



Light and Façades

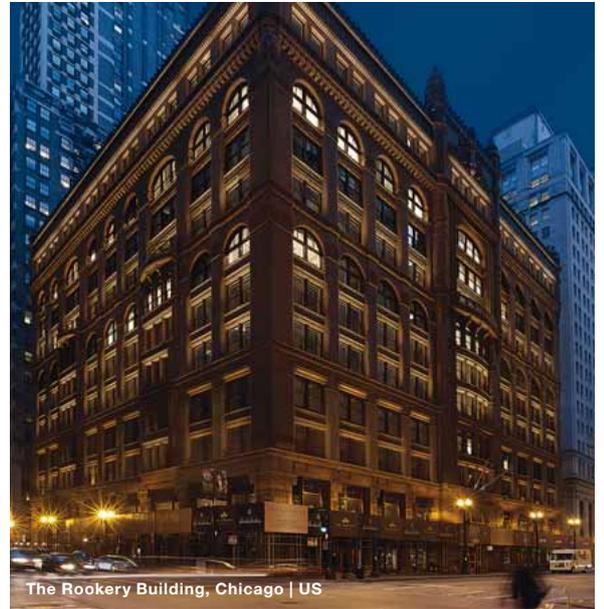
From architectural emphasis
to emotive centre stage
settings.

Light for Façades and Architecture

People find the nightscapes around them created by illuminated building façades. These façades facilitate orientation, convey messages, communicate emotions and create attention. Contemporary lighting solutions for building façades need to create added value for local authorities or have architectural or economic merit by making a location more beautiful and safer, showing a building off in the right light or getting a positive corporate image across. Achieving this demands great aesthetic design sensibility. Nowadays, however, lighting solutions also need to be sustainable, save resources and prevent unnecessary light pollution. Zumtobel is able to reconcile all these factors – with a range of luminaires that are specially adapted to cope with demanding lighting tasks. Zumtobel lighting solutions shape a building's architecture and accentuate details in a multifaceted manner by directing light very precisely. These luminaires also cut energy consumption thanks to the use of efficient high-power LEDs. This enables Zumtobel to strike a balance between cultural aspirations and the need to use resources responsibly. Intelligent lighting control systems supplement lighting, turning it into a complete solution that meets any requirements – from discreetly illuminated memorials through to façades that carry media messages.

Zumtobel. The Light.

References



Alta Business Center, Sarajevo, BA / Aros Kunstmuseum, Aarhus, DK / Arts Theatre, Zurich, CH / Balthasar-Neumann-Platz, Werneck, DE / Bauarena, Volketswil, CH / Buromac, Bruges, BE / Cheonan Shopping Galeria, Cheonan, KR / Clarion Apsley House, Glasgow, GB / District heating power plant, Klausen, IT / Dornier Museum, Friedrichshafen, DE / Emporio, Hamburg, DE / EXPO 2008, Zaragoza, ES / Falls Leisure Centre, Belfast, IE / FIFA, Zurich, CH / Gaislachkogelbahn, Sölden, AT / Growing by Numbers LED Festival, Milan, IT / Holocaust Memorial, Lemgo, DE / INCCC Harpa, Reykjavik, IS / John Madejski Academy, Reading, GB / Kunsthalle Wien, Vienna, AT / Lentos Museum, Linz, AT / Manor, Lugano, CH / Maxxi Museum, Rome, IT / Mirage Shopping Center, Zilina, SK / Mürwik Naval Academy, Flensburg-Mürwik, DE / Nordwesthaus Rohner, Fussach, AT / Onassis Foundation, Athens, GR / Palais des Congrès Square, Brussels, BE / Panorama Business Center, Prague, CZ / Parkhotel Weggis, Weggis, CH / Pouw car dealership, Zwolle, NL / Raiffeisen Central Bank, Vienna, AT / Rheinau Art Office, Cologne, DE / Rookery Building, Chicago, US / Scottish Parliament, Edinburgh, GB / Spar Supermarket, Fussach, AT / Sutterlüty, Hohenems, AT / Toulouse Metro station, Toulouse, FR / Turm der Lüfte, Bremen, DE / Vapiano, Oldenburg, DE / Viktoria Clinic, Bochum, DE / Water treatment plant, Liège-Oupeye, Oupeye, BE



SKENA LED | 10W | Cool white | Quadruple superspot

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Sustainable Lighting

Sustainable lighting is underpinned by modern LED technologies and control systems



IKONO-D S LED | 3x2W | Cool white | Flood

APHRODITE LED RBA/W | 40W



Exploiting the benefits of LEDs With modern façade lighting, taking sustainability into account is a matter of course at every stage. While we strive for the best possible energy efficiency, the lighting effect must impress the onlooker. Zumtobel reconciles these two aspects by using the latest state-of-the-art LED luminaires as a matter of priority.

- With up to 135 lm/W, LED luminaires are even more efficient than discharge lamps.
- A service life of 50,000 hours or more means that, assuming a burning time of 10 hours a day, luminaires remain maintenance free for up to 14 years.
- A combination of compact size and special optical systems enables lighting effects that are entirely novel considering the wattages used.
- Besides the classic method of illuminating a building in white light, façades can also be set centre-stage by using dynamic colour sequences, and buildings can also convey messages.
- LEDs have another huge advantage over conventional discharge lamps: LEDs emit light instantly. Zumtobel exploits this fact, in combination with digital control systems, to boost energy efficiency and optimise dynamic lighting installations.

DMX ballast box IP56 | 100 W | DC 24 V



PYLAS L LED RGB | 7 x 2 W | DMX | Flood



Ideal façade lighting In the past, wattages of 35 W to 400 W per lighting point were not unusual in the case of HIT floodlights, but many of the luminaire product ranges featured in this brochure operate at maximum wattages of only 25 W. The PYLAS S, PAN and LEDOS III spotlight ranges get by with just 1 W, and PYLAS M and IKONO S luminaires need no more than 10 W. Even our PYLAS XL flagship spotlights operate on 52.5 W, well below previous figures.

Positioning the luminaires right in the physical structure makes the lighting effect significantly better than with banks of high-wattage floodlights that are mounted with greater clearances: such floodlights can only stage a façade relatively inaccurately and are unsightly in the daytime.

Control is a crucial planning detail for any façade lighting: no two days are alike, the effect of light varies depending on the time of year, and a building or the area immediately adjacent to it is often laid out for various activities. Appropriately adaptive lighting creates added value.

Thanks to Pulse Width Modulation, Zumtobel's LED façade luminaires can often be driven by bus signals produced by any familiar lighting technology:

- SwitchDIM or sequencers are the simplest solution for individual luminaires and small sets of luminaires
- DALI control can also be coordinated with the interior lighting: dimming and limited dynamic colours on up to 2x64 channels
- DMX control for extensive colour-changing control of a relatively large set of RGB luminaires
- Video protocol for monitoring effects, individual luminaires are used as pixels and are individually controlled



DALI controllers achieve maximum functionality and user-friendliness when used with an EMOTION touch panel.

Product Design

A clear focus on application

PYLAS XL LED | 21 x 2.25W | Cool white | Flood

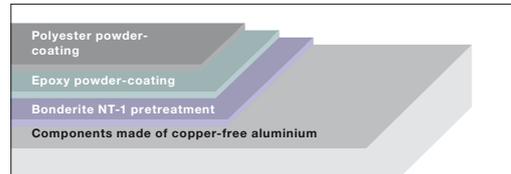




An example of quick installation: the SKENA luminaire head is fitted to a wall plate with a built-in power pack. Through-wiring is also possible.



An example of simple addressing: PYLAS L RGB, PYLAS XL RGB and IKONO M RGB solve the problem by using easily accessible rotary switches.



Excellent quality standard thanks to 3 protective layers.

Zumtobel façade luminaires are built with the individual aspirations of chief architects in mind, as well as lighting designers' preferences, the requirements of installers and the long-term needs of operators.

Application-oriented versatility

Façade luminaires have the task of illuminating different building shells – while blending unobtrusively into the background and becoming part of the façade. Zumtobel's product portfolio offers abundant ways of achieving this: recessed and surface-mounted luminaires that are used singly or in groups, depending on the particular task in hand. The surface-mounted luminaires have strictly geometrical shapes, while the recessed luminaires are invisible in the façade.

