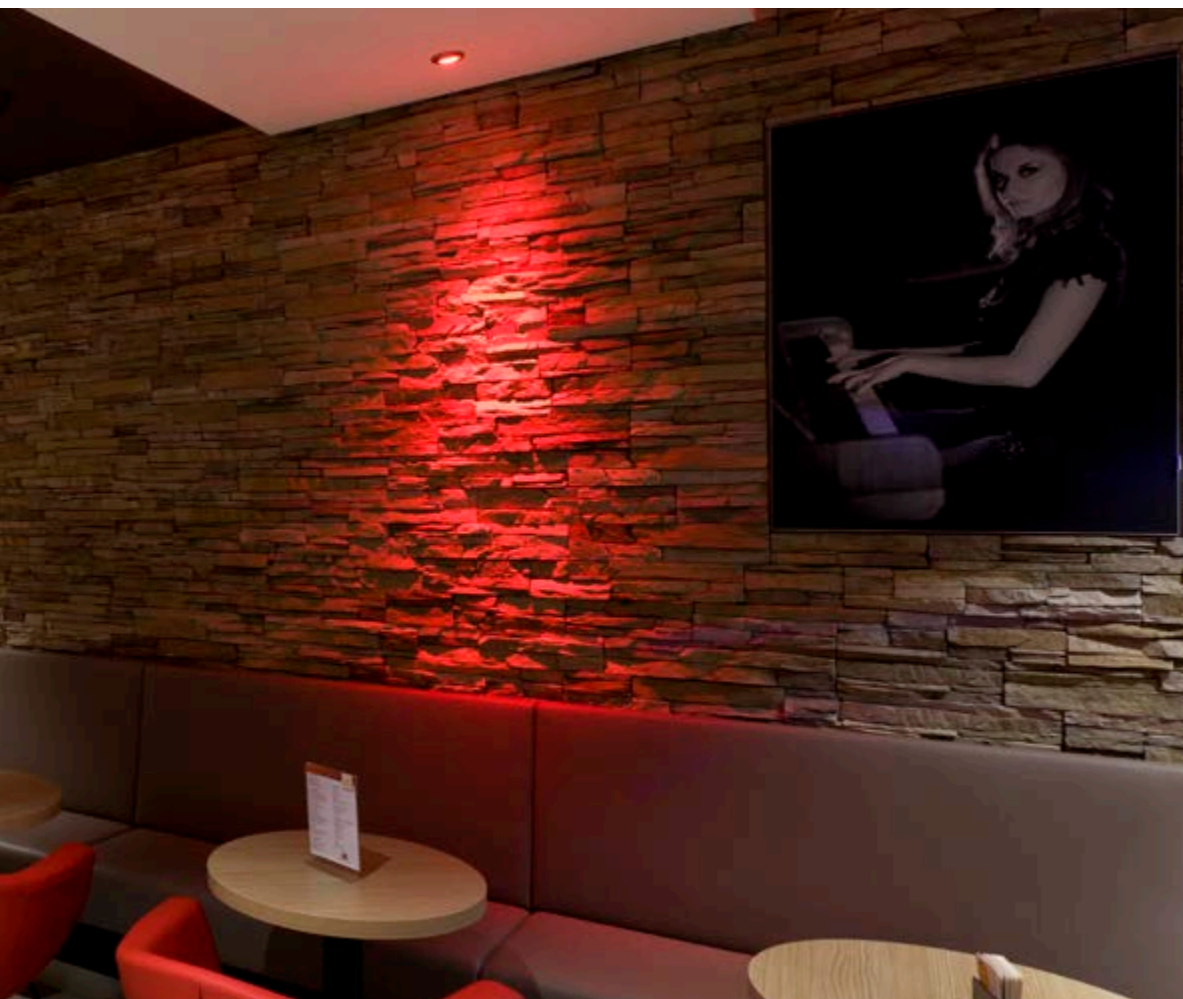
Important indication for system configuration:
control: negative, common anode (C.A)

Driver see page 644, control accessories from page 392.

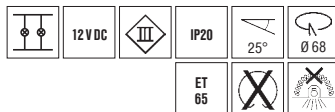
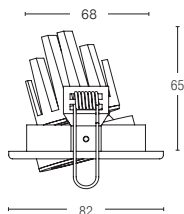
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Light colour
18145021	chrome	RGB
18145051	gold	RGB
18145071	white	RGB
18145151	nickel satin	RGB
18145171	textured white	RGB
18145201	stainless steel clear powdered	RGB
18145221	stainless steel	RGB
18145271	stainless steel white powdered	RGB




18110251 Recessed LED-RGB spots



Specification

Incl. light source: 3 x RGB-LED full colour,
power: 13,8 W, incl. optical lens 45°,
material: aluminium / plastic,
connection cable: 4-wire

Article-no.	Colour of cabinet	Light colour
18110251	alu satin	RGB 

Installation into suspended ceilings by spring fixation.

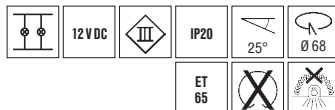
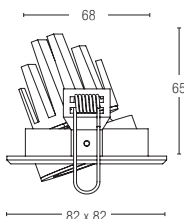
Important indication for system configuration:
control: negative, common anode (C.A.)

Driver see page 644, control accessories from page 392.

Energy efficiency class: A++ to A


This luminaire contains incorporated and non-exchangeable LED light sources.

18111251 Recessed LED-RGB spots



Specification

Incl. light source: 3 x RGB-LED full colour,
power: 13,8 W, incl. optical lens 45°,
material: aluminium / plastic,
connection cable: 4-wire

Article-no.	Colour of cabinet	Light colour
18111251	alu satin	RGB 

Installation into suspended ceilings by spring fixation.

Important indication for system configuration:
control: negative, common anode (C.A.)

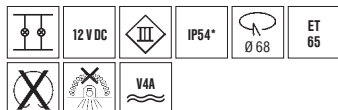
Driver see page 644, control accessories from page 392.

Energy efficiency class: A++ to A

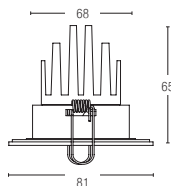
This luminaire contains incorporated and non-exchangeable LED light sources.

18112221

Recessed LED-RGB spots



*IP54 if installed in closed ceilings.



Specification

Incl. light source: 3 x RGB-LED full colour,
power: 13,8 W, incl. optical lens 45°,
material: stainless steel A4/AISI 316 / clear glass,
connection cable: 4-wire

Installation into suspended ceilings by spring fixation.

Important indication for system configuration:
control: negative, common anode (C.A.)

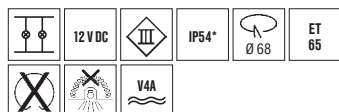
Driver see page 644, control accessories from page 392.

Energy efficiency class: A++ to A

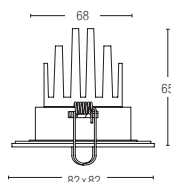
This luminaire contains incorporated and
non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Light colour
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18112221	stainless steel	RGB
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*IP54 if installed in closed ceilings.



18113221

Recessed LED-RGB spots

Specification

Incl. light source: 3 x RGB-LED full colour,
power: 13,8 W, incl. optical lens 45°,
material: stainless steel A4 / AISI316 / clear glass,
connection cable: 4-wire

Installation into suspended ceilings by spring fixation.

Important indication for system configuration:
control: negative, common anode (C.A.)

Driver see page 644, control accessories from page 392.

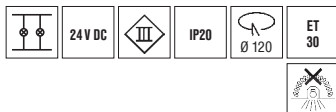
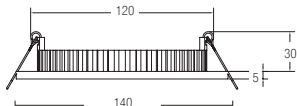
Energy efficiency class: A++ to A

This luminaire contains incorporated and
non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Light colour
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18113221	stainless steel	RGB
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18115071 LED-RGB-panel



Specification

Incl. light source: RGB-SMD-LED 3-1, material: aluminium / plastic, power: 8,5 W, beam angle: 120°, connection cable: 4-wire

Important indication for system configuration:
control: negative, common anode (C.A.)

Driver see page 644, control accessories from page 392.

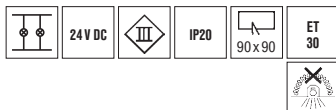
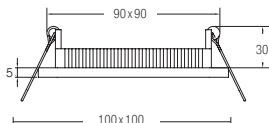
Article-no.	Colour of cabinet	Light colour
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18115071	white	RGB
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Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

18116071 LED-RGB-panel



Specification

Incl. light source: RGB-SMD-LED 3-1, power: 6 W, beam angle: 120°, material: aluminium / plastic, connection cable: 4-wire

Important indication for system configuration:
control: negative, common anode (C.A.)

Driver see page 644, control accessories from page 392.

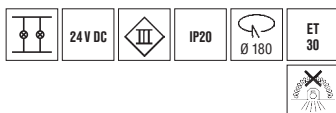
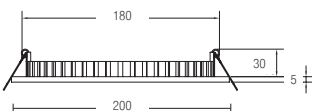
Article-no.	Colour of cabinet	Light colour
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18116071	white	RGB
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Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

18117071 LED-RGB-panel



Specification

Incl. light source: RGB-SMD-LED 3-1, power: 13 W, beam angle: 120°, material: aluminium / plastic, connection cable: 4-wire

Important indication for system configuration:
control: negative, common anode (C.A.)

Driver see page 644, control accessories from page 392.

Article-no.	Colour of cabinet	Light colour
-------------	-------------------	--------------

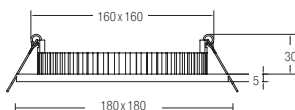
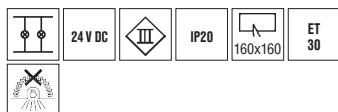
18117071	white	RGB
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Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.



18118071
LED-RGB-panel



Specification

Incl. light source: RGB-SMD-LED 3-1, power: 14 W, beam angle: 120°, material: aluminium / plastic, connection cable: 4-wire

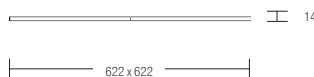
Important indication for system configuration:
control: negative, common anode (C.A.)

Driver see page 644, control accessories from page 392.

Article-no.	Colour of cabinet	Light colour
18118071	white	RGB

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.



18130001
LED-RGB-panel for mineral fibre ceilings



Specification

Incl. light source: RGB-SMD-LED 3-1, material: aluminium / plastic, power: 48 W, suitable for grid ceiling 625x625mm

Important indication for system configuration:
control: negative, common anode (C.A.)

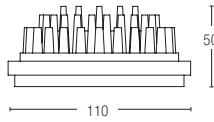
Driver see page 644, control accessories from page 392.

Article-no.	Colour of cabinet	Light colour
18130001	silver	RGB

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

18102001
LED-RGB-lamp QR111



Specification

Incl. light source: 6 x RGB-LED full colour, power: 28,0W, beam angle: 30°,
material: aluminium cast, connection cable: 4-wire

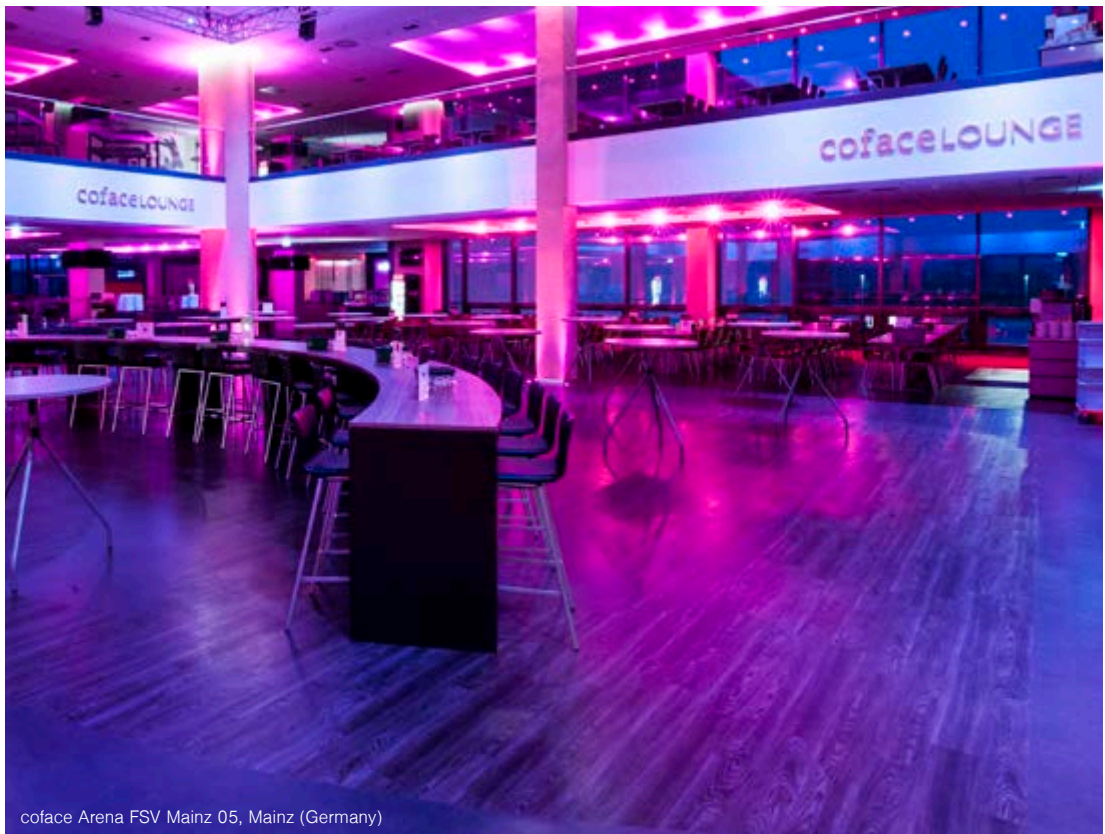
Article-no. Light colour

18102001 RGB

Important indication for system configuration:
control: negative, common anode (C.A.)

Energy efficiency class: A

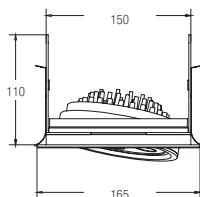
Driver see page 644, control accessories from page 392.



coface Arena FSV Mainz 05, Mainz (Germany)

18119251

Recessed LED-RGB spot



Specification

Incl. light source: 6 x RGB-LED full colour, power: 28,0 W, beam angle: 30°, rotatable 355°, material: aluminium,

Article-no. Colour of cabinet Light colour

18119251 alu satin RGB 

Installation into suspended ceilings by spring fixation (thrust spring).

Important indication for system configuration:
control: negative, common anode (C.A.)

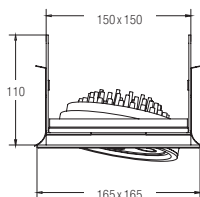
Driver see page 644, control accessories from page 392.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

18120251

Recessed LED-RGB spot



Specification

Incl. light source: 6 x RGB-LED full colour, power: 28,0 W, beam angle: 30° material: aluminium, rotatable

Article-no. Colour of cabinet Light colour

18120251 alu satin RGB 

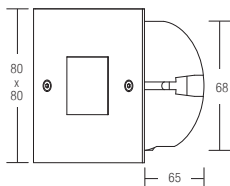
Installation into suspended ceilings by spring fixation (thrust spring).

Important indication for system configuration:
control: negative, common anode (C.A.)

Driver see page 644, control accessories from page 392.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

18126221**LED-RGB-recessed wall light****Specification**

Incl. light source: 1 x RGB-LED Multicolor, power: 1,0W,
material: stainless steel / acrylic opal / plastic,
connection cable: 4-wire,
recessing box Ø 68 mm / installation depth 65 mm

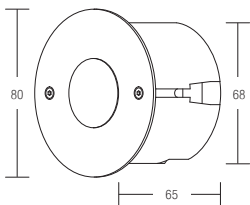
Important indication for system configuration:
control: negative, common anode (C.A.)

Driver see page 644, control accessories from page 392.

Energy efficiency class: A++ to A

This luminaire contains incorporated and
non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Light colour
18126221	stainless steel	RGB

18127221**LED-RGB recessed wall light****Specification**

Incl. light source: 1 x RGB-LED Multicolor, power: 1,0W,
material: stainless steel / acrylic opal / plastic,
connection cable: 4-wire,
recessing box Ø 68 mm / installation depth 65 mm

Important indication for system configuration:
control: negative, common anode (C.A.)

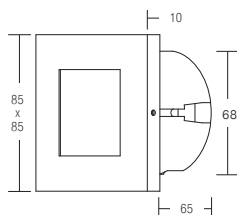
Driver see page 644, control accessories from page 392.

Energy efficiency class: A++ to A

This luminaire contains incorporated and
non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Light colour
18127221	stainless steel	RGB

18140... LED-RGB-recessed wall light



Specification

Incl. light source: 1 x RGB-LED Multicolor, power: 1,0 W,
material: stainless steel / acrylic opal / plastic,
connection cable: 4-wire
recessing box Ø 68 mm / installation depth 65 mm

Important indication for system configuration:
control: negative, common anode (C.A.)

Driver see page 644, control accessories from page 392.

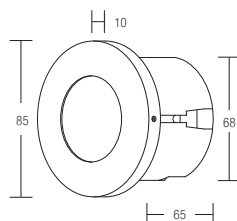
Energy efficiency class: A++ to A

This luminaire contains incorporated and
non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Light colour
18140171	textured white	RGB
18140201	stainless steel	RGB

18140171	textured white	RGB
18140201	stainless steel	RGB

18141... LED-RGB wall recessed light



Specification

Incl. light source: 1 x RGB-LED Multicolor, power: 1,0 W,
material: stainless steel / acrylic opal / plastic,
connection cable: 4-wire,
recessing box Ø 68 mm / installation depth 65 mm

Important indication for system configuration:
control: negative, common anode (C.A.)

Driver see page 644, control accessories from page 392.

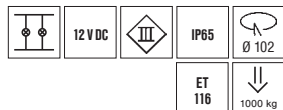
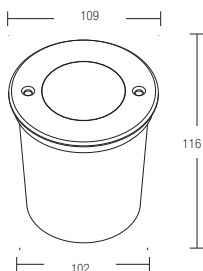
Energy efficiency class: A++ to A

This luminaire contains incorporated and
non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Light colour
18141171	textured white	RGB
18141201	stainless steel	RGB

18141171	textured white	RGB
18141201	stainless steel	RGB

18131201 Ground recessed LED-RGB luminaire



Specification

Incl. light source: 6 x RGB-SMD-LED full colour, power: 1,5W
 material: stainless steel / aluminium / glass frosted,
 incl. mounting sleeve (Ø 102 x 111 mm),
 incl. 1000 mm connection cable, 4-wire

Important indication for system configuration:
 control: negative, common anode (C.A.)

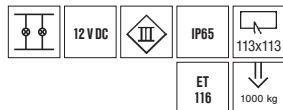
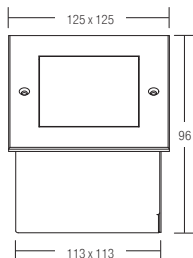
Driver see page 644, control accessories from page 392.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Light colour
18131201	stainless steel	RGB

18132201 Ground recessed LED-RGB luminaire



Specification

Incl. light source: 6 x RGB-SMD-LED full colour, power: 1,5W,
 material: stainless steel / aluminium / glass frosted / plastic,
 incl. mounting sleeve (113 x 113 x 96 mm),
 incl. 1000 mm connection cable, 4-wire

Important indication for system configuration:
 control: negative, common anode (C.A.)

Driver see page 644, control accessories from page 392.

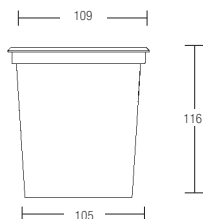
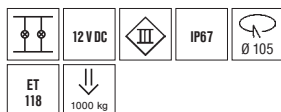
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Light colour
18132201	stainless steel	RGB

18133201

Ground recessed LED-RGB luminaire



Specification

Incl. light source: 3 x RGB-LED full colour, power: 13,8 W, beam angle: 45°,
 material: stainless steel / aluminium / clear glass
 incl. mounting sleeve (Ø 104,5 x 114,5 mm)
 incl. 1000 mm connection cable

Article-no.	Colour of cabinet	Light colour
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18133201	stainless steel	RGB
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Important indication for system configuration:
 control: negative, common anode (C.A.)

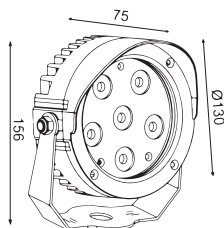
Driver see page 644, control accessories from page 392.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

18135111

LED-RGB surface- and earth spike flood light



Specification

incl. light source: 6 x RGB-Multicolor-LED,
 power: 26 W, beam angle: 30°,
 material: aluminium / clear glass,
 incl. 5000 mm connection cable, incl. swivel bracket, 4-wire

Article-no.	Colour of cabinet	Light colour
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18135111	grey / aluminium	RGB
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Important indication for system configuration:
 control: negative, common anode (C.A.)

Driver see page 644, control accessories from page 392.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Optional accessory:

Earth spike article-no.: 18136000



18187000 RGB-controller and radio remote control



Specification

Voltage: 12-24 VDC, Power: max. 6 A per channel, output: max. 216 W / 432 W (12 V DC / 24 V DC), Control: negative (shared anode), common anode (C.A.) radio frequency: 2.4 GHz, range: ~30 m, adjustable dimming range: 5-100%, controller connection through screw terminals, controller dimensions (L x W x H): 85 x 45 x 23 mm, radio remote control dimensions (L x W x H): 120 x 52 x 20 mm, radio remote control batteries: 3 VDC / 2x AAA (not included).

This pure RGB radio control creates 3 PWM signals to control the colour of RGB LED modules.

The following functions are possible through the remote touch operation:

- Intuitive colour adjustment via the colour selection wheel.
- Selection of 9 colour change programmes.
- Brightness adjustment of static colours through the touch field.
- Speed adjustment of colour change in the running programme.
- Up to 4 switch groups via remote control (multi-room operation).
- Separate on and off switch of all 4-switch groups of the lighting unit.
- Synchronisation of all 4-switch groups via a long push of the button.

Note:

Any desired number of LED controllers may be allotted for one zone. Each LED controller can be connected with a maximum of four radio remote controls.

Article-no.	Description
18187000	RGB-Set (Controller incl. radio remote control)

Article-no.	Description
18188000	RGB controller, single
18189000	RGB radio remote control, single



Hotel Atrium, Mainz (Germany)

18192000

Master/Slave RGB remote radio control RGB(W)



Specification

Voltage: 12-36 V DC; current: max. 5 A per channel
(for 18195000: maximum 2.5 A per channel or 3 x 3.3 A),
RGB power: max. 180 W / 360 W (12 V DC / 24 V DC),
RGBW power: max. 240 W / 480 W (12 V DC / 24 V DC),
control: negative (common anode (C.A.)); radio frequency: 868 MHz,
Dimming range: 0-100%; dimensions (L x W x H): 160 x 45 x 18 mm

The RGB radio control creates 3 signals to control the colour of LED modules.

Required control accessories:

RGB radio remote control 18193000, alternatively glass touch panel 18194...

After training the radio control 18192000 onto the remote control or glass touch panel, the control can be used as a radio master or radio slave (max. 4 units) for a power extension of the system.

For larger RGB(W) systems (> 4 controls), a wired RGB(W)-control slave 18195000 must be used. Please refer to the technical description for additional functions.

Article-no.	Description
18192000	Master controller
18195000	Slave controller, tethered

18193000

Remote control for RGB (w) control unit 18192000



Specification

Dimensions: 120 x 50 x 15 mm; frequency: 868 MHz; range: up to 20 m,
batteries: 3 x 1.5 V DC AAA (not included).

Article-no.
18193000

The following functions are available using the remote control:

- Intuitive colour setting using the touch colour dial (RGB)
- Choice of 4 different programmes (soft colour change, soft colour change warm colours, soft colour change cool colours, hard colour change)
- Increasing and decreasing the programme speed
- Increasing and decreasing brightness using the function button + colour dial
- Operating and selecting 2 separate zones (multi-room control) using a remote control
- Switching the lighting system on and off
- Up to 4 colours can be directly saved and called up using the appropriate buttons

18194...

Wall-mounted-panel for RGB(W) control unit 18192000



Specification

Dimensions: 86 x 86 x 12 mm; frequency: 868 MHz; range: up to 20 m, nominal voltage: 110 - 230 V AC / 50 Hz.

The following functions are available using the wall panel:

- Intuitive colour setting using the touch colour dial (RGB)
- Choice of 10 colour changing programmes
- Start / stop, changing the colour change programme using one button
- Direct access to the colours (red / green / blue / white)
- Operating and selecting 4 separate zones (multi-room-control) using a wall panel
- Switching the lighting system on and off
- Up to 4 colours can be directly saved and called up using the appropriate buttons

Article-no.	Colour
18194070	white
18194080	black

18186000
LED-RGB control

Specification

Voltage: 12-24 V DC, current: max. 2,5 A (0,83 per channel), power consumption: max. 30 W / 60 W (12 V DC / 24 V DC), control: negative common anode (C.A.), colour-control: potential free button dimensions: 190 x w30 x h19 mm .

Article-no.
18186000

This control unit is to be used for pre-programmed colour flow control of LED modules. The control unit produces 3 PWM control signals for colour control of LED modules. The 3 PWM signals are controlled by an externally connected push-button and a pre-programmed programme sequence.

The following functions can be selected:

- recall of a colour flow with three different and variable speeds in colour flow
- colour tone recall and storage of a colour flow

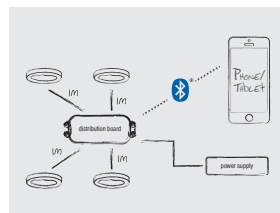
In case of an interruption and re-start of the supply voltage, the control unit starts with the lastly selected function (colour flow or selected colour tone).

CA-control / common anode

vitaLED® 2.0

vitaLED® smart

414



vitaLED® 2.0
ceiling

424



vitaLED® 2.0
wall mounted

442





vitaLED® 2.0
outdoor

443



vitaLED® 2.0
flexible strip

444



vitaLED® 2.0
accessories

446

EMOTION. SAFETY. INDIVIDUALITY.

Light that's perfect for me.








vitaLED®: the intelligent lighting system that can be adapted to the needs of your everyday life. It creates just the light you need or want at the moment and it can energize you or help you rest. Discover the new possibilities of modern lighting technology with vitaLED®.

Greeting

The innovations that have emerged in the area of lighting in the last few years are astounding. Remarkable new possibilities are now available for markets and for uses of lighting. LED technology is moving ever closer to becoming the mainstay of lighting. Is it still possible to improve the quality of life with lighting techniques? With vitaLED®, BRUMBERG presents a system that takes on the challenge. The advantages and possibilities of this new lighting system are fascinating.

Sincerely,
Brumberg Family

There are many kinds of light.
The difference is how we use it.

 Purchasing, Product presentations	 Offices, educational places	 Reception, Foyer	 Hotel, Gastronomy	 Care-giving sector, age-based living	 Spa & bathrooms	 Living areas
upvaluing shopping experiences	Improving performance and motivating	Creating a pleasant welcoming atmosphere	Occasion-related lighting	Promoting sociability	Creating peaceful oases	Creating a needs-oriented lighting atmosphere
Guiding customers	Encouraging creativity and communication	Generating a positive first impression	Experience-gastronomy	Curtailing dementia and depression	Getting rid of stress	Purpose-related lighting
Staging of brand worlds	Working effectively	Encouraging communication	Accentuating buildings and designs	Improving the performance of nursing and care-giving staff	Activating the metabolism	Balancing out season-related lack of light
Creating positive buying impulses	Introducing inactive phases / calming effect	making waiting times pleasant	Creating an atmosphere of well-being	Supporting waking and resting phases	Light therapy	Brightening up the mood
Extension of shopping times in shopping centres	Maximising concentration and performance capacities	Enabling individuality	Creating spatial structure	Reducing therapy times	Activation in the morning and recreation in the evening	Smart home / dynamic arrangement of lighting

The applications mentioned are based on the ZVEI study entitled "Human Centric Lighting" by A.T.K. (Bühner, 2013).

INNOVATIVE LIGHTING TECHNOLOGY

Wellbeing thanks to Vital Light.



Prof. Dr. Ulrich Kuipers
college of higher education

New LED-based lighting technologies not only make significant savings of electrical energy and the reduction of CO₂ emissions possible, they also provide healthy light that will positively influence your sense of well-being and ability to perform. This requires artificial light to change throughout the day like natural light. vitaLED® makes such light control possible. The human retina contains photo-receptors that are sensitive to blue light and control the production of important hormones in the brain such as melatonin, serotonin and cortisol. Melatonin affects our sleep cycles, making us tired and lowering our activity, whereas cortisol is a stress hormone and serotonin brightens our moods and motivates us.

vitaLED® was developed in collaboration with the new lighting technologies research center at the Southwest Westphalia University of Applied Sciences. It is controlled via ethernet, wifi or Bluetooth. vitaLED® can bring the positive effects of the changing color of light throughout a beautiful, sunny day into your interior spaces.

Light influences hormone production

Photoreceptors in the eyes (the retinal ganglion cells) control hormones in the brain, such as melatonin, serotonin and cortisol, but also adrenaline and other hormones instantaneously:

- Melatonin controls the day-night rhythm (less light → raised level of melatonin / the tiredness raises).
- Adrenaline speeds up the heart and raises the blood pressure. It causes narrowing of the pupils and contraction of the musculature.
- Cortisol regulates the blood sugar. It improves the will to work and concentration.
- Serotonin (commonly referred to as the happiness hormone) is produced in opposition to melatonin. It increases the feeling of well-being, speeds up the contractions of the heart and raises the temperature of the body. If the proportion of blue light is increased, the craving for carbohydrates is reduced (serotonin is found in chocolate, nuts, pralines etc.)

The regulation of the production of these hormones is affected by the level of blue light. Cold light has high levels of blue light – it has an activating effect, melatonin production is suppressed and serotonin is produced instead. Warm light has a low percentage of blue light and a high level of red light – it has a calming, relaxing effect.

A change from warm light to cold light has an activating effect. A change from cold light to warm light has a calming effect.

Physical basis of vitaLED®

- Generation-spanning light concept
- Regulation of light colour and light intensity
- Natural light representation
- Energy efficient
- Hardly any maintenance required
- Dynamic changes in light spectra and light colours
- A diverse range of possibilities for control (Smartphones, tablets, remote control devices, wall panels)
- Light control via secondary optics and reflector technology
- An average life of more than 50,000 hours
- Optimized thermo-management which results in minimized temperatures, a higher level of efficiency and a longer product life time
- Almost unlimited number of lights controllable
- The 4-Chip LED allows displaying individual colours with optimal intensity.
- The acromatic field can be variably controlled from 2,000 to 10,000 Kelvin

Scientifically substantiated basis

In 2002, researchers discovered receptors in the retina of the eye, which are not required for sight, but rather are responsible for hormone regulation. They were thus able to explain how the entire spectrum of light regulates human hormone production.

Prof. Dr. Ulrich Kuipers, who in 2002 established a research study into "New Lighting Technologies", funded and recognised by the German Ministry of Science, continues to research the effect that lighting has on hormone regulation. Originally, Prof. Dr. Kuipers researched exactly which light curves represent daily routine most precisely and the wavelengths of which light is composed at specific times of the day. In cooperation with Prof. Kuipers, BRUMBERG developed the vitaLED® control for a RGBW-LED light source with 4 rather than 3 LED chips, that are able to reproduce all the daylight colours by producing not only red, green and blue light, but white light as well. In this project, various activating or calming lighting scenes were developed, which can be called up automatically with the vitaLED® control that is currently available.

In 2010, BRUMBERG'S intelligent lighting system was presented in the form of a study at the world's leading light and building technology trade fair "light+building" in Frankfurt. In addition to the RGB colour range, vitaLED® also allows the smooth regulation of the entire white light range. This creates atmosphere through the colour of light and the colour gradients. In addition, it has the advantage of creating "vital" light, which supports the performance curve in harmony with human biorhythms. This led to the development of vitaLED® in cooperation with Prof. Dr. Ulrich Kuipers and the South Westphalia University of Applied Sciences.

New auditorium with vitaLED® at the "University of Applied Sciences Südwestfalen" (Germany)



LIGHT STIMULATES.

The psychological effects of the colour of light.

Light as a fundamental part of everyday life has a great influence on our biorhythms and supports biological processes and keeps us energized and ready to perform. These processes are constantly adapted with the changes in our environment, but there isn't always enough light available when we want it. People spend nearly 90% of their lives indoors.

vitaLED®, when combined with modern lighting design, provides biologically active light that makes it possible to compensate for the lack of light in a way that reflects the processes in nature. This provides optimal support for periods of activity and rest and thus helps to keep people healthy and fit.

Biologically active artificial lighting can be switched on or adjusted continuously and automatically depending on the available daylight. Daylight and artificial light should complement each other and not compete when lighting indoor spaces. Combining the two both saves energy and also increases the quality of lighting.

A feeling of well-being

A feeling of spiritual well-being can be promoted by appropriate lighting. Inner contentment and stress resistance are positively influenced.

Activity

More and less active phases in the daily routine can be positively influenced by varying combinations of light colours. The right light colour during interruptions of the resting period prevents undesired activation of the body and favours healthy recuperation.

Energy

Light plays a decisive role in maintaining human energy levels throughout the day.

Health

Optimal light colour can favour the production of anti-stress hormones, thereby promoting good health. Certain light ambiances can even repress the appetite.



Health



Well-being



Energy



HEALTHY LIGHT ACROSS THE GENERATIONS

Accessibility and safety play an ever-greater role in evaluating technical applications and products. In particular, potential customers from the steadily increasing 50+ age group have these particular requirements for products going far beyond the care sector.

The vitaLED® intelligent lighting system was awarded the “very good” seal of approval by the GGT (German Association for Gerontechnology). It was honoured for its ability to create “vital” light that supports the performance curve in harmony with human biorhythms. According to the managing director, Martina Koepp, the “very good” seal is not awarded very often – a sign that this system offers a solution that creates enthusiasm across generations and influences everyday life positively!

Test people of various ages, who were selected by the GGT, tested the complete vitaLED® lighting system with all its control options and various light sources. The results were extremely positive throughout, and the simple operation and multi-functional possibilities for use really stood out.





GENERATION 2.0

The intelligent lighting solution vitaLED® supports the human biorhythm, thereby increasing the general well-being as well as improving concentration and productivity. The secret lies in the blue ray portion of the white light spectrum which can have positive effects on humans. Under these conditions, the light is able to develop its scientifically proven therapeutic effect.

Hereby, the new-generation vitaLED® 2.0 differs from its predecessors especially through its more convenient operability: Thanks to the 'multi-room' control system, different scenes and adjustments can be selected and synchronized for several zones simultaneously. As before, the different lighting scenes can simply be called via the browser interface of the LAN module. A significant improvement for the user is presented by coupling the LAN module with an 8-channel push-button unit. The push-button unit permits stored lighting scenes to be called conveniently via the LAN module.

As an alternative, a radio remote control unit and a sensor touch panel are available, both in a new design. Also new are the 2-, 4-, and 8-channel units, with which pre-defined lighting scenes can be selected from the master control unit at the push of a button.

The entire system is fitted with more efficient electronics and has higher light outputs, thereby reducing energy costs. Moreover, the control of the circadian lighting curves has been improved and now also offers the possibility for a real-time synchronization.

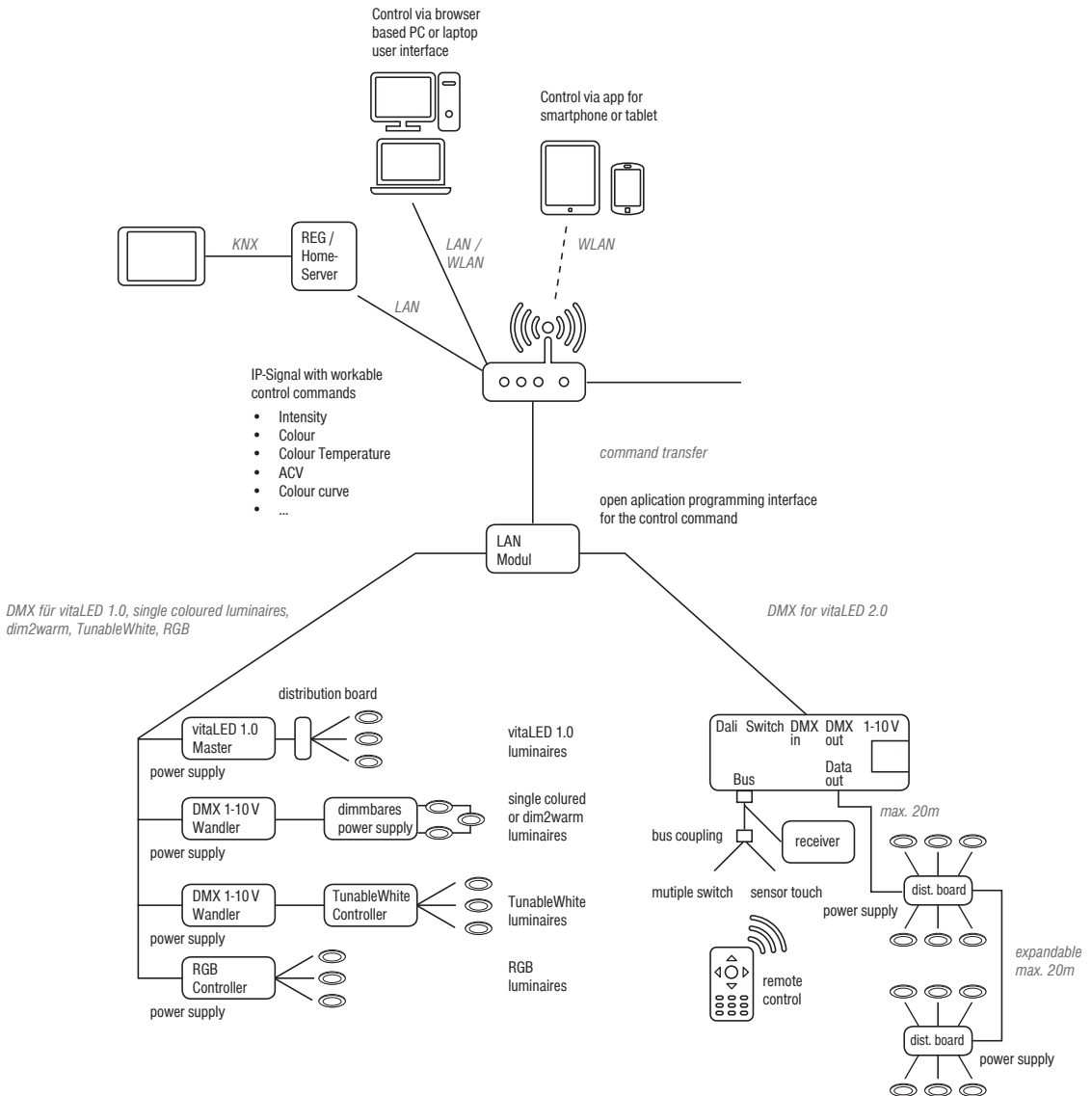
Also in terms of luminaire variety and design options, vitaLED® 2.0 opens up new possibilities. In addition to new downlights in various sizes and shapes, our portfolio now also includes wall mounted luminaires so that users are able to configure the perfect lighting solution for every application.

Summary of the most important functions of vitaLED® 2.0:

- New luminaire designs
- Real-time-synchronization of circadian lighting curve
- Easy-to-handle system configuration with central intelligence
- Master parallelly addressable via diverse control options
- Various groups can be controlled separately and synchronously
- Optimized colour sequences

SIMPLY SMART

Control solution at your purpose







DORN
BRACHT

Dornbracht represents the highest manufacturing quality, advanced products and innovative design. In its products Dornbracht relies on vitaLED®. With their premium taps that have received many international awards, this family business has become the driving force behind developments and trends throughout the entire branch. World-wide! Their success story is based on their 60-year old principle that change should not be seen as a compulsion, but rather as an opportunity.

The family-run businesses Dornbracht and BRUMBERG work together at designing solutions for exclusive spas and bathrooms. These promote increased quality of life and are becoming the yardstick for these areas of use.



Experiences with vitaLED® in the JUNG KNX training laboratory.

On the occasion of the renovation of the ceiling of the JUNG-KNX training lab, we seized the opportunity to replace the 20-year-old fluorescent louver luminaires and LV halogen lighting, with vitaLED® lighting system from BRUMBERG. The LED lights were optimally positioned in the room with the help of BRUMBERG's light planning team. In contrast to the previous lighting, they resulted in much better, more uniform distribution of light on the KNX workbenches and the individually arranged desks. The vitaLED® lighting, in conjunction with the JUNG Facility Pilot, also offers diverse possibilities for lighting with regard to brightness, colour temperature, colours etc. and requires a minimized power input.

Particularly worth mentioning is the effect of the vital lighting. We create day-light curves that are controlled by the Facility Pilot. This means that during a training session, the circadian factor ACV increases throughout the morning, reaching a peak between 13H00 and 14H00 and then begins to decrease again in the afternoon. The participants are clearly no longer as sleepy and sluggish after lunch as they would have been with the original lighting. On the contrary, they participate with an interest as fresh as was apparent in the morning. This effect has been noticeable in each of the groups that have participated in training sessions since the vitaLED® lighting was installed. This fact alone has made the use of vitaLED® worthwhile for us.



Eugen Streicher, Manager of Training Centre, Albrecht JUNG

JUNG



As a manufacturer of system solutions for electrical installations, JUNG delivers the know-how for the incorporation of vitaLED® into intelligent technology in buildings. In this manner, the atmosphere in rooms is improved, not only due to the light and colour spectra. The other functions of the room are also included, thereby resulting in a harmonious overall picture. With the KNX Software "Facility-Pilot", the vital light control is linked to the regulation of the KNX functions, completely in accordance with the expectations of the user.

In this way, for example, the selected RGBW lighting atmosphere can be combined into a scene with the desired temperature and suitable music, and it is easily activated. With the JUNG KNX Smart-Displays, it can also be controlled intuitively: All the functions are placed together on a standard control panel and can be controlled by touch. Of course, this applies equally to living areas, business premises and public buildings.



GETTING STARTED WITH DYNAMIC LIGHTING

Flexible lighting. Simple. Smart.

The new vitaLED® smart lighting solution is the ideal introduction to a professional dynamic 4-channel colour lighting system. The advantages of this new solution are the ease of installation and the extremely simple and intuitive operation and control of the system.

For the installation of a vitaLED® smart system all you need is a network device, a Bluetooth distributor, as well as connecting cables and lights. The connection between distributor and lights requires no tools. This means that the installation of a vitaLED® smart system is no more complicated than installing a classic low-voltage lighting system!

To control the colour lighting system all you need is the App installed on your smartphone or tablet device. Signal transmission is via Bluetooth connection so you don't even need a wireless WLAN network. Any available switch /button still function and when the system is switched on it displays the most recently used coloured light. So you don't even have to have your smartphone or tablet on hand.

The difference to the proven generation 2.0 vitaLED® system is only that the vital progress and colour contrasts have not been implemented.

Naturally, with vitaLED® smart you can also control

different zones or rooms using the App. Your device recognizes every Bluetooth distributor in range, so you only need to select the desired distributor and off you go.

Whether for your living room, the bathroom or your entrance area - vitaLED® smart is the perfect system for a unique lighting experience!

The benefits of vitaLED® smart at a glance:

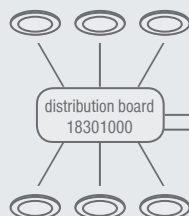
- Ease of installation
- Requires no wireless network or external control signals
- Simple and intuitive operation via smartphone or tablet (iOS + Android)
- Colour and white light steplessly adjustable
- Selection of light mood from your personal photo
- Targeted selection of mixed colours



vitaLED®
smart

System

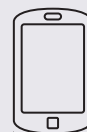
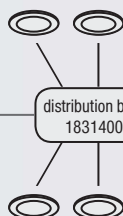
max. 6 luminaires



extensible
max. 50m

power supply

max. 4 luminaires



power supply





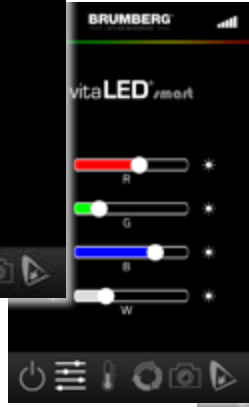
Connection-Screen

The "Connection-Screen" displays available Bluetooth distributors. These can be activated and renamed at this screen.



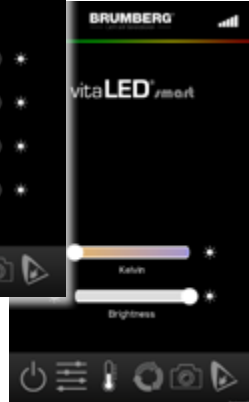
ON/OFF-Screen

The selected zone can be switched on and off with just a tap on the "ON/OFF" screen.



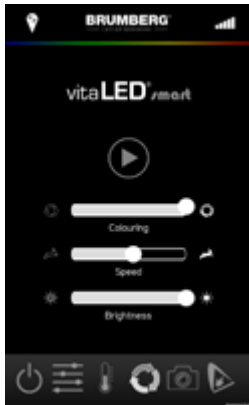
Channel-Screen

All four colour channels (R/G/B/W) can be individually controlled using the "Channel Screen".



Kelvin-Screen

Colour temperature in the white light range can be steplessly adjusted from 2000 to 10000 Kelvin using the "Kelvin Screen". The selected colour value can also be steplessly dimmed from 100% to 10%.



ColourRun-Screen

The colour gradient in the saturation, speed and brightness can be controlled using the "ColourRun Screen".

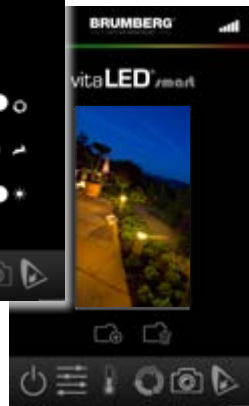


Photo-Screen

The "Photo-Screen" enables a personal image to be loaded. By tapping an area of the photo this is then selected as the light mood.



Triangle-Screen

The "Triangle-Screen" can be used to select a specific colour from the colour triangle.

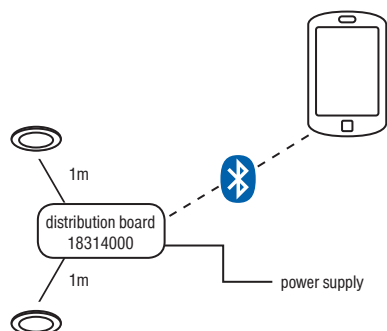
The App-Screens



18339... / 18340... / 18373... vitaLED® smart basic and extension kits

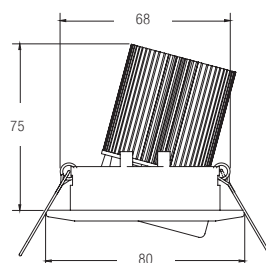


NEW



Memory function: If the 230 V power supply is disconnected, the last light value set is stored.

System requirements:
min. Android 4.3 or iOS 7.1 / min. Bluetooth 4.0 (Bluetooth LE)



Specification

Incl. light source: 3 x RGBW LED, output: max. 14 W per bulb, material: steel/plastic, angle: 40°

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

2-fold basic kit

Article-no.	Colour of cabinet	Light colour
18333022	chrome	RGBW
18333152	nickel satin	RGBW

consisting of 2 lights, Bluetooth® device, power supply and plug & play connection cables (distributor -> light) 1000 mm

4-fold basic kit

Article-no.	Colour of cabinet	Light colour
18334022	chrome	RGBW
18334152	nickel satin	RGBW

consisting of 4 lights, Bluetooth® device, power supply and plug & play connection cables (distributor -> light) 1000 mm

4-fold extension kit*

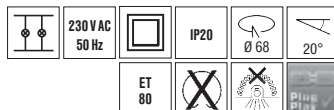
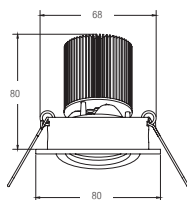
Article-no.	Colour of cabinet	Light colour
18373022	chrome	RGBW
18373152	nickel satin	RGBW

consisting of 4 lights, distribution, power supply and plug & play connection cables 2000 mm

*As extension for a 2- or 4-fold kit.

18335... / 18336 / 18375

vitaLED® smart basic and extension kits



Memory function: If the 230 V power supply is disconnected, the last light value set is stored.

System requirements:
min. Android 4.3 or iOS 7.1 / min. Bluetooth 4.0 (Bluetooth LE)

NEW

Specification

Incl. light source: 3 x RGBW LED, output: max. 14 W per bulb, material: aluminum/plastic, angle: 40°

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

2-fold basic kit

Article-no.	Colour of cabinet	Light color
18335072	white	RGBW
18335252	alu satin	RGBW

consisting of 2 lights, Bluetooth®device, power supply and plug & play connection cables (distributor -> light) 1000mm

4-fold basic kit

Article-no.	Colour of cabinet	Light color
18336072	white	RGBW
18336252	alu satin	RGBW

consisting of 4 lights, Bluetooth®device, power supply and plug & play connection cables (distributor -> light) 1000 mm

4-fold extension kit*

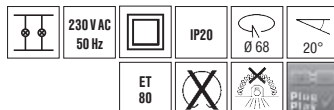
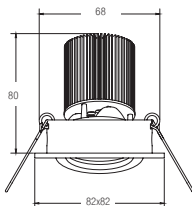
Article-no.	Colour of cabinet	Light color
18375072	white	RGBW
18375252	alu satin	RGBW

consisting of 4 lights, distribution, power supply and plug & play connection cables 2000 mm

*As extension for a 2- or 4-fold kit.

18337... / 18338 / 18377

vitaLED® smart basic and extension kits



Memory function: If the 230 V power supply is disconnected, the last light value set is stored.

System requirements:
min. Android 4.3 or iOS 7.1 / min. Bluetooth 4.0 (Bluetooth LE)

NEW

Specification

Incl. light source: 3 x RGBW LED, output: max. 14 W per bulb, material: aluminum/plastic, angle: 40°

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

2-fold basic kit

Article-no.	Colour of cabinet	Light color
18337072	white	RGBW
18337252	alu satin	RGBW

consisting of 2 lights, Bluetooth®device, power supply and plug & play connection cables (distributor -> light) 1000 mm

4-fold basic kit

Article-no.	Colour of cabinet	Light color
18338072	white	RGBW
18338252	alu satin	RGBW

consisting of 4 lights, Bluetooth®device, power supply and plug & play connection cables (distributor -> light) 1000 mm

4-fold extension kit*

Article-no.	Colour of cabinet	Light color
18377072	white	RGBW
18377252	alu satin	RGBW

consisting of 4 lights, distribution, power supply and plug & play connection cables 2000 mm

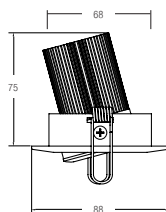
*As extension for a 2- or 4-fold kit.

18339... / 18340... / 18379... vitaLED® smart basic and extension kits



Memory function: If the 230 V power supply is disconnected, the last light value set is stored.

System requirements:
min. Android 4.3 or iOS 7.1 / min. Bluetooth 4.0 (Bluetooth LE)



NEW

Specification

Incl. light source: 3 x RGBW LED, output: max. 14 W per bulb, material: cast/plastic, angle: 40°

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

2-fold basic kit

Article-no.	Colour of cabinet	Light color
18339022	chrome	RGBW
18339072	white	RGBW
18339152	nickel satin	RGBW

consisting of 2 lights, Bluetooth®device, power supply and plug & play connection cables (distributor -> light) 1000 mm

4-fold basic kit

Article-no.	Colour of cabinet	Light color
18340022	chrome	RGBW
18340072	white	RGBW
18340152	nickel satin	RGBW

consisting of 4 lights, Bluetooth®device, power supply and plug & play connection cables (distributor -> light) 1000 mm

4-fold extension kit*

Article-no.	Colour of cabinet	Light color
18379022	chrome	RGBW
18379072	white	RGBW
18379152	nickel satin	RGBW

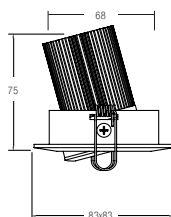
consisting of 4 lights, distribution, power supply and plug & play connection cables 2000 mm

*As extension for a 2- or 4-fold kit.



Memory function: If the 230 V power supply is disconnected, the last light value set is stored.

System requirements:
min. Android 4.3 or iOS 7.1 / min. Bluetooth 4.0 (Bluetooth LE)



NEW

18341... / 18342 / 18381 vitaLED® smart basic and extension kits

Specification

Incl. light source: 3 x RGBW LED, output: max. 14 W per bulb, material: cast/plastic, angle: 40°

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

2-fold basic kit

Article-no.	Colour of cabinet	Light color
18341022	chrome	RGBW
18341072	white	RGBW
18341152	nickel satin	RGBW

consisting of 2 lights, Bluetooth®device, power supply and plug & play connection cables (distributor -> light) 1000 mm

4-fold basic kit

Article-no.	Colour of cabinet	Light color
18342022	chrome	RGBW
18342072	white	RGBW
18342152	nickel satin	RGBW

consisting of 4 lights, Bluetooth®device, power supply and plug & play connection cables (distributor -> light) 1000 mm

4-fold extension kit*

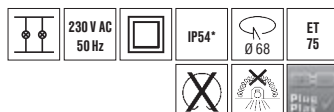
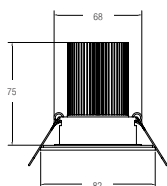
Article-no.	Colour of cabinet	Light color
18381022	chrome	RGBW
18381072	white	RGBW
18381152	nickel satin	RGBW

consisting of 4 lights, distribution, power supply and plug & play connection cables 2000 mm

*As extension for a 2- or 4-fold kit.

18343... / 18344... / 18383...

vitaLED® smart basic and extension kits



Memory function: If the 230 V power supply is disconnected, the last light value set is stored.

System requirements:
min. Android 4.3 or iOS 7.1 / min. Bluetooth 4.0 (Bluetooth LE)
IP54 if installed in closed ceilings

NEW

Specification

Incl. light source: 3 x RGBW LED, output: max. 14 W per bulb, material: stainless steel / plastic / aluminium / clear glass, angle: 40°

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

2-fold basic kit

Article-no.	Colour of cabinet	Light color
18343222	stainless steel	RGBW

consisting of 2 lights, Bluetooth®device, power supply and plug & play connection cables (distributor -> light) 1000 mm

4-fold basic kit

Article-no.	Colour of cabinet	Light color
18344222	stainless steel	RGBW

consisting of 4 lights, Bluetooth®device, power supply and plug & play connection cables (distributor -> light) 1000 mm

4-fold extension kit*

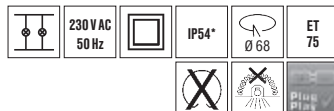
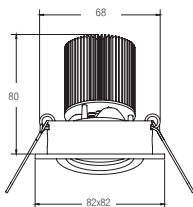
Article-no.	Colour of cabinet	Light color
18383222	stainless steel	RGBW

consisting of 4 lights, distribution, power supply and plug & play connection cables 2000 mm

*As extension for a 2- or 4-fold kit.

18345... / 18346... / 18385...

vitaLED® smart basic and extension kits



Memory function: If the 230 V power supply is disconnected, the last light value set is stored.

System requirements:
min. Android 4.3 or iOS 7.1 / min. Bluetooth 4.0 (Bluetooth LE)
* IP54 if installed in closed ceilings

NEW

Specification

Incl. light source: 3 x RGBW LED, output: max. 14 W per bulb, material: stainless steel / plastic / aluminium / clear glass, angle: 40°

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

2-fold basic kit

Article-no.	Colour of cabinet	Light color
18345222	stainless steel	RGBW

consisting of 2 lights, Bluetooth®device, power supply and plug & play connection cables (distributor -> light) 1000 mm

4-fold basic kit

Article-no.	Colour of cabinet	Light color
18346222	stainless steel	RGBW

consisting of 4 lights, Bluetooth®device, power supply and plug & play connection cables (distributor -> light) 1000 mm

4-fold extension kit*

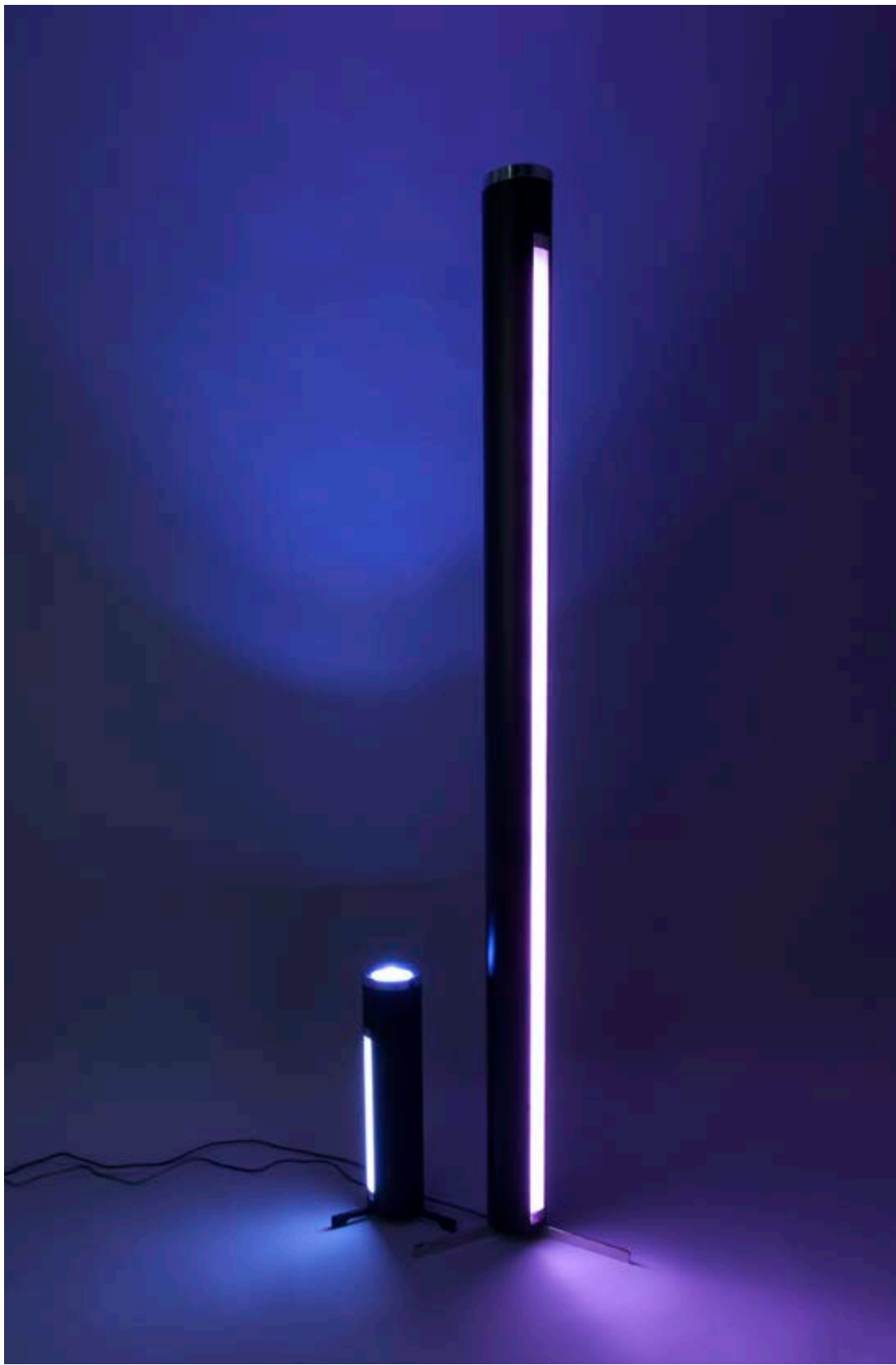
Article-no.	Colour of cabinet	Light color
18385222	stainless steel	RGBW

consisting of 4 lights, distribution, power supply and plug & play connection cables 2000 mm

*As extension for a 2- or 4-fold kit.

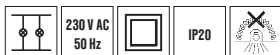


"Kleiner" bathroom showroom, Mindelheim



18508082

vitaLED® smart table lamp



Memory function: If the 230 V power supply is disconnected, the last light value set is stored.

System requirements:
min. Android 4.3 or iOS 7.1 / min. Bluetooth 4.0 (Bluetooth LE)



NEW

Specification

Incl. light source:

- Uplight: 4x RGBW-LED, power: max. 27 W, beam angle: 44°
- Sidelight: RGBW flexible strip, power: max: 7 W

Material: aluminium / steel / clear glass / plastic satined
Incl. connection cable: 2000mm, dimensions: 450 mm x 350 mm

Energy efficiency class: A++ to A

This lights contain built-in LED lamps. These lamps cannot be exchanged in the light.

Article-no.	Colour of cabinet	Light colour
18508082	black	RGBW

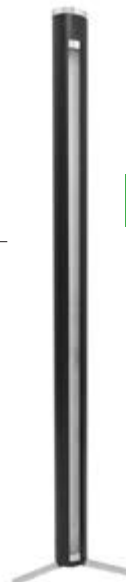
18509082

vitaLED® smart floor lamp



Memory function: If the 230 V power supply is disconnected, the last light value set is stored.

System requirements:
min. Android 4.3 or iOS 7.1 / min. Bluetooth 4.0 (Bluetooth LE)



NEW

Specification

Incl. light source:

- Uplight: 4x RGBW-LED, power: max. 27 W, beam angle: 44°
- Sidelight: RGBW flexible strip, power: max: 28 W

Material: aluminium / steel / clear glass / plastic satined
Incl. connection cable: 2000mm, dimensions: 1700 mm x 450 mm

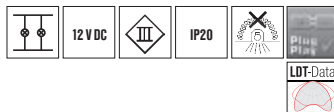
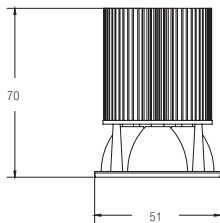
Energy efficiency class: A++ to A

This lights contain built-in LED lamps. These lamps cannot be exchanged in the light.

Article-no.	Colour of cabinet	Light colour
18509082	black	RGBW

18408002

vitaLED® 2.0 MR16 lamp, 51mm



Specification

Light source: 3 xRGBW-LED, power: max. 14 W
beam angle: 40°, material: aluminium / plastic,

Article-no. Light colour

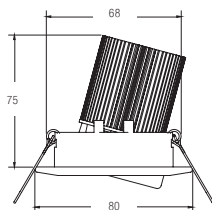
18408002 RGBW

Energy efficiency class: A

connection to distribution board 18301000 & 18314000 only via system cable
18900000 - 18902000 (p. 459) possible

18422...

vitaLED® 2.0 - recessed spot with 18408002



Specification

Incl. light source: 3 xRGBW-LED, power: max. 14 W,
material: steel / aluminium / plastic, beam angle: 40°

Article-no. Colour of cabinet Light colour

18422022 chrome RGBW

18422152 nickel satin RGBW

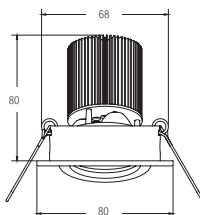
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

connection to distribution board 18301000 & 18314000 only via system cable
18900000 - 18902000 (p. 459) possible

18426...

vitaLED® 2.0 - recessed spot with 18408002



Specification

Incl. light source: 3 x RGBW-LED, power: max. 14 W, material: aluminium / plastic, beam angle: 40°

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

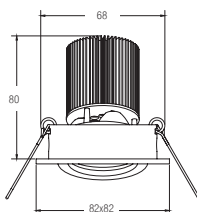
connection to distribution board 18301000 & 18314000 only via system cable 18900000 - 18902000 (p. 459) possible

Article-no.	Colour of cabinet	Light colour
18426072	white	RGBW
18426252	alu satin	RGBW

Also available in housing colour champagne satin or titanium satin on demand.

18427...

vitaLED® 2.0 - recessed spot with 18408002



Specification

Incl. light source: 3 x RGBW-LED, power: max. 14 W, material: aluminium / plastic, beam angle: 40°

Energy efficiency class: A++ to A

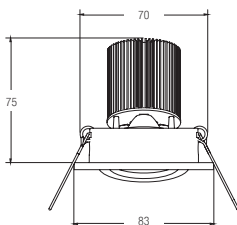
This luminaire contains incorporated and non-exchangeable LED light sources.

connection to distribution board 18301000 & 18314000 only via system cable 18900000 - 18902000 (p. 459) possible

Article-no.	Colour of cabinet	Light colour
18427072	white	RGBW
18427252	alu satin	RGBW

Also available in housing colour champagne satin or titanium satin on demand.

18428... vitaLED® 2.0 - recessed spot with 18408002



Specification

Incl. light source: 3 x RGBW-LED, power: max. 14 W,
material: aluminium / plastic, beam angle: 40°

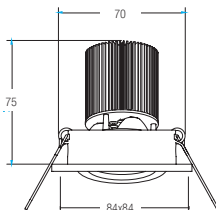
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

connection to distribution board 18301000 & 18314000 only via system cable
18900000 - 18902000 (p. 459) possible

Article-no.	Colour of cabinet	Light colour
18428022	chrome	RGBW
18428052	gold	RGBW
18428072	white	RGBW
18428092	noble chrome	RGBW
18428152	nickel satin	RGBW

18429... vitaLED® 2.0 - recessed spot with 18408002



Specification

Incl. light source: 3 x RGBW-LED, power: max. 14 W,
material: aluminium / plastic, beam angle: 40°

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

connection to distribution board 18301000 & 18314000 only via system cable
18900000 - 18902000 (p. 459) possible

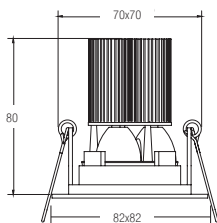
Article-no.	Colour of cabinet	Light colour
18429022	chrome	RGBW
18429052	gold	RGBW
18429072	white	RGBW
18429092	noble chrome	RGBW
18429152	nickel satin	RGBW



Schützinger, Stuttgart (Germany)

18431252

vitaLED® 2.0 - recessed spot with 18408002



Specification

Incl. light source: 3 x RGBW-LED, power: max. 14 W, material: aluminium / plastic, beam angle: 40°

Energy efficiency class: A++ to A

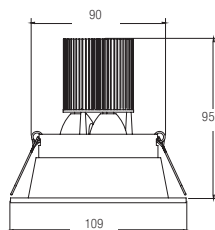
This luminaire contains incorporated and non-exchangeable LED light sources.

connection to distribution board 18301000 & 18314000 only via system cable 18900000 - 18902000 (p. 459) possible

Article-no.	Colour of cabinet	Light colour
18431252	alu satin/black	RGBW

18433...

vitaLED® 2.0 - recessed spot with 18408002



Specification

Incl. light source: 3 x RGBW-LED, power: max. 14 W, material: aluminium / plastic, beam angle: 40°

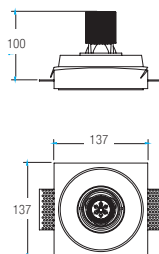
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

connection to distribution board 18301000 & 18314000 only via system cable 18900000 - 18902000 (p. 459) possible

Article-no.	Colour of cabinet	Light colour
18433022	chrome	RGBW
18433072	white	RGBW
18433252	alu satin	RGBW

18434002

vitaLED® 2.0 - recessed spot with 18408002
concealed plastic luminaire frameless

Specification

Incl. light source: 3 x RGBW-LED, power: max. 14 W,
frameless, material: steel / plaster / aluminium / plastic, beam angle: 40°

Article-no.	Colour of cabinet	Light colour
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18434002	white	RGBW
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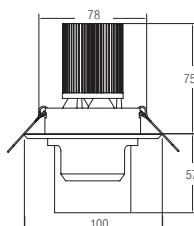
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

connection to distribution board 18301000 & 18314000 only via system cable
18900000 - 18902000 (p. 459) possible



*IP44 if installed in closed ceilings

18412252
vitaLED® 2.0 - recessed spot with 18408002

Design by Lounge Design

Specification

Incl. light source: 3 x RGBW-LED, power: max. 14 W,
material: aluminium / acrylic, beam angle: 38°

Article-no.	Colour of cabinet	Light colour
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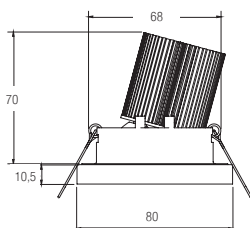
18412252	alu satin	RGBW
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Energy efficiency class: A++ to A

This luminaire contains incorporated and nonexchangeable LED light sources.

connection to distribution board 18301000 & 18314000 only via system cable
18900000 - 18902000 (p. 459) possible

18420... vitaLED® 2.0 - recessed spot with 18408002



Design by Lounge Design

Specification

Incl. light source: RGBW-LED, power: max. 14 W,
beam angle: 40°, material: aluminium / steel / plastic

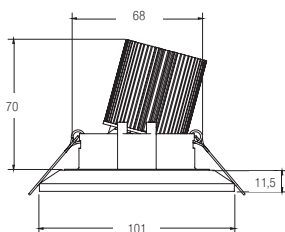
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

connection to distribution board 18301000 & 18314000 only via system cable
18900000 - 18902000 (p. 459) possible

Article-no.	Colour of cabinet	Light colour
18420022	chrome	RGBW
18420052	gold	RGBW
18420152	nickel satin	RGBW
18420172	texture white	RGBW
18420182	texture black	RGBW
18420672	texture slate	RGBW

18421... vitaLED® 2.0 - recessed spot with 18408002



Design by Lounge Design

Specification

Incl. light source: 3 x RGBW-LED, power: max. 14 W,
beam angle: 40°, material: aluminium / steel / plastic

Energy efficiency class: A++ to A

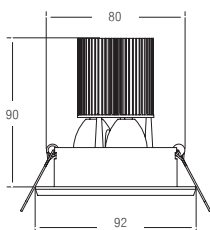
This luminaire contains incorporated and non-exchangeable LED light sources.

connection to distribution board 18301000 & 18314000 only via system cable
18900000 - 18902000 (p. 459) possible

Article-no.	Colour of cabinet	Light colour
18420022	chrome	RGBW
18420052	gold	RGBW
18420152	nickel satin	RGBW
18420172	texture white	RGBW
18420182	texture black	RGBW
18420672	texture slate	RGBW

18432202

vitaLED® 2.0 - recessed spot with 18408002



Specification

Incl. light source: 3 x RGBW-LED, power: max. 14 W,
beam angle: 40°, material: stainless steel AISI 316 / clear glass / aluminium / plastic

Article-no.	Colour of cabinet	Light colour
18432202	stainless steel	RGBW

Energy efficiency class: A++ to A

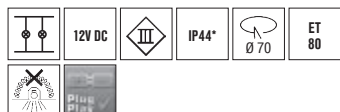
This luminaire contains incorporated and non-exchangeable LED light sources.

connection to distribution board 18301000 & 18314000 only via system cable
18900000 - 18902000 (p. 459) possible

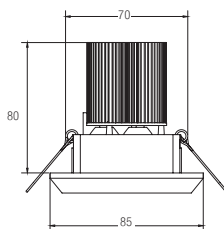
Adapted for Outdoor!

18423022

vitaLED® 2.0 - recessed spot with 18408002



*IP65 if installed in closed ceilings



Specification

Incl. light source: 3 x RGBW-LED, power: max. 14 W, material: aluminium / glass,
beam angle: 40°

Article-no.	Colour of cabinet	Light colour
18423022	chrome	RGBW

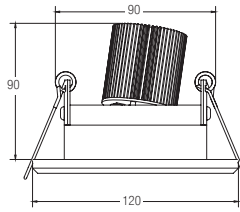
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources

connection to distribution board 18301000 & 18314000 only via system cable
18900000 - 18902000 (p. 459) possible

18424252

vitaLED® 2.0 - recessed spot with 18408002



*IP44 if installed in closed ceilings

Specification

Incl. light source: 3 x RGBW-LED, power: max. 14 W, material: aluminium / plastic / clear glass, beam angle: 40°

Article-no. Colour of cabinet Light colour

18424252 alu satin RGBW

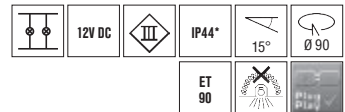
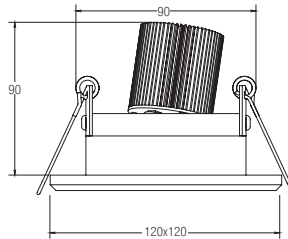
Energy efficiency class: A++ to A

This luminaire contains incorporated and nonexchangeable LED light sources

connection to distribution board 18301000 & 18314000 only via system cable
18900000 - 18902000 (p. 459) possible

18425252

vitaLED® 2.0 - recessed spot with 18408002



*IP44 if installed in closed ceilings

Specification

Incl. light source: 3 x RGBW-LED, power: max. 14 W, material: aluminium / plastic / clear glass, beam angle: 40°

Article-no. Colour of cabinet Light colour

18425252 alu satin RGBW

Energy efficiency class: A++ to A

This luminaire contains incorporated and nonexchangeable LED light sources

connection to distribution board 18301000 & 18314000 only via system cable
18900000 - 18902000 (p. 459) possible



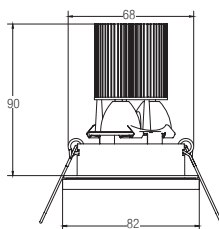
Country house Fuchswirt, Allershausen (Germany)

18430...

vitaLED® 2.0 - recessed spot with 18408002



*IP65 if installed in closed ceilings






Specification

Incl. light source: 3 x RGBW-LED, power: max. 14 W,
material: aluminium casting / plastic / satin glass,
beam angle: 40°

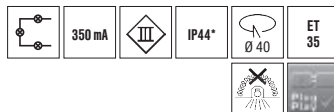
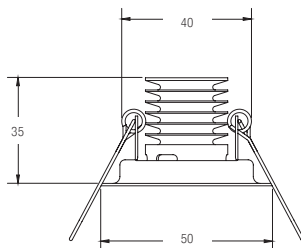
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources

connection to distribution board 18301000 & 18314000 only via system cable
18900000 - 18902000 (p. 459) possible

Article-no.	Colour of cabinet	Light colour
18430022	chrome	RGBW 
18430072	white	RGBW 
18430152	nickel satin	RGBW 

18435022 vitaLED® 2.0 - LED light point



*IP44 if installed in closed ceilings

Art. 18596000 or art. 18597000 is obligatory for putting into operation.

Specification

Incl. light source: RGBW-LED, power: max. 4,5 W, material: aluminium / plastic opal, max. 350 mA, beam angle: 90°

Article-no. Colour of cabinet Light colour

18435022 chrome RGBW

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources

18596000 + 18597000 vitaLED® 2.0 - converter



18905000
10.000mm



series connexion, max. length of connection cable, on the secondary side 10m



Specification

For transformation from 12 V bzw. 24 V to 350 mA

For connection of light point art. 18435022 to distributor Art. 18301000.

Connection only via system cable 18900000 (p. 459) to 18301000 possible.

Article-no. Colour of cabinet Voltage Specification

18596000 alu satin 12 V to connect 1-3 light-points Art. 18435022

18597000 alu satin 24 V to connect 4-6 light-points Art. 18435022

18907000 + 18908000 vitaLED 2.0 - system cable for lightpoint



Specification

system cable for connection to lightpoint
Art. 18435022 to converter
Art. 18596000 / 18597000
or between light points art. 18435022.

Article-no. Length

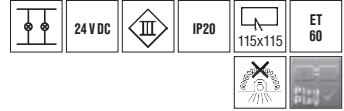
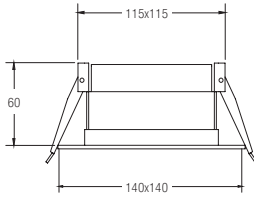
18907000 1.000 mm

18908000 2.000 mm

Natelberg building service engineering, Rhaderfehn (Germany)



18419252 vitaLED® 2.0 - recessed ceiling spot



Specification

Incl. light source: 4 x RGBW-LED, power: max. 19W, material: aluminium / plastic, beam angle: 45°

Article-no. Colour of cabinet Light colour

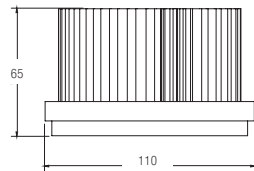
18419252 alu satin RGBW

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

connection to distribution board 18301000 & 18314000 only via system cable
18900000 - 18902000 (p. 459) possible

18409002 vitaLED® 2.0 QR111-lamp



Specification

Incl. light source: 6 x RGBW-LED, power: max. 28 W, material: aluminium / plastic, beam angle: 34°

Article-no. Light colour

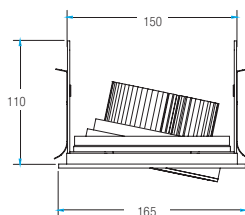
18409002 RGBW

energy efficiency class: A

connection to distribution board 18301000 & 18314000 only via system cable
18900000 - 18902000 (p. 459) possible

18413252

vitaLED® 2.0 - recessed ceiling spot with 18409002



Specification

Incl. light source: 6x RGBW-LED
 Power: max. 28W, beam angle: 34°,
 material: aluminium / plastic

Article-no.	Colour of cabinet	Light colour
18413252	alu satin	RGBW

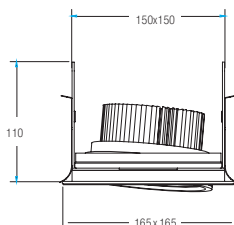
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

connection to distribution board 18301000 & 18314000 only via system cable
 18900000 - 18902000 (p. 459) possible

18414252

vitaLED® 2.0 - recessed ceiling spot with 18409002



Specification

Incl. light source: 6x RGBW-LED
 Power: max. 28W, beam angle: 34°,
 material: aluminium / plastic

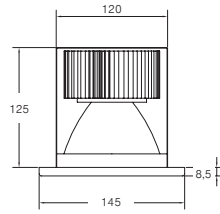
Article-no.	Colour of cabinet	Light colour
18414252	alu satin	RGBW

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

connection to distribution board 18301000 & 18314000 only via system cable
 18900000 - 18902000 (p. 459) possible

18415072 vitaLED® 2.0 - recessed downlight



Specification

Incl. light source: 5 x RGBW-LED, power: max. 24W, material: steel / aluminium, beam angle: 45°

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

connection to distribution board 18301000 & 18314000 only via system cable 18900000 - 18902000 (p. 459) possible

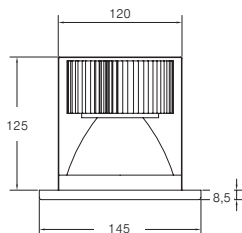
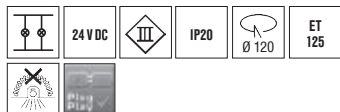
Article-no.	Colour of cabinet	Light colour
18415072	white	RGBW



Bathroom Studio Brinkschulte, Menden (Germany)

18416072

vitaLED® 2.0 - recessed downlight



Specification

Incl. light source: 5 x RGBW-LED, power: max. 24 W,
material: steel / aluminium / frosted glass, beam angle: 45°

Article-no. Colour of cabinet Light colour

18416072 white RGBW

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

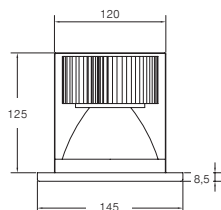
connection to distribution board 18301000 & 18314000 only via system cable
18900000 - 18902000 (p. 459) possible

18417072

vitaLED® 2.0 - recessed downlight



*IP44 if installed in closed ceilings



Specification

Incl. light source: 5 x RGBW-LED, power: max. 24 W, material: steel / aluminium /
frosted glass, beam angle: 45°

Article-no. Colour of cabinet Light colour

18417072 white RGBW

Energy efficiency class: A++ to A

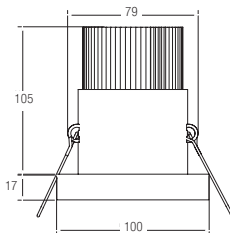
This luminaire contains incorporated and non-exchangeable LED light sources.

connection to distribution board 18301000 & 18314000 only via system cable
18900000 - 18902000 (p. 459) possible

18402... vitaLED® 2.0 - Downlight



Design by Lounge Design



*IP44 if installed in closed ceilings

Specification

Incl. light source: 4 x RGBW-LED, power: max. 27 W, beam angle: 44°, material: aluminium / clear glass

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

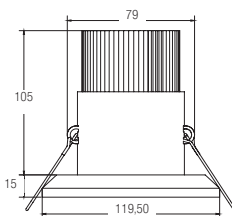
connection to distribution board 18301000 & 18314000 only via system cable 18900000 - 18902000 (p. 459) possible

Article-no.	Colour of cabinet	Light colour
18402022	chrome	RGBW
18402052	gold	RGBW
18402152	nickel satin	RGBW
18402172	textured white	RGBW
18402182	textured black	RGBW
18402672	textured slate	RGBW

18403... vitaLED® 2.0 - Downlight



Design by Lounge Design



*IP44 if installed in closed ceilings

Specification

Incl. light source: 4 x RGBW-LED, power: max. 27 W, beam angle: 44°, material: aluminium / clear glass

Energy efficiency class: A++ to A

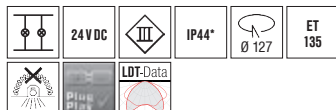
This luminaire contains incorporated and non-exchangeable LED light sources.

connection to distribution board 18301000 & 18314000 only via system cable 18900000 - 18902000 (p. 459) possible

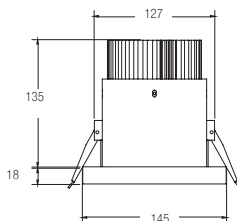
Article-no.	Colour of cabinet	Light colour
18403022	chrome	RGBW
18403052	gold	RGBW
18403152	nickel satin	RGBW
18403172	textured white	RGBW
18403182	textured black	RGBW
18403672	textured slate	RGBW

18406...

vitaLED® 2.0 - Downlight



*IP44 if installed in closed ceilings



Design by Lounge Design

Specification

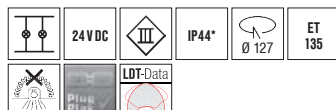
Incl. light source: 6 x RGBW-LED, power: max. 39W, material: aluminium / clear glass, beam angle: 44°

Energy efficiency class: A++ to A

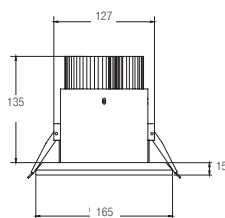
This luminaire contains incorporated and non-exchangeable LED light sources.

connection to distribution board 18301000 & 18314000 only via system cable 18900000 - 18902000 (p. 459) possible

Article-no.	Colour of cabinet	Light colour
18406022	chrome	RGBW
18406052	gold	RGBW
18406152	nickel satin	RGBW
18406172	textured white	RGBW
18406182	textured black	RGBW
18406672	textured slate	RGBW



*IP44 if installed in closed ceilings



Design by Lounge Design

Specification

Incl. light source: 6 x RGBW-LED, power: max. 39W, material: aluminium / clear glass, beam angle: 44°

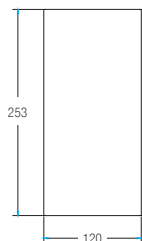
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

connection to distribution board 18301000 & 18314000 only via system cable 18900000 - 18902000 (p. 459) possible

Article-no.	Colour of cabinet	Light colour
18407022	chrome	RGBW
18407052	gold	RGBW
18407152	nickel satin	RGBW
18407172	textured white	RGBW
18407182	textured black	RGBW
18407672	textured slate	RGBW

18500... vitaLED® 2.0 wall light



structural height: 55mm



Design by Lounge Design

Specification

Incl. light source: 2 x RGBW-LED, power: max. 9 W, beam angle: 40°,
material: steel / aluminium

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

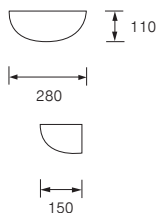
connection only possible via cable set (Art. No. 18906000) in combination with
distribution board (Art. No. 18301000, p. 459)!

Article-no.	Colour of cabinet	Light colour
18500172	textured white	RGBW
18500182	textured black	RGBW

18505002 vitaLED® 2.0 - plaster wall light



Up&Down



Specification

Incl. light source: 4 x RGBW-LED, power: max. 18,5 W,
material: plaster / glass frosted (as coverglass)

Energy efficiency class: A++ to A

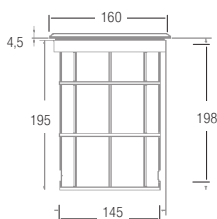
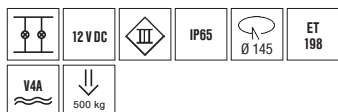
This luminaire contains incorporated and nonexchangeable LED light sources.

connection only possible via cable set (Art. No. 18906000) in combination with
distribution board (Art. No. 18301000, p. 459)!

Article-no.	Colour of cabinet	Light colour
18505002	white	RGBW

18501222

vitaLED® 2.0 - ground recessed luminaire



Specification

Incl. light source: 3x RGBW-LED, power: max. 14 W, beam angle: 40°,
material: stainless steel AISI 316 / aluminium / clear glass

Incl. connection cable: 1000 mm

Energy efficiency class: A++ to A

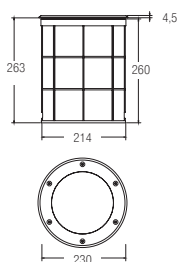
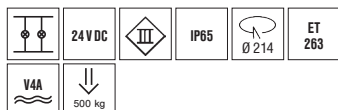
This luminaire contains incorporated and nonexchangeable LED light sources.

Article-no.	Colour of cabinet	Light colour
18501222	stainless steel	RGBW

Connection only possible with cable set (Art. 18909000, p. 459) in combination with distribution board (Art. 18301000)!

18502222

vitaLED® 2.0 - ground recessed luminaire



Specification

Incl. light source: 6x RGBW-LED, power: max. 28 W,
material: stainless steel AISI 316 / aluminium / clear glass, beam angle: 40°

Incl. connection cable: 1000 mm

Energy efficiency class: A++ to A

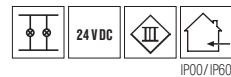
This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Light colour
18502222	stainless steel	RGBW

Connection only possible with cable set (Art. 18909000, p. 459) in combination with distribution board (Art. 18301000)!

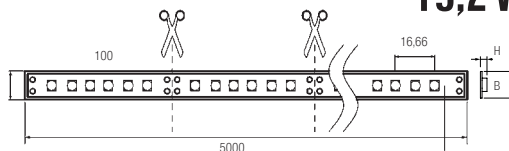
18503002 / 18523002

LED flexible strip RGBW 19.2 W/m



IP00/IP60

19,2 W/m



Specification

Flexible LED conductor strips fitted with 600x SMD LED double chip, multi-colour 4in1; power; max. 96 W (19.2 W/m), beam angle: 120°, width: 10 mm, length: 5,000 mm, easily cut every 100 mm, two-sided 3M adhesive tape included in delivery to aid installation. Incl. connector cables at both ends; length 350 mm each.

To dissipate heat, light must be mounted on aluminium profiles. (Starting on p. 32).

*Intended purpose: special product for a decorative application. Not appropriate for use in other applications.

Electrical data

Nominal voltage [V DC]: 24
protection class: III
Power input [W/m]: 19.2
Number of LEDs per metre: 120
Control: negative (5-core wire)

Mechanical data

Separable length [mm]: 100
Short Pitch [mm]: 16.66
max. module length [mm]: 5,000

Temperature data

Ambient temperature [°C]:
-10 - +40

Luminaire data

Beam angle: 120°
Light colour category RGBW

IP00



Article no./5 m	Article no./100 mm	Light colour	Light flux/m	EEC	Dimensions [W x H]:
18503002	75503002	4000 K	about 445 lm	○	A+ 10 x 2 mm
18503002		622 nm	about 120 lm	●	
		531 nm	about 270 lm	●	
		452 nm	about 50 lm	●	
	75998000	Customization for protection class IP00			

Optimized for the use in the Brumberg vitaLED® system.

IP60



Article no./5 m	Article no./100 mm	Light colour	Light flux/m	EEC	Dimensions [W x H]:
18523002	75523001	4000 K	about 320 lm	○	A+ 10 x 3 mm
18523002		622 nm	about 86 lm	●	
		531 nm	about 194 lm	●	
		452 nm	about 36 lm	●	
	75999000	Customization with increased protection rating			

Resistant silicon coating, impervious to any mechanical stress; wipeable.

Event center „Zentralhallen“, Hamm (Germany)



APPLICABLE PROFILES



P. 494

IP00 | IP60



P. 495

IP00 | IP60



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IP00 | IP60



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IP00 | IP60



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IP00 | IP60



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IP00 | IP60



P. 512

IP00 | IP60

Fields of application

White light area and colour blending using the red, green and blue colour channels for changeable and efficient lighting of lighting covers, linear applications and backlighting, such as furniture, shelves, display cases, shadow gaps, illuminated ceilings and many others. The IP00 flexible strip is optimised for used in the Brumberg vitaLED® 2.0 System

Driver

Starting on page 514, you can find appropriate drivers



Controllers

Starting on page 516, you can find controllers for all signal types



18300000 vitaLED® 2.0 master control



Control accessoires:

18303000	radio remote control
18304...	8fold push button module
18305...	4fold push button module
18306...	2fold push button module
18307...	Touch-Panel
18318000	smart-lighting modul

Specification

Material: plastic, ambient temperature: 0 °C to 45 °C
Dimensions: 1153 mm x w 102 mm x h 26 mm

Suitable for DIN rail mounting (9 pitch units)

The vitaLED® 2.0 control unit serves for individual or pre-configured color- and brightness regulation of RGBW-LED modules. The control can be executed via push-button, touch panel, multiple 2-, 4- or 8fold push-buttons, radio remote control or a variety of protocol based control signals. The signal splits up into a DMX signal (control effects by Art. No. 18308000), a DALI signal and four individual analogue 1-10 V signals. The mode of operation and the details of functionality are based and connected to the corresponding way of addressing the system. The control-protocol has to be provided to the system on site. The relevant address-coding needs to be adapted to the corresponding way of piloting. Our mounting- and installation instruction delivers all relevant information regarding the required coding.

The vitaLED® modules can only be addressed via the corresponding vitaLED® 2.0 distribution boards 18301000 (for system luminaires) or 18302000 (for flexible strip).

Article-no.

18300000

For a connection length of more than 20m between the master control and the distribution board, you need the power supply Art. 18313000 (p. 452) for supplying!

18301000 vitaLED® 2.0 distribution board Plug 'n' Play - system luminaires



Specification

Material: plastic, ta: 0 °C to 45 °C, current: max. 10 A,
power: max. 120 W at 12 V | max. 240 W at 24 V
dimensions: 1126 mm x w 54 mm x h 31 mm

Suitable for DIN rail mounting (7,5 pitch units)

The vitaLED® 2.0 distributor serves to transfer the control signals to the vitaLED® 2.0 luminaires. Max. 6 luminaires can be connected to a distributor. The vitaLED® 2.0 distributor permits the control of vitaLED® 2.0 products with a common anode, whereby the luminaires are connected by means of a vitaLED® 2.0 system connector. The max. length of the data cables between the vitaLED® 2.0 distributors may not exceed 50 m.

Important: Operation without a Master Control Unit 18300000, 18312000 or 18314000 is not possible!

Article-no.

18301000



18302000 vitaLED® 2.0 distribution board PWM



Specification

Material: plastic, ta: 0 °C to 45 °C, current: max. 10 A,
power: max. 120 W at 12V | max. 240 W at 24 V
dimensions: l 126 mm x w 54 mm x h 31 mm

Article-no.

18302000

Suitable for DIN rail mounting (7,5 pitch units)

The vitaLED® 2.0 distributor serves to transfer the control signals to the vitaLED® 2.0 luminaires. Flex circuit boards can be connected to a distributor by 2 output jacks. The vitaLED® 2.0 distributor permits the control of vitaLED® 2.0 products with a common anode, whereby the luminaires are connected by means of two separate screw terminals. The max. length of the data cables between the vitaLED® 2.0 distributors may not exceed 50 m.

Important: Operation without a Master Control Unit 18300000, 18312000 or 18314000 is not possible!



18303000 vitaLED® 2.0 remote control



Specification

Material: plastic, ta: 0 °C to 45 °C,
voltage: 2x AA 1,5 V battery, dimensions receiver: l 111 mm x w 76 mm x h 27 mm
(LxBxH)

Article-no.

18303000

Along with the vitaLED® 2.0 Master Control Unit 18300000, the following functions are possible:

- Independent brightness control of all four colours (RGBW)
- Storage of 3 individual colour values - Selection of preset colour temperatures (2.000 K - 10.000 K)
- Selection of 11 colour sequences / colour moods
- Continuous adjustment of change speed for the 11 colour sequences / colour moods

Six colour sequences:

1. RGB (soft change)
2. RGB (soft change)
3. RGB (abrupt change)
4. RGBW (soft change)
5. RGBW (soft change)
6. RGBW (abrupt change)

Five colour moods:

1. Colour Freshness
2. Sunset
3. Indian Summer
4. Spring Awakening
5. Biorhythm

18312000 vitaLED® 2.0 DALI-control modul



Specification

Material: plastics, ambient temperature: 0 °C to 45 °C
Dimensions: l 121 mm x w 54 mm x h 30 mm

Article-no.

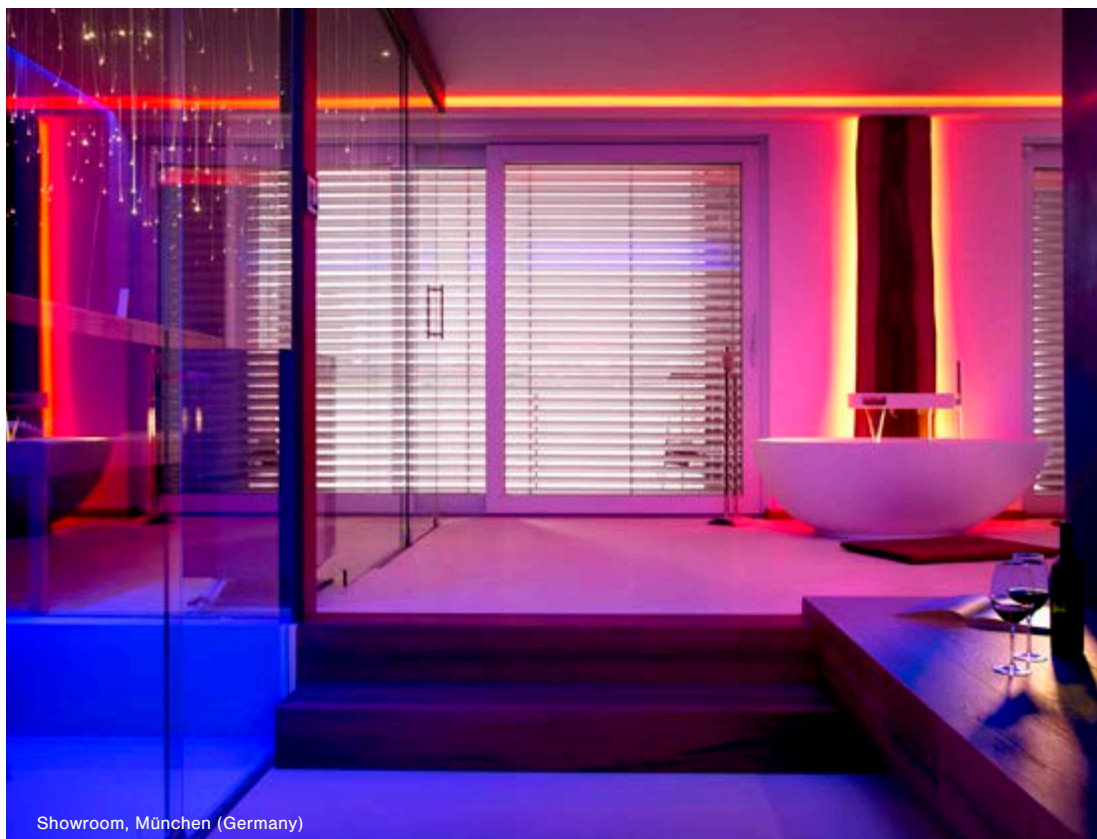
18312000

The vitaLED® 2.0 DALI control module is used for individual or pre-configured colour- and brightness regulation via the DALI bus.

The DALI protocol for the control has to be provided on the system on site.

The vitaLED modules can only be addressed via the corresponding vitaLED® 2.0 distribution boards 18301000 (for system luminaires) or 18302000 (for flexible strip).

For a connection length of more than 20 m between the master control and the distribution board, you need the power supply Art. 18313000 (p. 452) for supplying!



Showroom, München (Germany)



vitaLED® smart

18314000
vitaLED® smart Bluetooth distribution board

Bluetooth®



system requirements: min. Android vers. 4.3 or iOS vers. 7.1 / min. Bluetooth 4.0 (Bluetooth LE)

Specification

Material: plastic, ta: 0 °C to 45 °C,
power: max. 80 W at 12 V | max. 160 W at 24 V
dimensions: 1126 mm x w 54 mm x h 31 mm

Article-no.

18314000

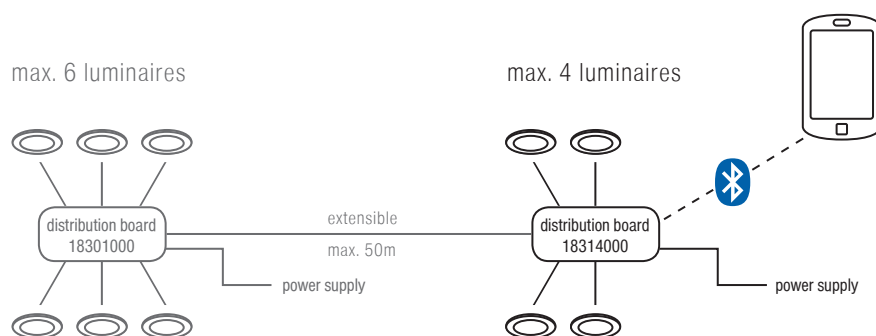
Suitable for DIN rail mounting (7,5 pitch units)

The vitaLED® smart Bluetooth distributor is to be used for a simple and intuitive control of RGBW-LED. They are to be controlled by an App available by download.

1. Individual control of all 4 colour channels (R/G/B/W)
2. Stepplessly adjustable all white tones from 2.000 up to 10.000 Kelvin
3. Control of colour moods in accordance to saturation, speed and brightness
4. Possible loading of a personal photo for selection of a light mood
5. Targeted selection of a colour value from the RGB colour triangle with dimming
6. Selection and control of different vitaLED® smart Bluetooth distributors

vitaLED®
smart

System



18304... vitaLED® 2.0 8-channel push button module

IP20



Specification

Material: plastic / steel, ta: 0 °C to 45 °C, suitable for installation into junction- and flush boxes (Ø 68 mm), dimensions: 181 mm x w 81 mm x h 25 mm

Together with the vitaLED® 2.0 Master Control Unit 18300000 and the Bus Coupler 18310000, the following functions are possible (the respective control possibilities vary according to adjustment and master control):

- Independent brightness control of all four colours (RGBW)
 - Storage of 2 individual colour values - Selection of preset colour temperatures (2.000 K - 10.000 K)
 - Selection of 11 colour sequences / colour moods
 - Continuous adjustment of change speed for the 11 colour sequences / colour moods
- Three colour sequences:
1. RGB (fast change) red, green, blue, turquoise, violet, yellow, white
 2. RGB (soft change) blue, turquoise, violet, red, pink, yellow, green, white, white-blue
 3. RGBW (soft change) red, red-white, white-yellow, yellow, green, green-white, white-blue, turquoise, blue, violet, violet-white, white
 4. RGBW (soft change) red, red-white, white-yellow, yellow, green, green-white, white-blue, turquoise, blue, violet, violet-white, white
- Four colour moods: 1. Colour Freshness | 2. Sunset | 3. Spring Awakening | 4. Spring Awakening | 5. Biorhythm

2-core wire (i.e. J-Y(St)Y) max. 30 meter for connection to Bus Coupler 18310000.

Article-no.	Colour of cabinet
18304070	white
18304080	black
18304220	stainless steel
18304250	alu satin

18305... vitaLED® 2.0 4-channel push button module

IP20



Specification

Material: plastic / steel, ta: 0 °C to 45 °C, current: 10A, suitable for installation into junction- and flush boxes (Ø 68 mm), dimensions: 181 mm x w 81 mm x h 25 mm

Together with the vitaLED® 2.0 Master Control Unit 18300000 and the Bus Coupler 18310000, the following functions are possible (the respective control possibilities vary according to adjustment and master control):

- Selection of preset colour temperatures (2.000 K - 10.000 K)
 - Selection of 3 colour sequences / colour moods
 - Continuous adjustment of change speed for the colour sequences / colour moods
- Two colour sequences:
1. RGB (soft change) red, green, blue, turquoise, violet, yellow, white
 2. RGBW (soft change) red, red-white, white-yellow, yellow, green, green-white, white-blue, turquoise, blue, violet, violet-white, white
- One colour mood: 1. Biorhythm
- Selection of preset colour values: cold white, warm white, utility lighting

2-core wire (i.e. J-Y(St)Y) max. 30 meter for connection to Bus Coupler 18310000.

Article-no.	Colour of cabinet
18305070	white
18305080	black
18305220	stainless steel
18305250	alu satin

18306...

vitaLED® 2.0 2-channel Module

IP20



Specification

Material: plastic / steel, ta: 0 °C to 45 °C, suitable for installation into junction- and flush boxes (Ø68 mm), dimensions: 181 mm x w 81 mm x h 25 mm

Together with the vitaLED® 2.0 Master Control Unit 18300000 and the Bus Coupler 18310000, the following functions are possible:

- Stimulating Morning Freshness
- Soothing Sunset
- Both lighting options are dimmable.

2-core wire (i.e. J-Y(St)Y) max. 30 meter for connection to Bus Coupler 18310000.

Article-no.	Colour of cabinet
18306070	white
18306080	black
18306220	stainless steel
18306250	alu satin

IP20

18307...

vitaLED® 2.0 sensor-touch-module



Specification

Material: plastic / steel, ta: 0 °C to 45 °C, suitable for installation into junction- and flush boxes (Ø68 mm), dimensions: 181 mm x w 81 mm x h 25 mm

Together with the vitaLED® 2.0 Master Control Unit 18300000 and the Bus Coupler 18310000, the following functions are possible:

- Independent brightness control of all four colours (RGBW)
- Storage of 3 individual colour values
- Selection of preset colour temperatures (2.000 K - 10.000 K)
- Selection of 11 colour sequences / colour moods
- Continuous adjustment of change speed for the 11 colour sequences /colour-moods

Six colour sequences:

1. RGB (soft change) red, green, blue, turquoise, violet, yellow, white
2. RGB (soft change) blue, turquoise, violet, red, pink, yellow, green, white, white-blue
3. RGB (abrupt change) green, red, blue, violet, pink, orange, yellow, white
4. RGBW (soft change) red, red-white, white-yellow, yellow, green, green-white, white-blue, turquoise, blue, violet, violet-white, white
5. RGBW (soft change) cold white, white, warm white, yellow, orange, red, violet, turquoise, white-blue, blue, white
6. RGBW (abrupt change) green, red, blue, white, turquoise, violet, violet-white, pink, pink-white, yellow, yellow-white, white, white-green

Five colour moods: 1. Colour Freshness, 2. Sunset, 3. Indian Summer, 4. Spring Awakening, 5. Biorhythm

2-core wire (i.e. J-Y(St)Y) max. 30 meter for connection to Bus Coupler 18310000.

Article-no.	Colour of cabinet
18307070	white
18307080	black
18307220	stainless steel
18307250	alu satin

18310000 vitaLED® 2.0 bus coupling unit



Specification

Material: plastic housing, ambient temperature: 0 °C to 45 °C,
dimensions: 192 mm x w 52.5 mm x h 62.5 mm
suitable for DIN rail mounting (3 modules)

Used together with the master (Art. 18300000) enables the keypad module and the sensor-touch module (Art. 18304... - Art. 18307...) to be integrated for controlling a vitaLED® 2.0 system. 2-core cable (e.g. J-Y(St)Y) max. 30 m to connect to the keypad module or sensor-touch module 18304...-18307. 4-core shielded cable (e.g. J-Y(St)Y) max. 6 m to connect to the master 18300000.

Article-no.

18310000

18309000 vitaLED® 2.0 power supply for bus coupling unit



Specification

Material: plastic housing, primary voltage: 85-260 V AC / 50 Hz // 120-370 V DC,
ambient temperature: 20 °C to 60 °C,
dimensions: 193 mm x w 25 mm x h 56 mm

Suitable for DIN rail mounting (1.5 modules)

Article-no. Secondary voltage Power output

18309000	24 V DC	max. 0,63 A (15 VA)
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18313000 vitaLED® 2.0 power adapter for master control



Specification

Material: plastic housing, primary voltage: 90-260 V AC / 50 Hz // 130-370 V DC
ambient temperature: 0 °C to 40 °C,
dimensions: 192 mm x w 52,5 mm x h 62,5 mm

For the power supply of the master controls
Art. 18300000 and Art. 18312000

Article-no. Secondary voltage Power output

18313000	24 V DC	max. 0,25 A (6 VA)
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Arcaden Erlangen (Germany)

SMART LIGHTING IN THE SMART HOME: THE BRUMBERG MODULE

Easy Integration. Central Lighting Control.
Individual Colour Scenarios.



In a smart home, the various systems of the building technology communicate with each other – often connected to household appliances and consumer electronics. The complex processes are centrally controlled, scenarios can be individually defined and accessed using a smartphone, for example. Living in a smart home is thus arranged extremely conveniently, safely and energy efficiently.

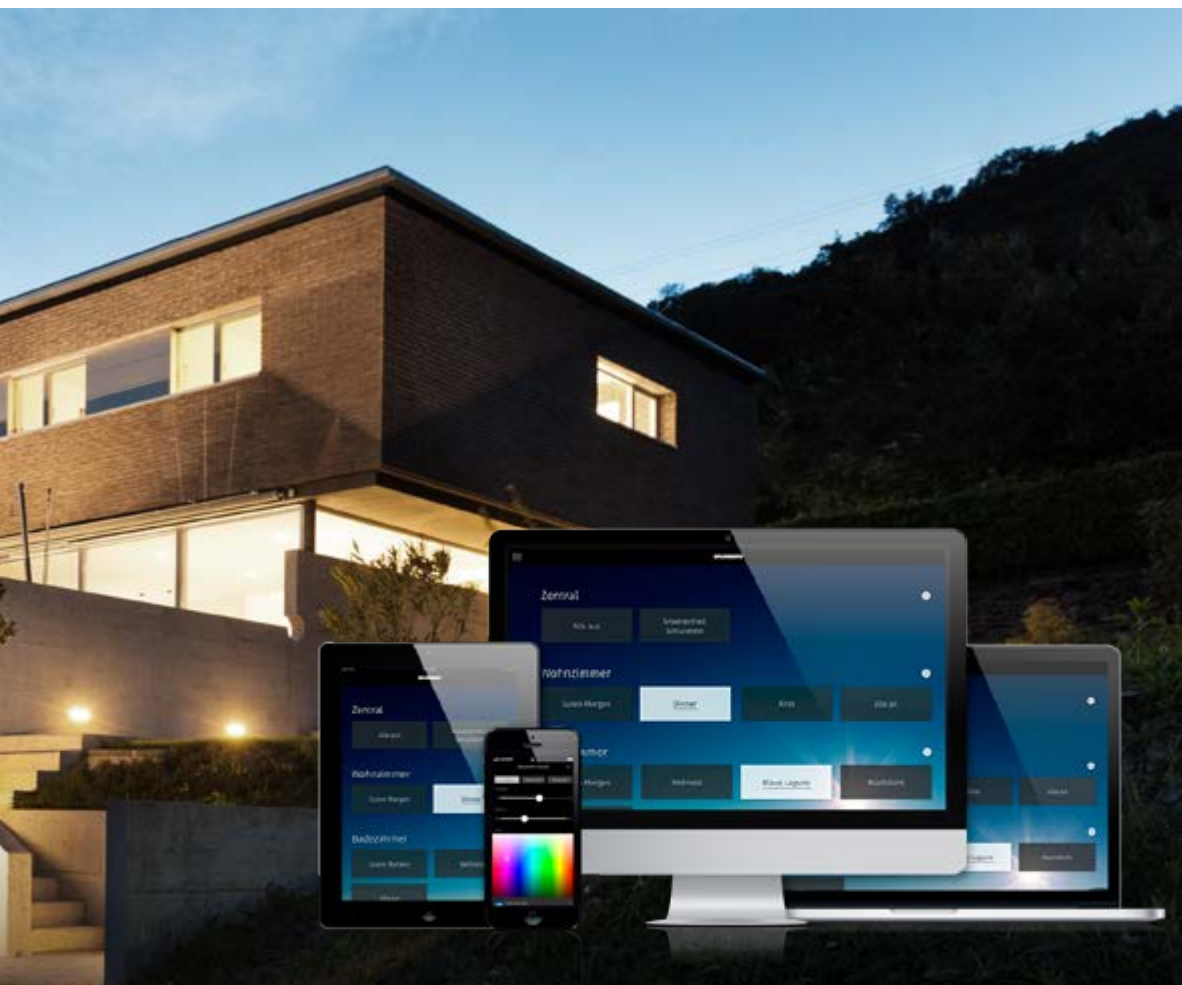
BRUMBERG SMARTLIGHTING IN THE SMART HOME:

The Brumberg lighting systems can be controlled by corresponding smart home systems by integrating the SmartLighting module into the smart home systems available on the market. The integration of the SmartLighting module into the available IP environment takes place via the available open API interface.

As a central control element, the SmartLighting module has 2 DMX outputs: one for a DMX out for controlling vitaLED 2.0 and the other for a DMX out for controlling vitaLED 1.0, RGB, Tunable White monochromatic and dim2warm.

INTUITIVE USER INTERFACE PER APP OR BROWSER:

Following the smart home logic, Brumberg SmartLighting can be controlled intuitively using a smart user interface. This is optimized for different end devices: as an app (iOS and Android) for tablets and smartphones or browser-based for PCs and laptops.



FREELY DEFINABLE AND ACCESSIBLE LIGHT SCENARIOS:

The abundance of functions makes a lighting system possible that can be individually adjusted at any time to the needs of the residents of a smart home. For this purpose, individual parameters such as light intensity, light colour, colour temperature etc. can be adjusted in different scenarios.

With the SmartLighting module, the lighting system can be separately controlled in 16 individual zones and groups. Separate control areas can be defined from the 16 zones. A zone can be integrated into several groups or scenarios. Each of the 16 zones can be individually set to vitaLED® 1.0 or 2.0 RGB, Tunable White, monochromatic white light or colour light. In each zone configuration, the individually controllable channels can be changed separately for brightness. Different light scenarios can be freely defined.

VITAL AND COLOUR PROGRESSIONS WITH TIME CONTROL:

The spectrum of the pre-set colour temperatures ranges from 2,000 to 10,000 kelvin. Vital and colour progressions can be defined and accessed for example via a time control. The program duration is also freely selectable: if the SmartLighting module is connected to the Internet, vital progressions can be controlled in real time. With SmartLighting, the lighting system will turn into a personal highlight.