Easy installation and addressing

Because luminaires on a façade are often difficult to access, many product features are intended to simplify installation and avoid addressing errors. The time this saves reduces the cost of a project.

Long service life

With luminaires that, because of lighting technology and switching times, often have to operate for 20 years or more without needing maintenance, the durability of luminaire housings and mounting parts is absolutely crucial. What is more, many buildings are located in harsh environments, for instance buildings close to the sea which are exposed to salt-laden sea air. All Zumtobel façade luminaires are marine grade luminaires with heavy-duty protection and are therefore extremely durable.

- Luminaire housing and mounting parts are made of highest-grade, low-copper aluminium alloy.
- After environmentally-compatible cleaning by nano particles using bonderite technology, housings are given a dual-layer powder coating: first an epoxy layer, then a polyester layer is applied and stoved. This makes sure that the powder-coated components are protected against moisture and mechanical impact as well as against UV radiation.
- Mounting parts, screw fittings and mechanical connectors are made of highest-grade V4A special steel.

APHRODITE LED RBA/W | 40W





Product Matrix

Overview of Zumtobel façade luminaires

SPOTLIGHTS AND FLOODLIGHTS

PYLAS S



PYLAS M



PYLAS L



PYLAS XL



WALL-MOUNTED LUMINAIRES

Downlights
Downlights/uplights

IKONO-D S



IKONO-D M



IKONO-D L



IKONO-I/D S



IKONO-I/D M



IKONO-I/D L



WALL-MOUNTED LUMINAIRES

Special-effect luminaires

APHRODITE



SKENA 1



2 x narrow beam

SKENA 2



Narrow beam/wide angle

SKENA 3



4 x narrow beam

RECESSED LUMINAIRES

PAN



LEDOS III



PASO II



WALLWASHERS

HEDERA



LIGHT LINES

HILIO RGB

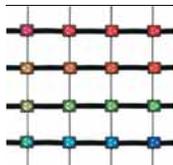


HILIO MONOCOLOR



MEDIA LUMINAIRES

CAPIX



HILIO RGB VC



PYLAS

Emphasising small details or illuminating wide areas: this extensive range of LED spotlights talks the same design language in all four sizes.

zumtobel.com/pylas





PYLAS

LED spotlight luminaire



PYLAS S LED



PYLAS M LED



PYLAS L LED



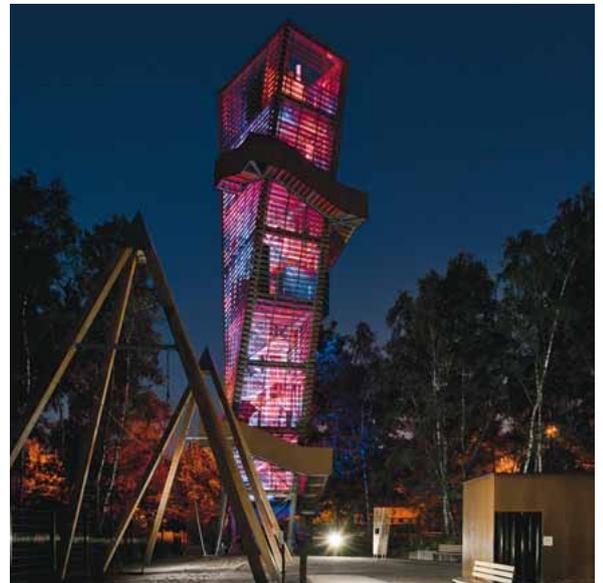
PYLAS XL LED

Extensive product range

The luminaire design features the same product family concept in all four sizes. This makes it possible to use PYLAS to illuminate details or surfaces while retaining the same design language. The clean, geometric lines of the stretched luminaire housing are relatively inconspicuous and blend into the façade. Rugged materials and dual-layer powder coating make these luminaires extremely robust and durable. As a marine grade luminaire with IP65/IP66 protection, it can even cope with the challenging environmental conditions encountered in coastal areas. White light PYLAS LED floodlights have excellent thermal and mechanical protection: their power units (230 V) are built into the luminaire housing.

PYLAS RGB in four sizes PYLAS uses state-of-the-art LED technology to create interesting colour-changing centre-stage settings like those seen in the “Turm der Lüfte” in Bremen. All four sizes of the colour-changing LED spotlights have a consistent design and use DMX 512 signals which are standard for RGB façade lighting. The DALI technology used in the interior can also be adapted as a custom solution for smaller projects.

In the PYLAS sizes L and XL, all power units (230V) are fitted ready for direct electrical contact, as are rotary switches for correct DMX addressing. Due to their miniaturised dimensions, PYLAS sizes S and M are 24V DC luminaires. They can be connected through PWM (Pulse Width Modulation) signals to a separate IP56 DMX supply box which is available as an accessory. The luminaires can also be controlled individually via three-channel PWM power units (24V) using sequencers, 1–10 V or DALI signals. Using well-known market standards allows a high degree of flexibility in an extremely wide variety of projects.



Turm der Lüfte, Bremen | DE

Light design: Lichtwerke Bremen, Bremen | DE
Lighting solution: PYLAS L LED RGB floodlights



PYLAS S LED RGB



PYLAS M LED RGB



PYLAS L LED RGB



PYLAS XL LED RGB



Narrow-beam or wide-angle: extremely efficient lenses add the perfect finishing touch to high-precision lighting technology with system luminous flux levels in excess of 60 lm/W.



The luminaire head is positioned securely by an adjustable graduated swivel joint and two hexagon socket screws.



Tight-fitting glass panes flush-mounted in the frame prevent trapped rainwater from causing dirt marks, thereby reducing illuminance. The luminaire is almost self-cleaning.



A hinge allows the glass cover to be folded down if maintenance or cleaning is required. Convenient single-handed installation from a ladder or an aerial platform makes maintenance easy and safe.

PYLAS

Size S

PYLAS S LED | 1.2W | Cool white | Flood



PYLAS S

The compact dimensions of LEDs pave the way for miniaturising luminaires, especially those used for accent lighting. This is a particularly attractive aspect, especially for façade lighting. Used alone or in conjunction with LEDOS III and PAN, PYLAS S allows entirely new approaches to lighting design using luminaires that consume just 1.2W.

All PYLAS S luminaires are fitted with a 500 mm lead and an IP67 cramping connector to ensure easy electrical contact. The white-light floodlights have a built-in mains transformer. RGB luminaires need a DMX ballast box (accessory) to relay DMX signals, but can also be driven by 1–10V or DALI signals.

PYLAS S

Power consumption

1 x 1.2W LED white
3 x 1.2W LED RGB

Luminous flux of luminaire

PYLAS S white: 60–96 lm

Beam angle

7° superspot
31° flood

Colour temperature

3200K | 6000K | RGB changing colours

Service life

50,000 hrs. at up to 70% luminous flux

Protection type/protection class

IP66, protection class I LED white (AC/DC 230 V)
IP66, protection class III LED RGB (DC 24 V)

Swivel range

Approx. -40° to +90°

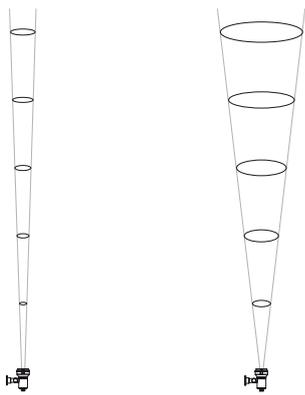
Accessories

Anti-glare shield, ground spike, mounting clasp,
IP56 DMX ballast box

PYLAS S LED RGB | 3x1.2W | Flood



PYLAS S lighting cone



7° (6000K)			23° (6000K)		
5 m	Ø 0.58 m	165 lx	5 m	Ø 2.00 m	13 lx
4 m	Ø 0.46 m	258 lx	4 m	Ø 1.60 m	20 lx
3 m	Ø 0.35 m	459 lx	3 m	Ø 1.20 m	36 lx
2 m	Ø 0.23 m	1032 lx	2 m	Ø 0.80 m	80 lx
1 m	Ø 0.12 m	4130 lx	1 m	Ø 0.40 m	320 lx



White light with narrow-beam or flood light distribution



Used with a mounting strap, the spotlight can be installed quickly and easily on piers, balustrades or load-bearing elements.