18318000 smart-lighting Modul



Specification

Functions:

- Each of the 16 zones can be set to vitaLED® 1.0 / 2.0, RGB, TunableWhite, monochrome white light / coloured light (the 18319000 DMX->1-10 V control board must be ordered separately for tunable White and monochrome)
- In each zone configuration, the individually controllable channels could be changed separately for brightness retrieval of pre-set colour temperatures from 2,000 K - 10,000 K
- Retrieval of factory-set gradients (RGB / Vita gradient / 11 colour scores)
- Setting a free choice of colours
- Setting and retrieving self-defined colour gradients / Vita gradients
- For each zone, light scenarios have been factory-set but are available as changeable
- Ease of initial configuration
- Control ranges freely definable from 16 zones
- Scenes can include freely selectable zones / areas
- A zone can be integrated into several areas
- Easy operation via a more convenient user interface than is possible with the LAN module
- Online updates can be installed using the IP interface (Internet required)
- Provision of a REST-API, including selected control functions

Connectivity:

- The assignment of the IP address of the smart-lighting module is made via DHCP
- The control of the module is made with an app (iOS / Android) (if this end device is in the same network). The smart-lighting module can also be accessed using the IP call-up via a browser.

Ambient temperature: 0° C to +45° C, housing: plastic / aluminium

Article-no.

18318000

18319000 DMX - Wandlerplatine



Specification

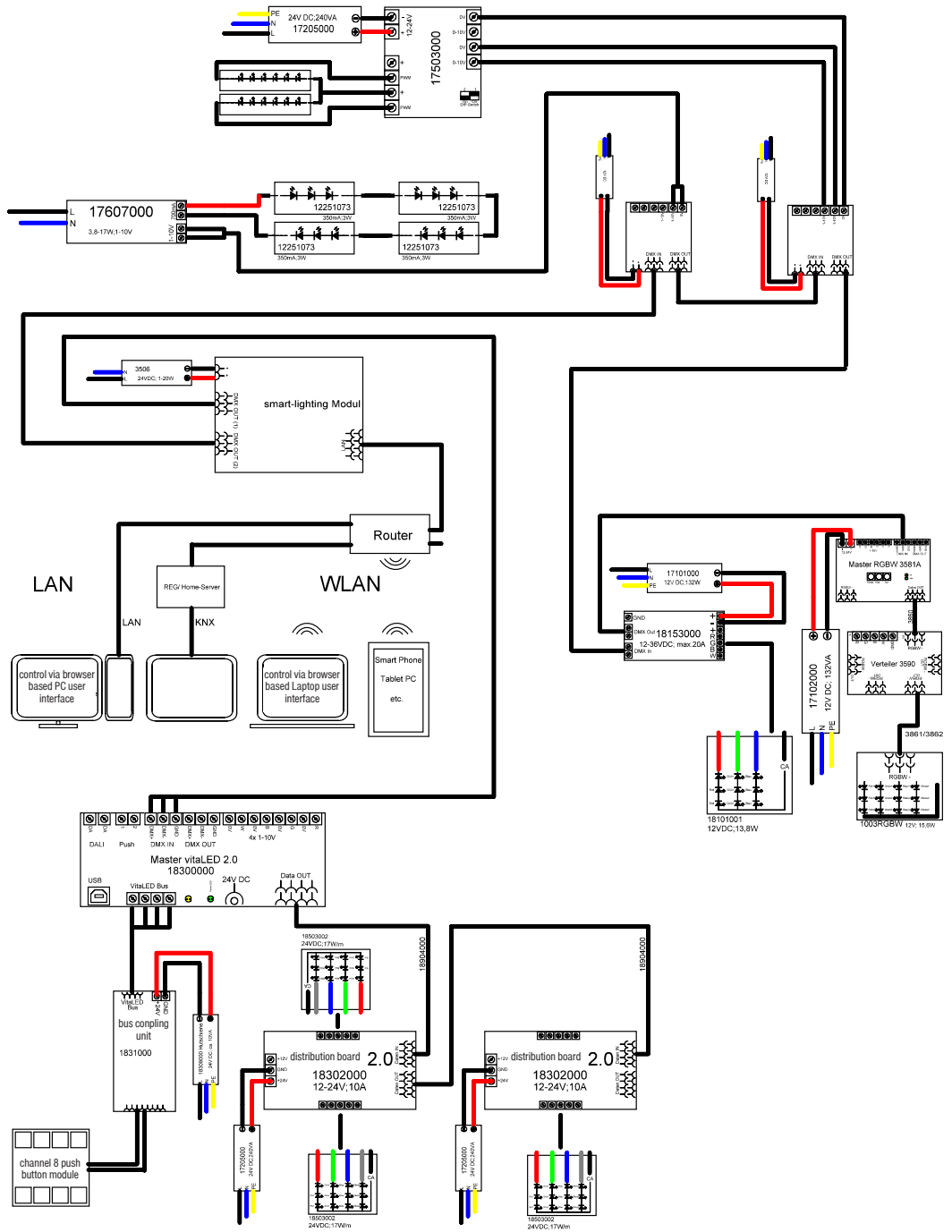
Functions:

- DMX commands of the smart-lighting module are converted into 1-10 V signals for dimming and controlling monochromatic LED systems or Tunable White systems
- Adjustable DMX start address
- Output for the relay control (12 V DC) of the ballasts (switching off)

Ambient temperature: 0° C to +45° C, housing: plastic / aluminium

Article-no.

18319000





Hotel Atrium (Germany)

18900000 - 18902000 vitaLED® 2.0 8-pole connection cable



Specification

System cable to link distribution board and luminaire

Article-no.	Description
18900000	system cable 1000 mm
18901000	system cable 2000 mm
18902000	connection for system cable 100 mm

18906000 / 18909000 vitaLED® 2.0 extension cable



Specification

Connection set for signal transmission on pre-installed control lines from connection to distribution board or from the distribution board to the luminaire (see table).

Article-no.	Description	Length
18909000	connecting cable IN to Plug & Play distributor	200 mm
18906000	connecting cable (IN/OUT) from distributor to luminaire	200 mm

18903000 - 18905000 vitaLED® 2.0 system cable



Specification

System cable for signal continuation; from the master to the distribution board /from the distribution board to distribution board

Article-no.	Length
18903000	500 mm
18904000	5000 mm
18905000	10.000 mm



QualityFlex® Select flexible stripes

468



QualityFlex® Select profiles

492



QualityFlex® Select accessories

514







<< Light is a symbol,
of life and joy.
Honoré de Balzac



ATMOSPHERIC LIGHTING

Perfect ambient light with QualityFlex® Select LED light strips

The rhythm of our life is becoming increasingly more rapid. Work and living environments are changing. More and more people are consciously looking for the balance between action and relaxation. In this way, they maintain their balance between work and life – the indicator of our quality of life.

THE INTERPLAY OF FUNCTIONAL AND AMBIENT LIGHT

Light is playing an increasingly important role in designing our work and living environments. Strictly speaking, light can perform numerous tasks. Depending on the brightness and light colour, it can have a stimulating or calming effect. Ambient light creates a pleasant atmosphere in the perfect interplay with functional lighting.

QUALITYFLEX® SELECT – PERFECT FOR ATMOSPHERIC LIGHTING.

QualityFlex® Select LED strips are perfect for atmospheric lighting. They are flexible and can be customized to individual lengths and integrated perfectly into the architecture of buildings and rooms.

Ceiling panels and recesses can be lit with QualityFlex®, and room dividers are highlighted to great effect. The LED light strips create a genuine sense of well-being in wellness areas. Integrated into entrance areas or roof edges, they are effective in exterior areas as well.

QualityFlex® Select is frequently used in retail stores, the restaurant and hotel industries as well as in the upscale private sector. Expert advice about lighting technology and prefabrication to the desired lengths are part of Brumberg service.

THE PRODUCT LINE

Large selection. Rapid availability.
Prefabricated delivery.

QUALITYFLEX SELECT

LED flex strips available in a solid design and in individually selectable lengths. Design up to 5 m with 4.8 W, 9.6 W, 14.4 W, 19.2 W or 28.8 W. Design up to 15 m with 5 W, 10 W or 20 W. All LED flex strips come in 4 white temperatures – from cool white to warm white – and in 3 protection classes – IP00, IP60 and IP67 – for indoor and outdoor applications. 19.2 W flex strips as TunableWhite version (IP00) as well as vitaLED® colour strip (IP00 and IP60). High lumen output and luminous efficiency per metre. Customized delivery with single end power feed of 300 mm to 350 mm and optional plug-in system available.



PROFILES

Expanded product range of recessed and extruded profiles for a wide range of installation and lighting situations. Available in various lengths of 1 m, 2 m or prefabricated to the desired length.



ACCESSORIES

Expanded product line of useful components. For each profile, a selected choice of accessories is available, such as covers, end caps and profile mountings.



QUALITYFLEX® SELECT IN A NEW QUALITY.

Four white light colours, three protection classes and individual lengths.



Invisible and yet striking – the QualityFlex® Select LED flex strips are jacks of all trades in ambient lighting. They create atmosphere accents in interior and exterior areas. At the same time, they are highly efficient and long-lasting.

QUALITYFLEX® SELECT EDITION 2016.

QualityFlex® Select has achieved a new level of quality in the Edition 2016. The white or coloured light strips are available in a variety of colour temperatures and light colours. As a rolled product with power inputs at both ends and individual divisibility of the segments (corresponding to the pre-set division segments), QualityFlex® Select is highly flexible.

MAXIMUM COLOUR FIDELITY IN FOUR WHITE TONES

The QualityFlex® Select programme features maximum colour fidelity and a variety of white colour temperatures. Each LED flex strip is available in cool white, neutral white and in two warm white tones.

THREE PROTECTION CLASSES FOR INTERIOR AND EXTERIOR AREAS.

With the three protection classes, IP00, IP60 and IP67, QualityFlex® Select can be used with correct installation in damp locations without quality loss or safety risk. Integrated into the ceilings of pool and wellness oases, QualityFlex® Select provides a soothing atmosphere. Furthermore, the LED flex strips are provided with a silicon coating in the IP67 protection class. They can thus also be used in bathrooms and wellness and outdoor areas.

CUTTING POINTS FOR EASY DIVISIBILITY

QualityFlex® Select demonstrates its great flexibility in adapting to individual customer requirements. The flexible LED light strips can be easily customized to the desired length. The division segments are indicated by marked cutting points.



PERFECTLY MATCHED QUALITYFLEX® SELECT PROFILES

Brumberg has achieved optimal thermal management in the interaction between the QualityFlex® Select LED strips and the recessed and extruded profiles. The profiles conduct away heat and at the same time protect the light strips. The matching profiles are in each case clearly assigned to the LED flex strips. This provides electricians and lighting planners a high level of safety when planning their projects.

EASY INSTALLATION WITH ADHESIVE FILM AND PLUG-IN SYSTEM.

High quality 3M adhesive film on the bottom of the strips facilitates the assembly of QualityFlex® Select in the aluminium profiles. Outfitting with a plug-in system is also optionally available for parallel inputs of several LED flex strips. The manufacture with power supply cables attached at both ends simplifies the installation of QualityFlex® Select.

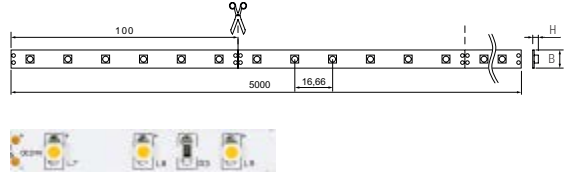
A WIDE RANGE OF ACCESSORIES

The expanded QualityFlex® Select product line includes useful accessories. For example, if the profiles are furnished with frosted or matt coverings, a more even light emission results. In addition to the matching end pieces and end caps, Brumberg also offers sets with mounting elements and screws.

CUSTOMIZATION SERVICE

On request, Brumberg supplies prefabricated QualityFlex® Selectstrips. For this purpose, the entire roll length is divided into the smallest divisible unit of length. This unit of length is identified in the catalogue for each QualityFlex® Select light strip. To order the desired overall length, simply order a multiple of the respective smallest unit of length plus the customization service. You can find additional information about this on pages 60-61.

15201... / 15221... / 15271...
LED flexible strip 4.8 W/m



Specification

Flexible LED conductor strips fitted with 300x SMD 3528 LEDs; power: max. 24 W (4.8 W/m), beam angle: 120°, width: 8-11 mm, length: 5,000 mm, easily cut every 100 mm, two-sided 3M adhesive tape included in delivery to aid installation. Incl. connector cables at both ends; length 350 mm each.

To dissipate heat, light must be mounted on aluminium profiles. (Starting on p. 494).

Electrical data	Mechanical data	Temperature data	Luminaire data
Nominal voltage [V DC]: 24 Protection class: III Max. efficiency [lm/W]: 75 Power input [W/m]: 4.8 Number of LEDs per metre: 60 Current [mA/Chip]: 20	Separable length [mm]: 100 Short Pitch [mm]: 16.66 max. module length [mm]: 5,000	Ambient temperature [°C]: -10 - +40	Beam angle: 120° CRI>85

*Intended purpose: special product for a decorative application. Not appropriate for use in other applications.

IP00



Article no./5 m	Article no./100 mm	Colour temperature	Light flux/m	EEC	Dimensions [W x H]
15201027	75201027	2700 K	about 390 lm	A+	8 x 2.4 mm
15201003	75201003	3100 K	about 420 lm	A+	8 x 2.4 mm
15201004	75201004	4100 K	about 468 lm	A++	8 x 2.4 mm
15201005	75201005	6000 K	about 468 lm	A++	8 x 2.4 mm
15201008	75201008		about 66 lm	*	8 x 2.4 mm
15201006	75201006		about 140 lm	*	8 x 2.4 mm
15201009	75201009		about 150 lm	*	8 x 2.4 mm
15201007	75201007		about 230 lm	*	8 x 2.4 mm
	75998000	Customization for protection class IP00			

IP60



Article no./5 m	Article no./100 mm	Colour temperature	Light flux/m	EEC	Dimensions [W x H]
15221027	75221027	2700 K	about 280 lm	A	8 x 2.7 mm
15221003	75221003	3100 K	about 302 lm	A	8 x 2.7 mm
15221004	75221004	4100 K	about 336 lm	A	8 x 2.7 mm
15221005	75221005	6000 K	about 336 lm	A	8 x 2.7 mm
	75999000	Customization with increased protection rating			

Resistant silicon coating, impervious to any mechanical stress; wipeable.

IP67



Article no./5 m	Article no./100 mm	Colour temperature	Light flux/m	EEC	Dimensions [W x H]
15271027	75271027	2700 K	about 257 lm	A	11 x 4 mm
15271003	75271003	3100 K	about 277 lm	A	11 x 4 mm
15271004	75271004	4100 K	about 308 lm	A+	11 x 4 mm
15271005	75271005	6000 K	about 308 lm	A+	11 x 4 mm
15271008	75271008		about 43 lm	*	11 x 4 mm
15271006	75271006		about 92 lm	*	11 x 4 mm
15271009	75271009		about 99 lm	*	11 x 4 mm
15271007	75271007		about 151 lm	*	11 x 4 mm
	75999000	Customization with increased protection rating			

White, light-reflecting support profile with resistant silicon coating. Optimum protection against mechanical stress and moisture; wipeable.

Private home, Boltrop (Germany)

APPLICABLE PROFILES



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Accessories for 15201... / 15221... / 15271...

Fields of application

Decorative as well as accent lighting of lighting covers, linear applications and backlighting, such as furniture, shelves, display cases, shadow gaps and many others.

Driver

Starting on page 514, you can find appropriate drivers



Controllers

Starting on page 516, you can find controllers for all signal types



Additional accessories

You can find inputs, connectors and direct connectors on pages 518

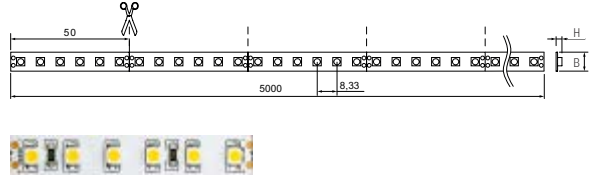


15724000

15727000

15730000

15202... / 15222... / 15272...
LED flexible strip 9.6 W/m



Specification

Flexible LED conductor strips fitted with 600x SMD 3528 LEDs; power: max. 48 W (9.6 W/m), beam angle: 120°, width: 8-11 mm, length: 5,000 mm, easily cut every 50 mm, two-sided 3M adhesive tape included in delivery to aid installation. Incl. connector cables at both ends; length 350 mm each.

To dissipate heat, light must be mounted on aluminium profiles. (Starting on p. 494).

Electrical data	Mechanical data	Temperature data	Luminaire data
Nominal voltage [V DC]: 24 Protection class: III Max. efficiency [lm/W]: 75 Power input [W/m]: 9.6 Number of LEDs per metre: 120 Current [mA/Chip]: 20	Separable length [mm]: 50 Short Pitch [mm]: 8.33 max. module length [mm]: 5,000	Ambient temperature [°C]: -10 - +40	Beam angle: 120° CRI>85

IP00



Article no./5 m	Article no./50 mm	Colour temperature	Light flux/m	EEC	Dimensions [W x H]
15202027	75202027	2700 K	about 780 lm	A+	8 x 2.4 mm
15202003	75202003	3100 K	about 840 lm	A+	8 x 2.4 mm
15202004	75202004	4100 K	about 936 lm	A+	8 x 2.4 mm
15202005	75202005	6000 K	about 936 lm	A+	8 x 2.4 mm
	75998000	Customization for protection class IP00			

IP60



Article no./5 m	Article no./50 mm	Colour temperature	Light flux/m	EEC	Dimensions [W x H]
15222027	75222027	2700 K	about 561 lm	A+	8 x 2.7 mm
15222003	75222003	3100 K	about 604 lm	A+	8 x 2.7 mm
15222004	75222004	4100 K	about 673 lm	A+	8 x 2.7 mm
15222005	75222005	6000 K	about 673 lm	A+	8 x 2.7 mm
	75999000	Customization with increased protection rating			

Resistant silicon coating, impervious to any mechanical stress; wipeable.

IP67



Article no./5 m	Article no./50 mm	Colour temperature	Light flux/m	EEC	Dimensions [W x H]
15272027	75272027	2700 K	about 514 lm	A	11 x 4.2 mm
15272003	75272003	3100 K	about 554 lm	A	11 x 4.2 mm
15272004	75272004	4100 K	about 617 lm	A	11 x 4.2 mm
15272005	75272005	6000 K	about 617 lm	A	11 x 4.2 mm
	75999000	Customization with increased protection rating			

White, light-reflecting support profile with resistant silicon coating. Optimum protection against mechanical stress and moisture; wipeable.

Kraus Elektro, Vaterstetten (Germany)

APPLICABLE PROFILES



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Accessories for 15202... / 15222... / 15272...

Fields of application

Technical as well as efficient lighting of lighting covers, linear applications and backlighting, such as furniture, shelves, display cases, shadow gaps and many others.

Driver

Starting on page 514, you can find appropriate drivers



Controllers

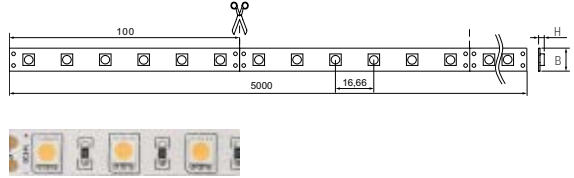
Starting on page 516, you can find controllers for all signal types



15203... / 15223... / 15273...
LED flexible strip 14.4 W/m



14.4 W/m



Specification

Flexible LED conductor strips fitted with 300x SMD 5050 LEDs; power: max. 72 W (14.4 W/m), beam angle: 120°, width: 10-12.7 mm, length: 5,000 mm, easily cut every 100 mm, two-sided 3M adhesive tape included in delivery to aid installation. Incl. connector cables at both ends; length 350 mm each.

To dissipate heat, light must be mounted on aluminium profiles. (Starting on p. 494).

Electrical data	Mechanical data	Temperature data	Luminaire data
Nominal voltage [V DC]: 24 protection class: III Max. efficiency [lm/W]: 75 Power input [W/m]: 14.4 Number of LEDs per metre: 60 Current [mA/Chip]: 60	Separable length [mm]: 100 Short Pitch [mm]: 16.66 max. module length [mm]: 5,000	Ambient temperature [°C]: -10 - +40	Beam angle: 120° CRI>85

IP00



Article no./5 m	Article no./100 mm	Colour temperature	Light flux/m	EEC	Dimensions [W x H]
15203027	75203027	2700 K	about 1200 lm	A+	10 x 2.2 mm
15203003	75203003	3100 K	about 1260 lm	A+	10 x 2.2 mm
15203004	75203004	4100 K	about 1380 lm	A+	10 x 2.2 mm
15203005	75203005	6000 K	about 1380 lm	A+	10 x 2.2 mm
	75998000	Customization for protection class IP00			

IP60



Article no./5 m	Article no./100 mm	Colour temperature	Light flux/m	EEC	Dimensions [W x H]
15223027	75223027	2700 K	about 864 lm	A	10 x 2.5 mm
15223003	75223003	3100 K	about 907 lm	A	10 x 2.5 mm
15223004	75223004	4100 K	about 993 lm	A	10 x 2.5 mm
15223005	75223005	6000 K	about 993 lm	A	10 x 2.5 mm
	75999000	Customization with increased protection rating			

Resistant silicon coating, impervious to any mechanical stress; wipeable.

IP67



Article no./5 m	Article no./100 mm	Colour temperature	Light flux/m	EEC	Dimensions [W x H]
15273027	75273027	2700 K	about 792 lm	A	12.7 x 5 mm
15273003	75273003	3100 K	about 831 lm	A	12.7 x 5 mm
15273004	75273004	4100 K	about 910 lm	A	12.7 x 5 mm
15273005	75273005	6000 K	about 910 lm	A	12.7 x 5 mm
	75999000	Customization with increased protection rating			

White, light-reflecting support profile with resistant silicon coating. Optimum protection against mechanical stress and moisture; wipeable.

ENT specialist „HNO am Grünwald“, Solingen (Germany)

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Accessories for 15203... / 15223... / 15273...

Fields of application

Basic or general lighting of rooms, architectural applications and areas in which a high level of illumination is required, such as indirect or direct lighting, illuminated ceilings, food industry lighting and many others.

Driver

Starting on page 514, you can find appropriate drivers



Controllers

Starting on page 516, you can find controllers for all signal types



Additional accessories

You can find inputs, connectors and direct connectors on pages 518

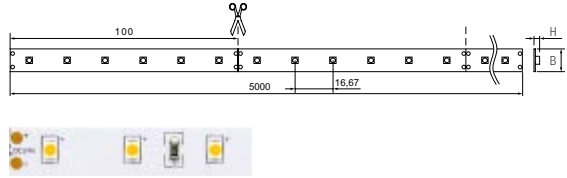


15725000

15728000

15731000

15204...
LED flexible strip 14.4W/m



Specification

Flexible LED conductor strips fitted with 300x SMD 2835 LEDs; power: max. 72 W (14.4 W/m), beam angle: 120°, width: 10 mm, length: 5,000 mm, easily cut every 100 mm, two-sided 3M adhesive tape included in delivery to aid installation. Incl. connector cables at both ends; length 350 mm each.

To dissipate heat, light must be mounted on aluminium profiles. (Starting on p. 494).

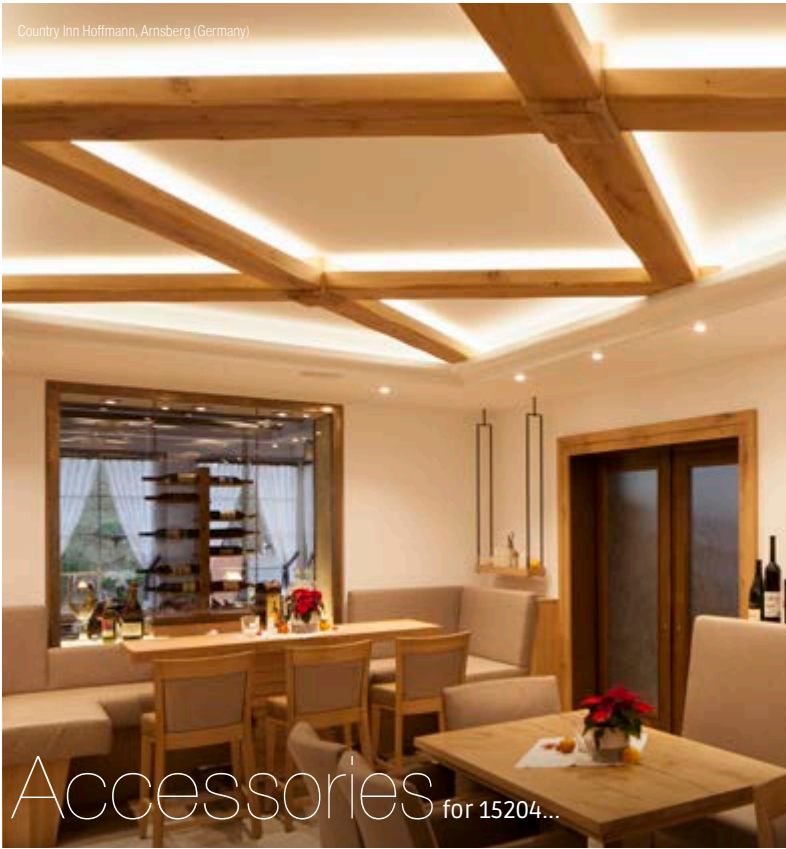
Electrical data	Mechanical data	Temperature data	Luminaire data
Nominal voltage [V DC]: 24 Protection class: III Max. efficiency [lm/W]: 83 Power input [W/m]: 14.4 Number of LEDs per metre: 60 Current [mA/Chip]: 60	Separable length [mm]: 100 Short Pitch [mm]: 16.67 max. module length [mm]: 5,000	Ambient temperature [°C]: -10 - +40	Beam angle: 120° CRI>85

IP00



Article no./5 m	Article no./100 mm	Colour temperature	Light flux/m	EEC	Dimensions [W x H]
15204027	75204027	2700 K	about 1320 lm	A+	10 x 1.4 mm
15204003	75204003	3100 K	about 1380 lm	A+	10 x 1.4 mm
15204004	75204004	4100 K	about 1560 lm	A+	10 x 1.4 mm
15204005	75204005	6000 K	about 1560 lm	A+	10 x 1.4 mm
	75998000	Customization for protection class IP00			

Country Inn Hoffmann, Arnsberg (Germany)



Accessories for 15204...

Fields of application

Basic or general lighting of rooms, architectural applications and areas in which a high level of illumination is required, such as indirect or direct lighting, illuminated ceilings, food industry lighting and many others.

Driver

Starting on page 514, you can find appropriate drivers



Controllers

Starting on page 516, you can find controllers for all signal types



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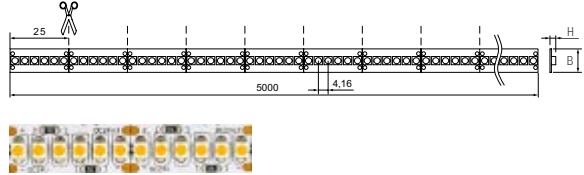
IP00



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IP00

15205...
LED flexible strip 19.2 W/m



Specification

Flexible LED conductor strips fitted with 1200x SMD 3528 LEDs; power: max. 96 W (19.2 W/m), beam angle: 120°, width: 10 mm, length: 5,000 mm*, easily cut every 25 mm, two-sided 3M adhesive tape included in delivery to aid installation. Incl. connector cables at both ends; length 350 mm each.

To dissipate heat, light must be mounted on aluminium profiles. (Starting on p. 494).

Electrical data	Mechanical data	Temperature data	Luminaire data
Nominal voltage [V DC]: 24 Protection class: III Max. efficiency [lm/W]: 75 Power input [W/m]: 19.2 Number of LEDs per metre: 240 Current [mA/Chip]: 20	Separable length [mm]: 25 Short Pitch [mm]: 4.16 Modular power supply [mm]: one end 3,000 and both ends 5,000	Ambient temperature [°C]: -10 - +40	Beam angle: 120° CRI>85



Article no./5 m	Article no./25 mm	Colour temperature	Light flux/m	EEC	Dimensions [W x H]
15205027	75205027	2700 K	about 1560 lm	A	10 x 2.4 mm
15205003	75205003	3100 K	about 1680 lm	A+	10 x 2.4 mm
15205004	75205004	4100 K	about 1872 lm	A+	10 x 2.4 mm
15205005	75205005	6000 K	about 1872 lm	A+	10 x 2.4 mm
	75998000	Customization for protection class IP00			

*Installation note:

For a maximum modular length of 5,000 mm, the LED flex strips must be fed at both ends. For a power feed at one end, a maximum modular length of 3,000 mm must not be exceeded.

One-end power feed, max. 3 m



Both-end power feed, max. 5 m



Shopping Mall „Arcaden“, Erlangen (Germany)



Accessories for 15205...

Fields of application

Basic or general lighting of rooms, architectural applications and areas in which a high level of illumination is required, such as indirect or direct lighting, illuminated ceilings, food industry lighting and many others.

Driver

Starting on page 514, you can find appropriate drivers



Controllers

Starting on page 516, you can find controllers for all signal types



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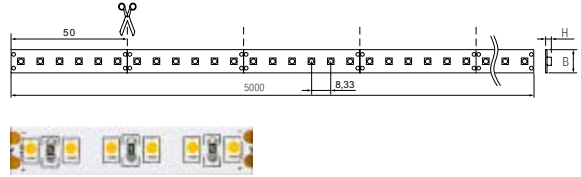
IP00



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15206...
LED flexible strip 28.8W/m



Specification

Flexible LED conductor strips fitted with 600x SMD 2835 LEDs; power: max. 144 W (28.8 W/m), beam angle: 120°, width: 10 mm, length: 5,000 mm*, easily cut every 50 mm, two-sided 3M adhesive tape included in delivery to aid installation. Incl. connector cables at both ends; length 350 mm each.

To dissipate heat, light must be mounted on aluminium profiles. (Starting on p. 494).

Electrical data	Mechanical data	Temperature data	Luminaire data
Nominal voltage [V DC]: 24 Protection class: III Max. efficiency [lm/W]: 100 Power input [W/m]: 28.8 Number of LEDs per metre: 120 Current [mA/Chip]: 60	Separable length [mm]: 50 Short Pitch [mm]: 8.33 Maximum modular power supply [mm]: one end 3,000 and both ends 5,000	Ambient temperature [°C]: -10 - +40	Beam angle: 120° CRI>85



Article no./5 m	Article no./50 mm	Colour temperature	Light flux/m	EEC	Dimensions [W x H]
15206027	75206027	2700 K	about 2640 lm	A	10 x 1.4 mm
15206003	75206003	3100 K	about 2760 lm	A+	10 x 1.4 mm
15206004	75206004	4100 K	about 3120 lm	A+	10 x 1.4 mm
15206005	75206005	6000 K	about 3120 lm	A+	10 x 1.4 mm
	75998000	Customization for protection class IP00			

*Installation note:

For a maximum modular length of 5,000 mm, the LED flex strips must be fed at both ends. For a power feed at one end, a maximum modular length of 3,000 mm must not be exceeded.

One-end power feed, max. 3 m



Both-end power feed, max. 5 m



Sauna park Epe, Gronau (Germany)

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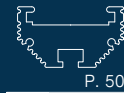
Accessories for 15206...

Fields of application

Basic or general lighting of rooms, architectural applications and areas in which a high level of illumination is required, such as indirect or direct lighting, illuminated ceilings, food industry lighting and many others.

Driver

Starting on page 514, you can find appropriate drivers



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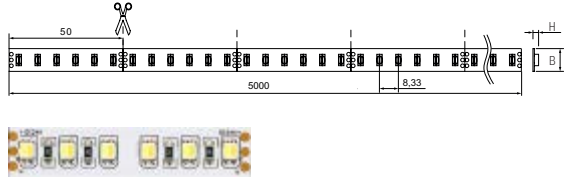
IP00

Controllers

Starting on page 516, you can find controllers for all signal types



15215004
TunableWhite LED flexible strip 19.2W/m



Specification

Flexible LED conductor strips fitted with 600x SMD 3527 LEDs, bi-colour double chip technology (DCT); power: max. 96 W (19.2 W/m), beam angle: 120°, width: 10 mm, length: 5,000 mm, easily cut every 50 mm, two-sided 3M adhesive tape included in delivery to aid installation. Incl. connector cables at both ends, length 350 mm each.

To dissipate heat, light must be mounted on aluminium profiles. (Starting on p. 494).

Electrical data	Mechanical data	Temperature data	Luminaire data
Nominal voltage [V DC]: 24 protection class: III Power input [W/m]: 19.2 Number of LEDs per metre: 120 Current [mA/Chip]: 40 Control: negative (3-core wire)	Separable length [mm]: 50 Short Pitch [mm]: 8.33 max. module length [mm]: 5,000	Ambient temperature [°C]: -10 - +40	Beam angle: 120°

IP00



Article no./5 m	Article no./50mm	Colour temperature	Light flux/m	EEC	Dimensions [WxH]
15215004	75215004	2700 K	about 700 lm	A	10 x 2 mm
		5700 K	about 700 lm		
	75998000	Customization for protection class IP00			

Culinary school of Schloss Leifer, Guldental (Germany)

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Accessories for 15215004

Fields of application

Changeable white light area using adjustment of colour temperature of the warm white and cool white channels for customised and efficient lighting of lighting covers, linear applications and backlighting, such as furniture, shelves, display cases, shadow gaps, illuminated ceilings and many others. Optimised for use with Brumberg 2-channel or TunableWhite controls.

Driver

Starting on page 514, you can find appropriate drivers

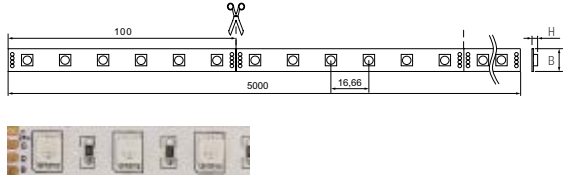


Controllers

Starting on page 516, you can find controllers for all signal types



15203001 / 15223001 / 15273001
LED flexible strip RGB 14.4 W/m



Specification

Flexible LED conductor strips fitted with 300x SMD 5050 RGB LEDs, multi-colour; power: max. 72 W (14.4 W/m), beam angle: 120°, width: 10-12.7 mm, length: 5,000 mm, easily cut every 100 mm, two-sided 3M adhesive tape included in delivery to aid installation. Incl. connector cables at both ends; length 350 mm each.

To dissipate heat, light must be mounted on aluminium profiles. (Starting on p. 494).

*Intended purpose: special product for a decorative application. Not appropriate for use in other applications.

Electrical data	Mechanical data	Temperature data	Luminaire data
Nominal voltage [V DC]: 24 protection class: III Power input [W/m]: 14.4 Number of LEDs per metre: 60 Current [mA/Chip]: 60 Control: negative (4-core wire)	Separable length [mm]: 100 Short Pitch [mm]: 16.66 max. module length [mm]: 5,000	Ambient temperature [°C]: -10 - +40	Beam angle: 120° Light colour category RGB

IP00



Article no./5 m	Article no./100 mm	Light colour	Light flux/m	Dimensions [W x H]:
15203001	75203001	red	about 160 lm	10 x 2.2 mm
		green	about 430 lm	
		blue	about 80 lm	
75998000		Customization for protection class IP00		

IP60



Article no./5 m	Article no./100 mm	Light colour	Light flux/m	Dimensions [W x H]:
15223001	75223001	red	about 115 lm	10 x 2.5 mm
		green	about 309 lm	
		blue	about 57 lm	
75999000		Customization with increased protection rating		

Resistant silicon coating, impervious to any mechanical stress; wipeable.

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Article no./5 m	Article no./100 mm	Light colour	Light flux/m	Dimensions [W x H]:
15273001	75273001	red	about 105 lm	12.7 x 5 mm
		green	about 282 lm	
		blue	about 52 lm	
75999000		Customization with increased protection rating		

White, light-reflecting support profile with resistant silicon coating. Optimum protection against mechanical stress and moisture; wipeable.

Building management services „Natelberg“, Rhauderfehn (Germany)

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Accessories

for 15203001 / 15223001 / 15273001

Fields of application

Individual colours or colour blending using the red, green and blue colour channels for decorative and accent lighting of lighting covers, linear applications and backlighting, such as furniture, shelves, display cases, shadow gaps and many others. Optimised for use with Brumberg RGB controls.

Driver

Starting on page 514, you can find appropriate drivers



Controllers

Starting on page 516, you can find controllers for all signal types



Additional accessories

You can find inputs, connectors and direct connectors on pages 5189.

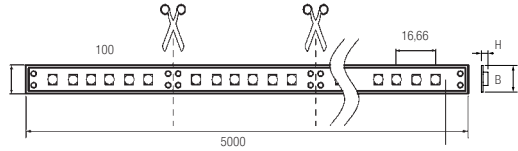


15726000

15729000

15732000

18513002 / 18562002
LED flexible strip RGBW 19.2 W/m



Specification

Flexible LED conductor strips fitted with 600x SMD LED double chip, multi-colour 4in1; power: max. 96 W (19.2 W/m), beam angle: 120°, width: 10 mm, length: 5,000 mm, easily cut every 100 mm, two-sided 3M adhesive tape included in delivery to aid installation. Incl. connector cables at both ends; length 350 mm each.

To dissipate heat, light must be mounted on aluminium profiles. (Starting on p. 494).

*Intended purpose: special product for a decorative application. Not appropriate for use in other applications.

Electrical data	Mechanical data	Temperature data	Luminaire data
Nominal voltage [V DC]: 24 protection class: III Power input [W/m]: 19.2 Number of LEDs per metre: 120 Control: negative (5-core wire)	Separable length [mm]: 100 Short Pitch [mm]: 16.66 max. module length [mm]: 5,000	Ambient temperature [°C]: -10 - +40	Beam angle: 120° Light colour category RGBW

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Article no./5 m	Article no./100 mm	Light colour	Light flux/m	EEC	Dimensions [W x H]:
18513002	75513002	4000 K	about 445 lm	○	A+ 10 x 2 mm
		622 nm	about 120 lm	●	
		531 nm	about 270 lm	●	
		452 nm	about 50 lm	●	
75998000	Customization for protection class IP00				

Optimized for the use in the Brumberg vitalLED® system.

IP60



Article no./5 m	Article no./100 mm	Light colour	Light flux/m	EEC	Dimensions [W x H]:
18562002	75523001	4000 K	about 320 lm	○	A+ 10 x 3 mm
		622 nm	about 86 lm	●	
		531 nm	about 194 lm	●	
		452 nm	about 36 lm	●	
75999000	Customization with increased protection rating				

Resistant silicon coating, impervious to any mechanical stress; wipeable.

Event center „Zentralhallen“, Hamm (Germany)

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Accessories

for 18503002 / 18523002

Fields of application

White light area and colour blending using the red, green and blue colour channels for changeable and efficient lighting of lighting covers, linear applications and backlighting, such as furniture, shelves, display cases, shadow gaps, illuminated ceilings and many others. The IP00 flexible strip is optimised for used in the Brumberg vitaLED® 2.0 System

Driver

Starting on page 514, you can find appropriate drivers



Controllers

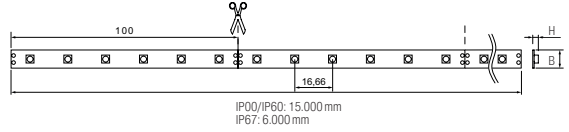
Starting on page 516, you can find controllers for all signal types



19201... / 19221... / 19261...
LED flexible strip 5W/m



5W/m



Specification

Flexible LED conductor strips fitted with 900x 3014 LEDs, integrated constant current source; power: max. 75W (5W/m), beam angle: 120°, width: 10-12 mm, length: 15,000 mm, easily cut every 100 mm, two-sided 3M adhesive tape included in delivery to aid installation. Incl. connector cables at both ends (tin-plated wire ends), length 300 mm.

To dissipate heat, light must be mounted on aluminium profiles. (Starting on p. 494).

Electrical data	Mechanical data	Temperature data	Luminaire data
Nominal voltage [V DC]: 24 Protection class: III Power input [W/m]: 5 Number of LEDs per metre: 60 Current [mA/Chip]: 20	Separable length [mm]: 100 Short Pitch [mm]: 16.66 min. bending radius [mm]: 60 max. module length [mm]: 15,000	Ambient temperature [°C]: -10 - +40	Beam angle: 120° CRI>80 SDCM: Step 3

IP00



Article no./15 m	Article no./100 mm	Colour temperature	Light flux/m	EEC	Dimensions [W x H]
19201927	76201927	2700 K	about 540 lm	A++	10 x 1.5 mm
19201903	76201903	3000 K	about 540 lm	A++	10 x 1.5 mm
19201904	76201904	4000 K	about 570 lm	A++	10 x 1.5 mm
19202905	76201905	6500 K	about 570 lm	A++	10 x 1.5 mm
	75998000	Customization for protection class IP00			

IP60



Article no./15 m	Article no./100 mm	Colour temperature	Light flux/m	EEC	Dimensions [W x H]
19221927	76221927	2700 K	about 432 lm	A+	10 x 2.8 mm
19221903	76221903	3500 K	about 432 lm	A+	10 x 2.8 mm
19221904	76221904	4000 K	about 456 lm	A+	10 x 2.8 mm
19221905	76221905	5700 K	about 456 lm	A+	10 x 2.8 mm
	75999000	Customization with increased protection rating			

Resistant silicon coating, impervious to any mechanical stress; wipeable.

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Article no./6 m	Article no./100 mm	Colour temperature	Light flux/m	EEC	Dimensions [W x H]
19261927	76261927	2700 K	about 405 lm	A+	12 x 4 mm
19261903	76261903	3500 K	about 405 lm	A+	12 x 4 mm
19261904	76261904	4100 K	about 427 lm	A+	12 x 4 mm
19261905	76261905	5600 K	about 427 lm	A+	12 x 4 mm
	75999000	Customization with increased protection rating			

White, light-reflecting support profile with resistant silicon coating. Optimum protection against mechanical stress and moisture; wipeable.

Private cinema, Reichenbach (Germany)

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Accessories for 19201... / 19221... / 19261...

Fields of application

Decorative and accent lighting of lighting covers, linear applications and backlighting, such as furniture, shelves, display cases, shadow gaps and many others.

Driver

Starting on page 514, you can find appropriate drivers



Controllers

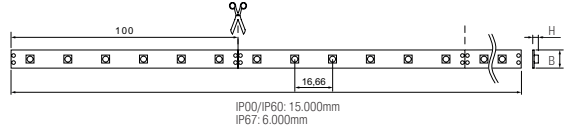
Starting on page 516, you can find controllers for all signal types



19202... / 19222... / 19262...
LED flexible strip 10 W/m



10 W/m



Specification

Flexible LED conductor strips fitted with 900x 3014 LEDs, integrated constant current source; power: max. 150 W (10 W/m), beam angle: 120°, width: 10-12 mm, length: 15,000 mm, easily cut every 100 mm, two-sided 3M adhesive tape included in delivery to aid installation. Incl. connector cables at both ends (tin-plated wire ends), length 300 mm.

To dissipate heat, light must be mounted on aluminium profiles. (Starting on p. 494).

Electrical data	Mechanical data	Temperature data	Luminaire data
Nominal voltage [V DC]: 24 Protection class: III Power input [W/m]: 10 Number of LEDs per metre: 60 Current [mA/Chip]: 40	Separable length [mm]: 100 Short Pitch [mm]: 16.66 min. bending radius [mm]: 60 max. module length [mm]: 15,000	Ambient temperature [°C]: -10 - +40	Beam angle: 120° CRI>80 SDCM: Step 3

IP00



Article no./15 m	Article no./100 mm	Colour temperature	Light flux/m	EEC	Dimensions [W x H]
19202927	76202927	2700 K	about 1080 lm	A+	10 x 1.5 mm
19202903	76202903	3000 K	about 1080 lm	A+	10 x 1.5 mm
19202904	76202904	4000 K	about 1140 lm	A++	10 x 1.5 mm
19202905	76202905	6500 K	about 1140 lm	A++	10 x 1.5 mm
	75998000	Customization for protection class IP00			

IP60



Article no./15 m	Article no./100 mm	Colour temperature	Light flux/m	EEC	Dimensions [W x H]
19222927	76222927	2700 K	about 864 lm	A+	10 x 2.8 mm
19222903	76222903	3500 K	about 864 lm	A+	10 x 2.8 mm
19222904	76222904	4000 K	about 912 lm	A+	10 x 2.8 mm
19222905	76222905	5700 K	about 912 lm	A+	10 x 2.8 mm
	75999000	Customization with increased protection rating			

Resistant silicon coating, impervious to any mechanical stress; wipeable.

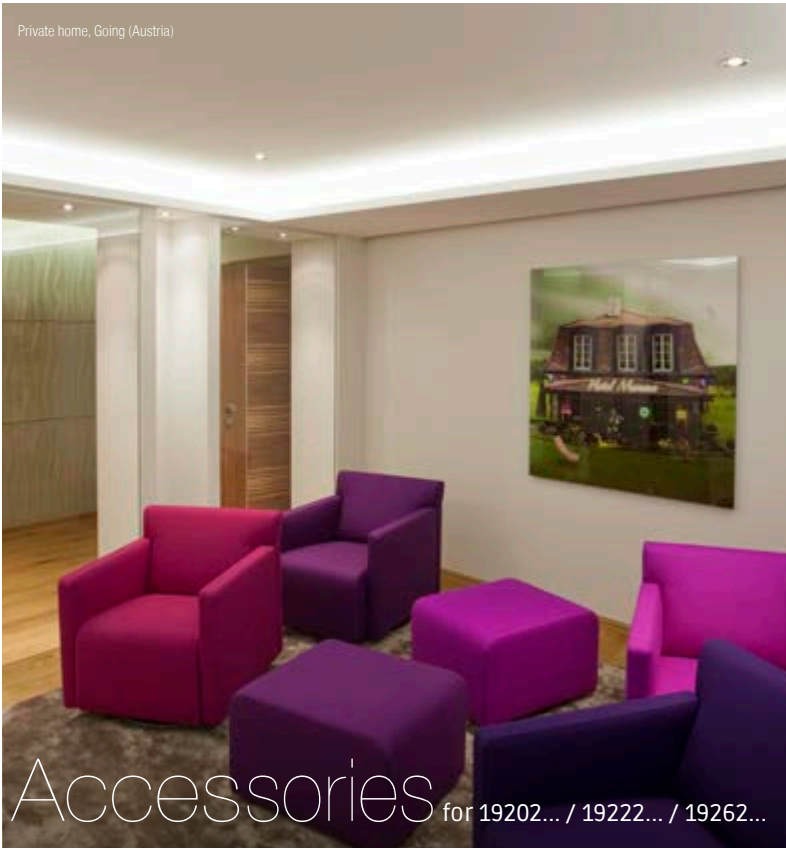
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Article no./6 m	Article no./100 mm	Colour temperature	Light flux/m	EEC	Dimensions [W x H]
19262927	76262927	2700 K	about 810 lm	A+	12 x 4 mm
19262903	76262903	3500 K	about 810 lm	A+	12 x 4 mm
19262904	76262904	4100 K	about 855 lm	A+	12 x 4 mm
19262905	76262905	5600 K	about 855 lm	A+	12 x 4 mm
	75999000	Customization with increased protection rating			

White, light-reflecting support profile with resistant silicon coating. Optimum protection against mechanical stress and moisture; wipeable.

Private home, Going (Austria)



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Fields of application

Technical and efficient lighting of lighting covers, linear applications and backlighting, such as furniture, shelves, display cases, shadow gaps and many others.

Driver

Starting on page 514, you can find appropriate drivers



Controllers

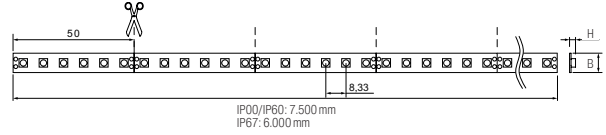
Starting on page 516, you can find controllers for all signal types



19203... / 19223... / 19263...
LED flexible strip 20 W/m



20 W / m



Specification

Flexible LED conductor strips fitted with 900x 3014 LEDs, integrated constant current source; power: max. 150 W (20 W/m), beam angle: 120°, width: 10-12 mm, length: 7,500 mm, easily cut every 50 mm, two-sided 3M adhesive tape included in delivery to aid installation. Incl. connector cables at both ends (tin-plated wire ends), length 300 mm.

To dissipate heat, light must be mounted on aluminium profiles. (Starting on p. 494).

Electrical data	Mechanical data	Temperature data	Luminaire data
Nominal voltage [V DC]: 24 Protection class: III Power input [W/m]: 20 Number of LEDs per metre: 120 Current [mA/Chip]: 40	Separable length [mm]: 50 Short Pitch [mm]: 8.33 min. bending radius [mm]: 60 max. module length [mm]: 7,500	Ambient temperature [°C]: -10 - +40	Beam angle: 120° CRI>80 SDCM: Step 3



Article no./7.5 m	Article no./50 mm	Colour temperature	Light flux/m	EEC	Dimensions [W x H]
19203927	76203927	2700 K	about 2040 lm	A+	10 x 1.5 mm
19203903	76203903	3000 K	about 2040 lm	A+	10 x 1.5 mm
19203904	76203904	4000 K	about 2160 lm	A+	10 x 1.5 mm
19203905	76203905	6500 K	about 2160 lm	A+	10 x 1.5 mm
	75998000	Customization for protection class IP00			



Article no./7.5 m	Article no./50 mm	Colour temperature	Light flux/m	EEC	Dimensions [W x H]
19223927	76223927	2700 K	about 1632 lm	A	10 x 2.8 mm
19223903	76223903	3500 K	about 1632 lm	A	10 x 2.8 mm
19223904	76223904	4000 K	about 1728 lm	A	10 x 2.8 mm
19223905	76223905	5700 K	about 1728 lm	A	10 x 2.8 mm
	75999000	Customization with increased protection rating			

Resistant silicon coating, impervious to any mechanical stress; wipeable.



Article no./6 m	Article no./50 mm	Colour temperature	Light flux/m	EEC	Dimensions [W x H]
19263927	76263927	2700 K	about 1530 lm	A	12 x 4 mm
19263903	76263903	3500 K	about 1530 lm	A	12 x 4 mm
19263904	76263904	4100 K	about 1620 lm	A	12 x 4 mm
19263905	76263905	5600 K	about 1620 lm	A	12 x 4 mm
	75999000	Customization with increased protection rating			

White, light-reflecting support profile with resistant silicon coating. Optimum protection against mechanical stress and moisture; wipeable.

Pressure die-casting technology services „HDO“, Paderborn (Germany)

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Accessories

for 19203... / 19223... / 19263...

Fields of application

Basic or general lighting of rooms, architectural applications and areas in which a high level of illumination is required, such as indirect or direct lighting, illuminated ceilings, food industry lighting and many others.

Driver

Starting on page 514, you can find appropriate drivers



Controllers

Starting on page 516, you can find controllers for all signal types



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QualityFlex® Quick finder

Which profile goes with which LED flex strip?

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	Artikel-Nr.	Seite									
			34	35	36	37	38	39	40	41	42
IP00											
4.8 W/m	15201...	8	1	1	1	2	2	3	1	1	1
9.6 W/m	15202...	10	1	1	1	2	2	2	1	1	1
14.4 W/m	15203...	12 / 22	1	1	1	2	2	2	1	1	1
14.4 W/m	15204...	14	1	1	1	2	2	2	1	1	1
19.2 W/m	15205...	16	1	1	1	1	1	1	1	1	1
28.8 W/m	15206...	18	–	–	–	1	1	1	–	–	–
19.2 W/m	15215...	20	1	1	1	1	2	1	1	1	1
19.2 W/m	18503...	24	1	1	1	1	1	1	1	1	1
5 W/m	19201...	26	1	1	1	1	1	1	1	1	1
10 W/m	19202...	28	1	1	1	1	1	1	1	1	1
20 W/m	19203...	30	1	1	1	1	1	1	1	1	1

	Artikel-Nr.	Seite									
IP60											
4.8 W/m	15221...	8	1	1	1	2	2	3	1	1	1
9.6 W/m	15222...	10	1	1	1	2	2	2	1	1	1
14.4 W/m	15223...	12 / 22	1	1	1	2	2	2	1	1	1
19.2 W/m	18523...	24	1	1	1	1	2	1	1	1	1
5 W/m	19221...	26	1	1	1	1	1	1	1	1	1
10 W/m	19222...	28	1	1	1	1	1	1	1	1	1
20 W/m	19223...	30	1	1	1	1	1	1	1	1	1












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4.8 W/m	15271...	8	1	–	1	1	–	2	1	–	–
9.6 W/m	15272...	10	1	–	1	1	–	2	1	–	–
14.4 W/m	15273...	12 / 22	–	–	–	1	–	2	–	–	–
5 W/m	19261...	26	–	–	–	1	–	1	–	–	–
10 W/m	19262...	28	–	–	–	1	–	1	–	–	–
20 W/m	19263...	30	–	–	–	1	–	1	–	–	–

[–] The conductor strip and the profile are not compatible.

[2] A maximum of two conductor strips can be installed in the profile.

[1] A conductor strip can be installed in the profile.

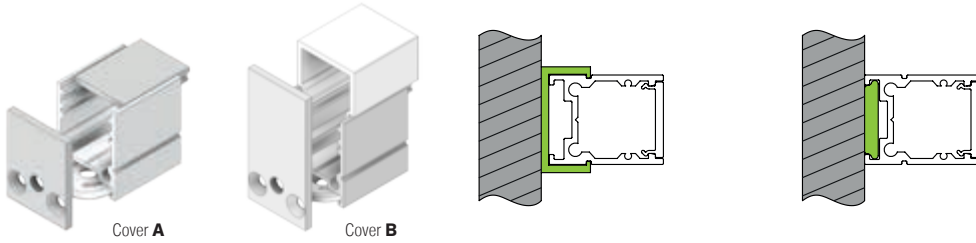
[3] A maximum of three conductor strips can be installed in the profile.

15911 ...	15851 ...	15861 ...	15541 ...	15031 ...	15405 ...	15711 ...	15971 ...	15941 ...	15951 ...	15731 ...	15408 ...
											
43	44	45	46	47	48	48	49	50	51	52	53
1	1	1	1	1	2	1	3	1	1	1	2
1	1	1	1	1	2	1	3	1	1	1	2
1	1	1	1	1	2	1	2	1	1	1	2
1	1	1	1	1	2	1	2	1	1	1	2
1	-	-	1	-	2	1	2	1	1	1	2
-	-	-	-	-	-	-	1	-	-	-	-
1	1	1	1	1	2	1	2	-	-	-	2
1	-	-	1	-	-	-	2	-	-	1	-
1	1	1	1	1	2	1	1	1	1	1	2
1	1	1	1	1	2	1	1	1	1	1	2
1	-	-	1	-	2	-	1	1	1	-	2

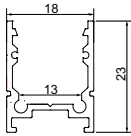
1	1	1	1	1	2	1	2	1	1	1	2
1	1	1	1	1	2	1	2	1	1	1	2
1	-	1	1	1	2	1	2	1	1	1	2
1	-	-	1	-	-	-	2	-	-	1	-
1	1	1	1	1	2	1	1	-	-	1	2
1	1	1	1	1	2	1	1	-	-	1	2
1	-	-	1	-	2	-	1	-	-	-	2

-	-	-	1	1	-	-	1	-	-	1	-
-	-	-	1	1	-	-	1	-	-	1	-
-	-	-	-	1	-	-	1	-	-	-	-
-	-	-	-	1	-	-	1	-	-	-	-
-	-	-	-	1	-	-	1	-	-	-	-
-	-	-	-	-	-	-	1	-	-	-	-

15761... / 15762
Aluminium profile



The compatibility of the profiles and strips see pages 492-493.



Finished lengths

Article no.	Length	Colour
15761260	1,000 mm	silver
15762260	2,000 mm	silver

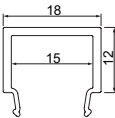
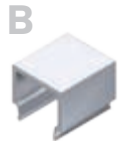
Customization

Article no.	Customization
75761260	Aluminium profile 100 mm
75991000	Customization of the aluminium profile

100 mm segments
See ordering details for customization on pp. 60-61

Accessories

Covers



Finished lengths

Profile covers: plastic (PMMA), UV stabilized

Article no.	Length	Colour
15734000	1,000 mm	transparent
15735000	2,000 mm	transparent

Customization

Article no.	Customization
75734000	Covers 100 mm
75992000	Customization of the cover

Article no.	Length	Colour
15765070	1,000 mm	opal
15766070	2,000 mm	opal

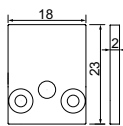
Article no.	Customization
75765070	Covers 100 mm
75992000	Customization of the cover

Article no.	Length	Colour
15730070	1,000 mm	opal
15731070	2,000 mm	opal

Article no.	Customization
75730070	Covers 100 mm
75992000	Customization of the cover

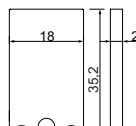
100 mm segments
See ordering details for customization on pp. 60-61

End pieces to cover A



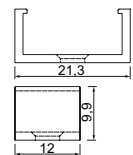
Article no.	Colour
15767000 with cable-hole	silver
15768000 w/o cable-hole	silver

End pieces to cover B



Article no.	Colour
15773000 with cable-hole	silver
15774000 w/o cable-hole	silver

Mounting clip



Article no.	Colour
15771000	silver

Mounting ring



Article no.	Colour
15769000	silver

Mounting magnet



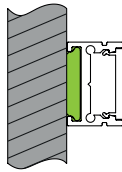
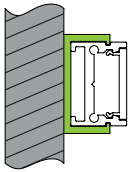
Article no.	Colour
15770000	silver

Cord suspension



Article no.	Colour
15772000	stainless steel

15751... / 15752...
Aluminium profile

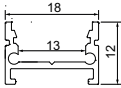


Cover B



Cover A

The compatibility of the profiles and strips see pages 492-493.



Accessories

Finished lengths

Article no.	Length	Colour
15751260	1,000 mm	silver
15752260	2,000 mm	silver

Customization

Article no.	Customization
75751260	Aluminium profile 100 mm
75991000	Customization of the aluminium profile

100 mm segments
See ordering details for customization on pp. 60-61

Covers

Finished lengths

Profile covers / plastic cover, PMMA, UV stabilized

Article no.	Length	Colour
15734000	1,000 mm	transparent
15735000	2,000 mm	transparent

Customization

Article no.	Customization
75734000	Covers 100 mm
75992000	Customization of the cover

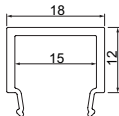
A



A



B



Article no.	Length	Colour
15765070	1,000 mm	opal
15766070	2,000 mm	opal

Article no.	Customization
75765070	Covers 100 mm
75992000	Customization of the cover

Article no.	Length	Colour
15730070	1,000 mm	opal
15731070	2,000 mm	opal

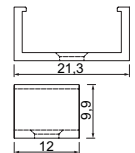
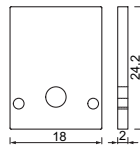
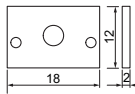
Article no.	Customization
75730070	Covers 100 mm
75992000	Customization of the cover

100 mm segments
See ordering details for customization on pp. 60-61

End pieces to cover A

End pieces to cover B

Mounting clip



Article no.	Colour
15757000	with cable-hole silver
15758000	w/o cable-hole silver

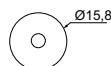
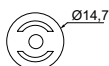
Article no.	Colour
15744000	with cable-hole silver
15745000	w/o cable-hole silver

Article no.	Colour
15771000	silver

Mounting ring

Mounting magnet

Cord suspension

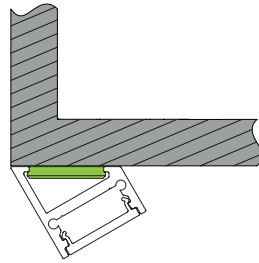


Article no.	Colour
15769000	silver

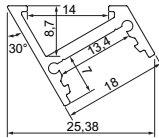
Article no.	Colour
15770000	silver

Article no.	Colour
15772000	stainless steel

15741... / 15742...
Aluminium profile



The compatibility of the profiles and strips see pages 492-493.



Accessories

Finished lengths

Article no.	Length	Colour
15741260	1,000 mm	silver
15742260	2,000 mm	silver

Customization

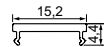
Article no.	Customization
75741260	Aluminium profile 100 mm
75991000	Customization of the aluminium profile

100 mm segments
See ordering details for customization on pp. 60-61

Covers

Finished lengths

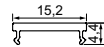
Profile covers: plastic (PMMA), UV stabilized



Article no.	Length	Colour
15734000	1,000 mm	transparent
15735000	2,000 mm	transparent

Customization

Article no.	Customization
75734000	Covers 100 mm
75992000	Customization of the cover

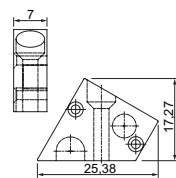


Article no.	Length	Colour
15765070	1,000 mm	opal
15766070	2,000 mm	opal

Article no.	Customization
75765070	Covers 100 mm
75992000	Customization of the cover

100 mm segments
See ordering details for customization on pp. 60-61

End caps



Article no.	Colour
15738000 left	silver
15739000 right	silver

Mounting ring



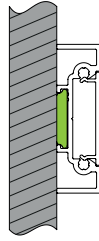
Article no.	Colour
15769000	silver

Mounting magnet

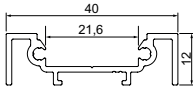


Article no.	Colour
15770000	silver

15791... / 15792...
Aluminium profile



The compatibility of the profiles and strips see pages 492-493.



Accessories

Finished lengths

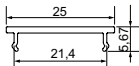
Article no.	Length	Colour
15791260	1,000 mm	silver
15792260	2,000 mm	silver

Customization

Article no.	Customization
75791260	Aluminium profile 100 mm
75991000	Customization of the aluminium profile

100 mm segments
See ordering details for customization on pp. 60-61

Covers



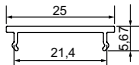
Finished lengths

Profile covers / plastic cover, PC, UV stabilized

Article no.	Length	Colour
15741000	1,000 mm	transparent
15742000	2,000 mm	transparent

Customization

Article no.	Customization
75741000	Covers 100 mm
75992000	Customization of the cover

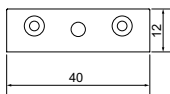


Article no.	Length	Colour
15714070	1,000 mm	opal
15715070	2,000 mm	opal

Article no.	Customization
75714070	Covers 100 mm
75992000	Customization of the cover

100 mm segments
See ordering details for customization on pp. 60-61

End caps



Article no.	Colour
15736000 with cable-hole	silver
15737000 w/o cable-hole	silver

Mounting ring



Article no.	Colour
15769000	silver

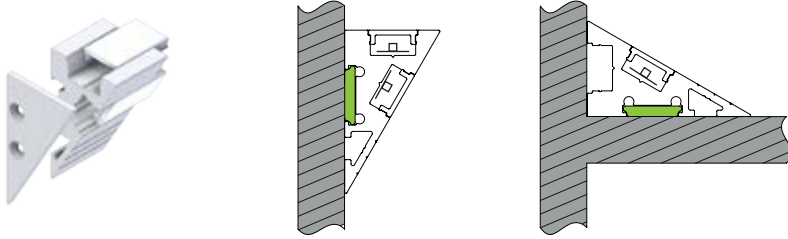
Mounting magnet



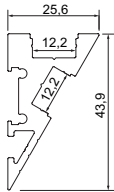
Article no.	Colour
15770000	silver

15841... / 15842...

Aluminium profile for up to 2 LED flexible strips



Compatibility of the profiles and strips see pages 492-493.



Finished lengths

Article no.	Length	Colour
15841260	1,000 mm	silver
15842260	2,000 mm	silver

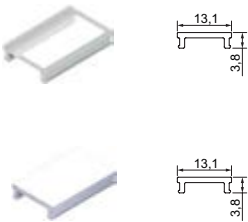
Customization

Article no.	Customization
75841260	Aluminium profile 100 mm
75991000	Customization of the aluminium profile

100 mm segments
See ordering details for customization on pp. 520-521

Accessories

Covers



Finished lengths

Profile covers: Plastic (PMMA), UV stabilized

Article no.	Length	Colour
15807000	1,000 mm	transparent
15808000	2,000 mm	transparent

Customization

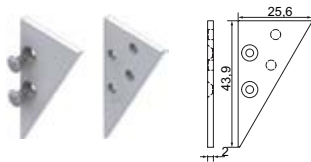
Article no.	Customization
75807000	Covers 100 mm
75992000	Customization of the cover

Article no.	Length	Colour
15809070	1,000 mm	opal
15810070	2,000 mm	opal

Article no.	Customization
75809070	Covers 100 mm
75992000	Customization of the cover

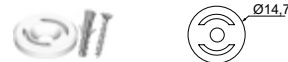
100 mm segments
See ordering details for customization on pp. 520-521

End caps



Article no.	Colour
15867000 left	silver
15868000 right	silver

Mounting ring



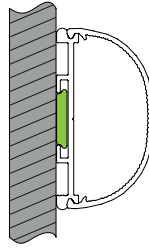
Article no.	Colour
15769000	silver

Mounting magnet

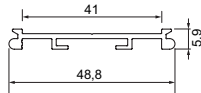


Article no.	Colour
15770000	silver

15871... / 15872...
Aluminium profile



Compatibility of the profiles and strips
see pages 492-493.



accessories

Finished lengths

Article no.	Length	Colour
15871260	1,000 mm	silver
15872260	2,000 mm	silver

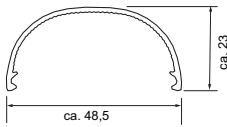
Customization

Article no.	Customization
75871260	Aluminium profile 100 mm
75991000	Customization of the aluminium profile

100 mm segments

See ordering details for customization on pp. 520-521

Covers

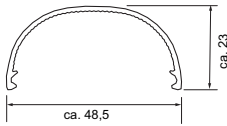


Profile covers: Plastic (PC), UV stabilized

Article no.	Length	Colour
15822000	1,000 mm	transparent
15823000	2,000 mm	transparent

Customization

Article no.	Customization
75822000	Covers 100 mm
75992000	Customization of the cover



Article no.	Length	Colour
15824070	1,000 mm	opal
15825070	2,000 mm	opal

Article no.	Customization
75824070	Covers 100 mm
75992000	Customization of the cover

100 mm segments

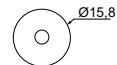
See ordering details for customization on pp. 520-521

Mounting ring



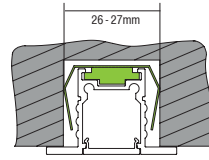
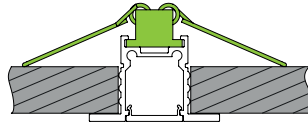
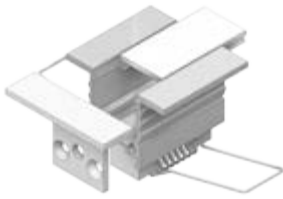
Article no.	Colour
15769000	silver

Mounting magnet



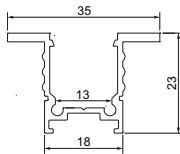
Article no.	Colour
15770000	silver

15781... / 15782
Aluminium profile



The compatibility of the profiles and strips see pages 492-493.

Accessories



Finished lengths

Article no.	Length	Colour
15781260	1,000 mm	silver
15782260	2,000 mm	silver

Customization

Article no.	Customization
75781260	Aluminium profile 100 mm
75991000	Customization of the aluminium profile

100 mm segments
See ordering details for customization on pp. 520-521

Covers



Finished lengths

Profile covers / Plastic (PMMA), UV stabilized

Article no.	Length	Colour
15734000	1,000 mm	transparent
15735000	2,000 mm	transparent

Customization

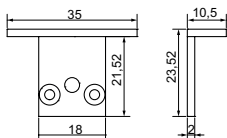
Article no.	Customization
75734000	Covers 100 mm
75992000	Customization of the cover

100 mm segments
See ordering details for customization on pp. 520-521

End caps



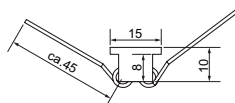
Article no.	Colour
15786260 with cable-hole	silver
15787260 w/o cable-hole	silver



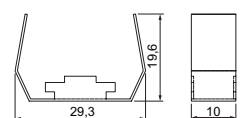
Profile spring clip



Article no.	Material
15789000	aluminium/ spring steel

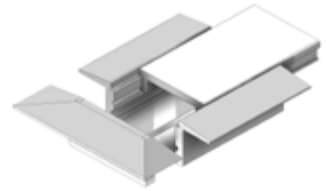
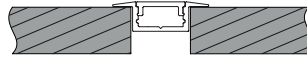


Fixation clamp

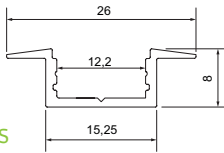


Article no.	Colour
15788000	spring steel

15881... / 15882...
Aluminium profile



The compatibility of the profiles and strips see pages 492-493.



Accessories

Finished lengths

Article no.	Length	Colour
15881260	1,000 mm	silver
15882260	2,000 mm	silver

Customization

Article no.	Customization
75881260	Aluminium profile 100 mm
75991000	Customization of the aluminium profile

100 mm segments
See ordering details for customization on pp. 520-521

Covers

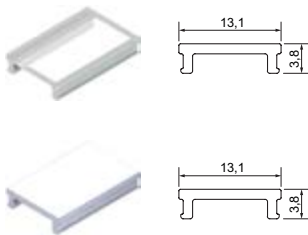
Finished lengths

Profile covers: plastic (PMMA), UV stabilized

Article no.	Length	Colour
15807000	1,000 mm	transparent
15808000	2,000 mm	transparent

Customization

Article no.	Customization
75807000	Covers 100 mm
75992000	Customization of the cover



Article no.	Length	Colour
15809070	1,000 mm	opal
15810070	2,000 mm	opal

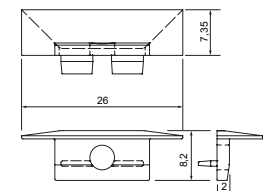
Article no.	Customization
75809070	Covers 100 mm
75992000	Customization of the cover

100 mm segments
See ordering details for customization on pp. 520-521

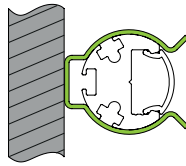
End cap



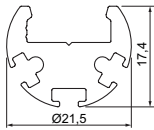
Article no.	Colour
15816000 with cable-hole	silver
15817000 w/o cable-hole	silver



15701... / 15702...
Aluminium profile



Compatibility of the profiles and strips
see pages 492-493.



Accessories

Finished lengths

Article no.	Length	Colour
15701260	1,000 mm	silver
15702260	2,000 mm	silver

Customization

Article no.	Customization
75701260	Aluminium profile 100 mm
75991000	Customization of the aluminium profile

100 mm segments
See ordering details for customization on pp. 520-521

Covers

Finished lengths

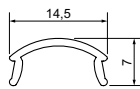
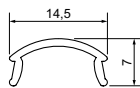
Profile covers: Plastic (PC), UV stabilized

Article no.	Length	Colour
15704000	1,000 mm	transparent
15705000	2,000 mm	transparent

Customization

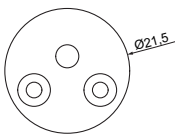
Article no.	Customization
75704000	Covers 100 mm
75992000	Customization of the cover

100 mm segments
See ordering details for customization on pp. 520-521

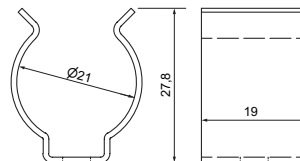


End caps

Mounting ring



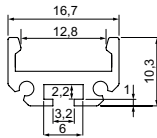
Article no.	Colour
15707260 with cable-hole	silver
15708260 w/o cable-hole	silver



Article no.	Material
15709260	spring steel

15911... / 15912...
Aluminium profile

Compatibility of the profiles and strips
see pages 492-493.



Accessories

Finished lengths

Article no.	Length	Colour
15911260	1,000 mm	transparent
15912260	2,000 mm	transparent

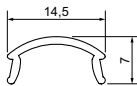
Customization

Article no.	Customization
75911260	Aluminium profile 100 mm
75991000	Customization of the aluminium profile

100 mm segments

See ordering details for customization on pp. 520-521

Covers



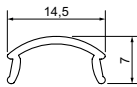
Finished lengths

Profile covers: Plastic (PC), UV stabilized

Article no.	Length	Colour
15704000	1,000 mm	transparent
15705000	2,000 mm	transparent

Customization

Article no.	Customization
75704000	Covers 100 mm
75992000	Customization of the cover



Article no.	Length	Colour
15704070	1,000 mm	opal
15705070	2,000 mm	opal

Article no.	Customization
75704070	Covers 100 mm
75992000	Customization of the cover

100 mm segments

See ordering details for customization on pp. 520-521

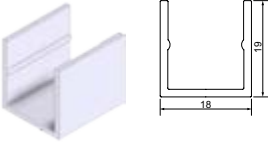
Evangelical free church in Lackhausen, Wesel (Germany)



15851... / 15852...
Aluminium profile



Compatibility of the profiles and strips see pages 492-493.



Finished lengths

Article no.	Length	Colour
15851260	1,000 mm	silver
15852260	2,000 mm	silver

Customization

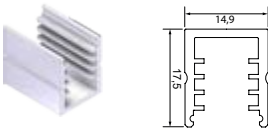
Article no.	Customization
75851260	Aluminium profile 100 mm
75991000	Customization of the aluminium profile

100 mm segments

See ordering details for customization on pp. 520-521

Accessories

Covers



Finished lengths

Profile covers: Plastic (PC), UV stabilized

Article no.	Length	Colour
15880070	1,000 mm	opal
15881070	2,000 mm	opal

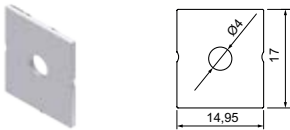
Customization

Article no.	Customization
75880070	Aluminium profile 100 mm
75992000	Customization of the aluminium profile

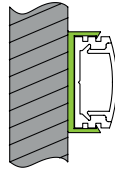
100 mm segments

See ordering details for customization on pp. 520-521

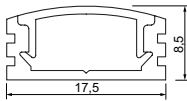
End caps (aluminium)



Article no.	Colour
15895260 with cable-hole	silver
15896260 w/o cable-hole	silver

15861... / 15862...
Aluminium profile

Aluminium profile incl. opal cover (UV stabilized), end pieces and mounting clips. The compatibility of the profiles and strips see pages 492-493.



Finished lengths

Article no.	Length	Colour
15861260	1,000 mm	silver
15862260	2,000 mm	silver

Customization

Article no.	Customization
75861260	Aluminium profile 100 mm
75991000	Customization of the aluminium profile

100 mm segments

See ordering details for customization on pp. 520-521

Accessories

Accessory kit

consists of:
 4 x screws
 4 x mounting clip
 1 x end caps with cable-hole
 1 x end caps without cable-hole

Article no.

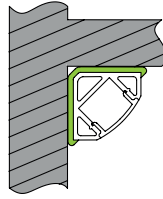
15401000



Private home, Bottrop (Germany)

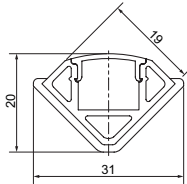


15541... / 15542...
Aluminium profile



Specification

Aluminium profile incl. opal cover (UV stabilized), end pieces and mounting clips. The compatibility of the profiles and strips see pages 492-493.



Accessories

Finished lengths

Article no.	Length	Colour
15541260	1,000 mm	silver
15542260	2,000 mm	silver

Customization

Article no.	Customization
75541260	Aluminium profile 100 mm
75991000	Customization of the aluminium profile

Accessory kit

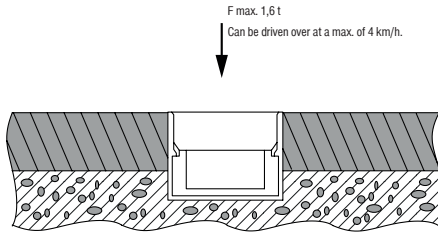
- consists of:
- 8 x screws
- 4 x mounting clip
- 1 x end caps with cable-hole
- 1 x end caps without cable-hole

Article no.
15545000



Private home, Going (Austria)



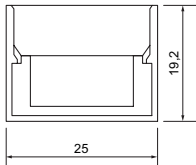
15031... / 15032...
Aluminium profile

IP65



Specification

Aluminium profile incl. opal cover (UV stabilized) and end pieces. The compatibility of the profiles and strips see pages 492-493.



Accessories

Finished lengths

Article no.	Length	Colour
15031260	1,000 mm	silver
15032260	2,000 mm	silver

Strip installation by 'slide':

the cover and profile are firmly connected and cannot be opened. Installation of the LED flex strip must be made on the aluminium profiles 1572160 or 1572260 (p. 48), which is slid into the base profile laterally. When using the LED flex strip 15272... (P. 10) you will receive a homogeneous illumination of the upper side of the profile.

Customization

Article no.	Customization
75031260	Aluminium profile 100 mm
75991000	Customization of the aluminium profile

100 mm segments

See ordering details for customization on pp. 520-521

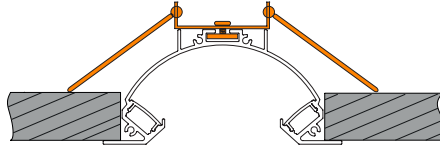
Accessory kit

consists of:
1 x end caps with cable-hole
1 x end caps without cable-hole

Article no.
15331000



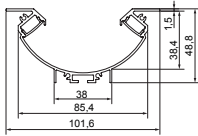
15405...
Aluminium profile Deckeneinbau



Ceiling installation profile for mounting 2 LED circuit boards. Includes two polycarbonate profile covers (UV stabilised), transparent.

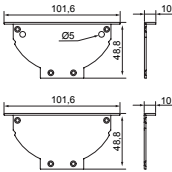
Finished lengths

Article no.	Länge	Farbe
15405260	3.000 mm	silber
15405070	3.000 mm	weiß



Accessories

End caps

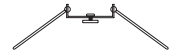


Article no.	
15450260	silver with cable-hole
15450070	white with cable-hole

Article no.	
15460260	silver w/o cable-hole
15460070	white w/o cable-hole

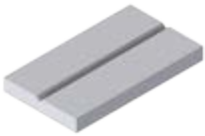
Fixation clamp

Material: spring steel



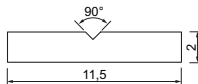
Article no.	Material
15406000	steel

1571... / 1572... / 1573...
Aluminium profile



Specification

Aluminium profile for LED conductor strips up to a width of 10 mm.



Finished lengths

Article no.	Length	Colour
15711260	1,000 mm	silber
15712260	2,000 mm	silber

Aluminium profile, reverse side with double-sided adhesive strip

Article no.	Length	Colour
15721260	1,000 mm	silber
15722260	2,000 mm	silber

Aluminium profile, reverse side with double-sided magnet strip

Article no.	Length	Colour
15731260	1,000 mm	silber
15732260	2,000 mm	silber

Customization

Article no.	Customization
75711260	Aluminium profile 100 mm
75991000	Customization of the aluminium profile

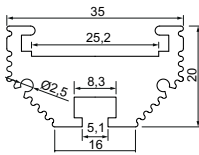
Article no.	Customization
75721260	Aluminium profile 100 mm
75991000	Customization of the aluminium profile

Article no.	Customization
75731260	Aluminium profile 100 mm
75991000	Customization of the aluminium profile

15971... / 15972...
Aluminium profile



Compatibility of the profiles and strips
see pages 492-493.



Accessories

Finished lengths

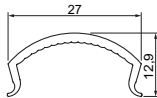
Article no.	Length	Colour
15971260	1,000 mm	silver
15972260	2,000 mm	silver

Customization

Article no.	Customization
75971260	Aluminium profile 100 mm
75991000	Customization of the aluminium profile

100 mm segments
See ordering details for customization on pp. 520-521

Covers



Finished lengths

Profile covers: Material: plastic (PC, UV stabilized)

Article no.	Length	Colour
15974000	1,000 mm	transparent
15975000	2,000 mm	transparent

Article no.	Length	Colour
15974070	1,000 mm	opal
15975070	2,000 mm	opal

Customization

Article no.	Customization
75974000	Covers 100 mm
75992000	Customization of the cover

Article no.	Customization
75974070	Covers 100 mm
75992000	Customization of the cover

100 mm segments
See ordering details for customization on pp. 520-521

Fixation clamp



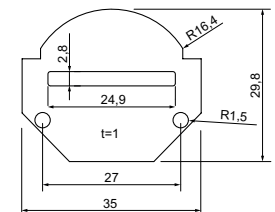
Material: spring steel

Article no.
15978000

End caps



Article no.	Colour
15998260 with cable-hole	silver
15999260 w/o cable-hole	silver

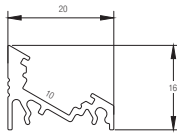


15941... / 15942...
Aluminium profile



Delivery without flexible strip

Compatibility of the profiles and strips
see pages 492-493.



Accessories

Finished lengths

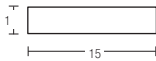
Article no.	Length	Colour
15941260	1,000 mm	silver
15942260	2,000 mm	silver

Customization

Article no.	Customization
75941260	Aluminium profile 100 mm
75991000	Customization of the aluminium profile

100 mm segments
See ordering details for customization on pp. 60-61

Covers



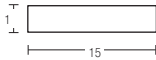
Finished lengths

Profile covers: plastic (PMMA), UV stabilized, cover installation by 'slide'

Article no.	Length	Colour
15934070	1,000 mm	opal
15935070	2,000 mm	opal

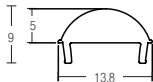
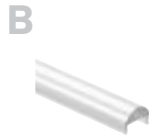
Customization

Article no.	Customization
75934070	Covers 100 mm
75992000	Customization of the cover



Article no.	Length	Colour
15934000	1,000 mm	satined
15935000	2,000 mm	satined

Article no.	Customization
75934000	Covers 100 mm
75992000	Customization of the cover



Article no.	Length	Colour
15934990	1,000 mm	transparent
15935990	2,000 mm	transparent

Beam angle 60°

Article no.	Customization
75934990	Covers 100 mm
75992000	Customization of the cover

100 mm segments
See ordering details for customization on pp. 60-61

Two-fold mounting kit



Material: aluminium

Article no.	Colour
15938000	aluminium

2 end caps (left + right)



Material: plastic

Article no.	Colour
15947000	silver

Connecting piece



Aluminium element (length 50 mm) for connecting two aluminium profiles (Ø 4.5 mm)

Article no.	Colour
15948000	aluminium

L connecting piece



Aluminium element for corner connection of two aluminium profiles, incl. 2 connecting pieces

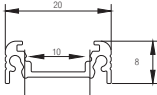
Article no.	Colour
15949000	silver

15951... / 15952...
Aluminium profile



Delivery without flexible strip

Compatibility of the profiles and strips
see pages 492-493.



Accessories

Finished lengths

Article no.	Length	Colour
15951260	1,000 mm	silver
15952260	2,000 mm	silver

Customization

Article no.	Customization
75951260	Aluminium profile 100 mm
75991000	Customization of the aluminium profile

100 mm segments

See ordering details for customization on pp. 520-521

Covers

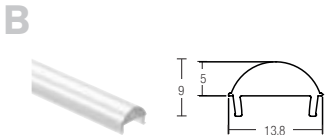
Finished lengths

Profile covers: Plastic (PMMA), UV stabilized, cover installation by 'slide'

Article no.	Length	Colour
15934070	1,000 mm	opal
15935070	2,000 mm	opal

Customization

Article no.	Customization
75934070	Covers 100 mm
75992000	Customization of the cover



Article no.	Length	Colour
15934000	1,000 mm	satined
15935000	2,000 mm	satined

Article no.	Customization
75934000	Covers 100 mm
75992000	Customization of the cover

Article no.	Length	Colour
15934990	1,000 mm	transparent
15935990	2,000 mm	transparent

Beam angle 60°

Article no.	Customization
75934990	Covers 100 mm
75992000	Customization of the cover

100 mm segments

See ordering details for customization on pp. 520-521

Connecting piece

2 end caps

Two-fold mounting kit



Aluminium element (length 50 mm) for connecting
two aluminium profiles (Ø 4,5 mm)

Article no.	Colour
15948000	aluminium



Material: plastic

Article no.	Colour
15957000	silver



Material: aluminium

Article no.	Colour
15938000	aluminium

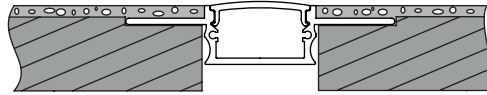
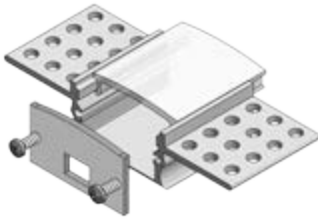
L connecting piece



Aluminium element for corner connection of two
aluminium profiles, incl. 2 connecting pieces

Article no.	Colour
15933000	silver

15071260 / 15072260
Aluminium profile



Specification

LED flush profile incl. opal cover (UV stabilized) for an elegant and seamless integration into walls, ceilings or coves. Incl. two fitting aluminium pieces with mounting screws.
The compatibility of the profiles and strips see pages 492-493.

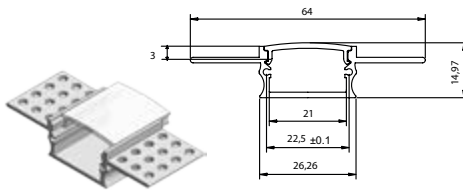
Finished lengths

Article no.	Length	Colour
15071260	1,000 mm	alu matt / opal
15072260	2,000 mm	alu matt / opal

Customization

Article no.	Customization
75071260	Aluminium profile 100 mm
75991000	Customization of the aluminium profile

100 mm segments
See ordering details for customization on pp. 60-61

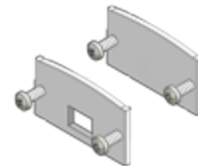


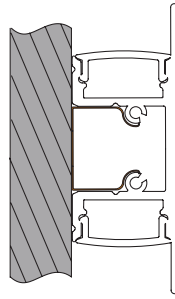
Accessories

Accessory kit

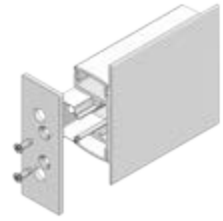
consists of:
2 x end cap

Article no.
15733000





15408... Aluminium profile

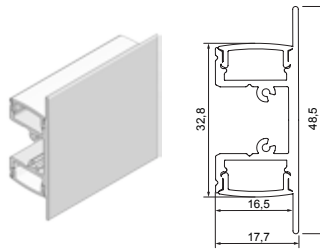


Specification

Wall installation profile for mounting 2 LED circuit boards. Includes two polycarbonate profile covers (UV stabilised) in opal. The compatibility of the profiles and strips see pages 492-493.

Finished lengths

Article no.	Länge	Farbe
15408260	3,000 mm	silver
15408070	3,000 mm	white



Accessories

Profile end piece

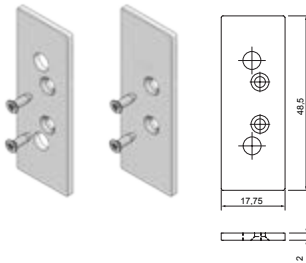
Aluminium Profilstück inkl. Montagezubehör

Article no.	
15409260	silver with cable-hole
15409070	white with cable-hole

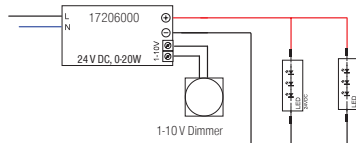
Article no.	
15410260	silver w/o cable-hole
15410070	white w/o cable-hole

Profile fastening spring

Article no.
15411000



17206000 LED driver



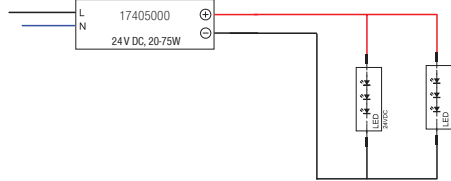
Specification

Primary voltage: 100-120 V AC/DC/ 220-240 V AC, frequency: 50-60 Hz, ambient temperature (T_a): -25°C to +50°C, measuring point (T_c): max. 80°C, dimensions [L x W x H]: 145 x 55 x 19 mm, material: plastic

with strain relief
1-10 V dimmable (analogue)
Dimming range 1-100%

Article no.	Secondary voltage	Output
17206000	24V DC	1-20 W

17405000 LED driver



Specification

Primary voltage: 200 - 240V AC, frequency: 50-60 Hz, ambient temperature (T_a): -20°C to +45°C, measuring point (T_c): max. 80°C, dimensions [L x W x H] 200 x 63 x 30 mm, material: plastic

with strain relief
not dimmable

Article no.	Secondary voltage	Output
17405000	24 V DC	20-75 W



17208000 / 17209000 / 17210000
LED driver

Specification

Primary voltage: 90 - 305 V AC / 47-63 Hz // 127 - 431 V DC,
secondary voltage: 24 V, electrical feeding (in / out): 300/300 mm
ambient temperature (T_a): -40° C to +50° C, measuring point (T_c): max 95° C,
material: aluminium

not dimmable

Article no.	Output	Dimensions [LxWxH]
17208000	50-100 W	220 x 68 x 39 mm
17209000	75-150 W	228 x 68 x 39 mm
17210000	120-240 W	244 x 68 x 39 mm

17220000
REG LED driver

Specification

Primary voltage: 85 - 264 V AC / 47 - 63 Hz // 120 - 370 V DC
ambient temperature (T_a): -10° C - +40° C,
dimensions [LxWxH]: 125.5 x 125.2 x 100 mm (7 division units),
material: aluminium

not dimmable

Article no.	Secondary voltage	Output
17220000	24 V DC	120 - 240 W

17221000
REG LED driver

Specification

Primary voltage: 180 - 264 V AC / 47 - 63 Hz // 250 - 270 V DC
ambient temperature (T_a): -20° C - +50° C,
dimensions [LxWxH]: 227 x 125.2 x 100 mm (13 division units),
material: aluminium

not dimmable

Article no.	Secondary voltage	Output
17221000	24 V DC	240 - 480 W

18151000 / 18152000 / 18153000 / 18154000

4 channel LED dimmer



Specification

LED dimmer series for constant voltage operation over 4 channels (single- or multi-coloured). Wiring takes place without screws via plug-in terminals.

It requires an external power supply to operate, material: plastic, cable cross-section: 0.5 - 2.5 mm², output signal (dimming): Pulse width modulation, ambient temperature (T_a): 0° C - +50° C, casing temperature (T_c): 75° C, reverse polarity protection: yes, heat protection: yes

Article no.	Control signal	Number of channels	Max. output current	Voltage range	Max. output rating	Dimensions [LxWxH]
18151000	"KNX" system requirement: min. ETS 3.0F or higher. Software download at www.brumberg.com	1 - 4	4 x 5 A	12 - 24 V DC	4x 60 W (12 V DC) 4x 120 W (24 V DC)	170 x 54 x 30 mm
18152000	Dali	1 - 4	4 x 5 A	12 - 36 V DC	4x 60 W (12 V DC) 4x 120 W (24 V DC)	170 x 54 x 30 mm
18153000	DMX	1 - 4	4 x 5 A	12 - 36 V DC	4x 60 W (12 V DC) 4x 120 W (24 V DC)	170 x 54 x 30 mm
18154000	1-10V	1 - 4	4 x 5 A	12 - 36 V DC	4x 60 W (12 V DC) 4x 120 W (24 V DC)	170 x 54 x 30 mm

18161000 / 18162000 / 18163000 / 18164000

4 channel REG LED dimmer



Specification

The REG LED dimmer series for constant voltage operation of 4 channels (single- or multi-coloured) is suitable for installing on hat rails in the control and distributor cabinet. Wiring takes place without screws via plug-in terminals (Dali, DMX, 1-10 V) or with a KNX device via screw terminals.

To operate this device an external power source is required. Material: plastic, cable cross-section: 0.5 - 2.5 mm², output signal (dimming): Pulse width modulation, ambient temperature (T_a): 0° C - +50° C, ambient temperature (T_c): 75° C, reverse polarity protection: yes, heat protection: yes

Article no.	Control signal	Number of channels	Max. output current	Voltage range	Max. output rating	Dimensions [LxWxH]
18161000	"KNX" system requirement: min. ETS 3.0F or higher. Software download at www.brumberg.com	1 - 4	4 x 5 A	12 - 24 V DC	4x60W (12V DC) 4x120W (24V DC)	72 x 90 x 70mm 4 TE
18162000	Dali	1 - 4	4 x 5 A	12 - 36 V DC	4x60W (12V DC) 4x120W (24V DC)	54 x 110 x 66mm 3 TE
18163000	DMX	1 - 4	4 x 5 A	12 - 36 V DC	4x60W (12V DC) 4x120W (24V DC)	54 x 110 x 66mm 3 TE
18164000	1-10V	1 - 4	4 x 5 A	12 - 36 V DC	4x60W (12V DC) 4x120W (24V DC)	54 x 110 x 66mm 3 TE

18187000 / 17505000 / 17508000
Controller incl. remote control**Note:**

May be controlled with a remote control up to 4 switching groups (1 controller per switching group).

**Specification RGB**

Voltage: 12-24 V DC, current: max. 6 A per channel, power: max. 216 W / 432 W (12 V DC / 24 V DC), energisation: negative (shared anode), 4-core wire, radio frequency: 2.4 GHz, range: ~30 m, adjustable dimming range: 5-100 %, controller connection through screw terminals, controller dimensions (L x W x H): 85 x 45 x 23 mm, radio remote control dimensions (L x W x H): 120 x 52 x 20 mm, radio remote control battery: 3 V DC / 2x AAA (not included in delivery)

This purely RGB radio control creates 3 PWM control signals for controlling the colour of RGB LED modules.

The following functions can be accessed via the touch remote control:

- Intuitive colour adjustment via the colour selection wheel.
- Selection of 9 colour changing programmes.
- Brightness adjustment of static colours through the touch field.
- Speed adjustment of colour change in the running programme.
- Up to 4 switch groups via remote control (multi-room operation).
- Separate on and off switch of all 4-switch groups of the lighting unit.
- Synchronisation of all 4-switch groups via a long push of the button.

Article no.	Specification
18187000	RGB Set (RGB controller incl. remote control)
18188000	RGB controller (individual components)
18189000	RGB radio remote control (individual components)

Specification TunableWhite

Voltage: 12-24 V DC, current: max. 6 A per channel, power: max. 144 W / 288 W (12 V DC / 24 V DC), energisation: negative (shared anode), 3-core wire, radio frequency: 2.4 GHz, range: ~30 m, adjustable dimming range: 5-100 %, controller connection through screw terminals, controller dimensions (L x W x H): 85 x 45 x 23 mm, radio remote control dimensions (L x W x H): 110 x 52 x 20 mm, battery for radio remote control: 3 V DC / 2x AAA (not included in delivery)

This purely white light radio control produces 2 PWM control signals for controlling bi-colour LED modules in the white light range.

The following functions are possible via remote operation:

- Variable adjustment of the colour temperature through +/- buttons.
- Brightness adjustment through +/- buttons.
- Up to 4 switch groups via remote control (multi-room operation).
- Separate on and off switch of all 4-switch groups of the lighting unit.

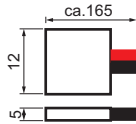
Article no.	Specification
17505000	TunableWhite set (2 channel controller incl. remote control)
17506000	TunableWhite controller (individual components)
17507000	White light radio remote control (individual components)

Specification, 1 channel

Voltage: 12-24 V DC, current: max. 2x6 A, output: max. 144 W / 288 W (12 V DC / 24 V DC), radio frequency 2.4 GHz, range: up to 30 m, controller connection through screw terminals, controller dimensions (L x W x H): 85 x 45 x 23 mm, Radio remote control dimensions (L x W x H): 110 x 52 x 20 mm, battery for radio remote control: 3 V DC / 2x AAA (not included in delivery)

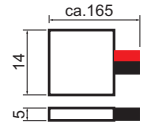
This 1 channel radio control produces 1 PWM control signal for controlling a single-colour LED module in the white light range.

Article no.	Specification
17508000	White light set (1 channel controller incl. remote control)
17509000	1 channel controller (individual components)
17507000	White light radio remote control (individual components)

15724000**Feed-in for 15201...****Specification**

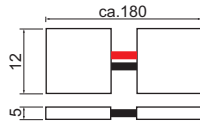
Feed-in only to be used for 15201..., max. 3A,
incl. connector cable approx. 150 mm.

Article no.	Number of poles
15724000	2

15725000**Feed-in for 15203...****Specification**

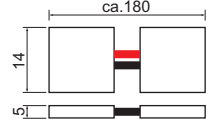
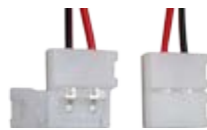
Feed-in only to be used for 15203..., max. 3A,
incl. connector cable approx. 150 mm.

Article no.	Number of poles
15725000	2

15727000**Connector****Specification**

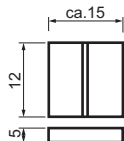
Connecting element only to be used for 15201..., max. 3 A,
incl. connection cable approx. 150 mm.

Article no.	Number of poles
15727000	2

15728000**Connector****Specification**

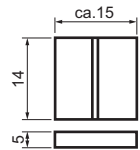
Connecting element only to be used for 15203..., max. 3 A,
incl. connector cable approx. 150 mm.

Article no.	Number of poles
15728000	2

15730000**Direct connector****Specification**

Direct connector only to be used for 15201..., max. 3 A.

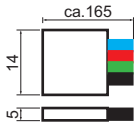
Article no.	Number of poles
15730000	2

15731000**Direct connector****Specification**

Direct connector only to be used for 15203..., max. 3 A.

Article no.	Number of poles
15731000	2

15726000 Feed-in for 15203001

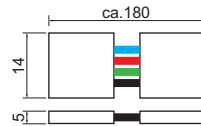


Specification

Feed-in only to be used for 15203001, max. 3 A, incl. connector cable approx. 150 mm.

Article no.	Number of poles
15726000	4 (RGB)

15729000 Connector for 15203001



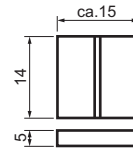
Specification

Connecting element only to be used for 15203001, max. 3 A, incl. connector cable approx. 150 mm.

Article no.	Number of poles
15729000	4 (RGB)



15732000 Direct connector for RGB conductor strips



Specification

Direct connector to be used for flexible LED RGB conductor strip 15203001, max. 3 A.

Article no.	Number of poles
15732000	4 (RGB)

15720000 Silicon end cap set, 12 mm



Specification

Silicon end caps for flexible conductor strips IP67, incl. a tube of silicon for sealing. Compatible with conductor strip 15271... and 15272... Width 12 mm.

Article no.
15720000

15721000 Silicon end cap set, 14 mm



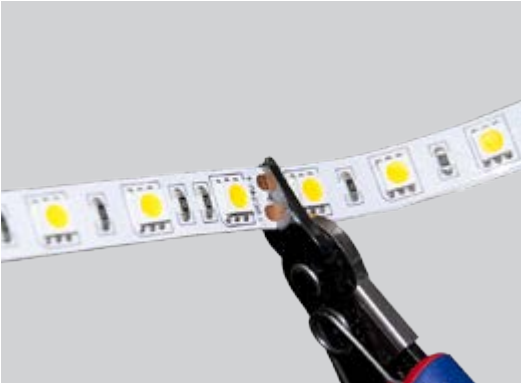
Specification

Silicon end caps for flexible conductor strips IP67, incl. a tube of silicon for sealing. Compatible with conductor strip 15273... (not suitable for RGB). Width: 14 mm

Article no.
15721000

CUSTOMIZATION SERVICE

Customization of LED flex strips and aluminium and plastic profiles



Customization of LED flexible strips

We divided the full length of our QualityFlex® strips into the smallest divisible unit. According to the length you need, you have to order a multiple of this minimum unit.

ATTENTION:

Every customized length must be ordered as an individual item. The maximum allowable special length (art.-no.: 75...) = total length of the appropriate roll product (art.-no.: 15...).

SAMPLE ORDER FOR QUALITYFLEX® STRIP WITH IP00:

Roll product art.-no. 15201027 (IP00, total length 5000 mm);
minimum unit = 100 mm = art.-no. 75201027

You need a length from this QualityFlex® strip of 3,600 mm.

Your order has to consist of:

36 x art.-no. 75201003 = QualityFlex® strip, length 3,600 mm
1 x art.-no. 75998000 = customization with protection class IP00,
incl. connector cable at one end (soldered, length 300 mm)

SAMPLE ORDER FOR QUALITYFLEX® STRIP WITH IP62 OR IP67:

Roll product art.-no. 15223003 (IP62, total length 5,000 mm);
minimum unit = 100 mm = art.-no. 75223003

You need a length from this QualityFlex® strip of 2,100 mm.

Your order has to consist of:

21 x art.-no. 75223003 = QualityFlex strip 2,100 mm long
1 x art.-no. 75999000 = customization for increased protection
rating, incl. connector cable at one end (soldered, length 300 mm)



Customization of aluminium and plastic profiles

We offer our QualityFlex® aluminium profiles and corresponding plastic cover profiles in standard lengths of 1,000 mm and 2,000 mm. According to the customized length you need, you have to order a multiple of the minimum unit of 100 mm.

ATTENTION:

Every customized profile must be ordered as an individual item. Please inquire about special lengths longer than 2,000 mm.

SAMPLE ORDER FOR QUALITYFLEX® ALUMINIUM PROFILE

You need aluminium profile (art.no. 15951260) and the corresponding plastic profile (art.no. 15934990) customized to 700 mm length. Please order the following:

7 x art.-no. 75951260 = aluminium profile being 700 mm long
1 x art.-no. 75991000 = customization aluminium profiles

7 x art.-no. 75934990 = plastic cover profile, 700 mm long
1 x art.-no. 75992000 = customization plastic cover

Customization versions

75998000 = customization for the connector cable for protection class IP00

75999000 = customization for the connector cable with increased protection rating

75991000 = customization aluminium profiles
75992000 = customization plastic cover

For any questions, please contact our sales team.





shoplight

GIORGIO ARMANI

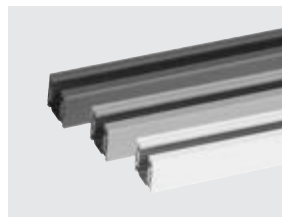
tracklights

526



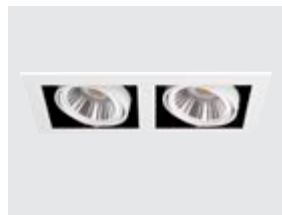
accessories tracklight

534



recessed luminaires

538





88343 bis 88355
ModulMax® LED-Tracklight

27W

System efficiency incl.
converter max. 124lm/w



Specification

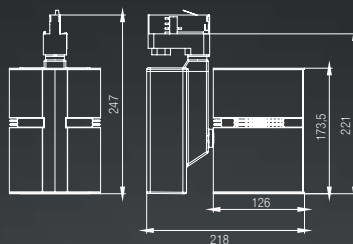
Incl. light source: 1 x LED COB, colour rendering: CRI > 80,
heat dissipation: passive (without fan), power of system: 27 W,
material: aluminium / clear glass / plastic, rotation angle: twistable / swiveling,
dimensions lamp: Ø 126 mm x 173,5 mm, weight ca. 2.800 g

Incl. driver, not dimmable (DALI on request)
Luminaire incl. adapter for standard 3-phase track.

Energieeffizienzklasse: A++ bis A

This luminaire contains incorporated and non-exchangeable LED light sources.

Modular construction



88354... bis 88355...

Power LED: 24.3 W, System power: 27 W

ModulMax® LED-Power-track spotlights 27 W

NEW

Article-No. white	Article-No. black	Article-No. silver	Colour temperature	beam angle	Beam patterns	Flux	System efficiency
88347073	88347083	88347683	2700 K	12°	Spot (SP)	3052 lm	113 lm/W
88348073	88348083	88348683	2700 K	24°	Medium Flood (MF)	3052 lm	113 lm/W
88349073	88349083	88349683	2700 K	36°	Flood (FL)	3052 lm	113 lm/W
88350073	88350083	88350683	2700 K	60°	Wide Flood (WFL)	3052 lm	113 lm/W
88343073	88343083	88343683	3000 K	12°	Spot (SP)	3193 lm	118 lm/W
88344073	88344083	88344683	3000 K	24°	Medium Flood (MF)	3193 lm	118 lm/W
88345073	88345083	88345683	3000 K	36°	Flood (FL)	3193 lm	118 lm/W
88346073	88346083	88346683	3000 K	60°	Wide Flood (WFL)	3193 lm	118 lm/W
88351073	88351083	88351683	3000 K BBL*	12°	Spot (SP)	3125 lm	116 lm/W
88352073	88352083	88352683	3000 K BBL*	24°	Medium Flood (MF)	3125 lm	116 lm/W
88354073	88354083	88354683	3000 K BBL*	36°	Flood (FL)	3125 lm	116 lm/W
88355073	88355083	88355683	3000 K BBL*	60°	Wide Flood (WFL)	3125 lm	116 lm/W
88347074	88347084	88347684	3500 K	12°	Spot (SP)	3286 lm	122 lm/W
88348074	88348084	88348684	3500 K	24°	Medium Flood (MF)	3286 lm	122 lm/W
88349074	88349084	88349684	3500 K	36°	Flood (FL)	3286 lm	122 lm/W
88350074	88350084	88350684	3500 K	60°	Wide Flood (WFL)	3286 lm	122 lm/W
88343074	88343084	88343684	4000 K	12°	Spot (SP)	3347 lm	124 lm/W
88344074	88344084	88344684	4000 K	24°	Medium Flood (MF)	3347 lm	124 lm/W
88345074	88345084	88345684	4000 K	36°	Flood (FL)	3347 lm	124 lm/W
88346074	88346084	88346684	4000 K	60°	Wide Flood (WFL)	3347 lm	124 lm/W

*BBL= Below Black Body Locus

8817... / 8891... / 8894...

ModulMax® LED-Tracklight accessories

NEW

Article-No.	Description	
88170027	Light Engine 2700K	for ModulMax®
88170003	Light Engine 3000 K	for ModulMax®
88170031	Light Engine 3000 K BBL*	for ModulMax®
88170035	Light Engine 3500K	for ModulMax®
88170004	Light Engine 4000 K	for ModulMax®
88171001	Reflector 12°	for ModulMax®
88171002	Reflector 24°	for ModulMax®
88171003	Reflector 36°	for ModulMax®
88171006	Reflector 60°	for ModulMax®
88910006	Glass Food Red ModulMax®	Foodfilter: for bakery products, red fruit and vegetables, mediterranean cheese- and pasta products
88910007	Glass Food Green ModulMax®	Foodfilter: for green fruit and vegetables
88910008	Glass Food Blue ModulMax®	Foodfilter: for fish
88910009	Glass Food Yellow ModulMax®	Foodfilter: for yellow fruit and vegetables
88910002	Glass Food Pink ModulMax®	Foodfilter: for meat, charateric and for red fish (in exceptions)
88947000	Driver 700mA	for ModulMax®
88948000	Driver 1050mA	for ModulMax®

As complementation (glasses) or for modification of ModulMax® track-lights on-site.

88356 bis 88367
ModulMax® LED-Tracklight

40 W

Power of system incl.
converter max. 4594 lm



Specification

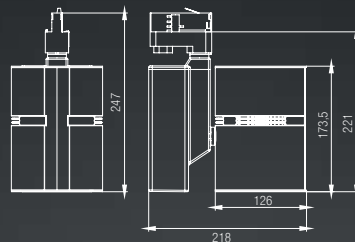
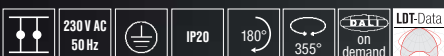
Incl. light source: 1 x LED COB, colour rendering: CRI > 80,
heat dissipation: passive (without fan), power of system: 40 W,
material: aluminium / clear glass / plastic, rotation angle: twistable / swiveling,
dimensions lamp: Ø 126 mm x 173,5 mm, weight ca. 2.800 g

Incl. driver, not dimmable (DALI on request)
Luminaire incl. adapter for standard 3-phase track.

Energieeffizienzklasse: A++ bis A

This luminaire contains incorporated and non-exchangeable LED light sources.

Modular construction



88356... bis 88367...

Power LED: 37.5 W, System power: 40 W

ModulMax® LED-Power-track spotlights 40 W

NEW

Article-No. white	Article-No. black	Article-No. silver	Colour temperature	Beam angle	Beam patterns	Flux	System efficiency
88360073	88360083	88360683	2700 K	● 12°	Spot (SP)	4189 lm	105 lm/W
88361073	88361083	88361683	2700 K	● 24°	Medium Flood (MF)	4189 lm	105 lm/W
88362073	88362083	88362683	2700 K	● 36°	Flood (FL)	4189 lm	105 lm/W
88363073	88363083	88363683	2700 K	● 60°	Wide Flood (WFL)	4189 lm	105 lm/W
88356073	88356083	88356683	3000 K	● 12°	Spot (SP)	4382 lm	110 lm/W
88357073	88357083	88357683	3000 K	● 24°	Medium Flood (MF)	4382 lm	110 lm/W
88358073	88358083	88358683	3000 K	● 36°	Flood (FL)	4382 lm	110 lm/W
88359073	88359083	88359683	3000 K	● 60°	Wide Flood (WFL)	4382 lm	110 lm/W
88364073	88364083	88364683	3000 K BBL*	● 12°	Spot (SP)	4289 lm	107 lm/W
88365073	88365083	88365683	3000 K BBL*	● 24°	Medium Flood (MF)	4289 lm	107 lm/W
88366073	88366083	88366683	3000 K BBL*	● 36°	Flood (FL)	4289 lm	107 lm/W
88367073	88367083	88367683	3000 K BBL*	● 60°	Wide Flood (WFL)	4289 lm	107 lm/W
88360074	88360084	88360684	3500 K	● 12°	Spot (SP)	4510 lm	113 lm/W
88361074	88361084	88361684	3500 K	● 24°	Medium Flood (MF)	4510 lm	113 lm/W
88362074	88362084	88362684	3500 K	● 36°	Flood (FL)	4510 lm	113 lm/W
88363074	88363084	88363684	3500 K	● 60°	Wide Flood (WFL)	4510 lm	113 lm/W
88356074	88356084	88356684	4000 K	● 12°	Spot (SP)	4594 lm	115 lm/W
88357074	88357084	88357684	4000 K	● 24°	Medium Flood (MF)	4594 lm	115 lm/W
88358074	88358084	88358684	4000 K	● 36°	Flood (FL)	4594 lm	115 lm/W
88359074	88359084	88359684	4000 K	● 60°	Wide Flood (WFL)	4594 lm	115 lm/W

*BBL= Below Black Body Locus

8817... / 8891... / 8894...
ModulMax® accessories

NEW

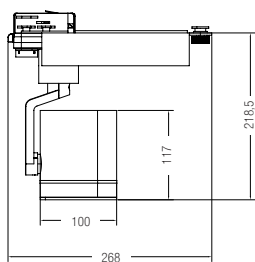
Article-No.	Description
88170027	Light Engine 2700K for ModulMax®
88170003	Light Engine 3000K for ModulMax®
88170031	Light Engine 3000 K BBL* for ModulMax®
88170035	Light Engine 3500K for ModulMax®
88170004	Light Engine 4000 K for ModulMax®
88171001	Reflector 12° for ModulMax®
88171002	Reflector 24° for ModulMax®
88171003	Reflector 36° for ModulMax®
88171006	Reflector 60° for ModulMax®
88910006	Glass Food Red ModulMax® Foodfilter: for bakery products, red fruit and vegetables, mediterranean cheese- and pasta products
88910007	Glass Food Green ModulMax® Foodfilter: for green fruit and vegetables
88910008	Glass Food Blue ModulMax® Foodfilter: for fish
88910009	Glass Food Yellow ModulMax® Foodfilter: for yellow fruit and vegetables
88910002	Glass Food Pink ModulMax® Foodfilter: for meat, charateric and for red fish (in exceptions)
88947000	driver 700mA for ModulMax®
88948000	driver 1050mA for ModulMax®

As complementation (glasses) or for modification of ModulMax® track-lights on-site.