A ground spike allows flexible, even temporary installation



Anti-glare shield for perfect glare control in conformity with Dark Sky specifications

PYLAS

Size M

PYLAS M LED | 4x2.25W | Cool white | Flood



PYLAS M

Accentuates and illuminates projecting features, objects, smaller columns or other details on façades: in situations where 50 W or 75 W halogen spotlights were previously used, nowadays it is possible to use 10 W lighting points very efficiently; in addition, they have a service life that is roughly 25 times longer. The mains transformer is already fitted in the white light floodlights.

PYLAS M RGB consumes no more than 8W to produce dynamic colour sequences. Relaying DMX signals requires a DMX ballast box (accessory), but the RGB floodlights can also be driven by 1–10 V or DALI signals.

IP56 DMX ballast box For power supply, electric feed and relaying the DMX signal: on the secondary side of the ballast box for RGB luminaires, there are four cable glands for connecting four luminaires or sets of luminaires that are interconnected via distribution boxes. Therefore, all connected 24 V DC luminaires have the same address, which ensures synchronous sequencing. The DMX supply box is wall mounted in the vicinity of the luminaire (up to 50 m away). One unit can be connected to up to 20 PYLAS S RGB or 8 PYLAS M RGB spotlights. Pre-programmed standard colour sequences can be generated using appropriate DIP switch settings in the DMX supply box.

PYLAS M

Power consumption

4 x 2.25 W LED white
4 x 2 W LED RGB

Luminous flux of luminaire

PYLAS M white: 370–550 lm

Beam angle

7° superspot
23° flood

Colour temperature

3200 K | 6000 K | RGB changing colours

Service life

50,000 hrs. at up to 70 % luminous flux

Protection type/protection class

IP66, protection class I LED white (AC/DC 230 V)
IP66, protection class III LED RGB (DC 24 V)

Swivel range

Approx. -21° to +201°

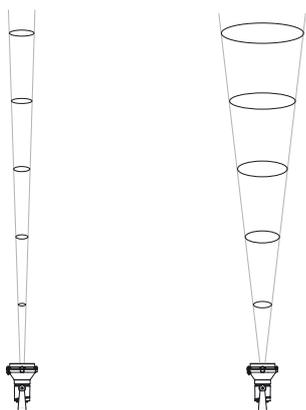
Accessories

Anti-glare shield, ground spike,
IP56 DMX ballast box

PYLAS M LED RGB | 4x2W | Flood



PYLAS M lighting cone



7° (6000K)			22° (6000K)		
10 m	Ø 1.19 m	222 lx	10 m	Ø 3.96 m	20 lx
8 m	Ø 0.95 m	347 lx	8 m	Ø 3.17 m	31 lx
6 m	Ø 0.71 m	617 lx	6 m	Ø 2.38 m	55 lx
4 m	Ø 0.48 m	1388 lx	4 m	Ø 1.58 m	125 lx
2 m	Ø 0.24 m	5552 lx	2 m	Ø 0.79 m	499 lx



DMX ballast box with terminals and DMX controller



Anti-glare shield for perfect glare control in conformity with Dark Sky specifications

PYLAS

Size L

PYLAS L LED | 7 x 2.25 W | Cool white | Superspot



PYLAS L

100 W halogen spotlights or 20 or 35 W HIT spotlights were previously used to illuminate vertical surfaces, columns and balconies on façades. With a power draw of just 17.5 W, PYLAS L offers similar lighting levels, plus high efficiency and a service life of 50,000 hours. As a colour-changing LED floodlight, it still only draws 14 W max.

Both types are completely self-contained and can be connected directly to the mains supply and bus supply. The models that produce white light include a mains transformer and a terminal block for through-wiring. The RGB luminaire housing contains a DMX converter and rotary switches used for addressing.

PYLAS L

Power consumption

7 x 2.25 W LED white
7 x 2 W LED RGB

Luminous flux of luminaire

PYLAS L white: 790–1015 lm

Beam angle

6° superspot
22° flood

Colour temperature

3200 K | 6000 K | RGB changing colours

Service life

50,000 hrs. at up to 70 % luminous flux

Protection type/protection class

IP66, protection class I LED white (AC/DC 230 V)
IP65, protection class I LED RGB

Swivel range

Approx. -14° to +194°

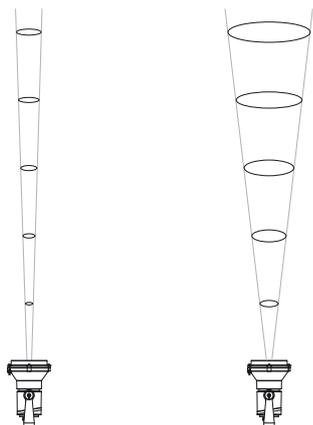
Accessories

Anti-glare blades, anti-glare shield,
ground spike, clamp for fitting to masts

PYLAS L LED RGB | 7x2W | Flood



PYLAS L lighting cone



7° (6000K)		
20 m	Ø 2.45 m	123 lx
16 m	Ø 1.96 m	192 lx
12 m	Ø 1.47 m	342 lx
8 m	Ø 0.98 m	770 lx
4 m	Ø 0.49 m	3079 lx

22° (6000K)		
20 m	Ø 7.85 m	11 lx
16 m	Ø 6.28 m	17 lx
12 m	Ø 4.71 m	30 lx
8 m	Ø 3.14 m	67 lx
4 m	Ø 1.57 m	269 lx



White light with narrow-beam or flood light distribution



A ground spike allows flexible, even temporary installation



Anti-glare shield for perfect glare control in conformity with Dark Sky specifications

PYLAS

Size XL

PYLAS XL LED | 21 x 2.25 W | Cool white | Flood



PYLAS XL

The largest unit in this product range is designed to illuminate correspondingly large vertical surfaces, tall columns and façade features. With a power consumption of just over 50 W and a service life of 50,000 hours, PYLAS XL is a great alternative to the 70 W HIT spotlights that were usually used for this purpose. Floodlights with white LEDs have a built-in power converter and a terminal block for through-wiring.

The colour-changing PYLAS XL with RGB gets by with just 25 W. A DMX converter and rotary switches used for addressing are already fitted. Both the white and colour-changing PYLAS XL floodlights are therefore completely self-contained and can be connected directly to the mains supply and bus supply.

PYLAS XL

Power consumption

21 x 2.25 W LED white
21 x 2 W LED RGB

Luminous flux of luminaire

PYLAS XL white: 870–3600 lm

Beam angle

6° superspot
22° flood

Colour temperature

3200 K | 6000 K | RGB changing colours

Service life

50,000 hrs. at up to 70 % luminous flux

Protection type/protection class

IP66, protection class I LED white (AC/DC 230 V)
IP65, protection class I LED RGB

Swivel range

Approx. -19° to +199°

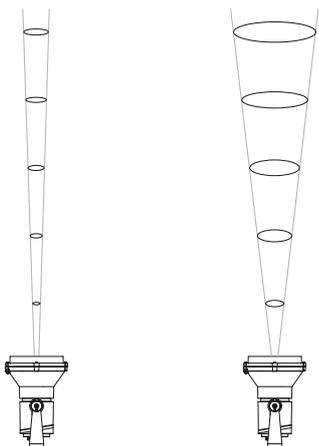
Accessories

Anti-glare blades, anti-glare shield,
clamp for fitting to masts

PYLAS XL LED RGB | 21 x 2W | Flood



PYLAS XL lighting cone



7° (6000K)

40 m	Ø 4.89 m	93 lx
32 m	Ø 3.91 m	145 lx
24 m	Ø 2.94 m	257 lx
16 m	Ø 1.96 m	579 lx
8 m	Ø 0.98 m	2317 lx

22° (6000K)

40 m	Ø 15.70 m	8 lx
32 m	Ø 12.56 m	12 lx
24 m	Ø 9.42 m	21 lx
16 m	Ø 6.28 m	48 lx
8 m	Ø 3.14 m	192 lx



White light with narrow-beam or flood light distribution



Highly efficient RGB colour-changing lighting with flood light distribution



Easy addressing: addressing in the case of PYLAS L RGB and PYLAS XL RGB is performed easily via three rotary switches that are accessed by unscrewing a cover.