88373...
LED-Power-track spotlights



NEW



Specification

Incl. light source: 1 x LED COB, powerLED: 30, power of system: 35 W, heat dissipation: passive (without fan), material: aluminium / clear glass / plastic, rotation angle: twistable / swiveling, dimensions lamp: Ø 100 mm x 245 mm, flux: 2443 lm, CRI > 80, weight: 1400g.

Luminaire incl. adapter for standard 3-phase track, not dimmable.

Artikel-No.	Colour of cabinet	Colour temperature	Beam angle	Beam patterns
88373173	textured white	3000 K	36°	Flood (FL)
88373183	textured black	3000 K	36°	Flood (FL)
88373683	textured silver	3000 K	36°	Flood (FL)
88373174	textured white	4000 K	36°	Flood (FL)
88373184	textured black	4000 K	36°	Flood (FL)
88373684	textured silver	4000 K	36°	Flood (FL)

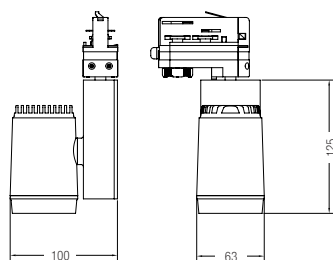
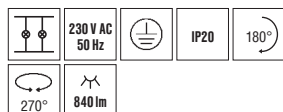
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.



12013...

LED-Power-track spotlights



NEW

Specification

Incl. light source: 1x LED, power: 12 W,
material: aluminium / plastic, colour rendering:
CRI>80
LED-flux: 840 lm, heat conduction: passive
(without fan), weight: 500 g

Luminaire incl. adapter for standard
3-phase track., not dimmable.

Incl. driver

Energy efficiency class: A++ to A

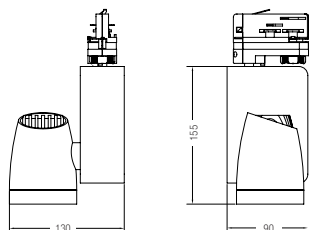
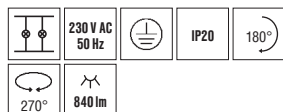
This luminaire contains incorporated and
non-exchangeable LED light sources.

Article-No.	Colour of cabinet	Colour temperature	Beam angle	Beam patterns
12013073	white	3000 K	38°	Flood (FL)
12013083	black	3000 K	38°	Flood (FL)



12019...

LED-Power-track spotlights



NEW

Specification

Incl. light source: 1x LED, power: 12 W,
material: aluminium / plastic, colour rendering:
CRI>80
LED-flux: 840 lm, heat conduction: passive
(without fan), weight: 650 g

Luminaire incl. adapter for standard
3-phase track., not dimmable.

Incl. driver

Energy efficiency class: A++ to A

This luminaire contains incorporated and
non-exchangeable LED light sources.

Article-No.	Colour of cabinet	Colour temperature	Beam angle	Beam patterns
12019073	white	3000 K	38°	Flood (FL)
12019083	black	3000 K	38°	Flood (FL)



88311... LED-Power-track spotlights



Specification

Incl. light source: LED, material: aluminium, power LED: 26 W, power of sytem: 29 W, LED-flux: 3300 lm (4000 K), flux: 2901 lm (3000 K), 2937 lm (4000 K), heat conduction: passive (without fan).

Luminaire incl. adapter for standard 3-phase track.

Incl. operating device, not dimmable.

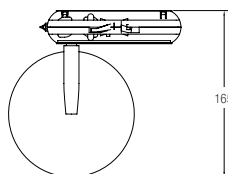
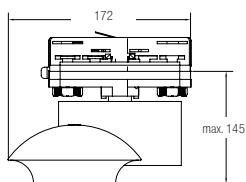
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature	Colour rendering	Beam patterns
88311073	white	3000 K	● CRI>80	28° (MF)
88311083	black	3000 K	● CRI>80	28° (MF)
88311683	silver	3000 K	● CRI>80	28° (MF)
88311074	white	4000 K	● CRI>80	28° (MF)
88311084	black	4000 K	● CRI>80	28° (MF)
88311684	silver	4000 K	● CRI>80	28° (MF)



advice: silver version always with black shade.





Specification

Incl. light source: LED, material: aluminium, power LED: 12 W, power of system: 15 W, LED-flux: 1700 lm (3000 K), flux: 1403 lm (3000 K), 1444 lm (4000 K), heat conduction: passive (without fan).

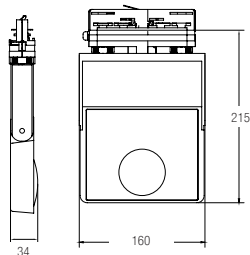
Luminaire incl. adapter for standard 3-phase track.

Incl. operating device, not dimmable.

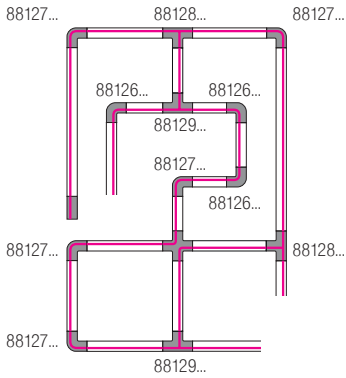
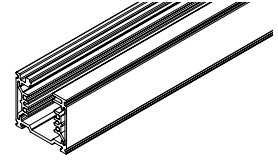
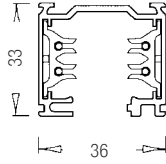
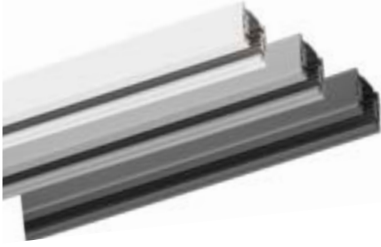
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature	Colour rendering	Beam patterns
88331073	white	3000 K	● CRI>80	32° (FL)
88331083	black	3000 K	● CRI>80	32° (FL)
88331683	silver	3000 K	● CRI>80	32° (FL)
88331074	white	4000 K	● CRI>80	32° (FL)
88331084	black	4000 K	● CRI>80	32° (FL)
88331684	silver	4000 K	● CRI>80	32° (FL)

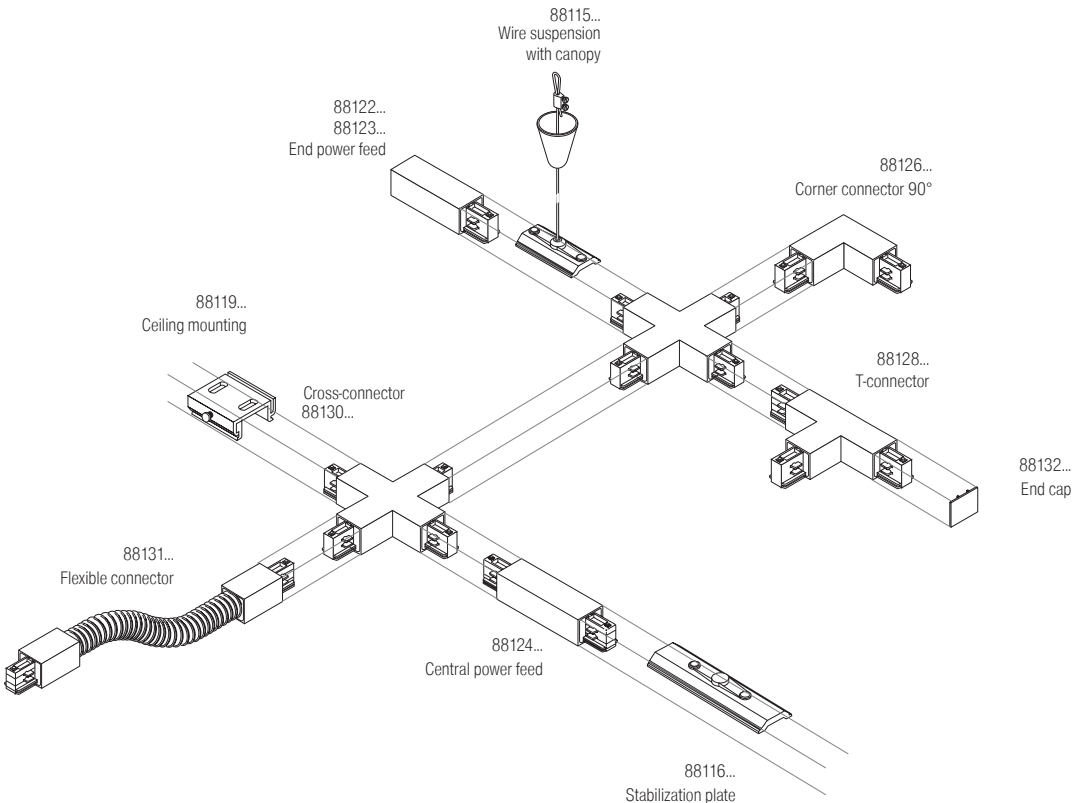


88101.../ 88102.../ 88103.../ 88104...
3-phase track



Article-no.	Length	Colour
88101070	1000 mm	white
88101080	1000 mm	black
88101250	1000 mm	alu anodized
88102070	2000 mm	white
88102080	2000 mm	black
88102250	2000 mm	alu anodized
88103070	3000 mm	white
88103080	3000 mm	black
88103250	3000 mm	alu anodized
88104070	4000 mm	white
88104080	4000 mm	black
88104250	4000 mm	alu anodized

1-phase DALI track on page



88114... Electrical connector



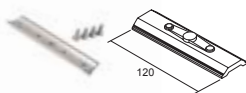
Article-no.	Colour
88114070	white
88114080	black
88114680	silver

88115... Wire suspension with canopy



Article-no.	Colour
88115070	white
88115080	black

88116250 Stabilization plate, aluminium-untreated



Article-no.	Length
88116250	120mm

88119250 Ceiling mounting, aluminium-untreated



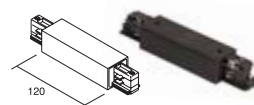
Article-no.
88119250

88125... Mechanical connector



Article-no.	Colour
88125070	white
88125080	black

88124... Central power feed



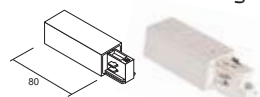
Article-no.	Colour
88124070	white
88124080	black
88124680	silver

88123... End power feed, protective earth conductor left



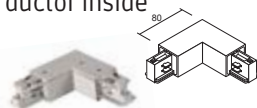
Article-no.	Colour
88123070	white
88123080	black
88123680	silver

88122... End power feed, protective earth conductor right



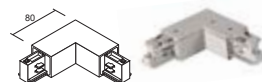
Article-no.	Colour
88122070	white
88122080	black
88122680	silver

88126... Corner connectors 90°, protective earth conductor inside



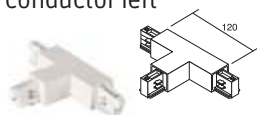
Article-no.	Colour
88126070	white
88126080	black
88126680	silver

88127... Corner connectors 90°, protective earth conductor outside



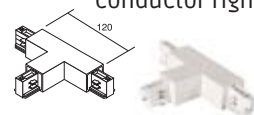
Article-no.	Colour
88127070	white
88127080	black
88127680	silver

88129... T-connector, protective earth conductor left



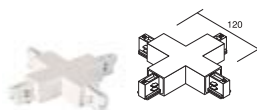
Article-no.	Colour
88129070	white
88129080	black
88129680	silver

88128... T-connector, protective earth conductor right



Article-no.	Colour
88128070	white
88128080	black
88128680	silver

88130... Cross-connector



Article-no.	Colour
88130070	white
88130080	black
88130680	silver

88131... Flexible connector



Article-no.	Colour
88131070	white
88131080	black
88131680	silver

88132... End cap



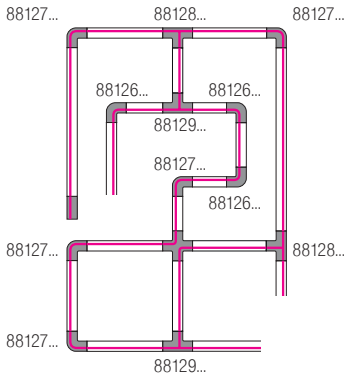
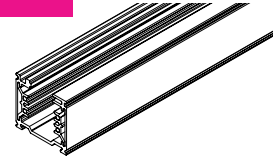
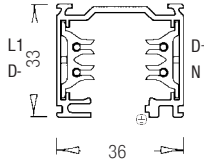
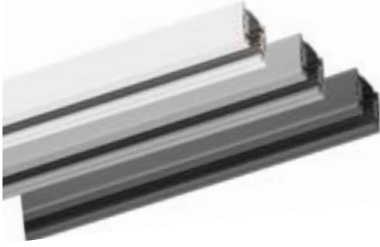
Article-no.	Colour
88132070	white
88132080	black
88132680	silver

88133... Ingress protection for track



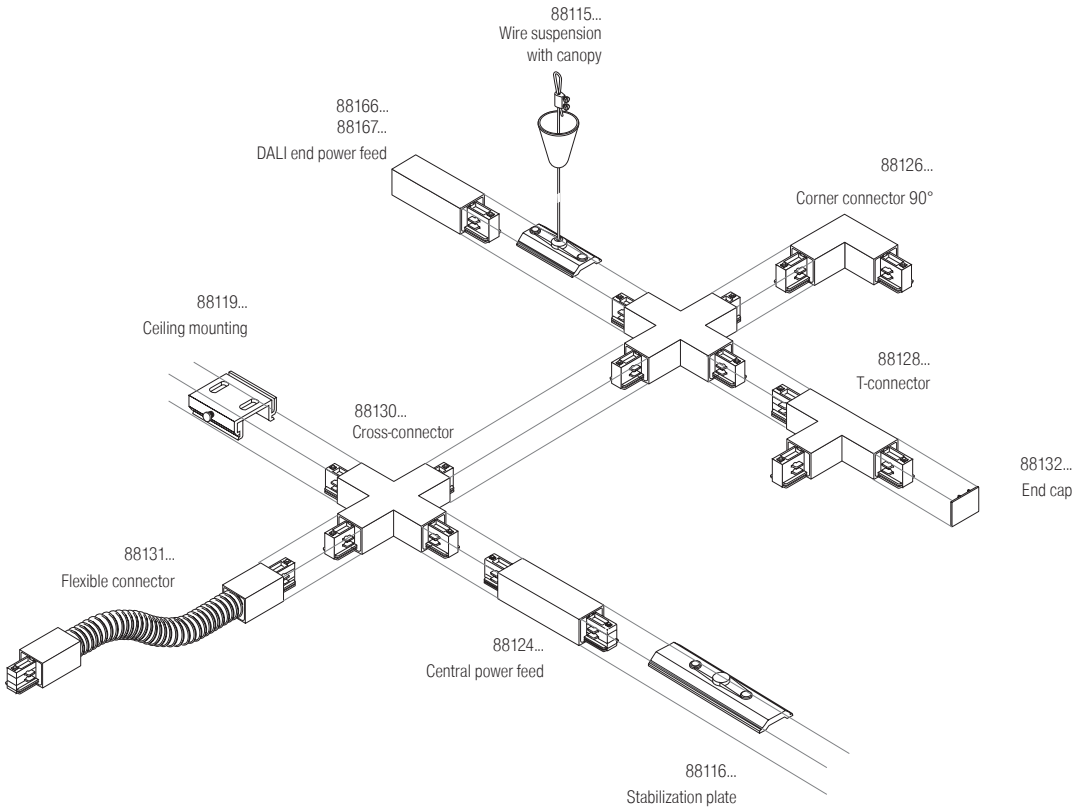
Article-no.	Colour	Length
88133070	white	1000 mm
88133080	black	1000 mm

88161... / 88162... / 88163... / 88164...
1-phase track DALI



Article-no.	Length	Colour
88161070	1000 mm	white
88161080	1000 mm	black
88161250	1000 mm	alu anodized
88162070	2000 mm	white
88162080	2000 mm	black
88162250	2000 mm	alu anodized
88163070	3000 mm	white
88163080	3000 mm	black
88163250	3000 mm	alu anodized
88164070	4000 mm	white
88164080	4000 mm	black
88164250	4000 mm	alu anodized

suitable DALI-track lights on demand.



88114... Electrical connector



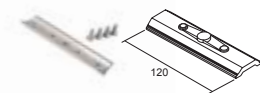
Article-no.	Colour
88114070	white
88114080	black
88114680	silver

88115... Wire suspension with canopy



Article-no.	Colour
88115070	white
88115080	black

88116250 Stabilization plate, aluminium-untreated



Article-no.	Length
88116250	120mm

88119250 Ceiling mounting, aluminium-untreated



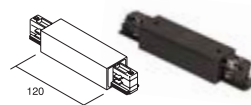
Article-no.
88119250

88125... Mechanical connector



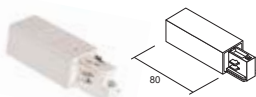
Article-no.	Colour
88125070	white
88125080	black

88124... Central power feed



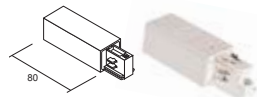
Article-no.	Colour
88124070	white
88124080	black
88124680	silver

88167... DALI end power feed, protective earth conductor left



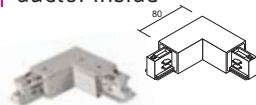
Article-no.	Colour
88167070	white
88167080	black
88167680	silver

88166... DALI end power feed, protective earth conductor right



Article-no.	Colour
88166070	white
88166080	black
88166680	silver

88126... Corner connectors 90°, protective earth conductor inside



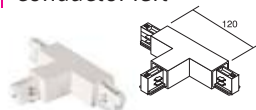
Article-no.	Colour
88126070	white
88126080	black
88126680	silver

88127... Corner connectors 90°, protective earth conductor outside



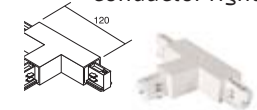
Article-no.	Colour
88127070	white
88127080	black
88127680	silver

88129... T-connector, protective earth conductor left



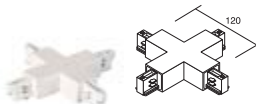
Article-no.	Colour
88129070	white
88129080	black
88129680	silver

88128... T-connector, protective earth conductor right



Article-no.	Colour
88128070	white
88128080	black
88128680	silver

88130... Cross-connector



Article-no.	Colour
88130070	white
88130080	black
88130680	silver

88131... Flexible connector



Article-no.	Colour
88131070	white
88131080	black
88131680	silver

88132... End cap



Article-no.	Colour
88132070	white
88132080	black
88132680	silver

88115... Ingress protection for track



Article-no.	Colour	Length
88133070	white	1000 mm
88133080	black	1000 mm

88643 bis 88655

ModulMax® LED recessed pivotable spot



27W

System efficiency incl.
converter max. 124 lm / W



Specification

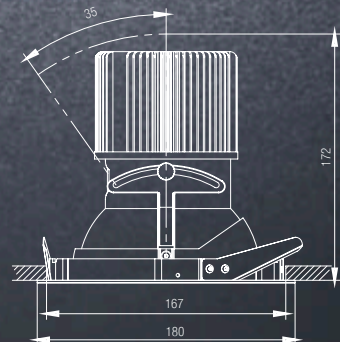
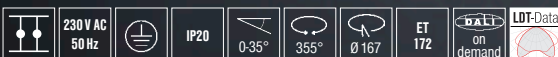
Incl. light source: LED COB, colour render: CRI > 80
heat dissipation: passive (without fan), material: aluminium / clear glass / plastic,
rotation angle: twistable / swiveling, dimensions lamp: Ø 180 mm x 162 mm, weight: ca. 1.800 g

Incl. driver, not dimmable (DALI on request)
Luminaire incl. adapter for standard 3-phase track.

Energy efficiency class: A++ bis A

This luminaire contains incorporated and non-exchangeable LED light sources.

Modular construction



88643... bis 88655...

Power LED: 24.3 W, System power: 27 W

ModulMax® LED recessed pivotable spots 27W

NEW

Article-No. white	Article-No. black	Article-No. silver	Colour temperature	Beam angle	Beam patterns	Flux	System efficiency
88647073	88647083	88647683	2700 K	12°	Spot (SP)	3052 lm	113 lm/W
88648073	88648083	88648683	2700 K	24°	Medium Flood (MF)	3052 lm	113 lm/W
88649073	88649083	88649683	2700 K	36°	Flood (FL)	3052 lm	113 lm/W
88650073	88650083	88650683	2700 K	60°	Wide Flood (WFL)	3052 lm	113 lm/W
88643073	88643083	88643683	3000 K	12°	Spot (SP)	3193 lm	118 lm/W
88644073	88644083	88644683	3000 K	24°	Medium Flood (MF)	3193 lm	118 lm/W
88645073	88645083	88645683	3000 K	36°	Flood (FL)	3193 lm	118 lm/W
88646073	88646083	88646683	3000 K	60°	Wide Flood (WFL)	3193 lm	118 lm/W
88651073	88651083	88651683	3000 K BBL*	12°	Spot (SP)	3052 lm	116 lm/W
88652073	88652083	88652683	3000 K BBL*	24°	Medium Flood (MF)	3052 lm	116 lm/W
88654073	88654083	88654683	3000 K BBL*	36°	Flood (FL)	3052 lm	116 lm/W
88655073	88655083	88655683	3000 K BBL*	60°	Wide Flood (WFL)	3052 lm	116 lm/W
88647074	88647084	88647684	3500 K	12°	Spot (SP)	3286 lm	122 lm/W
88648074	88648084	88648684	3500 K	24°	Medium Flood (MF)	3286 lm	122 lm/W
88649074	88649084	88649684	3500 K	36°	Flood (FL)	3286 lm	122 lm/W
88650074	88650084	88650684	3500 K	60°	Wide Flood (WFL)	3286 lm	122 lm/W
88643074	88643084	88643684	4000 K	12°	Spot (SP)	3347 lm	124 lm/W
88644074	88644084	88644684	4000 K	24°	Medium Flood (MF)	3347 lm	124 lm/W
88645074	88645084	88645684	4000 K	36°	Flood (FL)	3347 lm	124 lm/W
88646074	88646084	88646684	4000 K	60°	Wide Flood (WFL)	3347 lm	124 lm/W

*BBL= Below Black Body Locus

8817... / 8891... / 8894...
ModulMax® accessories

NEW

Article-No.	Description
88170027	Light Engine 2700K for ModulMax®
88170003	Light Engine 3000K for ModulMax®
88170031	Light Engine 3000 K BBL for ModulMax®
88170035	Light Engine 3500K for ModulMax®
88170004	Light Engine 4000K for ModulMax®
88171001	Reflector 12° for ModulMax®
88171002	Reflector 24° for ModulMax®
88171003	Reflector 36° for ModulMax®
88171006	Reflector 60° for ModulMax®
88910006	Glass Food Red ModulMax® Foodfilter: for bakery products, red fruit and vegetables, mediterranean cheese- and pasta products
88910007	Glas Food Green ModulMax® Foodfilter: for green fruit and vegetables
88910008	Glass Food Blue ModulMax® Foodfilter: for fish
88910009	Glass Food Yellow ModulMax® Foodfilter: for yellow fruit and vegetables
88910002	Glass Food Pink ModulMax® Foodfilter: for meat, charateric and for red fish (in exceptions)
88947000	Driver 700mA for ModulMax®
88948000	Driver 1050mA for ModulMax®

As complementation (glasses) or for modification of ModulMax ceilingspots on-site.

88656 bis 88667

ModulMax® LED recessed pivotable spot



40 W

Power of system incl.
converter max. 4594 lm



Specification

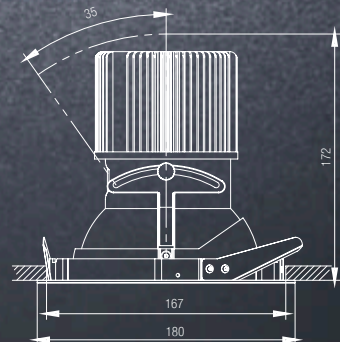
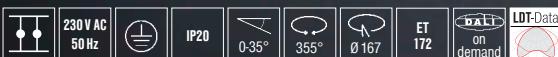
Incl. light source: LED COB, colour render: CRI > 80,
heat dissipation: passive (without fan), material: aluminium / clear glass / plastic,
rotation angle: twistable / swiveling, dimensions lamp: Ø 126 mm x 17,5 mm,

Incl. driver, not dimmable (DALI on request)
Luminaire incl. adapter for standard 3-phase track.

Energy efficiency class: A++ bis A

This luminaire contains incorporated and
non-exchangeable LED light sources.

Modular construction



88656... bis 88667...

Power LED: 37.5 W, System power: 40 W

ModulMax® LED recessed pivotable spots 40 W

NEW

Article-No. white	Article-No. black	Article-No. silver	Colour temperature	Beam angle	Beam patterns	Flux	System efficiency
88660073	88660083	88660683	2700 K	12°	Spot (SP)	4189 lm	105 lm/W
88661073	88661083	88661683	2700 K	24°	Medium Flood (MF)	4189 lm	105 lm/W
88662073	88662083	88662683	2700 K	36°	Flood (FL)	4189 lm	105 lm/W
88663073	88663083	88663683	2700 K	60°	Wide Flood (WFL)	4189 lm	105 lm/W
88656073	88656083	88656683	3000 K	12°	Spot (SP)	4382 lm	110 lm/W
88657073	88657083	88657683	3000 K	24°	Medium Flood (MF)	4382 lm	110 lm/W
88658073	88658083	88658683	3000 K	36°	Flood (FL)	4382 lm	110 lm/W
88659073	88659083	88659683	3000 K	60°	Wide Flood (WFL)	4382 lm	110 lm/W
88664073	88664083	88664683	3000 K BBL*	12°	Spot (SP)	4289 lm	107 lm/W
88665073	88665083	88665683	3000 K BBL*	24°	Medium Flood (MF)	4289 lm	107 lm/W
88666073	88666083	88666683	3000 K BBL*	36°	Flood (FL)	4289 lm	107 lm/W
88667073	88667083	88667683	3000 K BBL*	60°	Wide Flood (WFL)	4289 lm	107 lm/W
88660074	88660084	88660684	3500 K	12°	Spot (SP)	4510 lm	113 lm/W
88661074	88661084	88661684	3500 K	24°	Medium Flood (MF)	4510 lm	113 lm/W
88662074	88662084	88662684	3500 K	36°	Flood (FL)	4510 lm	113 lm/W
88663074	88663084	88663684	3500 K	60°	Wide Flood (WFL)	4510 lm	113 lm/W
88656074	88656084	88656684	4000 K	12°	Spot (SP)	4594 lm	115 lm/W
88657074	88657084	88657684	4000 K	24°	Medium Flood (MF)	4594 lm	115 lm/W
88658074	88658084	88658684	4000 K	36°	Flood (FL)	4594 lm	115 lm/W
88659074	88659084	88659684	4000 K	60°	Wide Flood (WFL)	4594 lm	115 lm/W

*BBL= Below Black Body Locus

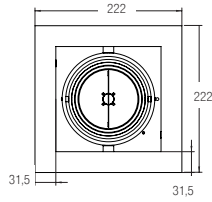
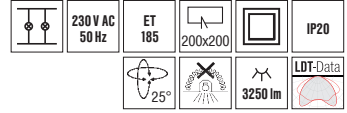
8817... / 8891... / 8894...
ModulMax® accessories

NEW

Article-No.	Description
88170027	Light Engine 2700K for ModulMax®
88170003	Light Engine 3000K for ModulMax®
88170031	Light Engine 3000 K BBL for ModulMax®
88170035	Light Engine 3500K for ModulMax®
88170004	Light Engine 4000 K for ModulMax®
88171001	Reflector 12° for ModulMax®
88171002	Reflector 24° for ModulMax®
88171003	Reflector 36° for ModulMax®
88171006	Reflector 60° for ModulMax®
88910006	Glass Food Red ModulMax® Foodfilter: for bakery products, red fruit and vegetables, mediterranean cheese- and pasta products
88910007	Glass Food Green ModulMax® Foodfilter: for green fruit and vegetables
88910008	Glass Food Blue ModulMax® Foodfilter: for fish
88910009	Glass Food Yellow ModulMax® Foodfilter: for yellow fruit and vegetables
88910002	Glass Food Pink ModulMax® Foodfilter: for meat, charateric and for red fish (in exceptions)
88947000	Driver 700mA for ModulMax®
88948000	Driver 1050mA for ModulMax®

As complementation (glasses) or for modification of ModulMax ceiling-spots on-site.

88461173 / 88462173 / 88463173
Recessed cardanic LED-Spot



LED set, including driver

Incl. light source: 1 x LED, material: steel / aluminium, power LED: 31 W, power of system: 33 W, colour rendering: CRI>80

Incl. operating device apart, not dimmable.

Energy efficiency class: A++ bis A

This luminaire contains incorporated and non-exchangeable LED light sources.

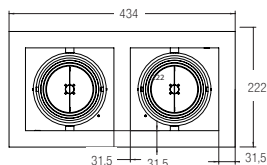
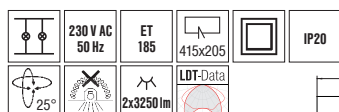
Article-no.	Colour of cabinet	Power	Colour temperature	Beam patterns
88461173	textured white	1 x 31 W	3000 K	18° (SP)
88462173	textured white	1 x 31 W	3000 K	30° (MF)
88463173	textured white	1 x 31 W	3000 K	50° (WFL)

modular construction: further light colors and power outputs are available on demand



Fashion shop, Sundern (Germany)

88464173 / 88465173 / 88466173
Recessed cardanic LED-Spot



LED set, including driver

Incl. light source: LED, material: steel / aluminium, power LED: 2 x 31 W, power of system: 2 x 33 W, colour rendering: CRI>80

Incl. operating device apart, not dimmable.

Energieeffizienzklasse: A++ bis A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Power	Colour temperature	Beam patterns
88464173	textured white	2 x 31 W	3000 K	18° (SP)
88465173	textured white	2 x 31 W	3000 K	30° (MF)
88466173	textured white	2 x 31 W	3000 K	50° (WFL)

modular construction: further light colors and power outputs are available on demand



Fashion shop, Sundern (Germany)



Fashion shop, Düsseldorf (Germany)



fibre optics

LED starry sky kit

548



LED-RGB starry sky kit

552



starry sky kit halogen

554



exclusive kit LED

560





exclusive kit halogen

562



projectors

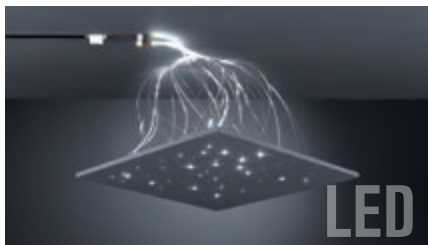
564



fibre / accessoires

568

9510...
LED starry sky kit



Specification

Consisting of:

- 1 x mini-projector - 1 W Power-LED (diametre 26 x length 35 mm)
- 1 x fibre bundle: 50-pieces of mixed fibres:
 - 15 x Ø 0,5 mm, length: 1,0 m
 - 20 x Ø 0,75 mm, length: 1,0 m
 - 10 x Ø 1,0 mm, length: 1,0 m
 - 5 x Ø 1,5 mm, length: 1,0 m

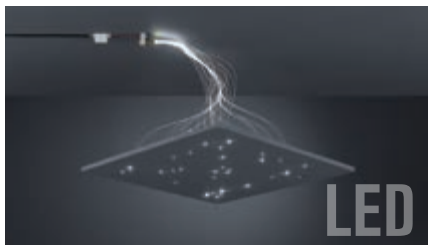
- Incl. driver for Power-LED (length 52 x width 30 x height 23 mm) for 230 V connection
- Ceiling plate not included in delivery.
- without fan

Attention: the product is a 'special product'. The special product is not suited for household room lighting.

Article-no. Light colour

9510W	white	○
9510B	blue	●
9510R	red	●
9510Y	orange	●
9510G	green	●

9513...
LED starry sky kit



Specification

Consisting of:

- 1 x mini-projector - 1 W Power-LED (diametre 26 x length 35 mm)
- 1 x fibre bundle made up of 33 pieces:
 - 33 x Ø 1,0 mm, length: 1,0 m

- Incl. driver for Power-LED (length 52 x width 30 x height 23 mm) for 230V connection
- Ceiling plate not included in delivery.
- without fan

Attention: the product is a 'special product'. The special product is not suited for household room lighting.

Article-no. Light colour

9513W	white	○
9513B	blue	●
9513R	red	●
9513Y	orange	●
9513G	green	●



Private home, Bonn (Germany)

9610... LED starry sky kit



Specification

Consisting of:
 1 x projector - LED-insert (3,6 W) (145 x 80 x 77 mm)
 1 x fibre bundle made up of:
 200 x Ø 1,0 mm;
 lengths: 50 x 1,0 m, 50 x 1,5 m, 50 x 2,0 m, 50 x 2,5 m

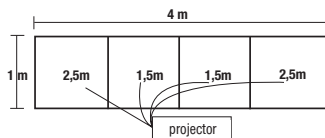
- Incl. 1500 mm connection.
- Incl. driver for 230 V connection
- without fan

Attention: the product is a 'special product'. The special product is not suited for household room lighting.

Article-no. Light colour

9610W	white	○
9610B	blue	●
9610R	red	●
9610Y	orange	●
9610G	green	●

48210004 LED starry sky kit



Specification

Consisting of:
 1 x projector - 20 W Power-LED (L290 x B105 x H105 mm),
 1 x fibre bundle made up of 200 pieces:
 100 x Ø 1,0 mm, length: 1,5 m
 100 x Ø 1,0 mm, length: 3,0 m

- Incl. light source: LED, light colour: neutral white (4000 K)
 - Incl. driver for 230V-connection
 - Incl. 1500 mm connection.
 The set is suitable for an area of 4-5 m²
 - without fan

Attention: the product is a 'special product'. The special product is not suited for household room lighting.

Article-no. Light colour

48210004 neutral white ●

4821100... LED starry sky kit



Specification

Consisting of:
 1 x projector - 1 x Power-LED (1,0 W) (180 x 65 x 35 mm)
 1 x fibre bundle made up of 100 pieces:
 30 x Ø 0,5 mm 40 x Ø 0,75 mm
 20 x Ø 1,0 mm 10 x Ø 1,5 mm
 length: each 1,5 m

- without fan
 - incl. 1500 mm connection
 - incl. driver for 230 V -connection

Attention: the product is a 'special product'. The special product is not suited for household room lighting.

Article-no. Light colour

48211005 white ○
 48211008 blue ●
 48211006 red ●
 48211009 orange ●
 48211007 green ●



Bathroom ideas, Rheda Wiedernbrück (Germany)

48221001

LED-RGB starry sky kit



Specification

Consisting of:
 1 x projector - 13,8 W Power-LED (L270 mm x B155 mm x H100 mm)
 1 x remote control
 1 x fibre bundle made up of 200 pieces:
 50 x Ø 1,0 mm, length = 1,0 m 50 x Ø 1,0 mm, length = 1,5 m
 50 x Ø 1,0 mm, length = 2,0 m 50 x Ø 1,0 mm, length = 2,5 m

Article-no. Light colour

48221001 RGB 

- Incl. 1500 mm connection.
- Incl. driver for 230 V-connection.
- without fan

LED color control with IR remote control with 6 buttons. Control of the color values of RGB LED, single color control red, green and blue or independent brightness control of the three colors. A color memory for the individual light color. Three fixed color sequences (2x soft / 1x abrupt transition) with color running through all colors of light. The rate of color sequences can be set. Master-slave operation with article-no. 9419RGB possible. Range of the IR control max.15m. Plug & Play = connections with plug-in system. incl. infrared remote control.

Attention: the product is a 'special product'. The special product is not suited for household room lighting.



48222001

LED-RGB starry sky kit incl. radio remote control



NEW

Specification

Consisting of:

1 x projector - 1 x LED-RGB-Multi Color (1,0 W) (L180 x B65 x H35 mm),
1 x fibre bundle made up of 75 pieces:

75 x Ø 1,0 mm, length: 1,5 m

1 x radio remote control 433,92 MHz, range ca. 5 m line of sight,
functions: on / off, program selection, selection of static colours, brightness
adjustment

- without fan
- incl. 1500 mm connection
- incl. driver for 230 V -connection

Attention: the product is a 'special product'. The special product
is not suited for household room lighting.

Article-no. Light colour

48224001 RGB 

48224001

LED-RGB starry sky kit incl. radio remote control



NEW

Specification

Consisting of:

1 x projector - 1 x LED-RGB-Multi Color (1,0 W) (L180 x B65 x H35 mm),
1 x fibre bundle made up of 100 pieces:

30 x Ø 0,5 mm, 40 x Ø 0,75 mm

20 x Ø 1,0 mm, 10 x Ø 1,5 mm

length: each 1,5 m

1 x radio remote control 433,92 MHz, range ca. 5 m line of sight,
functions: on / off, program selection, selection of static colours, brightness
adjustment

- without fan
- incl. 1500 mm connection
- incl. driver for 230V-connection

Attention: the product is a 'special product'. The special product
is not suited for household room lighting.

Article-no. Light colour

48224001 RGB 

951400
starry sky kit



Specification

- Consisting of:
- 1 x projector - 50 W Halogen (L270 x B155 x H100 mm)
 - 1 x colour wheel coloured
 - 1 x fibre bundle made up of 75 pieces:
 - 25 x Ø1,0 mm, length: 1,5 m
 - 50 x Ø1,0 mm, length: 3,0 m

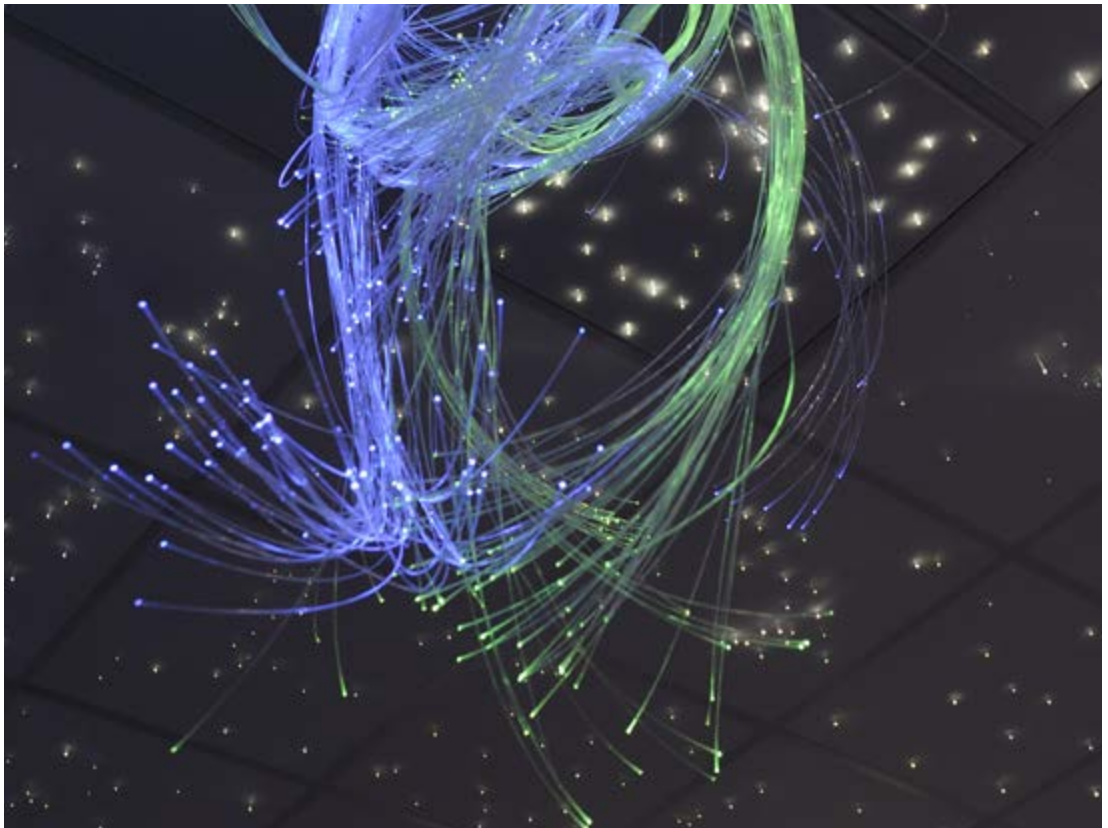
- incl. 1500 mm connection
- incl. driver for 230 V-connection
- colour wheel at your option

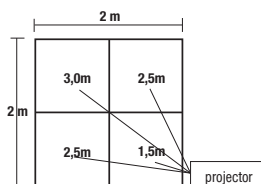
For orders please add the article-no. of the requested colour wheel.

Attention: the product is a 'special product'. The special product is not suited for household room lighting.

Article-no.

951400



950100
starry sky kit

Specification

Consisting of:

1 x Projector - 1 x Halogen (50 W) (L270 x B155 x H100 mm),

1 x fibre bundle made up of 75 pieces:

50 x Ø1,0 mm, Length= 1,5 m 100x Ø1,0 mm, Length= 2,5 m

50 x Ø1,0 mm, Length= 3,0 m

The set is suitable for an area of 2x2 m. The projector is placed aside..

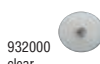
- without ventilator
- incl. 1500 mm connection
- incl. driver for 230 V - connection
- colour wheel at your option

For orders please add the article-no. of the requested colour wheel.

Attention: the product is a 'special product'. The special product is not suited for household room lighting.

Article-no.

950100



932000
clear



932100
coloured



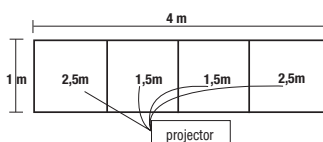
932200
coloured sparks



932300
blue / clear / sparks



932400
black / clear / sparks

950200
starry sky kit

Specification

Consisting of:

1 x Projector - 1 x Halogen (50 W) (L270 x B155 x H100 mm),

1 x fibre bundle made up of 75 pieces:

100 x Ø1,0 mm, length= 1,5 m

100 x Ø1,0 mm, length= 2,5 m

The set is suitable for an area of 4x1m. The projector is placed aside..

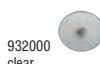
- without ventilator
- incl. 1500 mm connection
- incl. driver for 230 V - connection
- colour wheel at your option

For orders please add the article-no. of the requested colour wheel.

Attention: the product is a 'special product'. The special product is not suited for household room lighting.

Article-no.

950200



932000
clear



932100
coloured



932200
coloured sparks

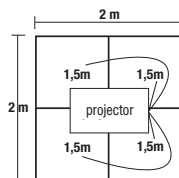


932300
blue / clear / sparks



932400
black / clear / sparks

950300 halogen-starry sky kit



Specification

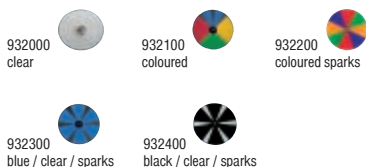
Consisting of:
 1 x Projector - 1 x Halogen (50 W) (L270 x B155 x H100 mm),
 1 x fibre bundle made up of 200 pieces:
 200 x Ø 1,0 mm, length= 1,5 m
 The set is suitable for an area of 2 x 2 m. The projector is placed centered.

Article-no.
 950300

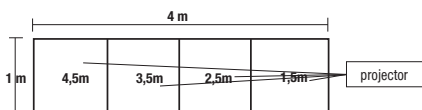
- without ventilator
- incl. 1500 mm connection
- incl. driver for 230 V-connection
- colour wheel at your option

For orders please add the article-no. of the requested colour wheel.

Attention: the product is a 'special product'. The special product is not suited for household room lighting.



950400 halogen-starry sky kit



Specification

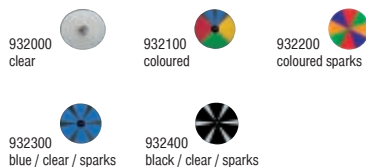
Consisting of:
 1 x Projector - 1 x Halogen (50 W) (L270 x B155 x H100 mm),
 1 x fibre bundle made up of 200 pieces:
 50 x Ø 1,0mm, Length= 1,5m 50 x Ø 1,0 mm, Length= 2,5 m
 50 x Ø 1,0mm, Length= 3,5m 50 x Ø 1,0 mm, Length= 4,5 m
 The set is suitable for an area of 4 x 1 m. The projector is placed aside..

Article-no.
 950400

- without ventilator
- incl. 1500 mm connection
- incl. driver for 230 V-connection
- colour wheel at your option

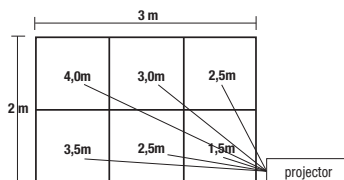
For orders please add the article-no. of the requested colour wheel.

Attention: the product is a 'special product'. The special product is not suited for household room lighting.



951600

halogen-starry sky kit



Specification

Consisting of:

1 x Projector - 1 x Halogen (50 W) (L270 x B155 x H100 mm),

1 x fibre bundle made up of 300 pieces:

50 x Ø 1,0 mm, length= 1,5 m 100 x Ø 1,0 mm, length= 2,5 m

50 x Ø 1,0 mm, length= 3,0 m 50 x Ø 1,0 mm, length= 3,5 m

50 x Ø 1,0 mm, length= 4,0 m

The set is suitable for an area of 3 x 2 m. The projector is placed centered.

- without ventilator
- incl. 1500 mm connection
- incl. driver for 230 V - connection
- colour wheel at your option

For orders please add the article-no. of the requested colour wheel.

Attention: the product is a 'special product'. The special product is not suited for household room lighting.

Article-no.

951600



932000
clear



932100
coloured



932200
coloured sparks



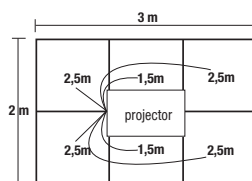
932300
blue / clear / sparks



932400
black / clear / sparks

951700

halogen-starry sky kit



Specification

Consisting of:

1 x Projector - 1 x Halogen (50 W) (L270 x B155 x H100 mm),

1 x fibre bundle made up of 300 pieces:

100 x Ø 1,0 mm, length= 1,5 m

200 x Ø 1,0 mm, length= 2,5 m

The set is suitable for an area of 3 x 2 m. The projector is placed centered.

- without ventilator
- incl. 1500 mm connection
- incl. driver for 230 V - connection
- colour wheel at your option

For orders please add the article-no. of the requested colour wheel.

Attention: the product is a 'special product'. The special product is not suited for household room lighting.

Article-no.

951700



932000
clear



932100
coloured



932200
coloured sparks



932300
blue / clear / sparks



932400
black / clear / sparks



Health centre Phoenix, Sinzheim (Germany)



48212...

LED-fibre optics-exclusive-kit "Aqua-Dream"



Specification

Consisting of:

- 1 x projector - 20 W LED (L290 mm x B105 mm x H105 mm)
- 30 x light exit elements with glass ball (art.-no. 9730.xx): material: brass, outer diameter: 17,5 mm, installation height without glass ball: 1,5 mm, installation height with glassball: 5 mm, installation depth with fibre S2:100mm, installation depth without fibre S2: 20 mm, drilling diameter: 10 mm, fastening: glueing.1 x fibre bundle made up of 30 pieces: 30 x Ø=2,0 mm, length= 2,0 m

- Incl. light source: LED, light colour: neutral white (4000 K)
- Incl. 1500 mm connection.
- Incl. driver for 230 V-connection.
- without fan.

Attention: the product is a 'special product'. The special product is not suited for household room lighting.

Article-no.	light exit elements	light colour
48212034	chrome satin	●
48212054	gold	●
48212154	nickel satin	●

48213...

LED-fibre optics-exclusive-kit "Ambiente"



Specification

Consisting of:

- 1 x projector - 20 W LED (L290 mm x B105 mm x H105 mm)
 - 25 x light exit elements with glass ball (art.-no. 9730.xx) and 25 x light exit elements with crystal (art.-no. 9731.xx), installation depth with fibre S2: 100 mm, fastening: glueing. 1x fibre bundle made up of 50 pieces: 25 x Ø 2,0 mm, length= 2,0 m 25 x Ø 2,0 mm, length= 3,0 m
- The set is suitable for an area of 2 - 3 m².

- Incl. light source: LED, light colour: neutral white (4000 K)
- Incl. 1500 mm connection.
- Incl. driver for 230 V-connection.
- without fan.

Attention: the product is a 'special product'. The special product is not suited for household room lighting.

Article-no.	light exit elements	light colour
48213034	chrome satin	●
48213054	gold	●
48213154	nickel satin	●

48214...

LED-fibre optics-exclusive-kit "wellness"



Specification

Consisting of:

1 x projector - 20 W LED (L290 mm x B105 mm x H105 mm)

10 x light exit elements with glass ball (art.-no. 9730.xx) and 10 x light exit elements

with crystal (art.-no. 9731.xx) and 30 x light exit elements with crystal (art.-no. 9731.xx), installation depth with fibre S2: 100 mm, fastening: glueing.

1 x fibre bundle made up of 150 pieces:

100 x Ø1,0 mm, length= 2,0 m 50 x Ø2,0 mm, length= 3,0 m

The set is suitable for an area of 3 - 4 m².

- Incl. light source: LED, light colour: neutral white (4000K)
- Incl. 1500 mm connection.
- Incl. driver for 230 V -connection.
- without fan.

Attention: the product is a 'special product'. The special product is not suited for household room lighting.

Article-no.	light exit elements	light colour
48214034	chrome satin	●
48214054	gold	●
48214154	nickel satin	●



Bath exhibition, Oldenburg

9601...
fibre optics-exclusive-kit "Aqua-Dream"



Specification

Consisting of:
 1 x projector - 100 W Halogen (L270 mm x B155 mm x H100 mm)
 1 x colour wheel (coloured sparks)
 30 x light exit elements with glass ball (art.-no. 9730.xx): material: brass, outer diameter: 17,5 mm, installation height without glassball: 1,5 mm, installation height with glassball: 5mm, installation depth with fibre S2:100 mm, installation depth without fibre S2: 20 mm, drilling diameter: 10 mm, fastening: glueing.
 1 x fibre bundle made up of 30 pieces:
 30 x Ø 2,0 mm, length= 2,0 m
 The set is suitable for an area of 1-2 m².

Article-no. light exit elements

9601.03	chrome satin
9601.05	gold
9601.15	nickel satin

- Incl. 1500 mm connection.
- Incl. transformer for 230 V -connection.
- incl. heat proof and colour wheel motor

Attention: the product is a 'special product'. The special product is not suited for household room lighting.

9602...
fibre optics-exclusive-kit "Ambience"



Specification

Consisting of:
 1 x projector - 100 W Halogen (L270 mm x B155 mm x H100 mm)
 1 x colour wheel (coloured sparks)
 25 x light exit elements with glass ball (art.-no. 9730.xx) and 25 x light exit elements with crystal (art.-no. 9731.xx), installation depth with fibre S2: 100 mm, fastening: glueing.
 1 x fibre bundle made up of 50 pieces:
 25 x Ø 2,0 mm, length= 2,0 m 25 x Ø 2,0 mm, length= 3,0 m
 The set is suitable for an area of 2-3 m².

Article-no. light exit elements

9602.03	chrome satin
9602.05	gold
9602.15	nickel satin

- Incl. 1500 mm connection.
- Incl. transformer for 230 V -connection.
- incl. heat proof and colour wheel motor

Attention: the product is a 'special product'. The special product is not suited for household room lighting.

9603...

fibre optics-exclusive-kit "wellness"



932200
coloured sparks



Specification

Consisting of:

1 x projector - 100 W Halogen (L270 mm x B155 mm x H100 mm)

1 x colour wheel (coloured sparks)

10 x light exit elements with glass ball (art.-no. 9730.xx) and 10 x light exit elements

with crystal (art.-no. 9733.xx) and 30 x light exit elements with crystal (art.-no. 9731.xx), installation depth with fibre S2: 100 mm, fastening: glueing.

1 x fibre bundle made up of 150 pieces:

100 x Ø 1,0 mm, length= 2,0 m 50x Ø 2,0 mm, length= 3,0 m

The set is suitable for an area of 3-4 m².

Article-no. light exit elements

9603.03 chrome satin

9603.05 gold

9603.15 nickel satin

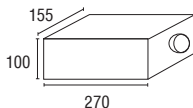
- Incl. 1500 mm connection.
- Incl. transformer for 230 V-connection.
- incl. heat proof and colour wheel motor

Attention: the product is a 'special product'. The special product is not suited for household room lighting.



Bathideas, Rheda-Wiedenbrück (Germany)

941000 | 941100
projector 50W halogen



Specification

Consisting of:
1 x projector - 50 W halogen (L270 mm x B155 mm x H100 mm),
material: metal, housing colour: black

- Incl. lamp: QR-CB 51 (50 W), socket: GX 5.3, lamp voltage: 12 V
- Incl. 1500 mm connection.
- Incl. dimmable electronic transformer for 230 V - connection.
- *without colour wheel! Please order separately!

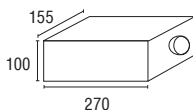
Attention: the product is a 'special product'. The special product is not suited for household room lighting.

Article-no. Specification

941000	without colour wheel motor
941100	incl. colour wheel motor*

replacement lamps on request

941400 | 941500
projector 100W halogen



Specification

Consisting of:
1 x projector - 100 W halogen (L270 mm x B155 mm x H100 mm),
material: metal, housing colour: black

- Incl. lamp: reflector MR16 / 100 Watt, socket: GZ6,35, lamp voltage: 12 V
- Incl. 1500 mm connection.
- Incl. dimmable electronic transformer for 230 V - connection.
- *without colour wheel! Please order separately!

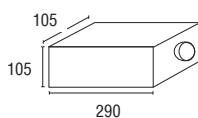
Attention: the product is a 'special product'. The special product is not suited for household room lighting.

Article-no. Specification

941400	without colour wheel motor
941500	incl. colour wheel motor*

replacement lamps on request

48201084 projector 20 W LED



Specification

Consisting of:
1 x projector - 20 W LED (L290 mm x B105 mm x H105 mm)
material: metal, housing colour: black

Article-no. light colour

48201084 4000K ●

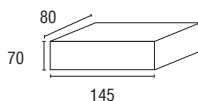
- Incl. lamp: LED, light colour: white (4000 K)
- Incl. 1500 mm connection.
- Incl. transformer for 230 V-connection.

Attention: the product is a 'special product'. The special product is not suited for household room lighting.



Taunus Therme, Bad Homburg (Germany)

9419W projector 3,6W LED



Specification

Consisting of:
1 x projector - 3,6W LED (L145 mm x B80 mm x H70 mm)
material: metallic housing, housing colour: black,

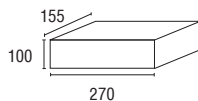
- Incl. lamp: 3 x LED (3x 1,2W) white, (also available in other light colours)
- Incl. 1500 mm connection.
- Incl. transformer for 230 V -connection.
- without fan

Attention: the product is a 'special product'. The special product is not suited for household room lighting.