PYLAS HIT

Sizes L and XL

PYLAS L and XL HIT

Power consumption

PYLAS L HIT-CRI 35W
 PYLAS XL HIT-CRI 70W and 150W

Luminous flux of luminaire

PYLAS L HIT 35W: 2700 lm
 PYLAS XL HIT 70W: 4200 lm
 PYLAS XL HIT 150W: 9000 lm

Beam angle

6° superspot
 29° flood

Protection type/protection class

IP66, protection class I

Swivel range

PYLAS L HIT: approx. -14° to +194°
 PYLAS XL HIT: approx. -19° to +199°

Accessories

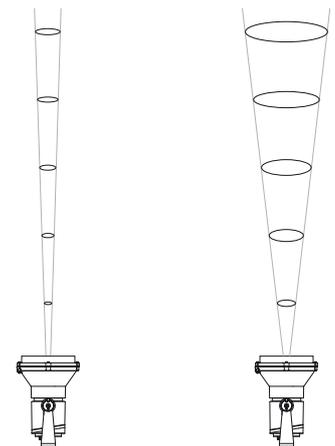
Anti-glare blades, anti-glare shield, anti-glare tube, ground spike (PYLAS L only), clamp for fitting to masts, oval outline lens, radial louvre, replaceable flood lens

PYLAS L HIT and PYLAS XL HIT

The size L and XL PYLAS also uses classic HIT technology. They can be used to embellish existing façades that are illuminated by HIT lamps. These luminaires can handle lighting tasks that involve large surface areas and long distances, for instance in situations where the required lighting level exceeds the luminous flux of the LED models.

The floodlights with HIT lamps have the same features as the LED models and are fitted with a terminal block for through-wiring. Thanks to the reflector technology used and the lenses and anti-glare grille that are available as accessories, PYLAS L and XL HIT achieve excellent photometric results.

PYLAS L HIT lighting cone

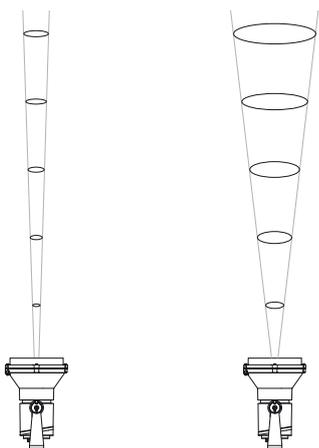


5°			28°		
20 m	Ø 1.82 m	372 lx	20 m	Ø 10.05 m	27 lx
16 m	Ø 1.45 m	581 lx	16 m	Ø 8.04 m	42 lx
12 m	Ø 1.09 m	1034 lx	12 m	Ø 6.03 m	75 lx
8 m	Ø 0.73 m	2326 lx	8 m	Ø 4.02 m	168 lx
4 m	Ø 0.36 m	9302 lx	4 m	Ø 2.01 m	671 lx

PYLAS XL HIT-CE | 150W | Flood



PYLAS XL HIT 150W lighting cone



7°		
40 m	Ø 4.89 m	173 lx
32 m	Ø 3.91 m	270 lx
24 m	Ø 2.94 m	480 lx
16 m	Ø 1.96 m	1081 lx
8 m	Ø 0.98 m	4323 lx

26°		
40 m	Ø 18.18 m	32 lx
32 m	Ø 14.54 m	51 lx
24 m	Ø 10.91 m	90 lx
16 m	Ø 7.27 m	202 lx
8 m	Ø 3.64 m	809 lx



In all wattages: flood and spot beam pattern



Quick and easy one-handed relamping: luminaire glass opens with a hinge



Black anti-glare tube made of hot-dipped galvanised sheet steel for PYLAS XL: perfect glare control in conformity with Dark Sky specifications



Radial louvre, optimised for spot or flood reflectors, respectively: perfect glare control in conformity with Dark Sky specifications



Ellipsoid lens (oval outline lens) for spot reflectors: stretched, linear light distribution is ideal for illuminating columns or lettering



Replaceable flood lenses for flood reflectors: wide-angle light distribution is fanned out even more

IKONO

Creative design using light:
downlights and downlights/uplights
in three square sizes structure
façades with a wealth of patterns
and effects.

zumtobel.com/ikono





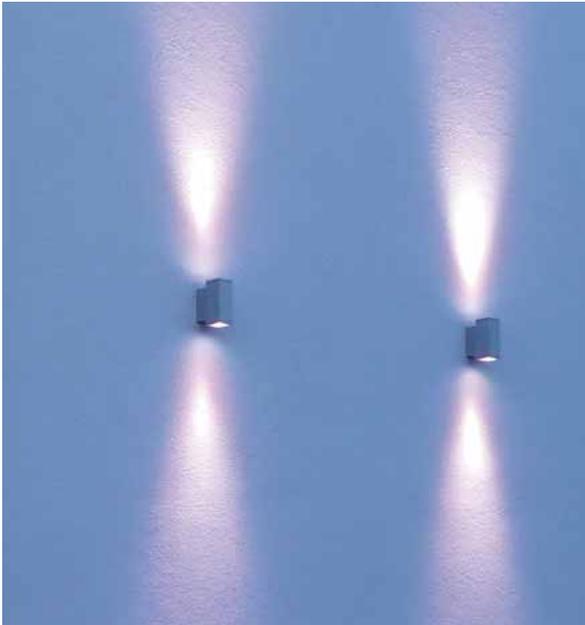
 **ZUMTOBEL**

IKONO

Wall-mounted LED luminaire

Zumtobel GmbH, Lemgo | DE

Lighting solution: IKONO-I/D S RGB wall-mounted LED luminaire



IKONO-D S LED | 3 x 2 W | Cool white | Spot



Light patterns and colour effects

Wall-mounted luminaires that deliver directional light, fulfil functional lighting tasks and are also used as design elements. IKONO luminaires provide direct and indirect/direct illumination that can stretch or accentuate a façade, giving it an intriguing appearance in the dark.

Previously, these luminaires, especially when used in smaller sizes, were fitted with not very energy-efficient halogen lamps. Now, every IKONO size exploits the benefits of LEDs – with warm white or cool white, narrow-beam or wide-angle cones of light. The smaller and medium-sized IKONO S RGB and IKONO M RGB harness the emotive effects of colour-changing light. They are primarily used in entrance areas of event locations, restaurants and catering facilities, or in passageways. These luminaires are used to lend structure to buildings and break up the different sections of a building to great effect. They are controlled by DMX signals or by project-specific, customer-provided bus signals.

IKONO-D M LED RGB | 15 W | Flood



IKONO-D L LED | 25 W | Cool white | Flood



DMX ballast box with terminals and DMX controller



Time-saving quick-disconnect connector: mounting plate with plug/socket system for internal voltage and bus supply between wall plate and luminaire housing



Built-in mains transformer and DMX addressing for IKONO M RGB with wide-angle light distribution



Lighting head can swivel in luminaire housing: cones of light can be accurately adjusted on the wall



Impressive illuminance levels thanks to leading LED technology: IKONO S draws just 6 W



Multichip LEDs for sizes M and L: just 15 W and 25 W are sufficient for the high illuminance levels and precise light guidance that have been perfected by Zumtobel with specially developed sputter-coated plastic reflectors that ensure high light output ratios.



Flush-fitted glass diffusers with no raised luminaire frame prevent dirt accumulation and the reduced light that this causes. The luminaire is almost self-cleaning.