Article-no. Colour temperature

9419W 6000 K ○

48202081 Master-projector 13,8W LED-RGB



Specification

Consisting of:
1 x projector - 13,8 W LED-RGB Multi Colour (L270 mm x B155 mm x H100 mm)
material: metallic housing, housing colour: black,
1 x IR remote control for light colour and speed control

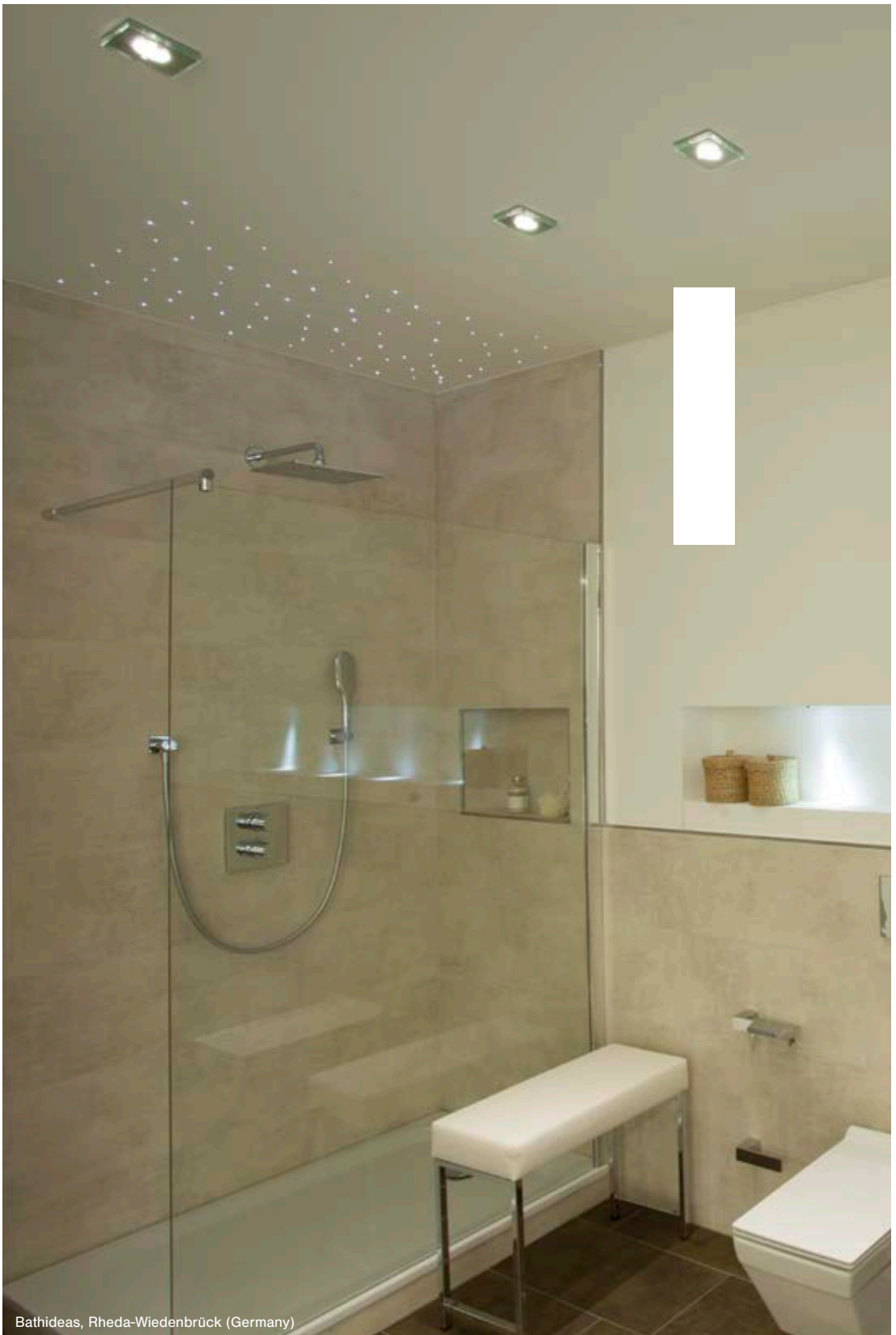
- Incl. 1500 mm connection
- Incl. driver for 230 V -connection
- without fan

This pure RGB radio control creates 3 PWM control signals for controlling the colour of RGB LED modules. Intuitive colour adjustment via the colour selection wheel. Selection of 9 colour change programmes. Brightness adjustment of static colours through the touch field. Speed adjustment of colour change in the running programme. Up to 4 switch groups via remote control (multi-room operation). Separate on and off switch of all 4-switch groups of the light unit. Synchronisation of all 4-switch groups via a long push of the button.

Attention: the product is a 'special product'. The special product is not suited for household room lighting.

Article-no. Lighting colour

48202081 RGB



Bathideas, Rheda-Wiedenbrück (Germany)

932...
colour wheels for projectors



Article-no. Version
932000 clear



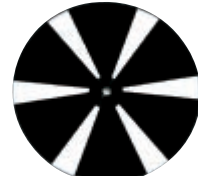
Article-no. Version
932100 coloured



Article-no. Version
932200 coloured / spark



Article-no. Version
932300 blue / clear / sparks



Article-no. Version
932400 black / clear / sparks

900000
connector



We customize your individual fibre bundle!
900000 plus 910000 and / or 910200 and / or 910400.

910000
fibre (S0) Ø1,0 mm



Specification

bunching of fibre in connector
It is for connecting the fibre to the projector.
Incl. cutting, fixing and polishing.

Article-no.
900000

Specification

fibre: Ø 1,0 mm, active core: Ø 1,0 mm
min. bending radius: 5,0 mm
drilling diameter: Ø 1,1 mm

Article-no.
910000

910200
fibre (S2) Ø2,0mm



910400
fibre (S3) Ø3,0 mm



Specification

fibre: Ø 2,0 mm, active core: Ø 2,0 mm
min. bending radius: 10,0 mm
drilling diameter: Ø 2,2 mm

Article-no.
910200

Specification

fibre: Ø 3,0 mm, active core: Ø 3,0 mm
min. bending radius: 15,0 mm
drilling diameter: Ø 3,2 mm

Article-no.
910400

910100
fibre (S1) 1,0 mm



Specification

fibre: \varnothing 1,0 mm with protective tube, active core: \varnothing 1,0 mm
total diameter: \varnothing 3,0 mm, min. bending radius: 10,0 mm
drilling diameter: \varnothing 1,9 mm

Article-no.

910100

910300
fibre (S2M) 2,0 mm



Specification

fibre: \varnothing 2,0 mm with protective tube, active core: \varnothing 2,0 mm
total diameter: \varnothing 4,0 mm, min. bending radius: 15,0 mm
drilling diameter: \varnothing 2,9 mm

Article-no.

910300

910500
fibre (S3M) 3,0 mm



Specification

fibre: \varnothing 3,0 mm with protective tube, active core: \varnothing 3,0 mm
total diameter: \varnothing 5,0 mm, min. bending radius: 20,0 mm
drilling diameter: \varnothing 3,9 mm

Article-no.

910500

910600
fibre (S19M) 5,0 mm



Specification

fibre: \varnothing 5,0 mm with protective tube, Consisting of: 19x \varnothing 1,0 mm,
active core: \varnothing 5,0 mm, total diameter: \varnothing 8,0 mm,
min. bending radius: 25,0 mm, drilling diameter: \varnothing 7,7 mm

Article-no.

910600

910700
fibre (S33M) 7,0 mm



Specification

fibre: \varnothing 7,0 mm with protective tube, Consisting of: 33 x \varnothing 1,0 mm,
active core: \varnothing 7,0 mm, total diameter: \varnothing 10,0 mm
min. bending radius: 35,0 mm, drilling diameter: \varnothing 7,7 mm

Article-no.

910700

910800
mixed fibre (S50M)



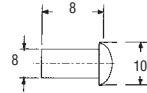
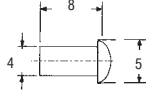
Specification

1 x fibre bundle made up of 50 pieces: 15 x \varnothing 0,5 mm, 20x \varnothing 0,75 mm,
10 x \varnothing 1,0 mm, 5 x \varnothing 1,5 mm,
total diameter: \varnothing 10,0 mm, min. bending radius: 25,0 mm

Article-no.

910800

975100
Acryldome for S0



975400
Acryldome for S2



Specification

material: acrylic,
outer diameter: Ø 5 mm,
structural height: 4 mm,
inst. depth without fibre: 20 mm,
drilling diameter: Ø 3 mm-Ø 4 mm
depending on material,
mounting: glue

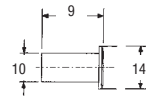
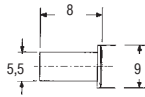
Article-no.	Colour
975100	transparent

Specification

material: acrylic,
outer diameter: Ø 10 mm,
structural height: 4 mm,
inst. depth without fibre: 8 mm,
inst. depth with fibre: 100 mm,
drilling diameter: Ø 7 mm to Ø 8 mm
depending on material,
mounting: glue

Article-no.	Colour
975400	transparent

9760...
brass mounting sleeve for 975100



9761...
brass mounting sleeve for 975400



Specification

material: brass,
outer diameter: 9 mm,
material thickness outer ring: 1 mm,
installation depth without 975100: 8 mm,
installation depth with 975100: 20 mm,
drilling diameter: Ø 5 mm-Ø 5.5 mm
depending on material,
mounting: glue

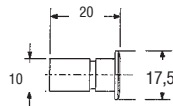
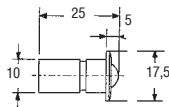
Article-no.	Colour
9760.02	chrome
9760.05	gold

Specification

material: brass,
outer diameter: Ø 14 mm,
material thickness outer ring: 1 mm,
installation depth without 975400: 9 mm,
installation depth with 975400: 100 mm,
drilling diameter: Ø 9 mm-Ø 10 mm
depending on material,
mounting: glue

Article-no.	Colour
9761.02	chrome
9761.05	gold

9730...
light exit element for fibre S2M and S33M



9729...
light exit element for fibre S19M and S33M



Specification

material: brass,
outer diameter: Ø 17.5 mm,
height without glass ball: 1.5 mm,
installation depth without fibre: 20 mm,
installation depth with fibre: 100 mm,
drilling diameter: Ø 10 mm,
mounting: glue

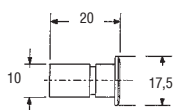
Article-no.	Colour
9730.05	gold
9730.15	nickel satin
9730.03	chrome satin

Specification

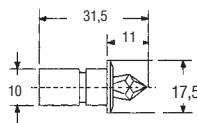
material: brass,
outer diameter: Ø 17.5 mm,
material thickness outer ring: 1.5 mm,
installation depth without fibre: 19 mm,
installation depth with fibre: 100 mm,
drilling diameter: Ø 10 mm,
mounting: glue

Article-no.	Colour
9729.05	gold
9729.15	nickel satin
9729.03	chrome satin

9728...
light exit element for fibre S2 and S2M



9731...
light exit element with crystal for fibre S2 to S33M



Specification

material: brass,
outer diameter: Ø 17,5 mm,
material thickness outer ring: 1,5 mm,
installation depth without fibre: 20 mm,
installation depth with fibre: 100 mm,
drilling diameter: Ø 10 mm,
mounting: glue

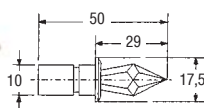
Article-no.	Colour
9728.05	gold
9728.15	nickel satin
9728.03	chrome satin

Specification

material: brass / crystal glass with
facetting, outer diameter: Ø 17,5 mm,
height without crystal: 1,5 mm,
installation depth without fibre: 20 mm,
installation depth with fibre: 100 mm,
drilling diameter: Ø 10 mm,
mounting: glue

Article-no.	Colour
9731.05	gold
9731.15	nickel satin
9731.03	chrome satin

9733...
light exit element with crystal for fibre S2 to S33M



Specification

material: brass / crystal glass with
facetting, outer diameter: Ø 17,5 mm,
height without crystal: 1,5 mm,
installation depth without fibre: 20 mm,
installation depth with fibre: 100 mm,
drilling diameter: Ø 10 mm,
mounting: glue

Article-no.	Colour
9733.05	gold
9733.15	nickel satin
9733.03	chrome satin

Specification

material: brass
drilling diameter: Ø 12,7 - 13 mm
depending on material
length: approx. 30 mm

Article-no.
973500

973500
mounting sleeve for 9728 to 9733



48290000
Glue for mounting sleeves



Specification

1 x Weicon contact glue
12 g

Article-no.
48290000

90199
fibre-installation kit



Specification

Consisting of:
1 x cutting tool for fibre S0, S2 und S3
10x set with bits for fibre S0
1 x UHU wood glue
1 x UHU plus sofortfest, 2-component-glue

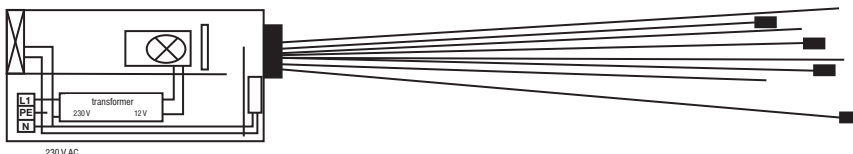
Article-no.
90199

Modern light technology

with PMMA-plastic-fibre

This creative lighting technology is composed of three different main components

1. the light source (230 V AC / 50 Hz)
 - Plug-in box for connection to a conventional 230 V socket
 - Halogen technology with colour wheels for special effects
 - LED technology with low energy consumption and high technical life span
 - a compact construction
 - dimmable and controllable by different control technologies
 - colour control
2. the fibre
 - natural light transfer
 - High flexibility because of the small bending radius
 - maximum fibre quantity per projector
500 x S0 (Ø 1,0 mm); 150 x S2 (Ø 2,0 mm); 50 x S3 (Ø 3,0 mm); 25 x S19 (Ø 5,0 mm); 15 x S33 (Ø 7,0 mm)
 - The combination of different fibres is possible
3. the different sleeves and light exit elements
 - potential-free
 - light without temperature
 - without UV / IR radiation
 - simple assembling
 - A big choice of decoration elements and technical end fittings



The fibre combines amazing features

- It transmits the light over many metres (max. 20 m) in a constant light quality.
- It carries no electricity, nor does it transmit ultraviolet or infrared radiation.
- In the wide spectrum of electromagnetic radiation, the human eye is able to make visible only a small part of 380 up to 780 nm.
- Exactly this part is carried by the PMMA- fibre.
- The light transfer is based on total reflection:



The fibre solely transfers light, which means: no voltage and no temperature.

This results from:

- The electrical separation of light source and light exit
- No electrical potential at the light exit
- Laborious safety measures at the light exit not necessary
- No temperature at the light exit (no discolouration of ceiling)
- For temperature (ta) < 80° C.
- The fibre should solely be fixed by glue from our product range.
- If the fibre is to be installed outdoors, the sheathed fibre must be used (as mechanical protection as well as protection against solar radiation (ultraviolet radiation))
- Feeding a projector with up to of 500 fibres (1,0 mm), it is characterized by a high efficiency with low power consumption.
- **It is possible to combine different sizes and lengths of fibre (S0 – S33M) in one connector (item no. 900000). Compose your own personal fibre bundle.**

Our planning department will be at your disposal at any time!

Maximum bunching per connector (fibres)

S0	S2	S3	S1	S2M	S3M	S19M	S33M	S50M
500	150	50	300	130	45	25	15	8

fibre installation

5 simple steps

1. Arrange the light points and drill the holes

We recommend 50 fibres/m² for ceiling dimensions up to 10m². For greater dimensions 30 to 40 fibres/m² are enough. Easy installation of fibre: drill a 1.2 to 1.3mm hole for a 1.0mm fibre. For a smooth optic without swerving please drill beginning at the visible surface.

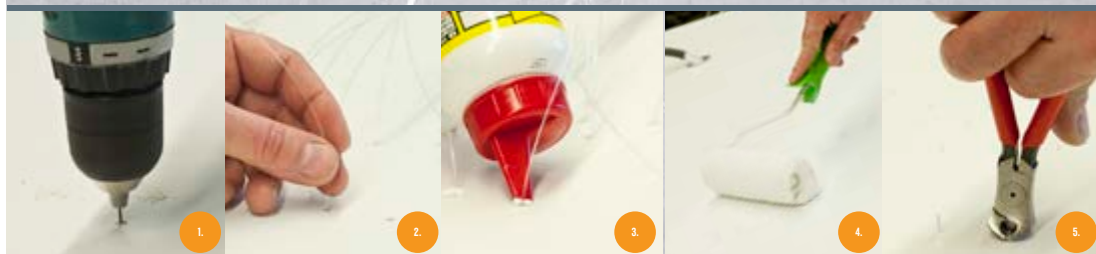
2. Put the fibers from the backside into the holes.

Be aware that the fibres project over the edge of the panel. They are cut in a later step.

3. Stick the fibres from the upside of the ceiling panel.

4. Optionally do a ceiling coating.

5. Cut the fibres from the downside of the ceiling panel (they have to stick out 3-5 mm).



Installation of the fibre optical arrangements

- we advise installing the projector to a place where you are able to change the bulb at any time.
- by placing the projector in the central position of the object, you get the smallest fibre length.
- for easy installation of the bundle, we advise having a free space of 30 cm from the connectors feed in.
- the source can be connected by a conventional socket or a ceiling socket.
- Please note that the fibres are resistant until a temperature of 90° C only.
- Please fix the fibres on the back with glue from our product range.



FIELD OF APPLICATION

- Indoor:
offices, lifts, lobbies, handrails, starry skies, signs,
allround-lighting
- Outdoor:
facades, stairs, columns, canopies, fountains, billboards,
direction signs
- Public areas:
art galleries, museums, parks, stadiums, bridges, airports,
churches, hospitals

Outdoor

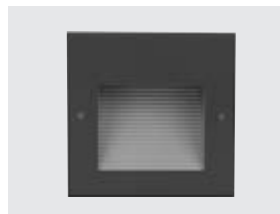
recessed ceiling spots

576



wall recessed lights

586



ground recessed spots

588



earth spike

606





surface mounted ceiling lights

608



surfce mounted wall lights

610

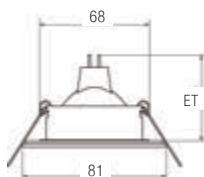


bollard luminaire

624

26004220 / 36004220 / 12004223 / 33004223

Stainless steel spot A4/AISI



Base model low voltage

For low voltage lamp: 1 x GX5,3 QRCBC51, power: max. 50 W, material: stainless steel A4/AISI 316 / clear glass

Low - voltage driver see page 645.

Energy efficiency class: A to C

Article-no. Colour of cabinet

26004220 stainless steel

Base model high-voltage for retrofit

For high voltage lamp: 1 x GU10 QPAR51, power: max. 50 W, HV-clamp included, material: stainless steel A4/AISI 316 / clear glass

Energy efficiency class: A++ to E

Article-no. Colour of cabinet

36004220 stainless steel



Base model LED 350 mA

Incl. light source: 1 x LED, power: 6,6 W, beam angle: 38°, material: stainless steel A4/AISI 316 / clear glass / aluminium

Dimmable driver see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
12004223	stainless steel	2700 K

modular construction: further light colors and power outputs are available on demand

LED-Set, including driver

Incl. light source: 1 x LED, power: 6.6 W, beam angle: 38°, incl. driver for 230 V-connection, not dimmable, dimension driver: length 68 x width 35 x height 21 mm, material: stainless steel A4/AISI 316 / clear glass / aluminium

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
33004223	stainless steel	2700 K

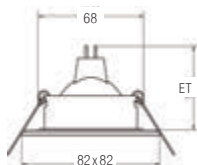
modular construction: further light colors and power outputs are available on demand



26005220 / 36005220 / 12005223 / 33005223
Stainless steel spot A4/AISI



*IP54 if installed in closed ceilings



Base model low voltage

For low voltage lamp: 1 x GX5,3 QRCBC51, power: max. 50 W, material: stainless steel A4/AISI 316 / clear glass

Low - voltage driver see page 645.

Energy efficiency class: A to C

Article-no. Colour of cabinet

26005220 stainless steel

Base model high-voltage for retrofit

For high voltage lamp: 1 x GU10 QPAR51, power: max. 50 W, HV-clamp included, material: stainless steel A4/AISI 316 / clear glass

Energy efficiency class: A++ to E

Article-no. Colour of cabinet

36005220 stainless steel



Base model LED 350 mA

Incl. light source: 1 x LED, power: 6.6 W, beam angle: 38°, material: stainless steel A4/AISI 316 / clear glass / aluminium

Dimmable driver see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
12005223	stainless steel	2700 K

modular construction: further light colors and power outputs are available on demand

LED-Set, including driver

Incl. light source: 1 x LED, power: 6.6 W, beam angle: 38°, incl. driver for 230 V-connection, not dimmable., dimension driver: length 68 x width 35 x height 21 mm, material: stainless steel A4/AISI 316 / clear glass / aluminium

Energy efficiency class: A++ to A

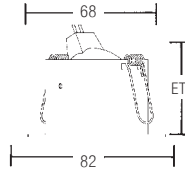
This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
33005223	stainless steel	2700 K

modular construction: further light colors and power outputs are available on demand



2337.42 / 36195420 / 12195423 / 33195423
Stainless steel spot A4/AISI



Glare limitation by recessed bulb

Base model low voltage

For low voltage lamp: 1 x GX5,3 QRCBC51, power: max. 50 W, material: stainless steel A4/AISI 316

Low - voltage driver see page 645.

Energy efficiency class: A to C

Article-no.	Colour of cabinet
2337.42	stainless steel

Base model high-voltage for retrofit

For high voltage lamp: 1 x GU10 QPAR51, power: max. 50 W, material: stainless steel A4/AISI 316, HV-clamp included

Energy efficiency class: A++ to E

Article-no.	Colour of cabinet
36195420	stainless steel



Base model LED 350 mA

Incl. light source: 1 x LED, power: 6,6 W, beam angle: 38°, material: stainless steel A4/AISI 316 / clear glass / aluminium

Dimmable driver see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
12195423	stainless steel	2700 K

modular construction: further light colors and power outputs are available on demand

LED-Set, including driver

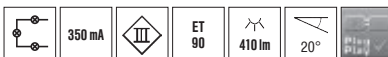
Incl. light source: 1 x LED, power: 6,6 W, beam angle: 38°, material: stainless steel A4/AISI 316 / clear glass / aluminium, incl. driver for 230 V - connection, not dimmable, dimension driver: length 68 x width 35 x height 21 mm

Energy efficiency class: A++ to A

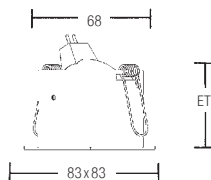
This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	colour temperature
33195423	stainless steel	2700 K

modular construction: further light colors and power outputs are available on demand



2338.42 / 36196420 / 12196423 / 33196423
Stainless steel spot A4/AISI



Glare limitation by recessed bulb

Base model low voltage

For low voltage lamp: 1 x GX5,3 QRCBC51, power: max. 50 W, material: stainless steel A4/AISI 316

Low - voltage driver see page 645.

Energy efficiency class: A to C

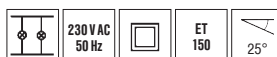
Article-no.	Colour of cabinet
2338.42	stainless steel

Base model high-voltage for retrofit

For high voltage lamp: 1 x GU10 QPAR51, power: max. 50 W, material: stainless steel A4/AISI 316, HV-clamp included

Energy efficiency class: A++ to E

Article-no.	Colour of cabinet
36196420	stainless steel



Base model LED 350 mA

Incl. light source: 1 x LED, power: 6,6W, beam angle: 38°, material: stainless steel A4/AISI 316 / clear glass / aluminium

Dimmable driver see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	colour temperature
12196423	stainless steel	2700 K ●

modular construction: further light colors and power outputs are available on demand

LED-Set, including driver

Incl. light source: 1 x LED, power: 6,6W, beam angle: 38°, material: stainless steel A4/AISI 316 / clear glass / aluminium, incl. driver for 230 V - connection, not dimmable, dimension driver: length 68 x width 35 x height 21 mm

Energy efficiency class: A++ to A

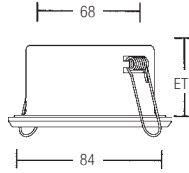
This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	colour temperature
33196423	stainless steel	2700 K ●

modular construction: further light colors and power outputs are available on demand



2339.42 / 36306420 / 12306423 / 33306423
Stainless steel spot A4/AISI



*IP65 if installed in closed ceilings

Base model low voltage

For low voltage lamp: 1 x GX5,3 QRCBC51, power: max. 50 W, material: stainless steel A4/AISI 316 / glass frosted

Low - voltage driver see page 645.

Energy efficiency class: A to C

Article-no.	Colour of cabinet
2339.42	stainless steel

Base model high-voltage for retrofit

For high voltage lamp: 1 x GU10 QPAR51, power: max. 50 W, material: stainless steel A4/AISI 316 / glass frosted, HV-clamp included

Energy efficiency class: A++ to E

Article-no.	Colour of cabinet
36306420	stainless steel



Base model LED 350 mA

Incl. light source: 1 x LED, power: 6,6 W, beam angle: 38°, material: stainless steel A4/AISI 316 / glass frosted / clear glass / aluminium

Dimmable driver see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	colour temperature
12306423	stainless steel	2700 K ●

modular construction: further light colors and power outputs are available on demand

LED-Set, including driver

Incl. light source: 1 x LED, power: 6,6 W, beam angle: 38°, material: stainless steel A4/AISI 316 / glass frosted / clear glass / aluminium, incl. driver for 230 V-connection, not dimmable., dimension driver: length 68 x width 35 x height 21 mm

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	colour temperature
33306423	stainless steel	2700 K ●

modular construction: further light colors and power outputs are available on demand

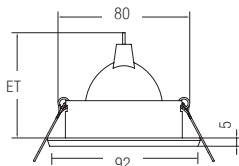


37001... / 36156... / 12156... / 33156...
Stainless steel A4 / AISI / copper Spot



*IP65 if installed in closed ceilings

Note: Natural oxidation for copper version possible.



Base model low voltage

For low voltage lamp: 1 x GX5,3 QRCBC51, power: max. 35 W, material: stainless steel A4/AISI 316 / clear glass and copper / clear glass

Low - voltage driver see page 645.

Energy efficiency class: A to C

Article-no. Colour of cabinet

37001190	copper
37001200	stainless steel A4/AISI 316 clear powdered

Base model high-voltage for retrofit

For high voltage lamp: 1 x GU10 QPAR51, power: max. 35 W, material: stainless steel A4/AISI 316 / clear glass and copper / clear glass, HV-clamp included

Energy efficiency class: A++ to E

Article-no. Colour of cabinet

36156190	copper
36156200	stainless steel A4/AISI 316 clear powdered



Base model LED 350 mA

Incl. light source: 1 x LED, power: 6,6 W, beam angle: 38°, material: stainless steel A4/AISI 316 / clear glass / aluminium and copper/ clear glass / aluminium

Dimmable driver see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
12156193	copper	2700 K
12156203	stainless steel A4/AISI 316 clear powdered	2700 K

modular construction: further light colors and power outputs are available on demand

LED-Set, including driver

Incl. light source: 1 x LED, power: 6,6 W, beam angle: 38°, material: stainless steel A4/AISI 316 / clear glass / aluminium and copper/ clear glass / aluminium, incl. driver for 230 V - connection, Not dimmable., dimension driver: length 68 x width 35 x height 21 mm

Energy efficiency class: A++ to A

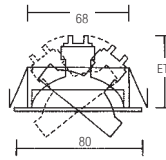
This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
33156193	copper	2700 K
33156203	stainless steel A4/AISI 316 clear powdered	2700 K

modular construction: further light colors and power outputs are available on demand



1180.22 / 36147220 / 12147223 / 33147223
 Stainless steel spot A4/AISI



Base model low voltage

For low voltage lamp: 1 x GX5,3 QRCBC51, power: max. 50 W, material: stainless steel A4/AISI 316

Low - voltage driver see page 645.

Energy efficiency class: A to C

Article-no.	Colour of cabinet
1180.22	stainless steel



Base model high-voltage for retrofit

For high voltage lamp: 1 x GU10 QPAR51, power: max. 50 W, material: stainless steel A4/AISI 316, HV-clamp included

Energy efficiency class: A++ to E

Article-no.	Colour of cabinet
36147220	stainless steel



Base model LED 350 mA

Incl. light source: 1 x LED, power: 6,6 W, beam angle: 38°, material: stainless steel A4/AISI 316 / clear glass / aluminium

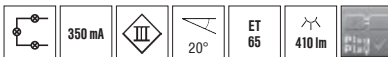
Dimmable driver see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
12147223	stainless steel	2700 K ●

modular construction: further light colors and power outputs are available on demand



LED-Set, including driver

Incl. light source: 1 x LED, power: 6,6 W, beam angle: 38°, material: stainless steel A4/AISI 316 / clear glass / aluminium, incl. driver for 230 V - connection, not dimmable, dimension driver: length 68 x width 35 x height 21 mm

Energy efficiency class: A++ to A

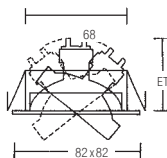
This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
33147223	stainless steel	2700 K ●

modular construction: further light colors and power outputs are available on demand



1181.22 / 36148220 / 12148223 / 33148223
Stainless steel spot A4/AISI



Base model low voltage

For low voltage lamp: 1 x GX5,3 QRCBC51, power: max. 50 W, material: stainless steel A4/AISI 316

Low - voltage driver see page 645.

Energy efficiency class: A to C

Article-no.	Colour of cabinet
1181.22	stainless steel



Base model high-voltage for retrofit

For high voltage lamp: 1 x GU10 QPAR51, power: max. 50 W, material: stainless steel A4/AISI 316, HV-clamp included

Energy efficiency class: A++ to E

Article-no.	Colour of cabinet
36148220	stainless steel



Base model LED 350 mA

Incl. light source: 1 x LED, power: 6,6 W, beam angle: 38°, material: stainless steel A4/AISI 316 / clear glass / aluminium

Dimmable driver see page 629.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	colour temperature
12148223	stainless steel	2700 K ●

modular construction: further light colors and power outputs are available on demand



LED-Set, including driver

Incl. light source: 1 x LED, power: 6,6 W, beam angle: 38°, material: stainless steel A4/AISI 316 / clear glass / aluminium, incl. driver for 230 V - connection, not dimmable, dimension driver: length 68 x width 35 x height 21 mm

Energy efficiency class: A++ to A

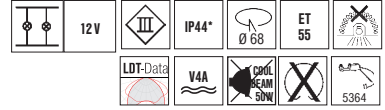
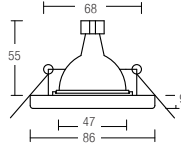
This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
33148223	stainless steel	2700 K ●

modular construction: further light colors and power outputs are available on demand



2225.42
Stainless steel spot A4/AISI



*IP44 if installed in closed ceilings

Specification

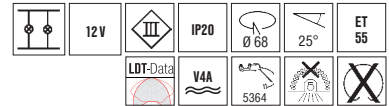
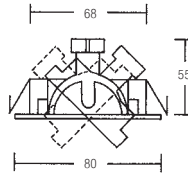
For lamp: 1 xGX5,3 QRC51, power: max. 50 W, material: stainless steel A4/AISI 316 / clear glass

Low - voltage driver see page 645.

Energy efficiency class: A to C

Article-no.	Colour of cabinet
2225.42	stainless steel

1925.42
Stainless steel spot A4/AISI



Specification

For lamp: 1 x GX5,3 QRCBC51, power: max. 50 W, material: stainless steel A4/AISI 316

Low - voltage driver see page 645.

Energy efficiency class: A to C

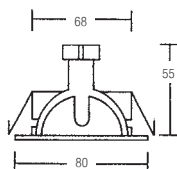
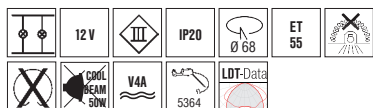
Article-no.	Colour of cabinet
1925.42	stainless steel



Privathaus, Sundern (Germany)

1924.42

Stainless steel spot A4/AISI



Specification

For lamp: 1 x GX5,3 QRC51, power: max. 35 W, material: stainless steel A4/AISI 316

Low - voltage driver see page 645.

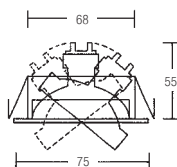
Energy efficiency class: A to C

Article-no. Colour of cabinet

1924.42 stainless steel

1191.42

Stainless steel spot A4/AISI



Specification

For lamp: 1 x GX5,3 QRC51, power: max. 50 W, material: stainless steel A4/AISI 316,

Low - voltage driver see page 645.

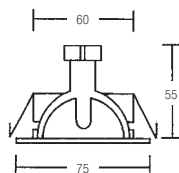
Energy efficiency class: A to C

Article-no. Colour of cabinet

1191.42 stainless steel

1190.42

Stainless steel spot A4/AISI



Specification

For lamp: 1 x GX5,3 QRC51, power: max. 50 W, material: stainless steel A4/AISI 316

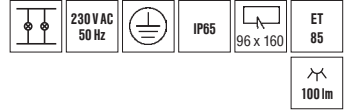
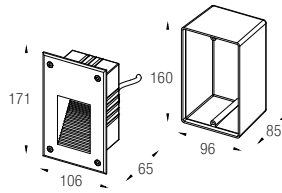
Low - voltage driver see page 645.

Energy efficiency class: A to C

Article-no. Colour of cabinet

1190.42 stainless steel

60207183
wall-recessed LED light



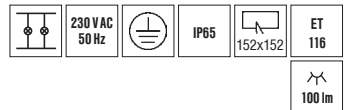
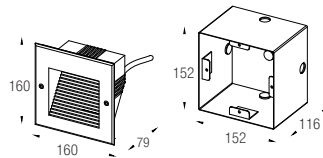
Specification

Incl. light source: LED-SMD, warm white
power: 2 W, material: aluminium

Energy efficiency class: A++ to A
This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
60207183	textured black	3000 K ●

60208183
wall-recessed LED light



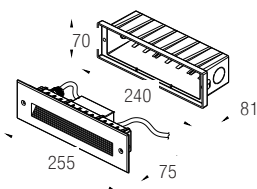
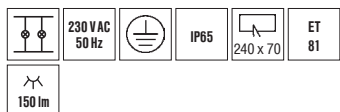
Specification

Incl. light source: LED-SMD, warm white
power: 2 W,
material: aluminium

Energy efficiency class: A++ to A
This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
60208183	textured black	3000 K ●

60205183
wall-recessed LED light



Specification

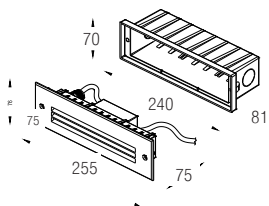
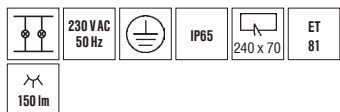
Incl. light source: LED-SMD, warm white
power: 3 W, material: aluminium

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
60205183	textured black	3000 K ●

60206183
wall-recessed LED light



Specification

Incl. light source: LED-SMD, warm white
power: 3 W, beam angle: 120°
material: aluminium

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

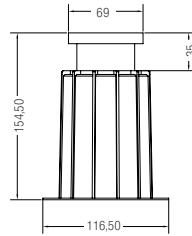
Article-no.	Colour of cabinet	Colour temperature
60206183	textured black	3000 K ●

14033083

Ground recessed LED luminaire



NEW



	230 V AC 50Hz		IP65	 Ø 120
ET 154,5			 350 lm	

Specification

Incl. light source: LED, power: 5 W, beam angle: 24°, with power supply unit to connect to 230 V main voltage, material: aluminium / glass / plastic, incl. 300 mm connection, not dimmable.

Article-No.	Cover	Colour temperature
14033083	black glass	3000 K ●

Energy efficiency class: A++ to A

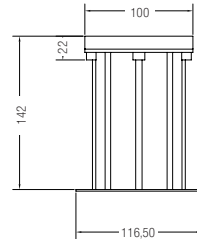
This luminaire contains incorporated and non-exchangeable LED light sources.

14030083

Ground recessed LED luminaire



NEW



	230 V AC 50Hz		IP65	 Ø 120
ET 142			 420 lm	

Specification

Incl. light source: LED, power: 6 W, with power supply unit to connect to 230 V main voltage, material: aluminium / glass / plastic, beam angle: 24°, incl. 300 mm connection, not dimmable.

Article-No.	Cover	Colour temperature
14030083	black glass	3000 K ●

Energy efficiency class: A++ to A

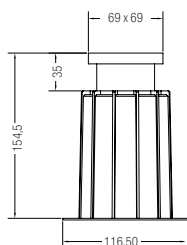
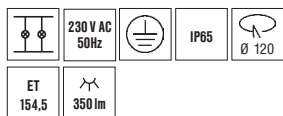
This luminaire contains incorporated and non-exchangeable LED light sources.



flushfloor installation

14034083

Ground recessed LED luminaire



NEW

Specification

Incl. light source: LED, power: 5 W, with power supply unit to connect to 230 V main voltage, material: aluminium / glass / plastic, beam angle: 24°, incl. 300 mm connection, not dimmable.

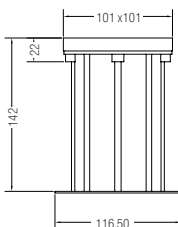
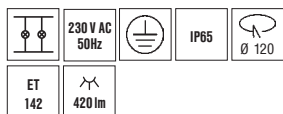
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Cover	Colour temperature
14034083	black glass	3000 K ●

14031083

Ground recessed LED luminaire



NEW

Specification

Incl. light source: LED, power: 6 W, with power supply unit to connect to 230 V main voltage, material: aluminium / glass / plastic, beam angle: 24°, incl. 300 mm connection, not dimmable.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

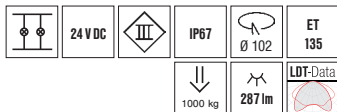
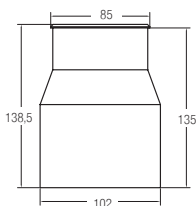
Article-No.	Cover	Colour temperature
14031083	black glass	3000 K ●

flushfloor installation



14021223

Ground recessed LED luminaire



Specification

Incl. light source: 1 x LED, power: 7 W, beam angle: 28°, material: stainless steel / aluminium / clear glass, incl. 500 mm connection cable

Driver see page 640.

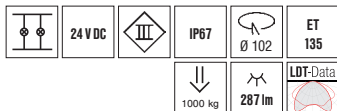
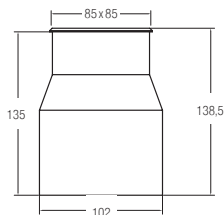
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	colour temperature
14021223	stainless steel	3000 K ●

14022223

Ground recessed LED luminaire



Specification

Incl. light source: 1 x LED, power: 7 W, beam angle: 28°, material: stainless steel / aluminium / clear glass, incl. 500 mm connection cable

Driver see page 640.

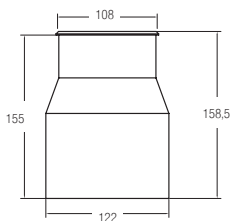
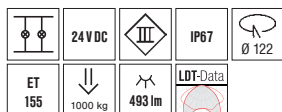
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	colour temperature
14022223	stainless steel	3000 K ●

14023223

Ground recessed LED luminaire



Specification

Incl. light source: 1 x LED, power: 10W, beam angle: 40°, material: stainless steel / aluminium / clear glass, incl. 500 mm connection cable

Article-no.	Colour of cabinet	colour temperature
14023223	stainless steel	3000 K ●

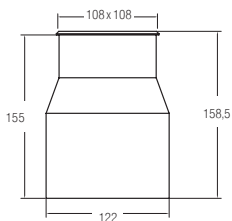
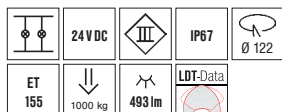
Driver see page 640.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

14024223

Ground recessed LED luminaire



Specification

Incl. light source: 1 x LED, power: 10W, beam angle: 40°, material: stainless steel / aluminium / clear glass, incl. 500 mm connection cable

Article-no.	Colour of cabinet	colour temperature
14024223	stainless steel	3000 K ●

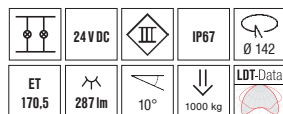
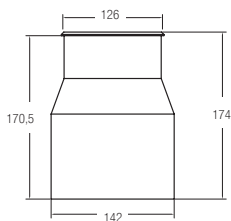
Driver see page 640.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

14025223

Ground recessed LED luminaire



Specification

Incl. light source: 1 x LED, power: 7 W,
beam angle: 28°, material: stainless steel /aluminium / clear glass, incl. 500 mm
connection cable

Driver see page 640.

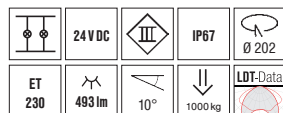
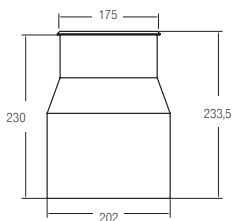
Energy efficiency class: A++ to A

This luminaire contains incorporated and
non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
14025223	stainless steel	3000 K ●

14026223

Ground recessed LED luminaire



Specification

Incl. light source: 1 x LED, power: 11 W, beam angle: 40°, material: stainless steel /
aluminium / clear glass, incl. 500 mm connection cable

Driver see page 640.

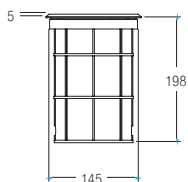
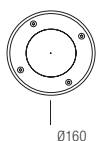
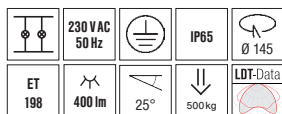
Energy efficiency class: A++ to A

This luminaire contains incorporated and
non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
14026223	stainless steel	3000 K ●

14014223

Ground recessed LED luminaire



Specification

Incl. light source: LED, warm white,
power: 5 W, beam angle: 38°,
material: stainless steel /aluminium / clear glass,
incl. driver for 230 V - connection, not dimmable.

Article-no.	Colour of cabinet	Colour temperature
14014223	stainless steel	2700 K ●

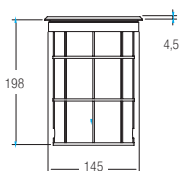
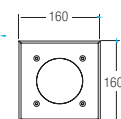
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Modular construction: further colour temperatures and power varieties on demand.

14016223

Ground recessed LED luminaire



Specification

Incl. light source: LED, warm white,
power: 5 W, beam angle: 38°,
material: stainless steel /aluminium / clear glass,
incl. driver for 230 V - connection, not dimmable.

Article-no.	Colour of cabinet	Colour temperature
14016223	stainless steel	2700 K ●

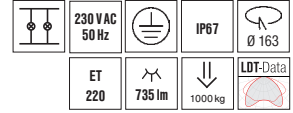
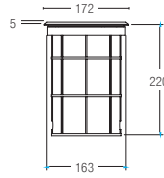
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Modular construction: further colour temperatures and power varieties on demand.

14017223

Ground recessed LED luminaire



Specification

Incl. light source: LED, warm white, power: 10 W
 beam angle: 24°, material: stainless steel /
 aluminium / clear glass, incl. connection cable
 500 mm 3 x 1,0 mm²

Article-no.	Colour of cabinet	Colour temperature
14017223	stainless steel	3000 K ●

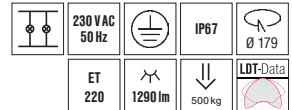
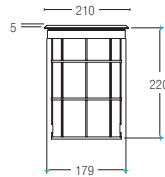
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Not dimmable.

14018223

Ground recessed LED luminaire



Specification

Incl. light source: LED, warm white, power: 18 W,
 beam angle: 24°, material: stainless steel /
 aluminium / clear glass, incl. connection cable
 500 mm 3 x 1,0 mm²

Article-no.	Colour of cabinet	Colour temperature
14018223	stainless steel	3000 K ●

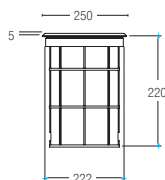
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Not dimmable.

14019223

Ground recessed LED luminaire



Specification

Incl. light source: LED, warm white, power: 25 W, beam angle: 24°, material: stainless steel / aluminium / clear glass, incl. connection cable 500 mm 3 x 1,0 mm²

Article-no.	Colour of cabinet	Colour temperature
14019223	stainless steel	3000 K ●

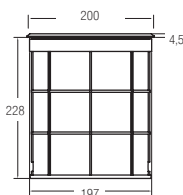
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Not dimmable.

14007223

Ground recessed LED luminaire



Specification

Incl. light source: 6 x LED, power in total: 17,1 W, beam angle: 30°, material: stainless steel / aluminium / clear glass, incl. driver for 230 V - connection, suitable for through-wiring

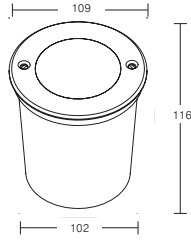
Article-no.	Colour of cabinet	Colour temperature
14007223	stainless steel	3000 K ●

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Not dimmable.

P3867...
Ground recessed LED luminaire



Specification

incl. light source: 3 x LED, power: approx. 4,2 W, material: stainless steel / aluminium / glass opal, mounting sleeve incl., incl. 1000 mm connection cable

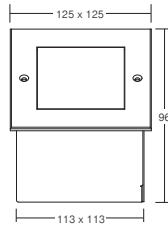
Driver see page 644.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	colour temperature
P3867W	stainless steel	6500 K ○
P3867NW	stainless steel	4100 K ●
P3867WW	stainless steel	3100 K ●

P3868...
Ground recessed LED luminaire



Specification

Incl. light source: 3 x power LED, power: approx. 4,2 W, material: stainless steel / plastic / aluminium / glass opal, mounting sleeve incl., incl. 1000 mm connection cable

Driver see page 644.

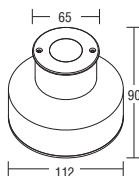
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	colour temperature
P3868W	stainless steel	6500 K ○
P3868NW	stainless steel	4100 K ●
P3868WW	stainless steel	3100 K ●

R3861...

Ground recessed LED luminaire



Specification

Incl. light source: 3 x LED,
power: approx. 4,2 W in total,
material: stainless steel / aluminium / glass satined, incl. mounting sleeve (ground cut-out 112 mm if using mounting sleeve), incl. 1000 mm connection cable

Driver see page 644.

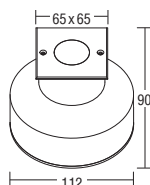
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature / light colour
R3861W	stainless steel	6500 K
R3861WW	stainless steel	3100 K
R3861B	stainless steel	
R3861R	stainless steel	
R3861Y	stainless steel	
R3861G	stainless steel	

R3862...

Ground recessed LED luminaire



Specification

Incl. light source: 3 x LED,
power: approx. 4,2 W in total,
material: stainless steel / aluminium / glass satined, incl. mounting sleeve (ground cut-out 112 mm if using mounting sleeve), incl. 1000 mm connection cable

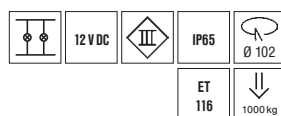
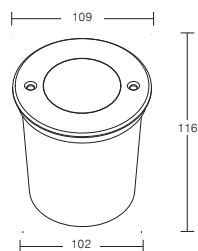
Driver see page 644.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature / light colour
R3862W	stainless steel	6500 K
R3862WW	stainless steel	3100 K
R3862B	stainless steel	
R3862R	stainless steel	
R3862Y	stainless steel	
R3862G	stainless steel	

P3863... Ground recessed LED luminaire



Specification

Incl. lightsource: 3 x LED, power 4,2W in total, beam angle 45°,
material: stainless steel / aluminium / plastic / clear glass, incl. mounting sleeve,
incl. 1000 mm connection cable.

Driver see page 644.

Energy efficiency class: A++ to A

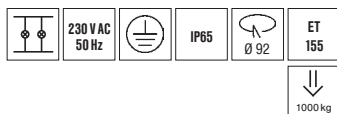
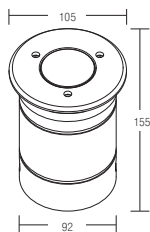
This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature	Flux
P3863W	stainless steel	6500 K ○	240 lm
P3863NW	stainless steel	4100 K	240 lm
P3863WW	stainless steel	3100 K ●	170 lm



Shopping Center, Nauheim (Germany)

P3825 Ground recessed LED luminaire



Specification

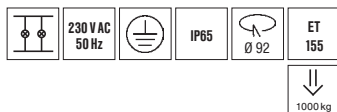
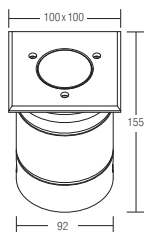
Incl. light source: 1 x LED, power: approx. 1 W, lens: 10°, material: stainless steel / plastic / clear glass, incl. mounting sleeve, incl. driver for 230 V-connection, 2 x M20, fitting for through wiring

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature / light colour
P3825W	stainless steel	6500 K
P3825WW	stainless steel	3100 K
P3825B	stainless steel	
P3825R	stainless steel	
P3825Y	stainless steel	
P3825G	stainless steel	

P3826 Ground recessed LED luminaire



Specification

Incl. light source: 1 x LED, power: approx. 1 W, lens: 10°, material: stainless steel / plastic / clear glass, incl. mounting sleeve, incl. driver for 230 V-connection, 2 x M20 fitting for through wiring

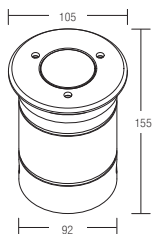
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	colour of carbinet	colour temperature / light colour
P3826W	stainless steel	6500K
P3826WW	stainless steel	3100K
P3826B	stainless steel	
P3826R	stainless steel	
P3826Y	stainless steel	
P3826G	stainless steel	

R3825...

Ground recessed LED luminaire



Specification

Incl. light source: 3 x LED, power: 3,3 W in total, lense: 45°, material: stainless steel / plastic / clear glass, incl. mounting sleeve, incl. driver for 230 V - connection, 2 x M20 for through-wiring

Energy efficiency class: A++ to A

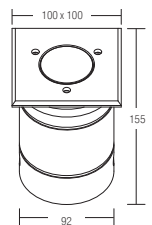
This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
R3825W	stainless steel	6500 K <input type="radio"/>
R3825NW	stainless steel	4100 K <input checked="" type="radio"/>
R3825WW	stainless steel	3100 K <input type="radio"/>

modular construction: further light colors and power outputs are available on demand

R3826...

Ground recessed LED luminaire



Specification

Incl. light source: 3 x LED, power: 3,3 W in total, lense 45°, material: stainless steel / plastic / clear glass, incl. mounting sleeve, incl. driver for 230 V - connection, 2 x M20 for through-wiring

Energy efficiency class: A++ to A

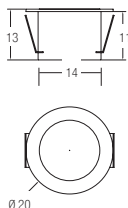
This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	colour temperature
R3826W	stainless steel	6500 K <input type="radio"/>
R3826NW	stainless steel	4100 K <input checked="" type="radio"/>
R3826WW	stainless steel	3100 K <input type="radio"/>

modular construction: further light colors and power outputs are available on demand

14011223

Ground recessed LED light point



Specification

Incl. light source: 1 x SMD-LED 5050
power: approx. 0,15 W
material: stainless steel / plastic opal

incl. 5000 mm, connection cable, extreme flat

Driver see page 644.

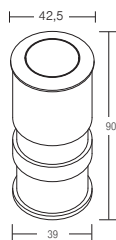
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
14011223	stainless steel	3000 K ●

P3817...

Ground recessed LED luminaire



Specification

Incl. light source: 1 x LED, power: approx 1 W,
material: stainless steel / aluminium / glass satined

incl. mounting sleeve, incl. 150 mm connection cable

Driver see page 628.

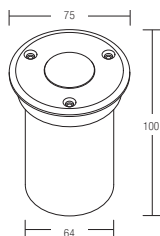
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature / light colour
P3817W	stainless steel	6500 K ○
P3817WW	stainless steel	3100 K ●
P3817B	stainless steel	●
P3817R	stainless steel	●
P3817Y	stainless steel	●
P3817G	stainless steel	●

P3816...

Ground recessed LED luminaire



Specification

Incl. light source: 1 x LED,
power: approx. 1 W,
material: stainless steel / glass sated

incl. mounting sleeve

Driver see page 628.

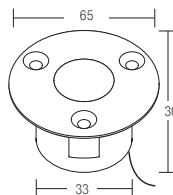
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	colour temperature / light colour
P3816W	stainless steel	6500 K
P3816WW	stainless steel	3100 K
P3816B	stainless steel	
P3816R	stainless steel	
P3816Y	stainless steel	
P3816G	stainless steel	

P3807...

Ground recessed LED luminaire



Specification

Incl. light source: 1 x LED,
power: approx. 1 W,
material: stainless steel / plastic opal

With mounting sleeve 3807, protection class IP65, installation depth 70 mm, must be ordered separately.

Walk-over, not drive-over resistant

Driver see page 628.

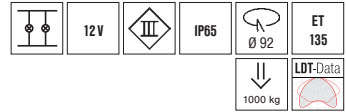
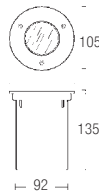
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature / light colour
P3807W	stainless steel	6500 K
P3807WW	stainless steel	3100 K
P3807B	stainless steel	
P3807R	stainless steel	
P3807Y	stainless steel	
P3807G	stainless steel	
3807		mounting sleeve

3101

Ground recessed low-voltage luminaire



Specification

For lamp: 1 x GX5,3 QRCB51, power: max. 35 W, material: stainless steel / clear glass, screwing: 2 x M20 for through-wiring, incl. mounting sleeve

Driver see page 645.

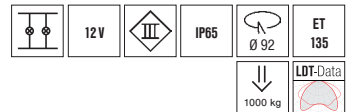
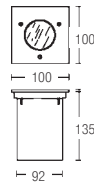
Energy efficiency class: A to C

Article-no.	Colour of cabinet
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3101	stainless steel
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3102

Ground recessed low-voltage luminaire



Specification

For lamp: 1 x GX5,3 QRCB51, power: max. 35 W, material: stainless steel / clear glass, screwing: 2 x M20 for through-wiring, incl. mounting sleeve

Driver see page 645.

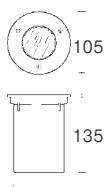
Energy efficiency class: A to C

Article-no.	Colour of cabinet
-------------	-------------------

3102	stainless steel
------	-----------------

3104

Ground recessed low-voltage luminaire



Specification

For lamp: GX5,3 QRCB51, power: max. 35 W,
material: stainless steel / satin glass,
screwing: 2 x M20
for through-wiring,
incl. mounting sleeve

Driver see page 645.