IKONO

Wall-mounted LED luminaire

IKONO-D S LED RGB | 3x2W | Flood



IKONO

Power consumption

IKONO S: 1 or 2x6W LED
1 or 2x6W LED RGB
IKONO M: 1 or 2x15W LED
1 or 2x13W LED RGB
IKONO L: 1 or 2x25W LED

Luminous flux of luminaire (downlight)*

IKONO-S white: 240–360 lm
IKONO-M white: 950–1000 lm
IKONO-L white: 1800–2015 lm

Beam angle

12° spot, 24° flood, size S
15° spot, 42° flood, size M
11° spot, 41° flood, size L

Colour temperature, white

3200K and 6000K, size S
3000K and 6500K, sizes M and L

Service life

50,000 hrs. at up to 70% luminous flux

Protection type/protection class

IP65, protection class I (AC/DC 230V)
IP65, protection class III LED RGB IKONO S (DC 24V)

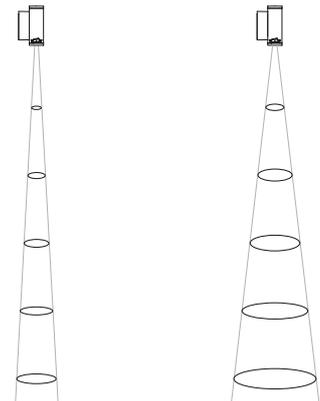
Swivel range

Approx. +/- 15°

Accessories

DMX ballast box for IKONO S LED RGB

IKONO-D S lighting cone



12° (6000K)

1 m	Ø 0.21 m	6440 lx
2 m	Ø 0.41 m	1610 lx
3 m	Ø 0.62 m	716 lx
4 m	Ø 0.83 m	402 lx
5 m	Ø 1.03 m	258 lx

24° (6000K)

1 m	Ø 0.43 m	1645 lx
2 m	Ø 0.85 m	411 lx
3 m	Ø 1.28 m	183 lx
4 m	Ø 1.70 m	103 lx
5 m	Ø 2.13 m	66 lx

* Note: The luminaire's luminous flux specified is doubled for all downlight/uplight models.

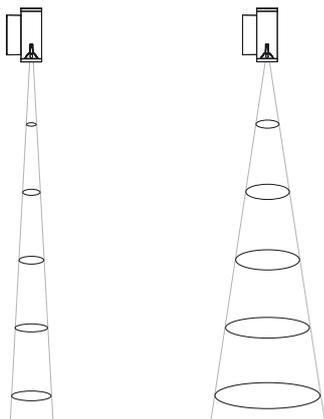
IKONO-D M LED | 15 W | Warm white | Spot



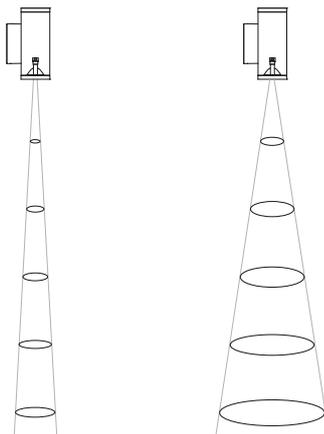
IKONO-D L LED | 25 W | Warm white | Flood



IKONO-D M lighting cone



IKONO-D L lighting cone



15° (6500 K)

2 m	Ø 0.54 m	2085 lx
4 m	Ø 1.08 m	521 lx
6 m	Ø 1.62 m	232 lx
8 m	Ø 2.16 m	130 lx
10 m	Ø 2.70 m	83 lx

42° (6500 K)

2 m	Ø 1.41 m	587 lx
4 m	Ø 2.82 m	147 lx
6 m	Ø 4.23 m	65 lx
8 m	Ø 5.63 m	37 lx
10 m	Ø 7.04 m	23 lx

11° (6500 K)

2 m	Ø 0.45 m	5745 lx
4 m	Ø 0.90 m	1436 lx
6 m	Ø 1.35 m	638 lx
8 m	Ø 1.79 m	359 lx
10 m	Ø 2.24 m	230 lx

41° (6500 K)

2 m	Ø 1.36 m	1078 lx
4 m	Ø 2.72 m	269 lx
6 m	Ø 4.09 m	120 lx
8 m	Ø 5.45 m	67 lx
10 m	Ø 6.81 m	43 lx

IKONO HIT

Wall-mounted LED luminaire

IKONO HIT

Power consumption

1 or 2 x 35W HIT size M
1 or 2 x 70W HIT size L

Luminous flux of luminaire*

IKONO HIT 35W: 2450 lm
IKONO HIT 70W: 3450–3800 lm

Beam angle

10° spot
30° flood

Protection type/protection class

IP65, protection class I (230 V AC/DC)

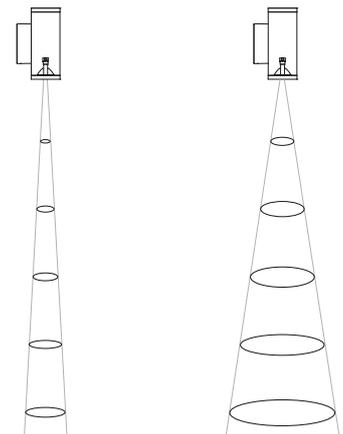
Swivel range

Approx. +/- 15°

IKONO with metal halide lamps

Larger façades, such as the exteriors of shopping centres, warehouses, railway stations and terminals, require relatively large light patterns as well. This is where the M and L size IKONO HIT luminaire comes into its own: as a luminaire with direct or indirect/direct light distribution and the option of narrow-beam or wide-angle lighting characteristics, it offers plenty of creative design scope.

IKONO L HIT lighting cone



10°			30°		
2 m	Ø 0.31 m	12,314 lx	2 m	Ø 1.04 m	2,519 lx
4 m	Ø 0.63 m	3,079 lx	4 m	Ø 2.08 m	630 lx
6 m	Ø 0.94 m	1,368 lx	6 m	Ø 3.13 m	280 lx
8 m	Ø 1.26 m	770 lx	8 m	Ø 4.17 m	157 lx
10 m	Ø 1.57 m	493 lx	10 m	Ø 5.21 m	101 lx

* Note: The luminaire's luminous flux specified is doubled for all downlight/uplight models.



IKONO-I/D L HIT-CE | 70W

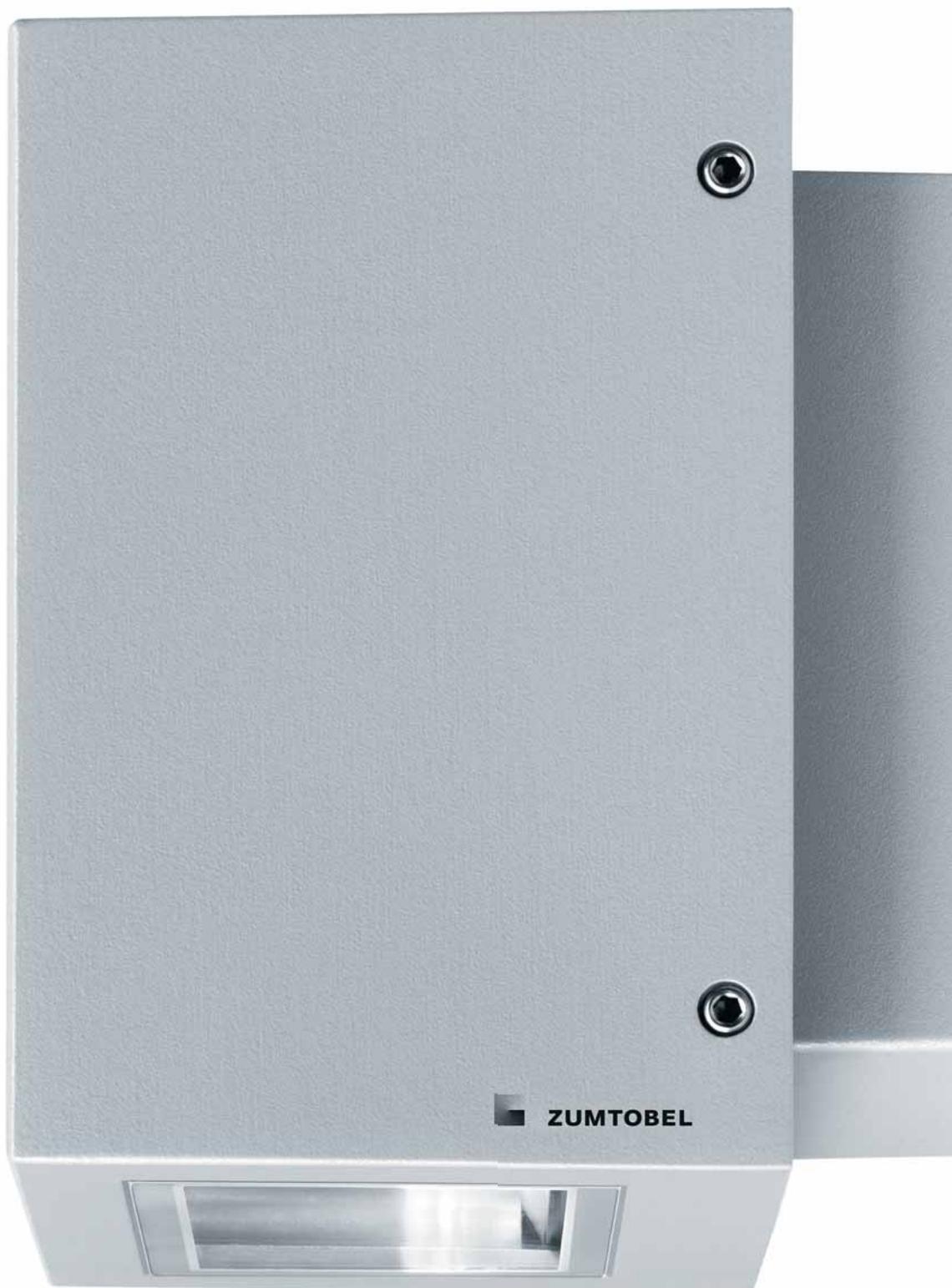


IKONO HIT is fitted with a highly efficient aluminium reflector. Relamping is quick and easy by opening the luminaire glass panels in the cover frame.

SKENA

From sensational eye-catcher to geometrical structures: this wall-mounted LED luminaire sets the scene for façades with exceptional light patterns.

zumtobel.com/skena



 **ZUMTOBEL**

SKENA

Wall-mounted special-effects LED luminaire

Vapiano restaurant, Oldenburg | DE
Project showing one possible application



Striking geometry

Wall-mounted special effects luminaires are a fascinating tool for painting walls and façades with light and making them look stunningly different. In the past, it was mainly high-wattage halogen and discharge lamps that were used to achieve this, but SKENA now uses advanced LED technology: used in combination with optimised optical systems, it needs just 10W to produce impressive results. Thanks to three different luminaire types with different numbers of light windows and different light distributions, the creative design possibilities are almost boundless. These LED cubes can be positioned on a façade in various ways. Single luminaires or small groups can be used as eye-catchers. A larger number of luminaires can be positioned geometrically for more expansive configurations that have a correspondingly greater long-distance effect; the luminaires can also be rotated in 45° increments. In particular, this is a way of giving surfaces that appear somewhat monotonous in the day a fascinating night-time look without breaking the bank.

SKENA

Power consumption

10 W

Luminous flux of LED

784 lm

Colour temperature

6000K

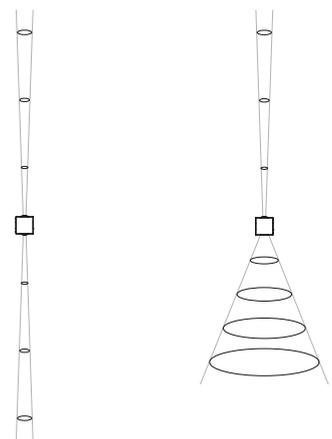
Service life

50,000 hrs. at up to 70 % luminous flux

Protection type/protection class

IP65, protection class I (230 V AC/DC)

SKENA lighting cone



2° (6000K)

3 m	Ø 0.00 m	0.5 lx
2 m	Ø 0.00 m	3 lx
1 m	Ø 0.00 m	130 lx

2° (6000K)

3 m	Ø 0.00 m	0.5 lx
2 m	Ø 0.00 m	3 lx
1 m	Ø 0.00 m	130 lx

2° (6000K)

1 m	Ø 0.00 m	130 lx
2 m	Ø 0.00 m	3 lx
3 m	Ø 0.00 m	0.5 lx

66° (6000K)

0.5 m	Ø 0.00 m	60 lx
1.0 m	Ø 0.00 m	24 lx
1.5 m	Ø 0.00 m	7 lx
2.0 m	Ø 0.00 m	3 lx

SKENA LED | 10W | Cool white
 Quadruple superspot



SKENA 1

Narrow-beam uplight and downlight



Elegant grazing light in two directions divides up vertical surfaces to great effect, lending them extravagant appeal and new shine.

SKENA 2

Narrow-beam uplight, wide-angle downlight



SKENA uses two different cones of light to combine a wallwashing effect with wall outlining over a defined length.

SKENA 3

Narrow-beam in all four directions



Narrow-beam cones of light from all four sides of the cube paint star-shaped effects on the wall.



The SKENA luminaire head is attached to the wall plate with a built-in power pack and allows the possibility of through-wiring.



The optical system comprises a conical, highly specular reflector and an LED board that emits an indirect light beam and narrow-beam or wide-angle glass lenses.

APHRODITE

Unique, emotionally charged lighting scenes: this LED spotlight features randomly variable light, colour and action.

zumtobel.com/aphrodite





APHRODITE

Spotlight for special lighting effects

APHRODITE lighting scenes



“Light reflected on the sea, on glass and in sunlit water have always fascinated me. For me, the APHRODITE spotlight embodies precisely this diversity which only light is capable of conveying: moving light creates a sense of well-being, invites contemplation and encourages communication and creativity. Everyone is familiar with the fascinating images that we imagine in the flickering light of a fire. Atmospheric images spring to life naturally as if of their own accord – APHRODITE does the same thing. This LED spotlight unites all the qualities of the emotive effects of light and enhances them with a unique balance of sensuality and rationality. Through intensive cooperation with Zumtobel and cutting-edge LED technology, we have managed to turn this philosophy into reality.”



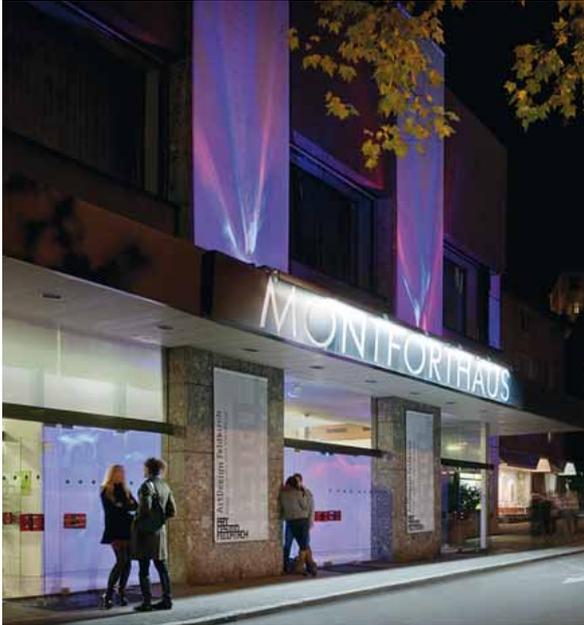
Nik Schweiger
Interior designer BDIA
biorhythm Design Studio, Berlin

APHRODITE

Special-effects LED spotlight

ArtDesign, Feldkirch | AT

Lighting solution: APHRODITE 40W



APHRODITE LED RBA/W | 40W | Ceiling mounted

Functional, emotive special-effect lighting

The APHRODITE LED spotlight combines light, colour and movement in a fascinating manner that makes it possible to set façades and rooms centre-stage in an impressive way. Based on the lighting spectacles found in nature, a unique lighting concept has been developed that is characterised by highly emotive lighting scenes. This is made possible by continuously flowing, ever-changing light projected by a system incorporating a special LED module and a rotating glass cylinder (patent pending).

Objective, emotive or passionate? APHRODITE produces the required ambience. A choice of seven pre-defined lighting scenes with three speeds and various dimming levels is available. They create richly varied lighting scenarios from functional white light in various colour temperatures, combined with coloured light from red, blue and amber LEDs.

It is very easy to operate the spotlight: individual lighting scenes, and the projection direction and speed can be set manually via momentary-action switches on the spotlight or by remote control via DMX protocol. The luminaire comes ready to connect and is fitted with an earthing pin plug.

Thanks to IP65 protection and the use of materials that are highly resistant to chlorine, APHRODITE is also an eye-catcher in wellness areas or swimming pools, inviting people to relax. APHRODITE is also extremely flexible when it comes to installation: its mounting bracket ensures secure fixing to walls, ceilings and floors.