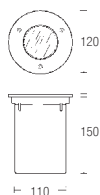
Energy efficiency class: A to C

Article-no.	Colour of cabinet
-------------	-------------------

3104	stainless steel
------	-----------------

3105

Ground recessed high-voltage luminaire



Specification

For lamp: 1 x GU10, max 5 W*
material: stainless steel / satin glass

screwing: 2 x M20 for through-wiring, incl. mounting sleeve

Energy efficiency class: A+

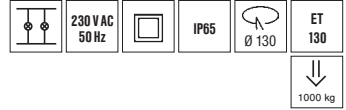
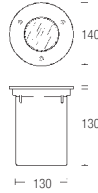
Article-no.	Colour of cabinet
-------------	-------------------

3105	stainless steel
------	-----------------

MEGAMAN®
EnergieSpaarlampen

*suitable for MEGAMAN LED-lamp
MM27432 & 26302

3128 High-voltage-in-ground light



Specification

For lamp: 1 x GX53, max. 5 W*,
material: stainless steel / satin glass

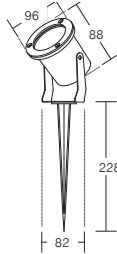
screwing: 2 x M20 for through-wiring, incl. mounting sleeve

Energy efficiency class: A++ to E

MEGAMAN*
EnergieSpurLampen
*suitable for MEGAMAN LED-lamp
MM27982

Article-no.	Colour of cabinet
3128	stainless steel

P3864... LED earth spike spot



Specification

Incl. light source: 3 x LED, power: 4,2 W in total, beam angle: 45°,
material: stainless steel / aluminium / plastic / clear glass, colour housing: stainless steel / RAL 9006, incl. 5000 mm connection cable

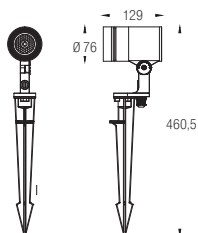
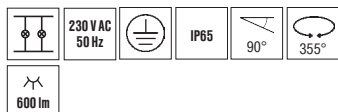
Driver see page 644.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour temperature	Flux
P3864W	6500 K ○	240 lm
P3864NW	4100 K ●	240 lm
P3864WW	3100 K ●	170 lm

60104183
LED earth-spike spot



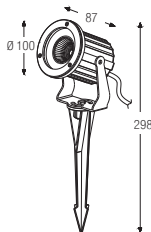
Specification

Incl. light source: LED,
power: 8 W, beam angle: 30°
material: aluminium / clear glass

Article-no.	Colour of cabinet	Colour temperature
60104183	textured black	3000 K

Not dimmable.
Incl. 2000 m connection cable with plug.
Energy efficiency class: A++ to A
This luminaire contains incorporated and non-exchangeable LED light sources.

60103223
LED earth-spike spot



Specification

Incl. light source: COB,
power: 6 W, beam angle: 40°,
material: stainless steel / aluminium / clear glass

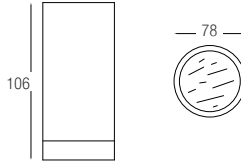
Article-no.	Colour of cabinet	Colour temperature
60103223	textured black / stainless steel	3000 K

Not dimmable.
incl. 2000 m connection cable with plug

Energy efficiency class: A++ to A
This luminaire contains incorporated and non-exchangeable LED light sources.

2315.22

High-voltage-surface mounted light - stainless steel A4/AISI



Specification

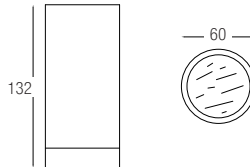
for lamp: 1 x GU10 QPAR51,
power: max. 35 W,
material: stainless steel A4/AISI 316 / clear glass

Article-no.	Colour of cabinet
2315.22	stainless steel

Energy efficiency class: A++ to E

2316.22

High-voltage surface mounted light - stainless steel A4/AISI



Specification

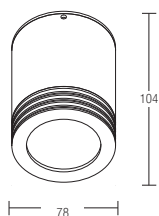
for lamp: 1 x GU10 QPAR51, power: max. 35 W,
material: stainless steel A4/AISI 316 / clear glass

Article-no.	Colour of cabinet
2316.22	stainless steel

Energy efficiency class: A++ to E

2315LED

surface mounted LED light - stainless steel A4/AISI



Specification

Incl. light source: 1x power LED, power: approx. 5 W, beam angle: 40, material: stainless steel A4/AISI 316 / clear glass, not dimmable, for 230 V-connection

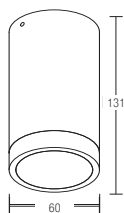
Article-no.	Colour of cabinet	Colour temperature
2315LED	stainless steel	2800 K ●

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

2316LED

surface mounted LED light - stainless steel A4/AIS



Specification

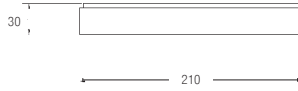
Incl. light source: 1x power LED, power: approx. 5 W, beam angle: 40, material: stainless steel A4/AISI 316 / clear glass, not dimmable, for 230 V-connection

Article-no.	Colour of cabinet	colour temperature
2316LED	stainless steel	2800 K ●

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

60106083
LED surface mounted light



Specification

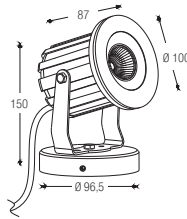
Incl. light source: 1 x LED,
power: 12 W, beam angle: 120°
material: cast / plastic, incl. inbuilt driver, not dimmable,
matt film suited to curing behind glass to satin on-site is included in scope of delivery

Article-no.	Colour of cabinet	Colour temperature
60106083	black	3000 K ●

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

60102223
LED ceiling or wall spot light



Specification

Incl. light source: 1 x LED,
power: 6 W, beam angle: 40°,
Material: aluminium / stainless steel / clear glass

Article-no.	Colour of cabinet	Colour temperature
60102223	black	3000 K ●

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

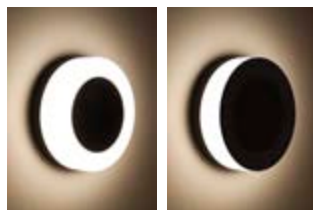
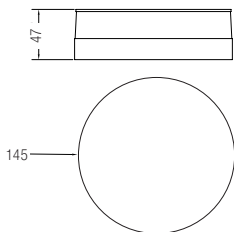
Not dimmable.



10030... LED wall mounted luminaire



NEW



Specification

Incl. light source: 1 x LED, power: 9 W,
material: aluminium / plastic opal,
incl. driver for connecting to 230 V supply voltage,
not dimmable.

With changeable front panel for purely direct light distribution
or direct / indirect light distribution. Both front panels (attached magnetically) are
contained in the shipment for on-site selection.

Energy efficiency class: A++ to A

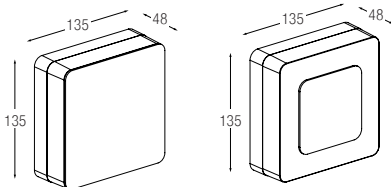
This luminaire contains incorporated and
non-exchangeable LED light sources.

Article no	Colour of cabinet	Colour temperature
10030173	textured white	3000 K
10030183	textured black	3000 K
10030693	textured silver	3000 K

10034... LED wall mounted luminaire



NEW



Specification

Incl. light source: 1 x LED, power: 9 W,
material: aluminium / plastic opal,
incl. driver for connecting to 230 V supply voltage,
not dimmable.

With changeable front panel for purely direct light distribution
or direct / indirect light distribution. Both front panels (attached magnetically) are
contained in the shipment for on-site selection.

Energy efficiency class: A++ to A

This luminaire contains incorporated and
non-exchangeable LED light sources.

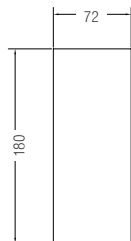
Article no	Colour of cabinet	Colour temperature
10034173	textured white	3000 K
10034183	textured black	3000 K
10034693	textured silver	3000 K





60017...

LED wall mounted luminaire



NEW

Specification

Incl. light source: LED, power: 2 x 4 W
 material: aluminium / clear glass,
 beam angle: 2 x 60°

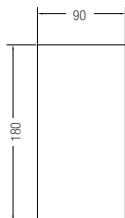
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of cabinet	Colour temperature
60017173	textured white	3000 K
60017183	textured black	3000 K

60018...

LED wall mounted luminaire



NEW

Specification

Incl. light source: LED, power: 2 x 4 W
 material: aluminium / clear glass,
 beam angle: 2 x 60°

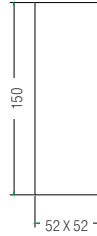
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of cabinet	Colour temperature
60018173	textured white	3000 K
60018183	textured black	3000 K

60037...
LED wall mounted luminaire

NEW



Specification

Incl. light source: LED, power: 2x 2 W
material: aluminium / clear glass,
beam angle: 2x 60°, rectangular design

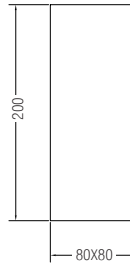
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of cabinet	Colour temperature
60037173	textured white	3000 K
60037183	textured black	3000 K

60038...
LED wall mounted luminaire

NEW



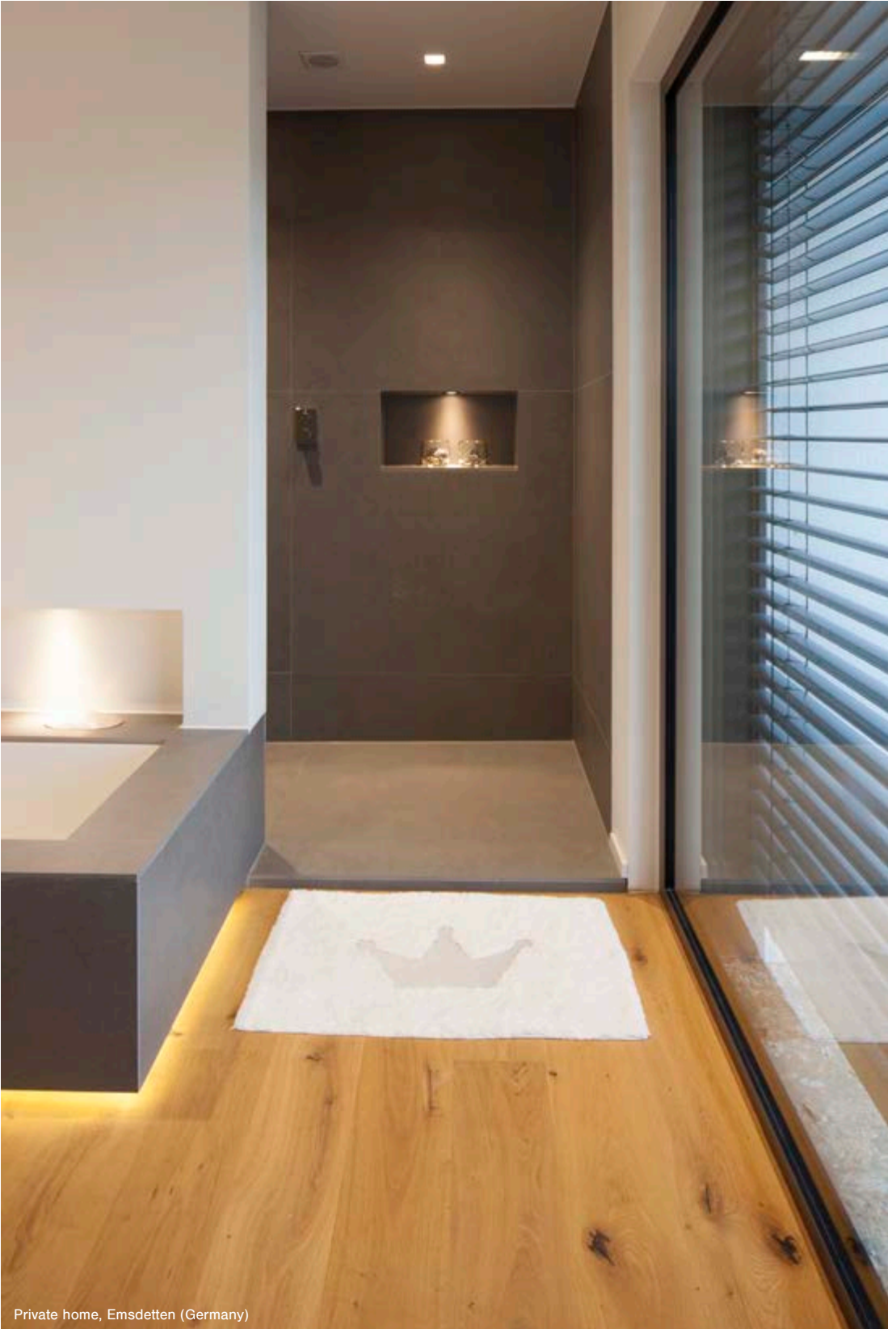
Specification

Incl. light source: LED, power: 2x 4 W
material: aluminium / clear glass,
beam angle: 2x 60°, rectangular design

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

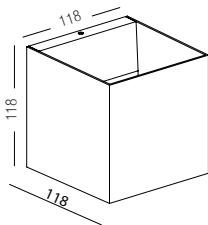
Article-No.	Colour of cabinet	Colour temperature
60038173	textured white	3000 K
60038183	textured black	3000 K



Private home, Emsdetten (Germany)

60025183 LED wall mounted luminaire

NEW



Specification

Incl. light source: LED, power: 10 W
material: aluminium / plastic clear, light distribution: direct / indirect

Incl. driver for 230V-connection.
Not dimmable.

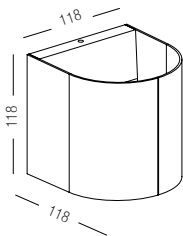
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of cabinet	Colour temperature
60025183	textured black	3000 K ●

60026183 LED wall mounted luminaire

NEW



Specification

Incl. light source: LED, power: 10 W
material: aluminium / plastic clear, light distribution: direct / indirect

Incl. driver for 230V-connection.
Not dimmable.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-No.	Colour of cabinet	Colour temperature
60026183	textured black	3000 K ●

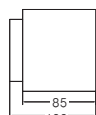




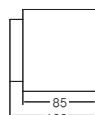
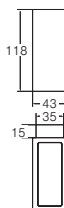
10013.../ 10033... LED wall mounted luminaire



NEW Up & Down



10013...



10033...



Specification

Incl. light source: 2x LED, 3000 K,
material: aluminium / clear glass,
with a power supply unit to connect to
230 V main voltage, not dimmable

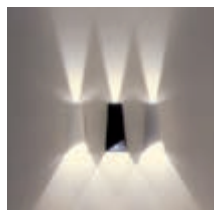
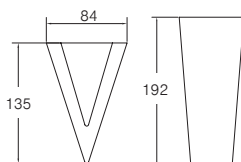
Energy efficiency class: A++ to A

This luminaire contains incorporated and
non-exchangeable LED light sources.

Article-No.	Colour of cabinet	Flux	Power
10013173	textured white	2x 218 lm	2x 3 W
10013103	textured graphite	2x 218 lm	2x 3 W
10033173	textured white	2x 365 lm	2x 5 W
10033103	textured graphite	2x 365 lm	2x 5 W

10031...

LED surface mounted wall light



Up & Down

Specification

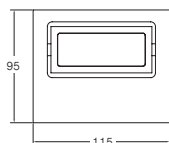
Incl. light source: 2 x power LED, power: 2 x 4W, material: aluminium/ glass.
Not dimmable. Incl. driver for 230 V -connection.

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	Colour temperature
10031173	textured white	3000 K
10031183	textured black	3000 K

10012173
LED wall light



Specification

Incl. light source: 1 x Power-LED,
material: aluminium / clear glass, about 3W,

incl. driver for 230 V -connection

adjustable light head

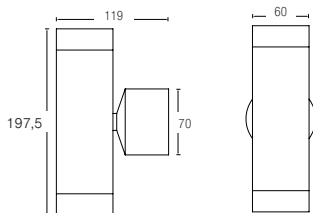
Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

Article-no.	Colour of cabinet	colour temperature
10012173	textured white	3000K

3177LED

LED wall light - stainless steel A4/AISI



Specification

Inkl. light source: 2 x LED (each 5 W), power: approx. 10 W
 material: stainless steel A4/AISI 316 / clear glass
 beam angle: 40°

Article-no.	Colour of cabinet	colour temperature
3177LED	stainless steel	2800 K ●

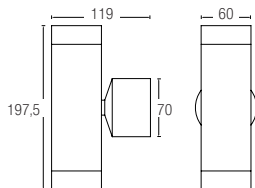
up & down

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

3177

High - voltage wall light - stainless steel A4/AISI



Specification

for lamp: 2 x GU10 QPAR51, power: max. 35 W
 material: stainless steel A4/AISI 316 / clear glass

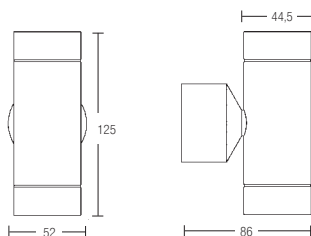
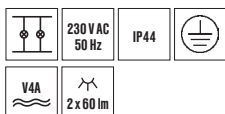
Article-no.	Colour of cabinet
3177	stainless steel

up & down

Energy efficiency class: A++ to E

10009425

LED wall light - stainless steel A4/AISI



Specification

Incl. light source: 2 x power LED, power: approx. 2 x 1 W, beam angle: 10°,
material: stainless steel A4/AISI 316 / clear glass,
incl. driver for 230V connection

up and down

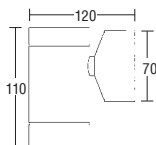
Energy efficiency class: A++ to A

This luminaire contains incorporated and
non-exchangeable LED light sources.

Article-no.	Colour of cabinet	colour temperature
10009425	stainless steel	6500 K ○

35001420

High-voltage wall light - stainless steel A4/AISI



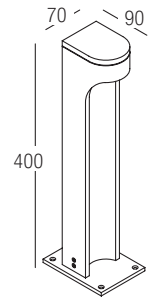
Specification

for lamp: 1 x GU10 QPAR51, power: max. 35 W
material: stainless steel A4/AISI 316 / clear glass

Energy efficiency class: A++ to E

Article-no.	Colour of cabinet
35001420	stainless steel

60002 LED bollard luminaire





NEW

Specification

Incl. light source: 1 x LED,
power: 7 W, material: aluminium, base measurement: l 120 x w 90 mm,
including 500 mm connection cable and driver to connecting to 230 V supply
voltage, not dimmable.

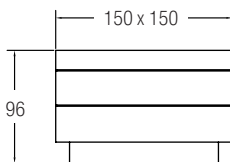
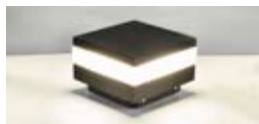
Energy efficiency class: A++ to A

This luminaire contains incorporated and
non-exchangeable LED light sources.

Article-No.	Colour of cabinet	Colour temperature
60002173	textured white	3000 K 
60002183	textured black	3000 K 

60023183

LED bollard luminaire



NEW

Specification

Incl. light source: LED, power: 1 x 10 W
 material: aluminium / plastic satin, incl. driver for 230 V -connection.
 Not dimmable.

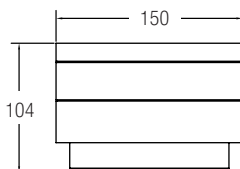
Article-no.	Colour of cabinet	colour temperature
60023183	textured black	3000 K

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

60024183

LED bollard luminaire



NEW

Specification

Incl. light source: LED, power: 1 x 8 W
 material: aluminium / plastic satin, incl. driver for 230 V -connection.
 Not dimmable.

Article-no.	Colour of cabinet	colour temperature
60024183	textured black	3000 K

Energy efficiency class: A++ to A

This luminaire contains incorporated and non-exchangeable LED light sources.

accessory part

350 mA

628



500 mA

633



700 mA

634



1000 mA

638





24 V DC

640



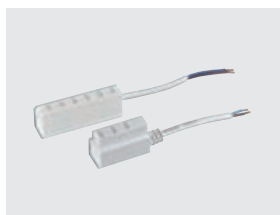
12 V DC

644



12 V AC

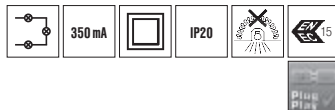
645



further accessoires

647

17666000 LED driver constant current 350 mA, not dimmable



series connexion, max. length of connection cable, on the secondary side 10 m

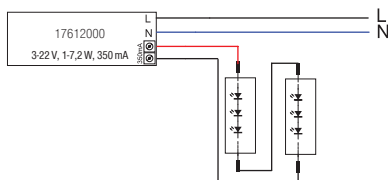
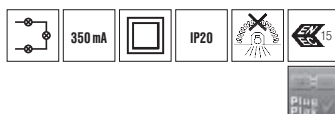
Specification

primary voltage: 120-370 V DC / 90-264 V AC, frequency: 50-60Hz, electrical feeding (in / out): 100/110 mm, ambient temperature (ta): -20° C to +50° C, (tc): max. 85° C, dimensions: 52 mm x 30 mm x 23 mm, material: plastic housing

built-in device
not dimmable

Article-no.	Secondary voltage	Power output
17666000	350 mA	1-5 W

17612000 LED driver constant current 350 mA, not dimmable



series connexion, max. length of connection cable, on the secondary side 10 m

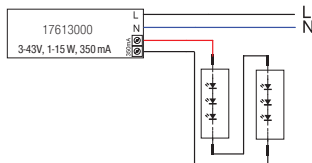
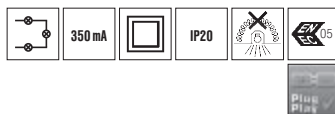
Specification

primary voltage: 120-370 V DC / 90-264 V AC, frequency: 50-60Hz, electrical feeding (out): 150 mm, ambient temperature (ta): -20° C to +50° C, (tc): max. 70° C, dimensions: 68 mm x 35 mm x 21 mm, material: plastic housing

with strain relief
not dimmable

Article-no.	Secondary voltage	Power output
17612000	350 mA	1 - 7,2 W

17613000 LED driver constant current 350 mA, not dimmable



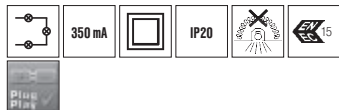
series connexion, max. length of connection cable, on the secondary side 10 m

Specification

primary voltage: 100-240 V AC, frequency: 50-60Hz, electrical feeding (out): 140mm, ambient temperature (ta): -25° C to +45° C, (tc): max. 75°, dimensions: 115mm x 34mm x 19mm, material: plastic housing

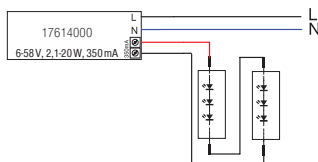
with strain relief
not dimmable

Article-no.	Secondary voltage	Power output
17613000	350 mA	1 - 15 W



series connexion, max. length of connection cable, on the secondary side 10 m

17614000
LED driver constant current 350 mA, not dimmable

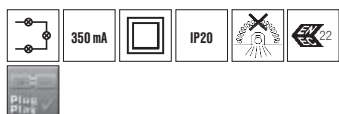


Specification

primary voltage: 90-264 V AC, frequency: 50-60 Hz, electrical feeding (out): 140 mm, ambient temperature (ta): -20° C to +50° C, (tc): max. 90° C, dimensions: 145 mm x 50 mm x 22 mm, material: plastic housing

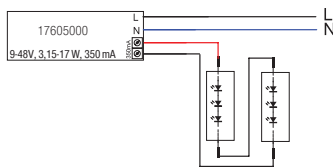
Article-no.	Secondary voltage	Power output
17614000	350 mA	2-20 W

with strain relief
not dimmable



series connexion, max. length of connection cable, on the secondary side 10 m

17605000
LED driver constant current 350 mA, not dimmable



Specification

primary voltage: 190-240 V DC / 220-240 V AC, frequency: 50-60 Hz, electrical feeding (out): 130 mm, ambient temperature (ta): -20° C to +50° C, (tc): max. 80° C, dimensions: 180 mm x 32 mm x 32 mm, material: plastic housing

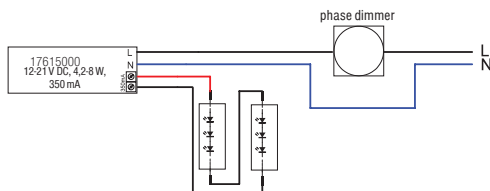
Article-no.	Secondary voltage	Power output
17605000	350 mA	3,15-17 W

with strain relief
not dimmable



series connexion, max. length of connection cable, on the secondary side 10 m

17615000
LED driver constant current 350 mA, dimmable by leading- or trailing edge



Specification

primary voltage: 220-240 V AC, frequency: 50-60 Hz, electrical feeding (out): 150 mm, ambient temperature (ta): max. +50° C, (tc): max. 85° C, dimensions: 122 mm x 39 mm x 18 mm, material: plastic housing

Article-no.	Secondary voltage	Power output
17615000	350 mA	4,2-8 W

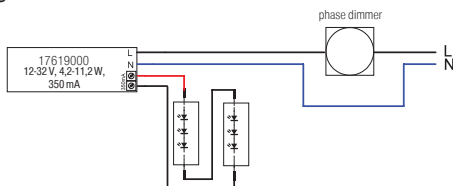
with strain relief
dimmable via leading- or trailing edge
dimming range 10-100 % (depending on applied phase dimmer)

17619000

LED driver 350 mA constant current, dimmable by leading- or trailing edge



NEW



series connexion, max. length of connection cable, on the secondary side 10 m

Specification

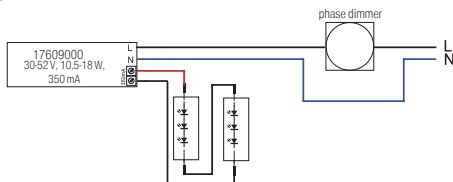
primary voltage: 220-240 V AC, frequency: 50-60 Hz, ambient temperature (ta): -25° C to +50° C, (tc): max. 80° C, dimensions: 143 mm x 43 mm x 31 mm, material: plastic housing

Article-no.	Secondary voltage	Power output
17619000	350 mA	4,2-11,2 W

with strain relief
 dimmable via leading- or trailing edge
 dimming range 10-100% (depending on applied phase dimmer)

17609000

LED driver 350 mA constant current, dimmable by leading- or trailing edge



series connexion, max. length of connection cable, on the secondary side 10 m

Specification

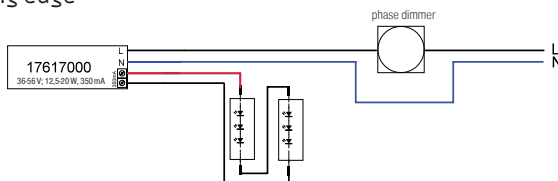
primary voltage: 220-240 V AC, frequency: 50-60 Hz, ambient temperature (ta): -25° C to +50° C, (tc): max. 80° C, wire size: 0,5 - 1,5mm², dimensions: 141 mm x 43 mm x 30 mm, material: plastic housing

Article-no.	Secondary voltage	Power output
17609000	350 mA	10,5-18 W

with strain relief
 dimmable via leading- or trailing edge
 dimming range 10-100% (depending on applied phase dimmer)

17617000

LED driver constant current 350 mA dimmable by leading- or trailing edge



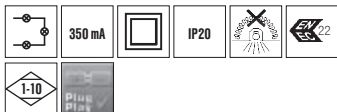
series connexion, max. length of connection cable, on the secondary side 10 m

Specification

primary voltage: 220-240 V AC, frequency: 50 - 60 Hz, electrical feeding (out): 140 mm, ambient temperature (ta): 0° C to +50° C, (tc): max. 85° C, dimensions: 180 x 32 x 32mm, material: plastic housing

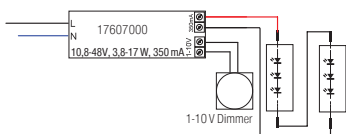
Article-no.	Secondary voltage	Power output
17617000	350 mA	12,5-20 W

with strain relief
 dimmable 1-10V (analog)
 dimming range 10-100% (depending on applied phase dimmer)



17607000
LED driver constant current 350 mA,
1-10V dimmable (analogue)

series connexion, max. length
of connection cable, on the
secondary side 10 m

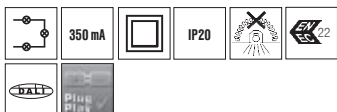


Specification

primary voltage: 220-240 V AC, frequency: 50 - 60 Hz
electrical feeding (out): 130 mm,
ambient temperature (ta): -25° C to +50° C, (tc): max. 80° C,
dimensions: 180 mm x 32 mm x 32 mm, material: plastic housing

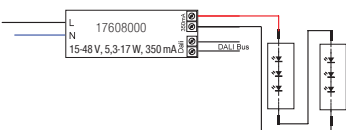
Article-no.	Secondary voltage	Power output
17607000	350 mA	3,8-17 W

with strain relief
dimmable 1-10 V (analog)
dimming range 5-100 %



17608000
LED driver constant current 350 mA,
dimmable (digital)

series connexion, max. length
of connection cable, on the
secondary side 10 m



Specification

primary voltage: 175-275 V DC / 220-240 V AC, frequency: 50 - 60Hz,
electrical feeding (OUT): 130mm,
ambient temperature (ta): -40° C to +50° C° C, (tc): max. 80° C,
dimensions: 180 x 32 x 32mm, material: plastic housing

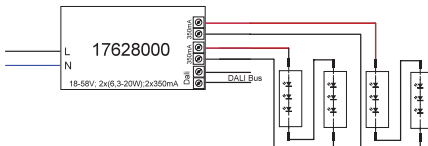
Article-no.	Secondary voltage	Power output
17608000	350 mA	5,3-17 W

with strain relief
dimmable DALI (digital)
dimming range 1-100 %



17628000
LED double driver constant current 350 mA,
DALI dimmable (digital)

series connexion, max. length
of connection cable, on the
secondary side 10 m



NEW

Specification

primary voltage: 220-240 V AC, frequency: 50 - 60 Hz,
electrical feeding (OUT): 130 mm,
ambient temperature (ta): -25° C to +50° C, (tc): max. 80° C,
wire size: 0,5-1,5 mm², dimensions: 143 x 82 x 35 mm, material: plastic housing

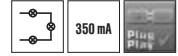
Article-no.	Secondary voltage	Power output
17628000	350 mA	2x6,3-20 W

with strain relief
dimmable DALI (digital)
dimming range 5-100 %

2 x LED-output 350 mA on one DALI address

3835 / 3836 / 3837

Plug & Play extension cord 350 mA



Specification

Plug & Play extension cord 350 mA (series connexion)

Article-no. Length

3835	500 mm
3836	1000 mm
3837	2000 mm

LED driver configuration for 350 mA LED luminaires in series connexion

power LED luminaire:		1W	1,2W	3W	3,3W	4W	5W	6W	6,6W	7W	9W	11W	15W
art. no.	dimming												
17666000	-	1-5	1-4	1	1	1	1	-	-	-	-	-	-
17612000	-	1-7	1-6	1-2	1-2	1	1	1	1	1	-	-	-
17613000	-	1-14	1-12	1-5	1-4	1-3	1-3	1-2	1-2	1-2	1	1	1
17614000	-	2-19	2-18	1-6	1-6	1-5	1-4	1-3	1-3	1-2	1-2	1	1
17605000	-	4-16	3-14	2-5	1-5	1-4	1-3	1-2	1-2	1-2	1	1	1
17615000	Phase	5-7	4-6	2	2	2	1	1	1	1	-	-	-
17609000	Phase	11-18	9-15	4-6	4-5	3-4	3	2-3	2	2	2	1	1
17617000	Phase	13-19	11-16	4-6	4-6	4-5	3-4	3	2-3	2	2	-	1
17607000	1-10V	4-16	4-14	2-5	2-5	1-4	1-3	1-2	1-2	1-2	1	1	1
17608000	DALI	6-16	5-14	2-5	2-5	2-4	2-3	1-2	1-2	1-2	1	1	1
17619000	Phase	5-11	4-9	2-3	2-3	2	1-2	1	1	1	1	1	-
17628000	DALI	14-38	12-33	6-13	4-12	4-10	4-8	4-6	2-6	2-4	2-4	2	2

In this overview we like to help you finding the suitable LED drivers for connecting our 350 mA LED. According to the power of LED luminaire you can see how many luminaires can be connected to the specific LED driver in series connection.

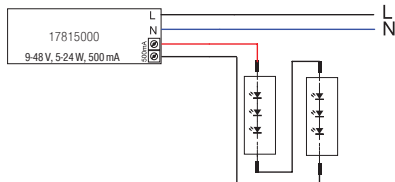
Example: To LED driver 17607000 can be connected at least 2, but in maximum 5 luminaires with 3,3W each.



17815000

LED driver 500mA constant currant, not dimmable

series connexion, max. length of connection cable, on the secondary side 10 m



Specification

primary voltage: 190-240 V DC / 220-240 V AC, frequency: 50-60 Hz, ambient temperature (ta): -25° C to +50° C, (tc): max. 80° C, dimensions: 180 mm x 32 mm x 32 mm, material: plastic housing

Article-no.	Secondary voltage	Power output
17815000	500 mA	5-24 W

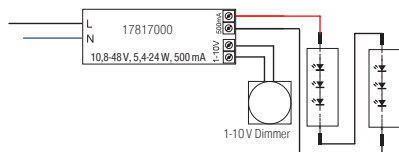
with strain relief
not dimmable



17817000

LED driver 500mA constant currant, 1-10V dimmable (analogue)

series connexion, max. length of connection cable, on the secondary side 10 m



Specification

primary voltage: 175-275 V DC / 220-240 V AC, frequency: 50-60 Hz, ambient temperature (ta): -25° C to +50° C, (tc): max. 80° C, dimensions: 180 mm x 32 mm x 32 mm, material: plastic housing

Article-no.	Secondary voltage	Power output
17817000	500 mA	5,4 - 26 W

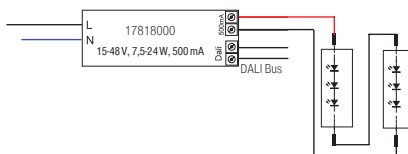
with strain relief
dimmable 1-10 V (analog)
dimming range 5-100 %



17818000

LED driver constant current 500mA, dimmable by DALI (digital)

series connexion, max. length of connection cable, on the secondary side 10 m



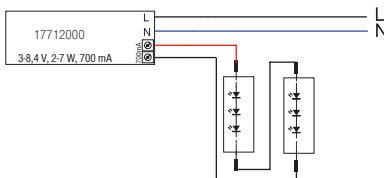
Specification

primary voltage: 175-275 V DC / 220-240 V AC, frequency: 50-60 Hz, ambient temperature (ta): -25° C to +50° C, (tc): max. 80° C, dimensions: 180mm x 32mm x 32mm, material: Plastic housing

Article-no.	Secondary voltage	Power output
17818000	500 mA	7,5-24 W

with strain relief
dimmable DALI (digital)
dimming range 1-100 %

17712000
LED driver constant current 700 mA, not dimmable



series connexion, max. length of connection cable, on the secondary side 10 m

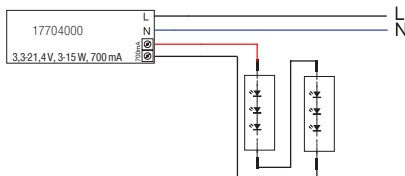
Specification

primary voltage: 120-370 V DC / 90-264 V AC, frequency: 50-60 Hz, electrical feeding (out): 145 mm, (ta): -20° C to +40° C, (tc): max. 70° C, dimensions: 68 mm x 35 mm x 21 mm, material: plastic housing

with strain relief
not dimmable

Article-no.	Secondary voltage	Power output
17712000	700 mA	2 - 7 W

17704000
LED driver constant current 700 mA, not dimmable



series connexion, max. length of connection cable, on the secondary side 10 m

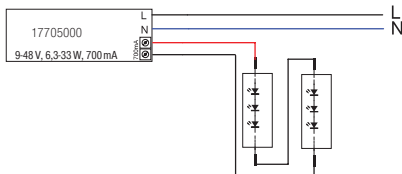
Specification

primary voltage: 220-240 V AC, frequency: 50-60Hz, electrical feeding (out): 130mm, (ta): -25° C to +50° C, (tc): max. 80° C, dimensions: 141mm x 43mm x 30mm, material: plastic housing

with strain relief
not dimmable

Article-no.	Secondary voltage	Power output
17704000	700 mA	3-15 W

17705000
LED driver constant current 700 mA, not dimmable



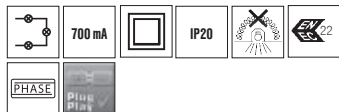
series connexion, max. length of connection cable, on the secondary side 10 m

Specification

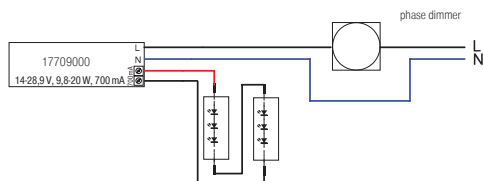
primary voltage: 190-240 V DC / 220-240 V AC, frequency: 50-60Hz, electrical feeding (out): 135mm, (ta): -25° C to +50° C, (tc): max. 80° C, wire size: 0.5-1,5mm²- dimensions: 180mm x 32mm x 32mm, material: plastic housing

with strain relief
not dimmable

Article-no.	Secondary voltage	Power output
17705000	700 mA	6,3-33 W



series connexion, max. length of connection cable, on the secondary side 10 m



17709000 LED driver 700 mA constant current dimmable by leading- or trailing edge

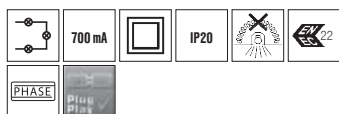


Specification

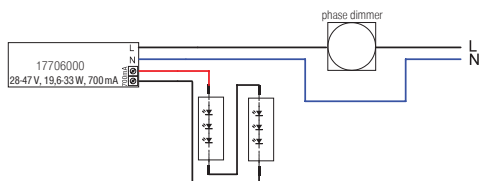
primary voltage: 220-240 V AC, frequency: 50-60 Hz,
electrical feeding (out): 135mm,
(ta): -25° C to +50° C, (tc): max. 80° C,
dimensions: 141 mm x 43 mm x 30 mm, material:plastic housing

Article-no.	Secondary voltage	Power output
17709000	700 mA	9,8-20W

with strain relief
dimmable via leading- or trailing edge
dimming range 10-100 % (depending on applied phase dimmer)



series connexion, max. length of connection cable, on the secondary side 10 m



17706000 LED driver 700 mA constant current, dimmable by leading- or trailing edge

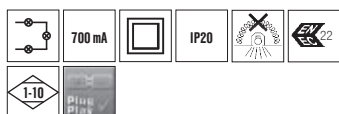


Specification

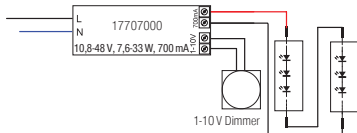
primary voltage: 220-240 V AC, frequency: 50-60Hz,
electrical feeding (out): 130mm,
(ta): -25° C to +50° C, (tc): max. 80° C,
dimensions: 180mm x 32mm x 32mm, material: plastic housing

Article-no.	Secondary voltage	Power output
17706000	700 mA	19,6 - 33 W

with strain relief
dimmable via leading or trailing edge
dimming range 10-100 % (depending on applied phase dimmer)



series connexion, max. length of connection cable, on the secondary side 10 m



17707000 LED driver constant current 700 mA, dimmable 1-10V (analog)



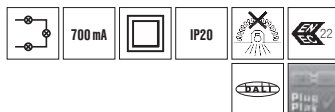
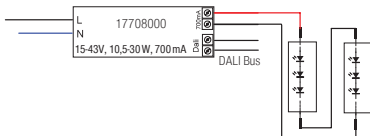
Specification

primary voltage: 220-240 V AC, frequency: 50-60 Hz,
(ta): -25° C to +50° C, (tc): max. 80° C,
dimensions: 180mm x 32mm x 32mm, material: Plastic housing

Article-no.	Secondary voltage	Power output
17707000	700 mA	7,6-33W

with strain relief
dimmable 1-10V (analog)
dimming range 5-100 %

17708000
LED driver constant current 700 mA, DALI dimmable (digital)



series connexion, max. length of connection cable, on the secondary side 10 m

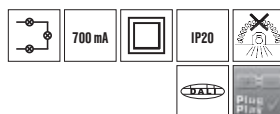
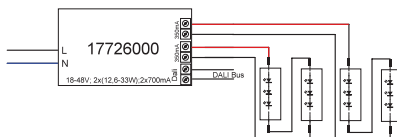
Specification

primary voltage: 175-275 V DC / 220-240 V AC, frequency: 50-60 Hz,
(ta): -25° C to +50° C, (tc): max. 80° C,
dimensions: 180 mm x 32 mm x 32 mm, material: plastic housing

with strain relief
dimmable DALI (digital)
dimming range 1-100 %

Article-no.	Secondary voltage	Power output
17708000	700 mA	10,5-30 W

17726000
LED double driver constant current 700 mA, DALI dimmable (digital)



series connexion, max. length of connection cable, on the secondary side 10 m

NEW

Specification

primary voltage: 220-240 V AC, frequency: 50-60Hz,
(ta): -25° C to +50° C, (tc): max. 80° C, wire size: 0,5-1,5mm²,
dimensions: 143 mm x 82 mm x 35 mm, material: plastic housing

with strain relief
dimmable DALI (digital)
dimming range 5-100 %

Article-no.	Secondary voltage	Power output
17726000	2 x 700 mA	2 x 12,6-33 W



3838 / 3839 / 3840 Plug & Play extension cord 700 mA



Specification

Plug & Play extension cord 700 mA (series connection)

Article-no. Length

3838	500 mm
3839	1000 mm
3840	2000mm

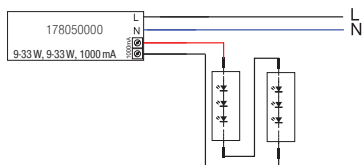
LED driver configuration for 700 mA LED luminaires in series connection

LED-power luminaire:		2W	3W	4,5W	6,7W	7W	8,4W	9W	10W	12W	13,6W	14W	15W
art. no.	dimming												
17712000	-	1-3	1-2	1	1	1	-	-	-	-	-	-	-
17704000	-	2-7	1-5	1-3	1-2	1-2	1	1	1	1	1	1	1
17705000	-	4-16	3-11	2-7	1-4	1-4	1-3	1-3	1-3	1-2	1-2	1-2	1-2
17709000	Phase	5-10	4-6	3-4	2	2	2	2	1-2	1	1	1-2	1
17706000	Phase	10-16	7-11	5-7	3-4	3-4	3	3	2-3	2	2	2	2
17707000	1-10V	4-16	3-11	2-7	2-4	2-4	1-3	1-3	2-3	1-2	2	1-2	1-2
17708000	DALI	6-16	4-11	3-7	2-4	2-4	2-3	2-3	2-3	1-2	2	1-2	1-2
17726000	DALI	14-30	10-22	6-14	4-8	4-8	4-6	4-6	4-6	4	2-4	2-4	2-4

In this overview we like to help you finding the suitable LED drivers for connecting our 700 mA LED. According to the power of LED luminaire you can see how many luminaires can be connected to the specific LED driver in series connection.

Example: To LED driver 17707000 can be connected at least 2, but in maximum 4 luminaires with 7 W each.

17805000 LED driver constant current 1000 mA, not dimmable



series connexion, max. length of connection cable, on the secondary side 10 m

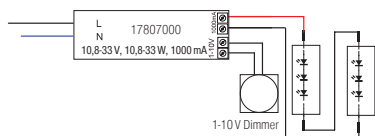
Specification

primary voltage: 190-265 V DC / 220-240 V DC, frequency: 50-60 Hz,
(ta): -25° C to +50° C, (tc): max. 80° C,
dimensions: 180 mm x 32 mm x 32 mm, material: plastic housing

with strain relief
not dimmable

Article-no.	Secondary voltage	Power output
17805000	1000 mA	9-33 W

17807000 LED driver constant current 1000 mA, DALI 1-10V dimmable (digital)



series connexion, max. length of connection cable, on the secondary side 10 m

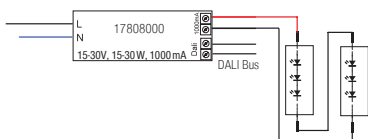
Specification

primary voltage: 220-240 V AC, frequency: 50-60Hz,
(ta): -25° C to +50° C, (tc): max. 80° C,
dimensions: 180 mm x 32 mm x 32 mm, material: plastic housing

with strain relief
1-10V dimmable (analog)
dimming range 5-100 %

Article-no.	Secondary voltage	Power output
17807000	1000 mA	10,8-33 W

17808000 LED driver constant current 1000 mA, dimmable by DALI



series connexion, max. length of connection cable, on the secondary side 10 m

Specification

primary voltage: 220-240 V AC, frequency: 50-60Hz,
(ta): -25° C to +50° C, (tc): max. 80° C,
dimensions: 180 mm x 32 mm x 32 mm, material: plastic housing

with strain relief
dimmable by DALI (digital)
dimming range 1-100 %

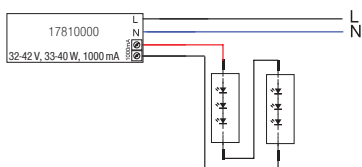
Article-no.	Secondary voltage	Power output
17808000	1000 mA	15-30 W



LED driver constant current 1000 mA, not dimmable

17810000

series connexion, max. length
of connection cable, on the
secondary side 0,6 m

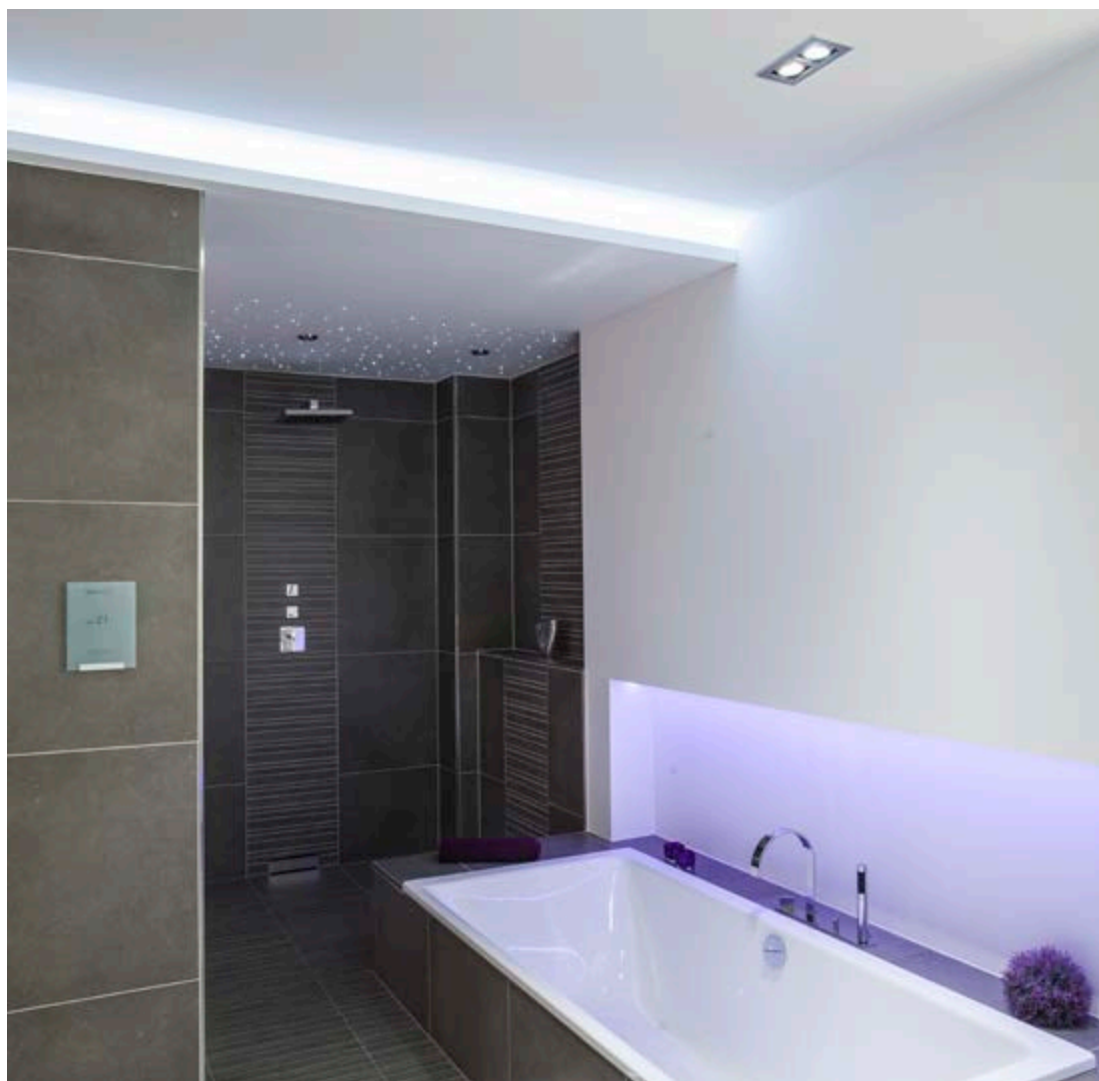


Specification

primary voltage: 220-240V AC, frequency: 50-60 Hz,
(ta): 0° C to +45° C, (tc): max. 75° C,
dimensions: 105 mm x 68 mm x 32 mm, material: plastic housing

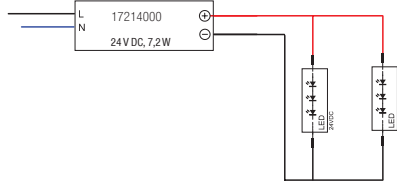
Article-no.	Secondary voltage	Power output
17810000	1000 mA	33-40 W

with strain relief
not dimmable
dimmable driver (DALI digital) on request.



17214000

LED driver 24 V / DC constant voltage, not dimmable



Specification

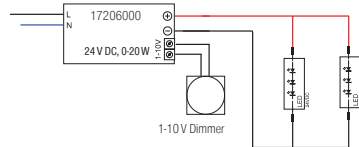
primary voltage: 120-370 V DC / 90-264 V DC, frequency: 50-60 Hz,
 (ta): -20° C - +40° C, (tc): max. 70° C,
 dimensions: 68 mm x 35 mm x 21 mm, material: plastic housing

Article-no.	Secondary voltage	Power output
17214000	24 V DC	1-7,2 W

with strain relief
 not dimmable

17206000

LED driver 24V / DC constant voltage, 1-10V dimmable (analogue)



Specification

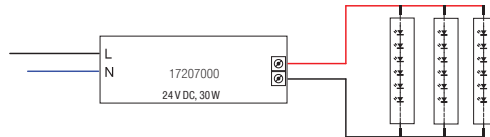
primary voltage: 176-264 V DC / 90-264 V DC, frequency: 50-60Hz,
 (ta): -25° C to +50° C, (tc): max. 80° C,
 dimensions: 145 mm x 55 mm x 19 mm, material: plastic housing

Article-no.	Secondary voltage	Power output
17206000	24 V DC	0-20 W

with strain relief
 1-10 V dimmable (analog)
 dimming range 1-100 %

17207000

LED driver 24 V / DC constant voltage, not dimmable



Specification

primary voltage: 140-370 V DC / 90-264 V AC, frequency: 50-60 Hz,
 (ta): -20° C to +50° C, (tc): max. 75° C,
 dimensions: 160 mm x 50 mm x 22 mm, material: plastic housing

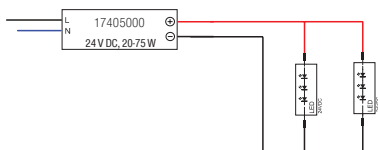
Article-no.	Secondary voltage	Power output
17207000	24 V DC	0-30 W

with strain relief
 not dimmable



LED driver 24 V / DC constant voltage, not dimmable

17405000



Specification

primary voltage: 200-240 V AC, frequency: 50-60 Hz,
(ta): -20° C to +45° C, (tc): max. 80° C,
dimensions: 200 mm x 63 mm x 30 mm, material: plastic housing

with strain relief
not dimmable

Article-no.	Secondary voltage	Power output
17405000	24 V DC	20-75 W



REG LED driver 24 V DC constant voltage, not dimmable

17220000



Specification

Primary voltage: 120 - 370 V DC / 85-264 V AC, 47-63 Hz
ambient temperature (T_a): -10° C - +40° C,
dimensions [L x W x H]: 125.5 x 125.2 x 100 mm (7 division units),
material: aluminium

not dimmable

Article no.	Secondary voltage	Output
17220000	24 V DC	120-240 W



REG LED driver 24 V DC constant voltage, not dimmable

17221000



Specification

Primary voltage: 120-370 V DC / 180-264 V AC, 47-63 Hz
ambient temperature (T_a): -20° C - +50° C,
dimensions [L x W x H]: 227 mm x 125.2 mm x 100 mm (13 division units),
material: aluminium

not dimmable

Article no.	Secondary voltage	Output
17221000	24 V DC	240-480 W

17208000 / 17209000 / 17210000

LED driver 24 V DC constant voltage, not dimmable



Specification

Primary voltage: 127 - 431 V DC / 90 - 305 V AC, 47-63 Hz
 secondary voltage: 24 V, electrical feeding (in / out): 300/300 mm
 ambient temperature (T_a): -40° C to +50° C, measuring point (T_c): max 95° C,
 material: aluminium

not dimmable

Article no.	Output	Dimensions [L x W x H]
17208000	50-100 W	220 x 68 x 39 mm
17209000	75-150 W	228 x 68 x 39 mm
17210000	120-240 W	244 x 68 x 39 mm

17501000

LED single dimmer



Specification

Voltage: 12-24 V DC, Power: max. 10 A, Output: max. 120 W / 240 W (12 V DC / 24 V DC), Dimensions: (L x W x H): 55 x 47,5 x 19 mm, Dimming interfaces: 1-10 V (active / passive) / Potentiometer (10 Ohm), Dimming range: 10-100%, Fastening: DIN rail (REG / 3.5 horizontal pitches), Connection: screw terminals.

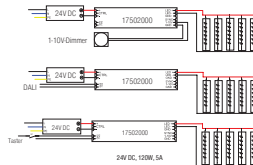
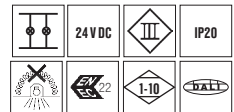
The single-channel control creates a PWM control signal for energizing LED with a constant voltage of 12 V DC / 24 V DC

Product no.

17510000

17502000

Dimmer for 24V constant voltage, DALI / 1-10V dimmable push - button dimmer



Specification

Dimmer for constant current 24 V DC, max. 5A (120 W), dimmable via DALI, 1-10 V, push-button, dimming range 1-100%

(ta): -20° to +45°, (tc): max. 55 °C, dimensions: 153 mm x 30 mm x 21 mm, material: plastic housing

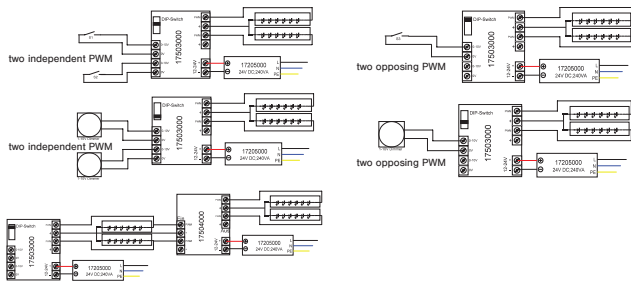
Synchronisation of multiple units master/slave feasible per sync-link

Article-no. Power output

17502000 max. 120 W

17503000 / 17504000

Tunable white LED double dimmer



Specification

Voltage: 12-24V DC, Power: max. 5A per channel,
 Output: max. 120W / 240W (12V DC / 24V DC),
 Energisation: negative (common anode),
 Adjustable dimming range: 1-10V from 2-100% / switch from 10-100%
 Dimensions (L x W x H): 57 x 52 x 21 mm,
 Connection through screw terminals (max. 2.5mm²),
 For fastening on DIN rail (REG / 3.5 horizontal pitches)

The 2-channel control occurs via two PWM control signals for energizing two separated channels or bi-colour LED modules in the white light range.

One of the following functions is locally adjustable via DIP switches:

- 1-10V Interface (active or passive): dimming range 2-100%
 - Two independent dimming channels for two 1-10V interfaces
 - Adjustable white light range (colour temperature) via a 1-10V interface
 - Adjustable white light range (colour temperature) via one 1-10V, and dimming via the second 1-10V interface

Product no. Specification

17503000 LED double dimmer (Master)

17504000 **Accessory:**
 Slave LED double dimmer
 (output extension without dimming interface)

Switch (control line / potential-free):

- Two independent dimming channels for two switches
- Adjustable white light range (colour temperature) via a switch
- Adjustable white light range (colour temperature) via the first switch and dimming via the second switch

17106000

LED power supply 12V DC



Specification

LED power supply 12V DC
 prim. 200-240 V/50 Hz, with 2000 mm cable with euro-plug, sec. constant current 12 V DC, 2 x 75mm cable with low voltage plugs, power: 15 W,
 (ta): -20 to 45° C, (tc): 80° C, ta: 45° C, dimensions: 123 mm x 39 mm x 19 mm,

Article-no. Power

17106000 15 W

17110000

LED power supply 12V DC



Specification

LED power supply 12V DC
 prim. 220-240 V/50 Hz, with 2000 mm cable with euro-plug, sec. constant current 12 V DC, 2 x 150 mm cable with low voltage plugs, power: 30 W, ambient temperature: max. 50° C, dimensions: 184 mm x 48 mm x 19 mm

Article-no. Power

17110000 30 W

17107000

6-fold splitter 12V DC



Specification

6-time distributor

Article-no.