APHRODITE

LED service life

50,000 hrs. at up to 70% luminous flux

Colour temperature

White tones: 3000K, 4200K, 6500K
Colours: red, amber, blue

Protection type/protection class

IP65, protection class III



Housing made of die-cast aluminium with high-grade matt white powder coating (RAL 9016); IP65 protection, excellent protection against corrosion and use of materials that are highly resistant to chlorine make this luminaire suitable for use in wellness areas and swimming pools.

DMX control via XLR 5 connector

Manual operation via push-button; left-hand momentary-action switch for speed setting and reduced illuminance; right-hand momentary-action switch for setting one of seven pre-defined lighting scenes and increased illuminance.



An in-house developed LED module and the specially designed, motor-driven glass cylinder produce refracted light that is projected in constantly changing, fascinating light patterns.



An effective ribbed structure ensures a well-balanced cooling system and adds a final flourish to the design.



PAN

Concealed in the façade: this accent-lighting recessed LED luminaire makes a completely new idea for individual building stage settings come to life.

zumtobel.com/pan



PAN

Recessed LED luminaire

Zumtobel GmbH, Lemgo | DE

Lighting solution: illumination of window bays using PAN



The miniaturised alternative to conventional floodlights

With its extremely compact size and low power consumption, PAN has perfected centre-stage settings that are as individual and energy-saving as possible. Precise light distribution sets PAN apart from bulky floodlights that throw light across large areas of façades and often look out of place in the daytime.

Product development focused on illuminating windows, parapets and alcoves: PAN is a recessed luminaire that blends seamlessly into the façade structure; an equally discreet surface-mounted housing is available as an accessory. With three different beam patterns, the miniaturised LED luminaire caters for specific lighting needs: window reveals are precisely lit with an ellipsoidal lens, and a specially developed anti-glare device eliminates any trace of glare. Façade details are selectively illuminated by rotationally symmetrical spot and flood optics.

PAN

Power consumption

1.25 W

Luminous flux of luminaire

77–100 lm

Beam angle

11° spot

37° flood

Asymmetric, ellipsoidal

Colour temperature

3200 K | 6000 K

Service life

50,000 hrs. at up to 70 % luminous flux

Protection type/protection class

IP65, protection class III (350 mA)

Accessories

Anti-glare shutters, surface-mounted housing, IP55 supply box

PAN LED | 1.25 W | Cool white | Flood

PAN LED | 1.25 W | Warm white | Spot

PAN LED | 1.25 W | Cool white | Asymmetric optic

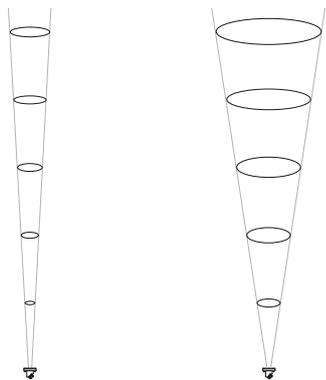


Wide-angle flood optic: 37°

Narrow-beam spot optic: 11°

Ellipsoidal lens for precisely lit window bays

PAN lighting cone

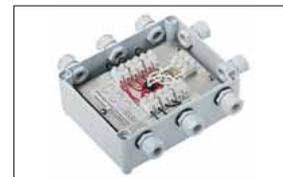


11° (6000 K)			37° (6000 K)		
5 m	Ø 0.93 m	65 lx	5 m	Ø 2.94 m	8 lx
4 m	Ø 0.74 m	101 lx	4 m	Ø 2.35 m	13 lx
3 m	Ø 0.56 m	180 lx	3 m	Ø 1.77 m	23 lx
2 m	Ø 0.37 m	404 lx	2 m	Ø 1.18 m	51 lx
1 m	Ø 0.19 m	1617 lx	1 m	Ø 0.59 m	203 lx



Cube-shaped surface-mounted housing for surface mounting of the type required on buildings that have protected historical monument

Direct wiring and electrical contact are completely protected against moisture: the 3 m factory-fitted power cord is also available in special lengths for specific projects



Anti-glare shutters combined with ellipsoidal lens in window bays that are particularly susceptible: prevents entry and escape of distracting scattered light

Compact IP55 supply box for convenient installation of 6 or fewer PAN luminaires: includes switched power pack, contact terminals (series connection) and jumpers for any electric feeds that are not used

LEDOS III

This small all-round luminaire combines huge versatility with great efficiency when recessed into the wall, ceiling or floor.

zumtobel.com/ledos_III



LEDOS III

Recessed LED luminaire

LEDOS III S D 30mm
LED 1 x 0.6W | Scale 1:1



Miniaturisation meets variety and efficiency

LEDOS has already become a classic in the market for LED luminaires which is still relatively young, and the third-generation luminaires are even smaller and more efficient. The product range includes highly versatile recessed luminaires for walls, floors and ceilings. LEDOS guides people towards a building, discreetly lights entrance areas and archways, accentuates façade elements and draws attention to danger areas such as steps and projections.

LEDOS III S With a diameter of just 30 mm, LEDOS III S provides decorative architectural accent lighting and improves orientation and guidance. Round and square models, each with a choice of flat or domed lenses, are available. When used as orientation luminaires, the domed lenses have the great advantage of being visible from afar also when viewed at shallow angles. The fully matt, opal surfaces of these luminaires ensure glare-free, uniform illumination and have an excellent long-distance effect. All LEDOS III S luminaires are available in dimmable versions that use Pulse Width Modulation (24 V), and with power supply units that are available as an accessory, using bus signals for DALI, 1–10 V and sequencers.

LEDOS III M Fitted with powerful power LEDs, the small 45 mm LEDOS III M is highly flexible when used as a wall-mounted, floor-recessed or ceiling-recessed luminaire for façade lighting. Both shapes, round or square, use appropriate beam patterns to perform different lighting tasks: narrow-beam lenses create lighting accents with cones of light that are up to 3 m long. Wide-angle optics direct attention to surfaces and objects. Asymmetric lens technology is used to illuminate stairs, entrance areas and passageways safely.

LEDOS III S

Power consumption
0.6 W

Beam angle
Diffuse
Flat or domed diffuser

Colour temperature
3200 K | 6000 K

Service life
50,000 hrs. at up to 70 % luminous flux

Protection type/protection class
IP67, protection class III

Accessories
Concrete casting surround, installation kit for cavity mounting

LEDOS III M D 45 mm
LED 1 x 1.25 W | Scale 1:1



LEDOS III S Q 29 mm
LED 1 x 0.6 W | Scale 1:1



LEDOS III M Q 43 mm
LED 1 x 1.25 W | Scale 1:1



LEDOS III M

Power consumption
1.25 W

Luminous flux of luminaire
24–62 lm

Beam angle
Spot, flood
Diffuse or asymmetric light distribution

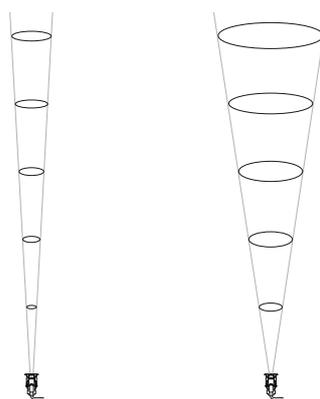
Colour temperature
3200 K | 6000 K

Service life
50,000 hrs. at up to 70 % luminous flux

Protection type/protection class
IP67, protection class III

Accessories
Concrete casting surround, installation kit for cavity mounting

LEDOS III M lighting cone



7° (6000 K)			29° (6000 K)		
2.5 m	Ø 0.00 m	1 lx	2.5 m	Ø 0.00 m	0.0 lx
2.0 m	Ø 0.00 m	2 lx	2.0 m	Ø 0.00 m	0.0 lx
1.5 m	Ø 0.00 m	6 lx	1.5 m	Ø 0.00 m	0.5 lx
1.0 m	Ø 0.00 m	71 lx	1.0 m	Ø 0.00 m	2.0 lx
0.5 m	Ø 0.00 m	84 lx	0.5 m	Ø 0.00 m	13.0 lx



Special steel springs: this accessory is used to fix LED luminaires quickly and securely, for example in wooden floors (5 to 20 mm thick).