17107000

17108000

connection line 2000 mm 12V DC



Specification

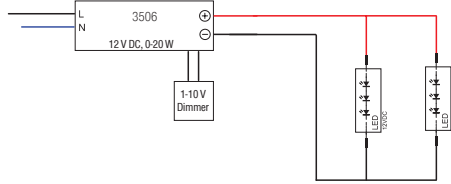
2000 mm connection line

Article-no.

17108000

3506

LED driver 12 V DC constant voltage, 1-10V dimmable (analogue)



Specification

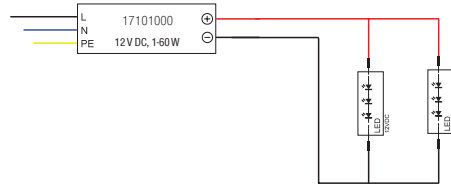
primary voltage: 176-264 V / DC110-240 V AC, frequency: 50-60Hz,
 ta: -25° to +50° C, tc: max. 80° C,
 dimensions: 145mm x 55mm x 19mm, material: plastic

with strain relief
 1-10 V dimmable (analog)
 dimming range 1-100 %

xArticle-no.	Secondary voltage	Power output
3506	12 V DC	0-20 W

17101000

LED driver 12V DC constant voltage, not dimmable



Specification

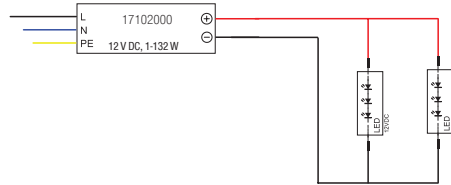
primary voltage: 127-417 V AC / 90-295 V AC, frequency: 47-63 Hz,
 electrical feeding (in / out): 290/290 mm,
 ta: -30° to +50° C, tc: max. 80° C,
 dimensions: 200 mm x 62 mm x 40 mm, material: aluminium

not dimmable

Article-no.	Secondary voltage	Power output
17101000	12 V DC	1-60 W

17102000

LED driver 12V DC, constant voltage, not dimmable



Specification

primary voltage: 127-417 V AC / 90-295 V AC, frequency: 50-60Hz,
 electrical feeding (in / out): 300/300 mm,
 ta: -30° bis +50° C, tc: max. 80° C,
 dimensions: 233 mm x 68 mm x 39 mm, material: aluminium

not dimmable

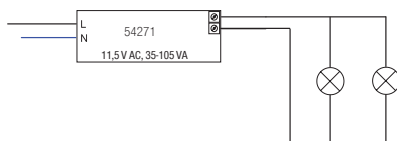
Article-no.	Secondary voltage	Power output
17102000	12 V DC	1-132 W



Community hall, Arnsberg-Hüsten (Germany)



542... Electronic transformers 12 V AC



Specification

primary voltage: 220–240 V AC, frequency: 50 Hz,
(ta): -20° C to +50° C, (tc): max. 75° C,
material: plastic housing

with strain relief
dimnable by trailing-edge phase dimmer

- independent transformer
- allowed for installation on wood
- protection against short circuit / overstress / overheating
- radio shielding according to EN 61000-3-3
- suppression of harmonic content in accordance to EN 61000-3-2
- soft start

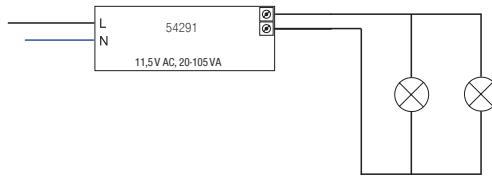
Article-no.	Secondary voltage	Power output	dimensions
54271	2x 12 V AC	35-105VA	L 130 x B 43 x H 20
54281	2x 12 V AC	50-150VA	L 160 x B 46 x H 33

According to corresponding safety regulations, electronic transformers used in suspended ceilings, rosettes, covers, etc. must be installed in independent application.

In view of these requirements electronic transformers should be as small as possible to enable a trouble-free installation. With these lines BRUMBERG offers compact and for these purposes appropriate transformer.

54291

Electronic transformer 20 - 105 VA / 12 V AC



Connection secondary up to 7 m!

Specification

primary voltage: 230–240 V AC, frequency: 50-60 Hz,
 ta: to +40° C, tc: max. 85° C,
 Maß: 128 mm x 37 mm x 28 mm, material: plastic housing

dimnable by trailing-edge and leading edge phase dimmer

- independent transformer
- approved for installation on wood
- protection against short circuit / overstress / overheating
- suppression of harmonic content in accordance to EN 61000-3-2
- heat-resistant polyamide
- connection primary side: Screw terminals 1 x 2-poles primary, 2,5 mm²
- connection secondary side: Screw terminals 1 x 2-poles secondary, 2,5 mm²
- connecting cable secondary up to 7 m possible

Article-no.	Secondary voltage	Power output
54291	12 V AC	20-105 VA

According to corresponding safety regulations, electronic transformers used in suspended ceilings, rosettes, covers, etc. must be installed in independent application.

In view of these requirements electronic transformers should be as small as possible to enable a trouble-free installation. With these lines BRUMBERG offers compact and for these purposes appropriate transformer.



Doctor's surgery, Enstingen (Germany)



536600 / 536400 clamp for low-voltage spots



Specification

refit clamp for low-voltage spots

536600 = for clip fastening, 2-pole clamp 2 x 2,5 mm strain relief

536400 = for plug- and socket device, 2-pole clamp 2 x 2,5 mm strain relief

Article-no.

536600

536400



534800 / 536800 clamp for low-voltage spots



Specification

refit clamp for low-voltage spots

534800 = for clip fastening, with Wieland plug-and-socket device ST 16

536800 = for plug- and socket device, with Wieland plug-and-socket device ST 16

Article-no.

534800

536800



535800 clamp for high-voltage spots



Specification

Conversion kit with high voltage socket GZ10 (QPAR-CB51) and double-sided strain relief. For conversion of certain low voltage spots (QRCBC51) to high voltage use. Please consult us to identify suitable spots

Article-no.

535800

spring fixation



535900 clamp for high-voltage spots



Specification

Conversion kit with high voltage socket GZ10 (QPAR-CB51) and double-sided strain relief. For conversion of certain low voltage spots (QRCBC51) to high voltage use. Please consult us to identify suitable spots

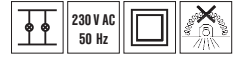
Article-no.

535900

plug socket fixation

535500

High voltage version for built-in spots



Specification

High voltage version GU10 (QPAR51) (luminaire half-section) with supply line. Without strain relief.

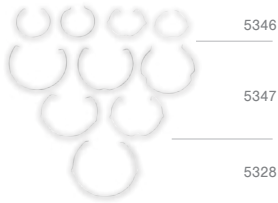
Note: Strain and surge relief must be ensured on-site.



Article no.	Max. power
535500	50 W

534600 / 534700 / 532800

clamp for low-voltage spots



Specification

Circlips

534600 = GZ4 / 35 mm

534700 = GX5.3 / 51 mm

532800 = QPAR64 (art.no. 2164... und 2192...)

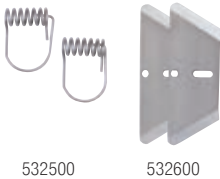
In orders please specify item number of luminaire.



Article-no.
534600
534700
532800

532500 / 532600

special springs for recessed spots to retrofit



Specification

springs for „Kaiser“ mounting-box (for different spots on request)

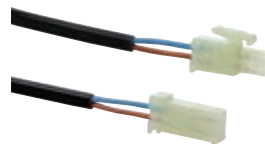
532500 = short spring

532600 = flat spring

Article-no.
532500
532600

536000 / 536100
AMP-distributor low-voltage

536200 / 536500
AMP-line low-voltage



Specification

AMP-distributor 3x = Art. 536000
AMP-distributor 6x = Art. 536100

Article-no.

536000
536100

Specification

AMP-connection with plug and coupling
length 1000 mm = Art. 536200
length 2000 mm = Art. 536500

Article-no.

536200
536500

Article-no. Colour

5301.00 brass
5301.02 chrome
5301.07 white
5301.22 stain.st.*
5302.00 brass
5302.02 chrome
5302.07 white
5302.22 stain.st.*

Article-no. Colour

5303.00 brass
5303.02 chrome
5303.07 white
5303.22 stain.st.*
5304.00 brass
5304.02 chrome
5304.07 white
5304.22 stain.st.*

Article-no. Colour

5305.00 brass
5305.02 chrome
5305.07 white
5305.22 stain.st.*
5306.00 brass
5306.02 chrome
5306.07 white
5306.22 stain.st.*

530...
reduction rings for recessed spots



Specification

reduction rings for recessed spots

5301_+ = Ø 65,0 outside - Ø inside up to max. 47 mm
5302_+ = Ø 80,6 outside - Ø inside up to max. 63 mm
5303_+ = Ø 98,2 outside - Ø inside up to max. 80 mm
5304_+ = Ø 122,7 outside - Ø inside up to max. 106 mm
5305_+ = Ø 150,0 outside - Ø inside up to max. 129 mm
5306_+ = Ø 195,0 outside - Ø inside up to max. 170 mm

*material: stainless steel

When ordering please specify:

- whether or not drilling holes are needed.
- the diameter of the central core



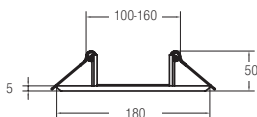
Specification

Standard reducer suitable for e.g. to 1963..., 2012..., 1053..., 1928... or luminaires with outer dimension of 84 - 87 mm.
Ceiling opening: 100-160 mm, structure height: 5 mm

The final installation depth is determined by the spots used or the placement of the lights.

Specification

Article-no.	Colour	Material
81001070	white	steel



91396 top seller

High quality, black anodised aluminium presentation case in a plain design – for optimal presentation of recessed spots with high quality appearance for versatile and demanding applications in architecture.

Lights for the presentation are NOT removable.
Not electrified.

Article-No.	Specification	Pieces
0063.25	recessed spots	1
1925.02	recessed spots	1
1963.15	recessed spots	1
2034.03	recessed spots	1
2062.07	recessed spots	1
2169.07	recessed spots	1
2191.22	recessed spots	1

91397 LED top seller

High quality, black anodised aluminium presentation case in a plain design – for optimal presentation of current LED recessed spots with modern elegance and high quality workmanship.

Lights for the presentation are removable.
Ready to plug in.

Article-No.	Specification	Pieces
12090083	recessed spots	1
12090623	recessed spots	1
12265253	recessed spots	1
12266073	recessed spots	1
12361023	recessed spots	1
17612000	LED driver, 350 mA	5

91398 LED inserts

High quality, black anodised aluminium presentation case in a plain design – for optimal presentation of current LED basic high performance inserts with faceted reflector and clear front glass in warm white.

Inserts for the presentation are removable.
Ready to plug in.

Article-No.	Specification	Pieces
12924003	MR16 High-Power-LED Lamp	1
12926003	MR16 High-Power-LED Lamp	1
12932003	MR16 High-Power-LED Lamp	1
12954003	MR16 High-Power-LED Lamp	1
17613000	LED driver	2

91366 Fibre optics

A high quality sample case with restrained design for optimal presentation of the most fascinating type of lighting.

The case is equipped with two current LED laser sets. Ready to plug in.

Article-No.	Specification	Pieces
9513W	fibre starter kit I	1
9510W	fibre starter kit II	1

91379 vitaLED®smart

High quality sample case in a simple design – for optimal presentation of vitaLED® smart, the vitalizing 4-channel colour light system with an intelligent control system. Equipped with a current vitaLED® smart double set.

Lights for the presentation are removable.
Ready to plug in.

Article-No.	Specification	Pieces
18333022	vitaLED®smart 2-fold basic kit	1

91395 QualityFlex®

High quality, black anodised aluminium presentation case in a plain design – for optimal presentation of current QualityFlex®.

Ready to plug in.

Article-No.	Specification	Pieces
15201003	LED flexible strip 4,8 W / m	1
15202027	LED flexible strip 9,6 W / m	1
15203004	LED flexible strip 14,4 W / m	1
15205005	LED flexible strip 19,2 W / m	1
15206027	LED flexible strip 28,8 W / m	1
17405000	LED driver	1

Present successfully – Premium quality presentation cases

Convince your customers of your services and BRUMBERG® lighting solutions. We will actively support you with professional premium quality presentation media.

High quality presentation cases for high quality products.

The high quality presentation cases in a plain design allow the exquisite quality of BRUMBERG® products to be experienced. The LED lights are integrated clearly and safely into the cases. For the individual BRUMBERG® systems, their own cases are available respectively. The lights can be removed (as far as technically possible) in order to show them in practical use on site for your customers. We will be happy to advise you.



91393 dim2warm

High quality, black anodised aluminium presentation case in a plain design – for optimal presentation of current dimming effects such as with the incandescent lamp. Warming candlelight ambience with LED spots.

Ready to plug in.

Article-No.	Specification	Pieces
12116073	recessed spots	1
12461073	recessed spots	1
17607000	LED driver, 350 mA	2

91394 Shoplight

High quality, black anodised aluminium presentation case in a plain design – for optimal presentation of the current Shoplight concept.

Ready to plug in.

Specification	Pieces
Track Spot ModulMax	1
phase track 300mm	1
Light-Engine 3000 K BBL	1
Light-Engine 3500 K	1
Light-Engine 4000 K	1
Reflector angle 12°	1
Reflector angle 24°	1
Reflector angle 60°	1

LED - Technical data

Due to the permanent development of high-performance diodes operating with constant power, for diverse applications we can use a considerable increase in light efficiency in comparison to conventional light sources and a significant raise in efficiency up to 100 lumen per watt.



Serial connection

These LED are driven with constant current which is why multiple high performance LED have electrically to be stringed together in serial connection (all LED are driven by the same power „I“).

A parallel connection of these constant power LED is impossible.



Parallel connection

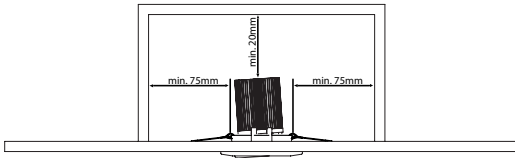
Products which the catalogue displays with 12V/24V are driven by constant voltage which is my multiple LED have electrically to be stringed together in parallel connection (all LED are driven by the same voltage „U“).

Average Lifetime of an LED

Today's LED show an average lifetime of about 50.000 working hours at standard conditions. After this the LED is in fact not out of function but shows a luminous flux reduced to about 70%. Optimal conditions are achieved by the use of the available BRUMBERG components (driver, LED, luminaries) and well as an installation and operation corresponding to the BRUMBERG installation manuals.

Recommended mounting situation

The LED lights are not protected against humidity or dust. When using in situations with higher humidity or dust, make sure that each module is installed in an enclosure with appropriate protection. The LED lights should never be covered with any isolation material or anything similar. To avoid limiting the lifetime of the LED-lights, you should provide a circumferential clearance on all sides (see fig.1).



Mounting LED lights

Spots must be professionally installed by a competent person in accordance with DIN VDE 0100 Part 724 and Part 559. Also, DIN VDE 0108 and the Guidelines for Fire Protection (Electric Lights), Form 2005, issued by the Association of Property Insurers (VdS) eV Cologne must be observed. No liability claims will be entertained for spots that were not installed in accordance with European safety standards.

Safety instructions



Fire risk

The LED light is suitable for mounting on normally flammable surfaces, e.g. on wood and wood-based materials with more than 2 mm thickness. The enclosure must provide adequate space for the lights. The built-in LED light may not be covered by flammable materials.



Safe operation is only possible with constant external current/ voltage sources. Note the information on the lights' label.

To operate it is necessary to use constant current/ voltage drivers, for which the following protective measures should be ensured:

- Short circuit protection
- Overload protection
- Overheating protection
- SELV equivalent (Safety Extra Low Voltage)

LED – Binning

In contrary to 'conventional' illuminants as halogene or ceramic lamps, the LEDs possess different colour temperatures within the achromatic spectrum, as well as different wavelengths within the spectrum of the coloured LEDs. Precisely in the field of RGB colour mixtures, there are partly colour differences concerning wavelengths of up to about 20nm.

Furthermore, the single LEDs have diverse forward biases from 2,31V up to 3,99V. To ensure an operating voltage of 12V, particularly adapted resistors are used for the RGB conductor boards per LED colour (red, green + blue).

A third criterion for the selection of single LEDs is the luminous flux (lumen), respectively the luminous intensity (candela). In addition, an achromatic colour can only nearly be simulated by colour mixtures, but not be guaranteed, exactly.

As far as not agreed otherwise, for conductor boards delivered by us, we generally guarantee the following:

- identical production lots per delivery
- identical wavelengths, respectively colour temperatures per delivery
- identical resistors which are particularly adapted per delivery

For projects with different construction stages it is absolutely essential to pay attention to this important fact on the customers side, to be able to 'bloc' concerning stocks.

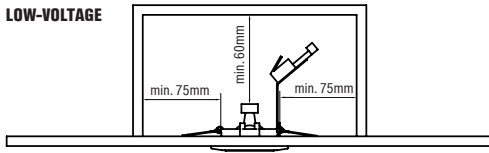
Driver instruction

The use of different driver types within the same switching group may cause varying activation times. We explicitly recommend to use only identical dimmable drivers with the same article number within the same switching group.

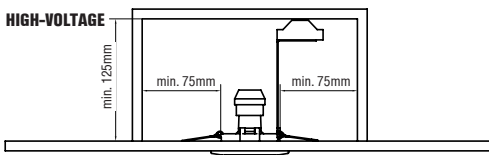
Installation instruction

Low-voltage and high-voltage spots have to be professionally mounted by an expert under installation instruction's conditions DIN VDE 0100 part 724 and part 559. Also, DIN VDE 0108 and the Guidelines for Fire Protection (Electric Lights), Form 2005, issued by the Association of Property Insurers (VdS) eV Cologne must be observed.

recommended mounting situation



Clamping units of non-fixed arranged lines have to be relieved of strain and thrust. Appropriate clamps with strain relief can be found in the Brumberg catalogue's accessories range.



Keep attention to a proper fixation of the high-voltage clamp at the spot in order to ensure an appropriate strain relief.

Installation

Installation of lamps

It has to be noted that in the case of low-voltage lamps about 85% of the electric energy supplied is converted into thermal energy.

As a result temperatures higher than 500 °C at the bulb and higher than 200 °C at the reflector may occur.

Insertion of lighting fixtures

Lighting fixtures must not be damaged when inserted. The proper insertion into the socket is mandatory. The lamp must always be inserted into the socket shortly. It is mandatory to insert lighting fixtures only with correct electric data (socket, voltage, wattage). Defective lighting fixtures have to be replaced immediately, but only when switched off (it's recommended to use a new socket).

Increasing the lifespan of a lamp

A reduction in electric currency for lighting of 10-15% increases the lifespan of a lamp considerably. The maximum permitted voltage, e.g. 12V / 24V, must under no circumstance be exceeded at the lighting fixtures. An even voltage drop in the wires leading to the lighting fixtures has to be ensured.

The measures for downlights indicated in the catalogue state the measures of the light and the bulb. The particular built-in standards in reference to the built-in depths must be followed.

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12144633	69	12174073	193	12197043	94
12144643	69	12175073	193	12197073	94
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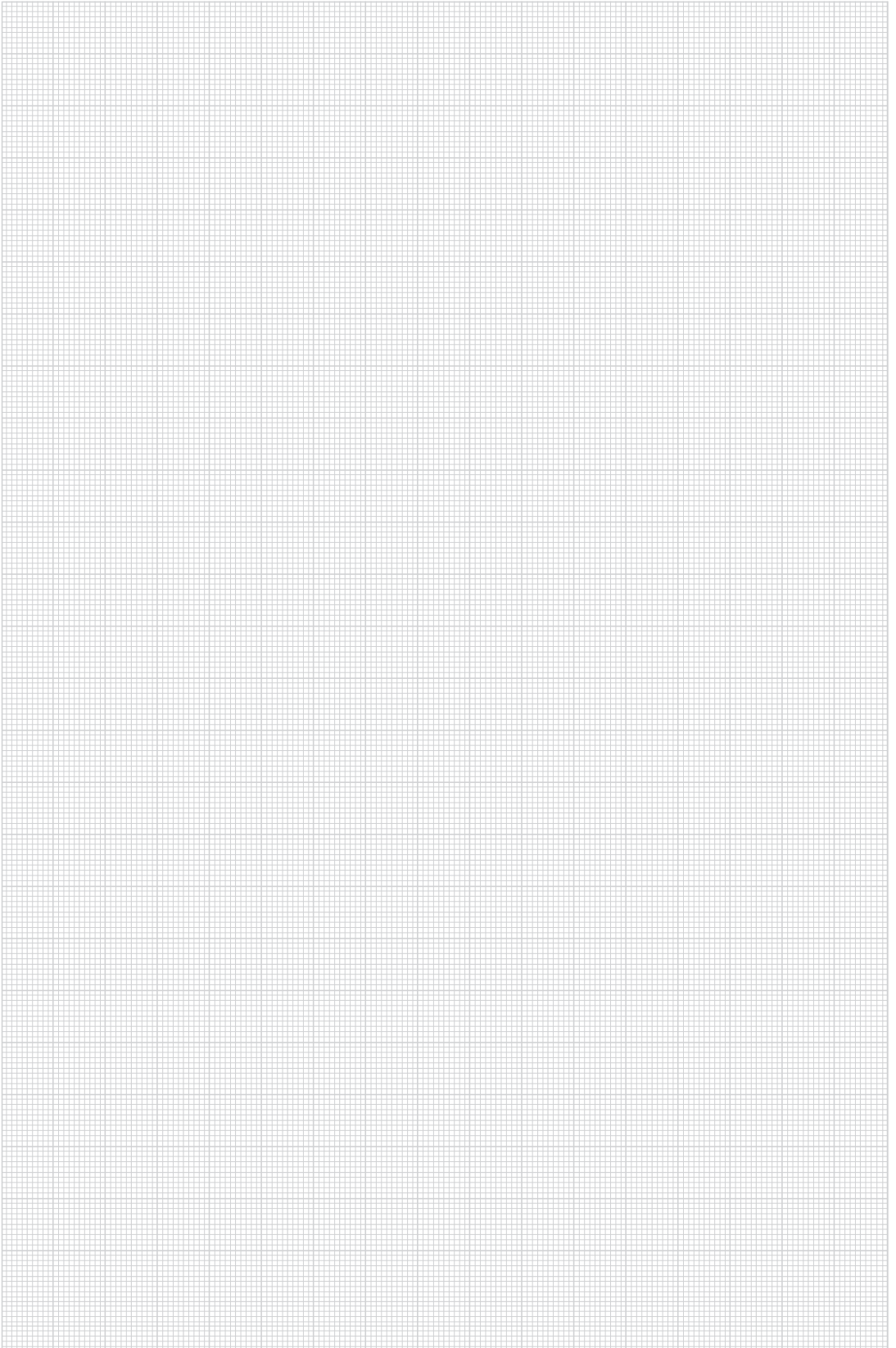
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§ 1 General - Scope

1. Our Terms and Conditions of Sale shall apply exclusively; contradicting conditions or conditions of the customer that deviate from our Terms and Conditions of Sale will not be accepted by us unless we have expressly agreed to their applicability in writing. Our Terms and Conditions of Sale shall also apply when we perform deliveries without objection while being aware of contradicting conditions or Terms and Conditions of Sale that differ from ours.

2. Decisive for the content and scope of deliveries and services shall be our written offer and, if we issue an order confirmation, our written order confirmation.

3. Our Terms and Conditions of Sale shall only be applicable to companies within the meaning of § 310 Par. 1 BGB (Bürgerliches Gesetzbuch - German Federal Civil Code).

4. Our Terms and Conditions of Sale shall also apply to all future business with customer. The following Terms and Conditions supersede customer's Terms and Conditions that differ in content. Customer's waiver of the applicability of any of their own Terms and Conditions shall also not be invalidated by our silence or our performance. A deviation from the following Terms and Conditions in an individual case shall require our written confirmation.

5. All technical data in our catalogues and other sales materials, lists and drawings as well as weight, measurement and mixing information has been carefully prepared, however, we reserve the right to later corrections.

6. It shall be customer's responsibility to check whether our product is suitable for customer's specified purpose.

§ 2 Quote - Quotation Documents

1. If the order is to be qualified as a quote in accordance with § 145 BGB, we shall have the right to accept it within four weeks.

2. We reserve property rights and intellectual property rights in depictions, drawings, calculations and other documents; they must not be made available to third parties. This shall also apply to any written documents labelled as confidential. Their disclosure to third parties by customer shall require our express written approval. Quotes shall only be valid if in written form. The prices stated shall apply subject to the condition that the order data on which the quote tendered was based remain unchanged.

3. We shall only prepare first samples and first sample test reports upon express written agreement, billed at cost.

4. For products ordered based on customer's drawings or samples, customer shall be obliged to check for possible property rights of third parties and to not infringe upon them. If, as a result of failure to comply with this obligation, we are enjoined from manufacturing due to a third party's assertion of its property right or we cannot use the product due to infringement of the property right, then we are entitled, without further examination of the legal situation and to the exclusion of all damage claims, regardless of the reason therefor, on the part of customer - to cease manufacturing and delivery until the fact situation is clarified as well as to request damages from customer, at least in the amount of 15% of the invoice value for the ordered product. Customer already now agrees to indemnify us against third party claims for damages and other third party claims for compensation, especially from holders of rights, at our first request therefor. Included in the scope of the damages shall also be such costs as we may incur due to having to defend against claims of third parties.

§ 3 Prices - Terms and Conditions of Payment

1. Unless stated otherwise in the order confirmation, our prices are ex works, including the packaging usually employed for our products plus the applicable VAT on the day of invoicing. Requested special packaging or outer packaging or special small packaging shall be billed to customer. The prices shall be applicable, respectively, only to the contractually agreed upon quantity and design. If customer requests changes that require higher processing than what the contract or typical production process is based on, we shall reserve the right to a reasonable adjustment of the price. We reserve the right to raise our prices proportionally in accordance with cost increases incurred if, after conclusion of this Contract, our costs unforeseeably increase, especially due to labour agreements or the costs of materials, especially those of raw materials or energy.

2. The statutory valueadded tax is not included in our prices; it will be specified separately on the invoice in the statutory amount applicable on the day the invoice is issued.

3. The deduction of a discount shall require a special written agreement.

4. Unless specified differently in the order confirmation, the purchase price shall be due net (without deduction) free of transaction charges and shall be payable within 10 days of the date of the invoice. If customer is in default, we shall be entitled to demand interest on arrears in the amount of 8 percentage points above the statutory base interest rate per year. If we are able to provide proof of higher damages due to this default, we shall be entitled to claim those. Customer, however, shall have the right to prove to us that we did not incur damages or did incur significantly lower damages as a result of this default.

5. Customer is only entitled to setoff rights if its counterclaims represent a final legal judgement, is uncontested, or has been acknowledged by us, or it has a mutual relationship (synallagmatic) to the principle claim. Customer only has a right of retention for claims that have been legally established, are uncontested, have been acknowledged by us, or constitute counterclaims that are in a mutual relationship (synallagmatic) to the principle claim. Furthermore, customer shall be entitled to the exercise of a right of retention insofar as its counterclaim is based on the same contractual relationship. Credit notes shall be issued explicitly for the purpose of setting off claims. There shall be no entitlement to payment.

6. In case of doubt regarding customer's ability to pay, we reserve the right to demand advance payments or that securities be rendered. If we obtain knowledge that an attachment could not be enforced at customer or if we receive any indication of a financial collapse of customer, we shall be entitled to withdraw from the contract subject to a charge for the expenses incurred.

§ 4 Delivery Schedule - Terms and Conditions of Delivery

1. The start of the delivery schedule stated by us or agreed upon with us presupposes that all technical questions have been addressed, all documents to be supplied by customer have been delivered, all necessary permits and releases have been obtained by customer, especially with respect to plans as well as the adherence to the agreed upon Terms and Conditions of Payment and the fulfilment of the other acts of cooperation by customer.

2. Furthermore, the adherence to our obligation to deliver presupposes the timely and proper fulfilment of customer's obligations as well as that we received proper delivery of the raw materials necessary for manufacturing the delivery product. The right to objection of non-fulfilled shall remain reserved.

3. If the non-fulfilment of delivery times is based on force majeure, e.g. strike, lockout, etc., the delivery times shall be extended appropriately. One such appropriate extension of the delivery times shall also occur when we are not supplied properly or on time (reservation of a proper and timely delivery by our suppliers).

4. If customer is defaulting on acceptance or if customer culpably violates other duties of cooperation, we shall be entitled to demand compensation of any resulting damages including any possible extra expenses to customer. We reserve the right to assert further claims and rights. If the delivery or shipment is postponed upon customer's request, we shall be entitled to bill the customer a storage fee in the amount of 0,05 % of the invoice total for each month started, up to a maximum of 5 % of the invoice total, 10 days after notifying customer that the goods are ready for shipment. Both parties to the contract shall have the right to prove higher or lower expenses.

5. If the prerequisites in Par. 4 exist, the risk of accidental loss or accidental deterioration of the goods shall pass to customer at the moment customer defaults on acceptance or payment.

6. In accordance with the statutory regulations, we shall be liable to the extent that the underlying purchasing contract is a fixed date transaction in the meaning of § 286 Par. 2 Nr. 4 BGB or of § 376 HGB [Handelsgesetzbuch - German Commercial Code]. In accordance with the statutory regulations, we shall also be liable if customer, due to a delayed delivery due to our fault, is entitled to claim that customer's interest in the continued fulfilment of the contract has ended.

7. Furthermore, in accordance with the statutory regulations, we shall be liable if the delayed delivery is due to a wilful or grossly negligent breach of contract for which we are responsible; culpability of our representatives or vicarious agents shall be attributed to us. If the default in delivery is due to a grossly negligent breach of contract for which we are responsible, our liability shall be limited to the foreseeable, typically occurring damages.

8. We shall also be liable in accordance with statutory provisions, insofar as the delay in delivery that was our fault is based on a culpable breach of a material contractual obligation; in this case, however, the liability for damages shall be limited to the foreseeable, typically occurring damages.

9. We shall be entitled to make partial deliveries within a reasonable scope. Deviations in measurements, weight, technical design, manufacturing and quantity of the goods to be delivered shall be allowed within customary, productrelated tolerances. Furthermore deemed as approved by the manufacturer shall be modifications that serve technical advancement and improvement of our products.

§ 5 Transfer of Risk - Packaging Costs

1. Unless the order confirmation specifies otherwise, the delivery shall be agreed upon ex works.

2. The return of packaging materials shall be subject to special agreements.

3. If requested by the ordering party, we will obtain transport insurance for the delivery; the costs caused by it shall be born by the ordering party.

4. Customer shall be required to name one or more people within a reasonable period before delivery of the goods who are authorised by customer to accept the goods and the accompanying documents, and to sign the delivery papers and accompanying documents on behalf of customer. This shall apply in particular if the goods are delivered to a location other than customer's place of business. If such information is

not provided, those persons who actually accept the goods shall be deemed authorised to accept the goods and to sign the transfer papers (delivery note and other accompanying papers).

5. If none of the people named by customer are present at the agreed upon time at the specified location or if this person or other persons are not willing to accept the goods, customer shall be in default of acceptance, with the consequence that the risk transfers to the customer. Furthermore, customer shall bear the extra costs arising from a renewed delivery.

6. Customer shall not be entitled to reject deliveries due to minor defects.

§ 6 Liability for Defects

1. Customer's claims for defects presuppose that customer properly fulfilled its inspection and complaint obligations owed in accordance with § 377 HGB.

2. If the purchased item has a defect, we shall be entitled to a rectification of our choice in the form of removing the defect or supplying a new item free of defects. In the case of removing the defect, we are obligated to bear all necessary expenses for the purpose of rectification, in particular, transport, road, work and material costs provided that these costs are not increased by the fact that the purchased item has been transported to a place other than the place of fulfillment. We may refuse rectification when the expenses for removing the defect are expected to exceed the sales price.

3. If the remedy fails, customer - at its discretion - shall have the right to demand withdrawal or reduction.

4. We shall be liable in accordance with the statutory stipulations insofar as customer makes claims for damages that are a result of intent or gross negligence, including intent of gross negligence of our representatives or vicarious agents. Unless we are claimed to be in deliberate breach of contract, our liability for damages shall be limited to the foreseeable, typically occurring damages.

5. In accordance with the statutory regulations, we shall be liable if we culpably violated a material contractual obligation; however, even in this case, the liability for damages shall be limited to the foreseeable, typically occurring damages. A material contractual obligation shall exist if the violation of the obligation refers to an obligation in whose fulfillment customer has trusted and could be expected to trust in.

6. Liability for culpable injury to life, limb or health shall remain unaffected; this shall also apply to mandatory liability in accordance with the German Product Liability Act (Produkthaftungsgesetz).

7. To the extent not otherwise specified above, any liability shall be excluded.

8. The period of limitation for claims for defects shall be 12 months, as from the transfer of risk.

§ 7 Liability for Defects

1. Any further liability for damages other than those stipulated in § 6 and § 4 shall be excluded - regardless of the legal nature of the claim being asserted. This applies in particular for damage claims from fault when the contract was concluded, due to other breaches of obligation or on account of claims in tort for compensation of material damages in accordance with § 823 BGB.

2. The period of limitation for all claims that are not subject to the period of limitation for defects of the item shall be an exclusion period of 18 months. It shall commence upon obtaining knowledge of the damage and of the person causing the damage.

3. The limitation pursuant to Par. 1 shall also apply, insofar as the customer demands compensation of useless expenses instead of performance.

4. Insofar as liability for damages against us is excluded or limited, this shall also apply with respect to the personal liability for damages of our employees, workers, associates, representatives and vicarious agents.

§ 8 Security of the Reservation of Title

1. We retain title to the item purchased until receipt of all payments resulting from the business relationship with the customer. Insofar as we agree with the customer on payment based on the check/bill of exchange procedure, the retention of title shall also extend to the customer cashing the bill of exchange accepted by us and shall not expire by crediting the check received by us. If customer breaches its contractual obligation or falls into default of payment, we may withdraw from the contract if, after a setting a reasonable deadline, customer fails to meet its obligations, or adhering to the contract even without a reminder notice cannot be reasonably expected. We may also declare our withdrawal from the contract by taking back the item purchased. After taking back the item purchased, we shall be entitled to dispose of it; the proceeds from the disposal shall be credited against the liabilities of customer - less reasonable disposal costs.

2. Customer is obligated until the final transfer of ownership to treat the item purchased with care; he is in particular obligated to insure the item at his own expense against damage by fire, water and theft sufficient to cover the replacement value. Insofar as maintenance or inspection should be necessary, the customer must carry this out in due time at his own expense.

3. In case of attachments or other encroachments by third parties, customer shall notify us immediately so that we can file a lawsuit in accordance with § 771 ZPO (German Code of Civil Procedure). Insofar as the third party is not able to reimburse us for the judicial and extra-judicial costs of such a lawsuit in accordance with § 771 ZPO, customer shall be liable for any losses we incur.

4. Customer shall be entitled to resell the purchased goods in the ordinary course of business; customer shall, however, now assign to us all accounts receivables in the amount of the final invoice amount (including VAT) of our account receivable that accrue to him against purchasers or third parties on resale, independently of whether the purchased goods were resold without or after processing it. Customer shall remain authorised to collect this account receivable even after assignment. Our authorisation to collect the account receivable ourselves shall remain unaffected by this. However, we agree not to collect the accounts receivable as long as customer complies with its payment obligations from the collected proceeds, does not default in payment and, in particular, no petition for the institution of insolvency or conciliation procedure is filed or cessations of payment exist. But if this is the case, we shall be entitled to demand that customer inform us about assigned receivables and the debtor of same, provide us with all information required for collection, hand out the pertinent documents and inform the debtor (third party) of the assignment. The claim already ceded to us in advance shall also apply to the acknowledged balance, as well as, in the case of an insolvency of the customer, to the then existing causal balance.

5. The processing or transformation of the purchased goods by customer shall always be done for us. If the purchased goods are processed together with other items not

belonging to us, we shall consequently acquire co-ownership of the new object in proportion to the value of the purchased goods (invoice total, including VAT) to the other processed items at the time at which processing took place. Incidentally, for the object resulting from the processing, the same shall apply as for the purchased goods under reservation.

6. If the purchased goods are combined with other objects not belonging to us such that they cannot be separated from one another, we then shall acquire joint ownership of the new object in proportion to the value of the purchased goods (invoice total, including VAT) and to the other processed items at the time at which combining took place. If the combining occurs such that customer's object is regarded as the principal item, then it is deemed agreed upon that customer shall transfer co-ownership to us proportionally. Customer shall keep safe the resulting sole ownership or co-ownership for us.

7. As security for our claims against it, customer shall assign to us all claims against a third party resulting from combining the purchased goods with real property.

8. We undertake to release the securities due to us at customer's request as long as the realisable value of our securities exceeds the secured accounts receivable by more than 10 %; the selection of the securities to be released shall be at our discretion.

§ 9 Place of Jurisdiction - Place of Performance - Severability Clause

1. If supplier is a merchant, then the place of jurisdiction - to the exclusion of all others - is Sondern (Sauerland) for all controversies that arise. However, we are also entitled to bring claims against supplier at its general place of jurisdiction.

2. The laws of the Federal Republic of Germany shall be applicable; the terms of the UN Convention on Contracts for the Sale of Goods shall be excluded.

3. Unless stated otherwise in the order confirmation, the place of performance for all performance and counter performance by us and supplier, including payment, is the headquarters of Brumberg Leuchten GmbH & Co. KG in Sondern (Sauerland).

4. These General Terms and Conditions of Sale shall remain in effect even if individual clauses should turn out to be invalid. The invalid clause shall be amended or interpreted by the parties in such a way that the commercial purpose intended by the invalid provision shall be achieved to the greatest extent possible. The same approach shall be taken if in the conduct of the contractual relationship a gap requiring supplementation results. If the invalidity is based upon a definition of performance or time, the statutorily permissible measure shall take its place.

If a provision of these General Terms and Conditions of Sale proves to be invalid in regard to mandatory foreign law then, upon request, supplier will reach agreement with us on those contractual supplements and make those declarations to third parties or officials that retain the validity of the affected provision and, if this is not possible, that preserve its economic content even in accordance with foreign law.

5. The German version of the General Terms and Conditions of Sale shall be the authoritative version. In case of translations, it shall prevail over the English translation and is designed based on German law.

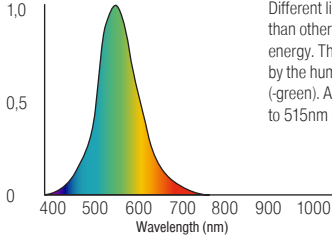
Status: May 2016

What is light?

Light is that small part of electromagnetic radiation, which can be perceived by the human eye. The actual wavelengths range from 380nm to 750nm.

Spectral sensitivity of the eye

Spectral sensitivity of the eye



Different light colours appear lighter than others at the same radiation energy. The maximum perceived by the human eye is about 555nm (-green). At twilight, the maximum falls to 515nm (blue shades).

Weighted light colour

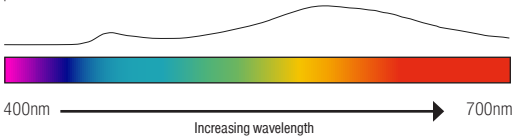
... indicates the light colour of the light source perceived by the eye of the spectator.

Weighted colour impression

... describes the colour impression experienced by the spectator.

Light spectrum

The light spectrum is the whole of all distinguishable spectral colours. The forms of representation contain information about wavelength and intensity of luminous power.

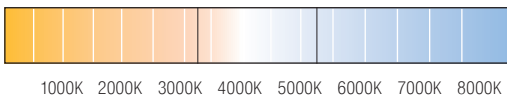


Light colour

The light colour, also described as spectral colour, specifies a colour impression of light in one single wavelength.

Colour temperature

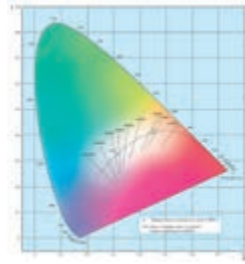
Describes the temperature at which a theoretically black body emits a weighted colour impression.



Planck's law

The black body curve, commonly also referred to as Planck's curve, depicts the colour temperatures as a curve in the CIE standard chromaticity diagram.

CIE standard chromaticity diagram



Since 1931, the CIE standard chromaticity diagram has been the most widely used, perception-related colour description system containing all of the perceivable colours. By reference to the colour space coordinates, the system is also called Xyy colour space or CIE Xyy.

UV light

UV light is electromagnetic radiation with a wavelength shorter than that of light perceivable by the human eye (less than 380nm). This range is further sub-divided into the sub-ranges of UV-A, UV-B and UV-C.

IR light

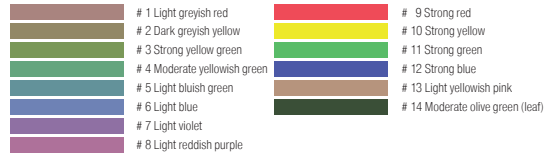
IR (infra-red) light is electromagnetic radiation with a wavelength longer than that of light perceivable by the human eye (more than 780nm). This radiation is also called thermal radiation.

Colour rendering

Colour rendering describes how natural an object illuminated by an artificial light source appears.

Colour rendering index

The colour rendering index contains light colours determined in accordance (CRI) with DIN 6169 14.



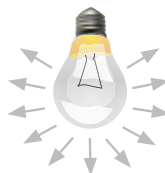
Rx specification

„x“ specifies the test colours (i.e. 1-12) measured for the determination of the colour rendering index.

Ra specification

Ra describes the general colour rendering index and specifies that only the first 8 (out of 14) test colours were measured for the determination of the colour rendering index.

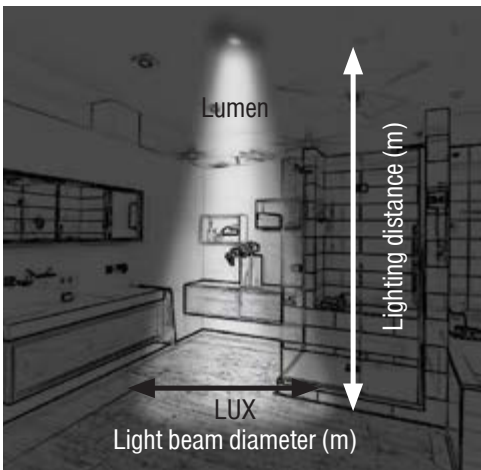
Light flux



The light flux describes the total radiation power of a light source irrespective of the radiation direction. Light flux is denominated in the unite lumen.

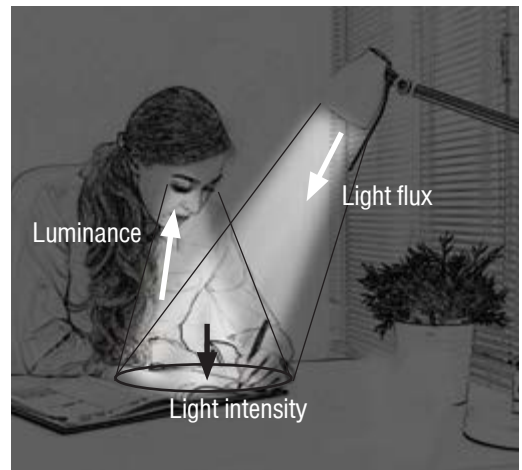
Light intensity

The light intensity is the measured light that actually reaches the area to be illuminated. Light intensity is denominated in the unite lux.



Luminance

Luminance is the photometric measure for the phenomenon that is perceived by the human eye as brightness of a surface in the unite candela per square meter.



Denomination	Unit	Abbr.
Light intensity	Lux	lux
Light flux	Lumen	lm
Colour temperature	Kelvin	K
Luminance	Candela per square metre	cd/m ²
Colour rendering index	Color Rendering Index	CRI
General colour rendering index	Test colours 1-8	Ra
Thermal radiation	Infrared radiation	IR
Chemical radiation	Ultraviolet radiation	UV

Reflection

Describes the relation between impinging light and reflected light. Both the amount of reflection and the content of reflection depend on the surface material. The direction of reflection depends on the type of surface.

Electroluminescence

Electroluminescence is a type of optic radiation in which a solid body is excited to emit electromagnetic radiation by applying an electrical voltage.

Absorption

Describes the relation between impinging light and non-reflected light.

Phosphorescence

Phosphorescence describes the conversion of monochromatic light into a wider light spectrum.

Zhaga

Name of an industrial consortium aiming at specifying standards for LED modules, thereby ensuring their easy replaceability.

DIE

A DIE is an LED flip chip.

T type

T types are the original LED designs, which today are still used in the field of signal lights and orientation lights.

SMD

Denotes a "Surface Mounted Device". SMD is a type of LED design in which the LED unit is directly soldered to a printed circuit board using soldering contact faces.

COB

"Chip On Board" (COB) This type of design is widely used for LED components with a great number of light diodes. It is a type of design, in which the light diode chip is attached directly to the printed circuit board using Die and wire bonding, after which the chip is covered with a phosphorescent layer.

LED module

Is the design of a COB LED with standardised terminals and mounting elements.

LLE

"LED Light Engine" LLE is a term derived from the standardisation of the Zharga consortium and denotes the combination of a LED module, a connecting cable and a suitable operational device.

Service life

The service life is the time during which a light source can be used until complete failure without being replaced.

Average service life

... denotes the service life during which a light source maintains up to 50% of the original luminous power without being replaced.

Useful service life

... denotes the service life during which a light source maintains the original luminous power – within the stated rate of degradation – without being replaced.

Degradation

... defines the light flux degradation across the stated service life.

Failure rate

... is the number of light sources expressed in percent that may exceed the light flux degradation within the stated service life.

Total failure rate

... is the number of light sources expressed in percent that may completely lose their luminous power within the stated service life.

Binning

... is the division of LED diodes into defined colour index and lighting intensities in so-called bins.

MacAdam ellipse

A MacAdam ellipse defines the area around a reference colour space, in which space the reference colours are perceived as being the same.

Denomination	Abbr.
Light flux degradation	L
Degradation	B
Total failure	C
General failure (combination of B and C)	F
MacAdam ellipse	SCM

Colour tolerance

... is the declaration of the different MacAdam ellipses of the light sources used in their condition at delivery.

Colour stability

... is the declaration of the different MacAdam ellipses of the light sources used at the end of their service lives.

Retrofitting

... describes the retrofitting of a luminaire with an illuminant that was originally not designed for this type of luminaire.

System power

... is the power consumption of a luminaire including illuminant and ballast.

System light flux

... is the light flux of a luminaire including reflector absorption and thermal influence.

Thermal management

... describes the dedicated direction and control of thermal fluxes.

Tc spot

The Tc spot is the most critical temperature spot of a device with heat development. "Tc" means "casing temperature".

Operational efficiency

The operational efficiency defines the distribution of incoming and outgoing energy.

Rail-mounted spotlights

... are spotlights mounted to a bus bar that can be freely arranged in the room.

Spots

... are recessed luminaires with at least one pivot axis that can be freely arranged in the room.

Wallwashers

... are luminaires with a homogeneous lighting of the wall.

Downlights

... are fixed recessed luminaires without pivot axis.

Pivot radius

... indicates the radius of movement around the pivot axis in degree.

Gimbal mounting

... describes the pivotability in two concurrent pivot axis that are placed rectangularly to each other.

Installation depth

The given installation depth refers to the physical dimensions of the recessed part of the luminaire. The factually required, overall installation depth is to be found in the mounting instruction

Ceiling / cut-out

... states the necessary opening diameter in the ceiling that is necessary for mounting a recessed luminaire.

Outer diameter

... denotes the outer diameter of the cover ring of recessed luminaires.

Alternating voltage

... is an electric current, the direction (polarity) of which alternates in regular intervals.

Direct current voltage

... is an electric current, the direction (polarity) of which does not alternate.

Reflector

... is the name of concave mirrors behind a light source to bundle light.

Lens

... is the name of transparent components in front of a light source to bundle light.

Collimator

... is a special form of a lens, which must ensure a parallel flow of the beams.

Radiation angle

... is the geometric angle resulting from the focal point of the illuminant and the emission point of the light. Commonly, the radiation angle is used equally under the name of angle of half intensity.

Angle of half intensity

The angle of half intensity is the angle at which the light intensity is only 50% of the maximum light intensity of the centre.

Calculation formula for light intensity

$$\text{Light intensity at distance } x = \frac{\text{Basic value at 1m}}{\text{Distance } x^2}$$

HotSpot

A HotSpot is the common denomination of the representation of the angle of half intensity in the light diagram.

Corona

A corona is the common denomination of the representation between the angle of half intensity and the radiation angle in the light diagram.

Light distribution curves

... are graphic representations of the light distribution in a room.

Beam diagram

... is the special representation of the light distribution with regard to light intensity.

Polar diagram

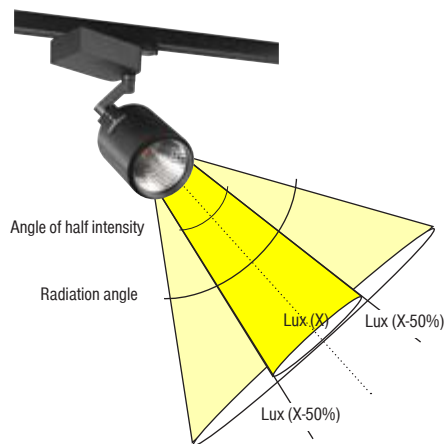
... is the special representation of the light distribution with regard to the direction in the room.






















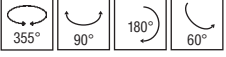











Glare suppression

... describes the feature of reduced direct glaring of a human being with the help of the light source used.

LOR value (Light Output Ratio)

This value describes which part of the light generated within the luminaire can actually be used externally.



	to be installed in parallel connection (constant voltage)		to be installed in series connection (constant current)		the operating current is as indicated in mA (constant current)
	operating voltage 12V, constant current (DC)		operating voltage 24V, constant current (DC)		operating voltage 230V, alternating current (AC)
	installation depth in mm The given installation depth refers to the physical dimensions of the recessed part of the luminaire. The factually required, overall installation depth is to be found in the mounting instruction				ceiling cut-out round shape (Ø) or angular in mm for the article
					
	protection class I: with protectiv grounding (PE)		protection class II: protective insulation (e.g. plastic housing resp. increased or double insulation)		protection class III: safety extra-low voltage (SELV): voltages <=50V AC; <=120V DC
	degree of protection, see explanation on page 689		Partially made of AISI 316 stainless steel		membran impregnated against humidity
	VDE-Certification		ENEC - Certification		weight capacity up in kg
	Article ist not appropriate for covering with heat insulation material		Lights to be installed into furnitures consisting of material with unknown fire behaviour.		Not applicable for insertion into installation boxes
	Rotation angles for different directions in °				cardanic rotation this angle in °
	pivoting angle in °				Fitting of illuminant without visible circlip
	Code of shackle for this article. Attention: low-voltage lamps will generally be delivered without shackle. Please order separately!				Code of cache-pot for article
	Dimmable via 1-10V interface		Dimmable via DALI bus		Dimmable via leading and/or trailing edge
	Article is equipped with our plug&play plug-in system. Incorrect wiring is impossible.				
	Max. flux in lumen. See exact values at request. Measurements DIN EN 13032 conform: this standard among other things regulates methodes for measuring (e.g. by goniophotometers) and presentation of photometric data (light distribution curve) for lamps and luminaires.				
	LDT data for these articles are available as download at www.brumberg.com .				



00 = brass



08 = black



25 = alu satin



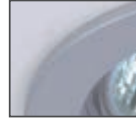
64 = titanium



01 = brass satin



09 = nobel chrome



26 = steel satin



67 = textured
graphit grey



02 = chrome



15 = nickel satin



27 = stainless steel
white powdered



68 = silver



03 = chrome satin



17 = textured white



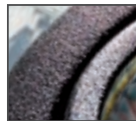
42 = stainless steel
A4/AISI 316



69 = textured silver



04 = bronze



18 = textured
black



51 = gold/white/gold



75 = white / gold



05 = gold



19 = copper



55 = black / white



85 = black/ gold



06 = gold satin



20 = stainless steel
clear powdered



61 = alu satin/gold



07 = white



22 = stainless steel



63 = champagner

The degree of protection characterises the protection against the infiltration of foreign bodies and dampness.

The designation follows this scheme: IP XX

The letters IP indicate „degree of protection“ and the double XX has to be replaced as following:

1st place: protection against solid particles

2nd place: protection against the ingress of moisture

Ratio for protection against contact / ingress of objects

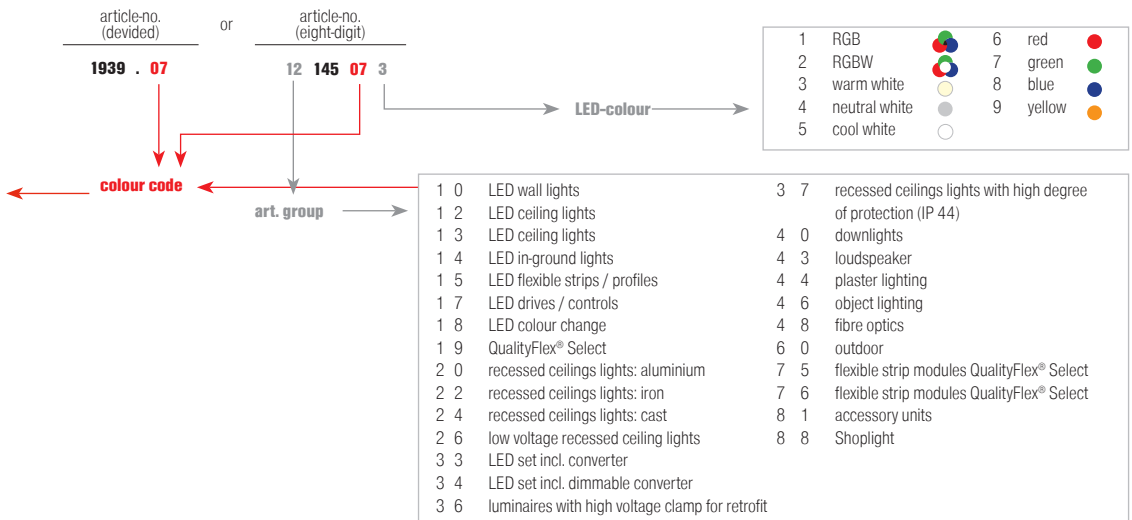
IP 0X	No protection
IP 1X	protection against objects sized >50mm diameter
IP 2X	protection against objects sized >12mm diameter
IP 3X	protection against objects sized >2,5mm diameter
IP 4X	protection against objects sized >1mm diameter
IP 5X	protection against harmful dust deposit insite
IP 6X	no ingress of dust

ratio for liquid ingress protection

IP X0	not protected against liquid ingress
IP X1	protected against drops of water falling vertically
IP X2	protected against drops of water from angles up to 15°
IP X3	protected against showers up to 60°
IP X4	protected against splash water
IP X5	protected against water jets
IP X6	protected against heavy downpours
IP X7	protected against immersion
IP X8	protected against submersion

Example:

IP 44 means: protected against foreign bodies > 1 mm and against splash water.



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