The luminaire housing has a permanently moulded-on 2 mm thick special-steel trim, thus making the ingress of any moisture through the top of the housing impossible.

LEDOS III

Individual solutions for every façade

LEDOS III has an asymmetric beam pattern in order to illuminate stairs vertically



Extremely wide variety of lighting tasks

Stair lighting LEDOS III's asymmetric fresnel lens accurately directs light onto steps and circulation areas. It takes care of orientation and safety. An unmistakable marking on the luminaire indicates the correct mounting direction, thus ensuring that the luminaire can be installed quickly without any risk of a mix-up.

LEDOS III installation LEDOS III's IP67 protection makes it ideal for use in façades or adjacent areas. This recessed luminaire has a shallow mounting depth and displays its strength regardless how it is installed: in cavity walls and ceilings, on raised floors with counter-battens or using a casting surround in any base.

LEDOS III M uses all the benefits of power LEDs but has been designed as a 24 V DC version. This allows simple parallel wiring, and a malfunctioning luminaire can be identified without the entire circuit failing. Built-in bridge rectifiers ensure polarity insensitivity, so that inadvertently reversing positive and negative polarity will have no effect on operating capability.

The uniqueness of LEDOS III S and LEDOS III M lies in their size and the use of an electrical cramping connector (patent pending).

LEDOS III M and LEDOS III L luminaires with cable assemblies are electrically connected via cable connectors: to do this, the cable ends are inserted and sealed in the terminals in the same way as with a cable gland. In the well-sealed recessed housing, there is sufficient space for the cable connector and feed line. Size S LEDOS III luminaires are fitted with a 3 m feed line which is connected directly to a junction box.



Installation in outdoor areas: a 20 cm thick soakaway underneath the flush-mounted housing drains off ground water. Connection to the supply voltage is obtained outside the casting surround in suitable junction boxes.

LEDOS III S**Domed, opal lens**

For orientation, corridor lighting and route guidance with enhanced long-distance effect.

**LEDOS III M****Asymmetric beam pattern**

Wide-angle recessed wall luminaire used to vertically illuminate the floor in case of paths and stairs.

**LEDOS III L****Flood 30° beam angle**

Wide-angle grazing light picks out the materiality of façades and walls and can produce brilliant lighting effects.



LEDOS III recessed LED luminaires are distinguished by an extensive choice of models that can handle a wide variety of lighting tasks:

LEDOS III S with wide-angle optics are used for safe orientation lighting in access areas, passageways and entrances.

LEDOS III M recessed into the ceiling, wall or floor luminaire with a wide-angle or narrow-beam pattern concentrates on highlighting vertical surfaces and setting columns and features of façades centre stage.

LEDOS III L with narrow-beam and wide-angle optics for accent lighting makes orientation easier, and 230V mains connection will extend the application areas of the LEDOS product range in future.

PASO II

This recessed floor LED luminaire hits all the right buttons when it comes to setting dramatic contemporary lighting scenes while remaining unobtrusive itself.

zumtobel.com/paso_II



 **ZUMTOBEL**

PASO II

Recessed floor LED luminaire

Façade lighting for an office building using PASO II recessed floor luminaires



PASO II D120 LED
3 x 1.2 W | Warm white



Functional versatility

Because PASO II is extremely compact and as flush fitting as possible, it fits into any scenario. This recessed floor LED luminaire is a great solution, even for stylistically sensitive façades: from historic buildings through to contemporary metal structures.

Combined with, or as an alternative to, the PYLAS spotlight range, PASO II can set any façade centre stage individually without its physical presence impinging on the viewer's field of view. Its ability to be installed absolutely flush fitting and its reduced surface temperature of no more than 40 °C make the latest generation of LED luminaires highly attractive for illuminating façades from close-up or by integrating them into pedestrian paths and zones that are close to buildings.

PASO II LED

Square and round luminaires available in three sizes and two overall heights make the PASO II luminaire range absolutely perfect for any façade lighting project. That's not all: the versatility of this system means that designers have almost unlimited choice when it comes to creative design, lighting effects and the option of façade-related locations.

PASO II recessed floor luminaires all share certain common distinguishing quality characteristics: shallow mounting depths, excellent thermal management and a patented, reliable sealing system. Easy installation and wiring are other features which apply throughout the entire product range.

PASO II LED

Power consumption

D/Q 120 mm: 3 x 1.2 W power LED
3 x 1.2 W power LED RGB
1 x 1.2 W soft LED
1 x 4.3 W soft LED RGB
D/Q 190 mm: 4 x 2.5 W power LED
4 x 2 W power LED RGB
4 x 1.2 W soft LED
4 x 2 W soft LED RGB

D/Q 260 mm: 7 x 2.5 W power LED
7 x 2 W power LED RGB

Luminous flux of luminaire

120 mm: 192–260 lm
190 mm: 491–589 lm
260 mm: 874–1129 lm

Beam angle

Diffuse, spot, flood, asymmetric

Colour temperature

3200 K | 6000 K | RGB changing colours

Service life

50,000 hrs. at up to 70 % luminous flux

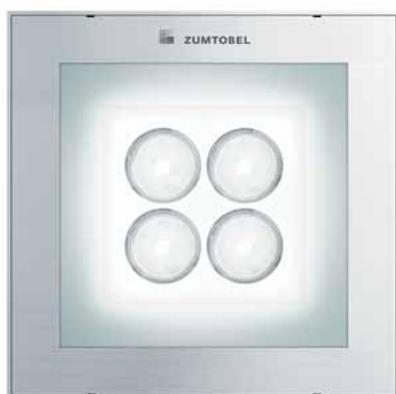
Protection type/protection class

IP67, protection class I
IP67, protection class III (size 120 D/Q RGB)

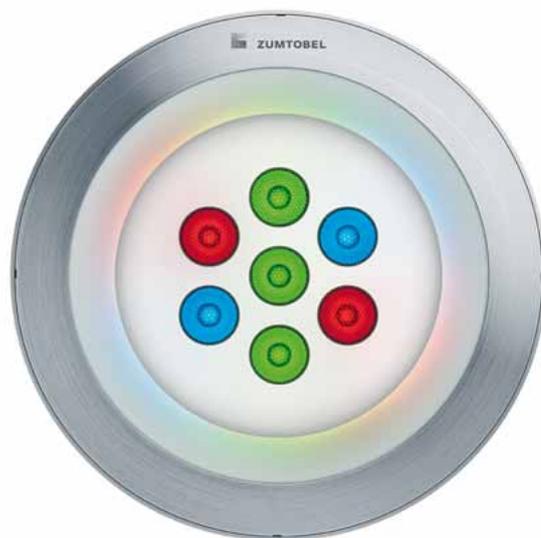
Accessories

Concrete castings surround, installation kits

PASO II Q190 LED
4x2.5W | Cool white



PASO II D260 LED RGB
7x2W | Flood



PASO II lighting cone



120 mm model



190 mm model



260 mm model

3° (6000K)		2° (6000K)		2° (6000K)	
5 m	Ø 0.00 m	5 lx	10 m	Ø 0.00 m	3 lx
4 m	Ø 0.00 m	8 lx	8 m	Ø 0.00 m	5 lx
3 m	Ø 0.00 m	19 lx	6 m	Ø 0.00 m	9 lx
2 m	Ø 0.00 m	54 lx	4 m	Ø 0.00 m	22 lx
1 m	Ø 0.00 m	150 lx	2 m	Ø 0.00 m	58 lx
			20 m	Ø 0.00 m	0.5 lx
			16 m	Ø 0.00 m	1.0 lx
			12 m	Ø 0.00 m	2.0 lx
			8 m	Ø 0.00 m	6.0 lx
			4 m	Ø 0.00 m	25.0 lx

PASO II

Variety of models

PASO II D120 LED | 3x1.2W
Frameless | Cool white



Scope for individual design preferences

PASO II luminaires are available in three different frame designs. This diversity makes this luminaire product line both a design feature and a problem solver. It also opens up attractive ways of adapting the luminaire to suit the architecture and its materiality or colour scheme in any application situation.

PASO II
Overlapping



Concealing problem areas Many floor surfaces can only be adapted to match the housing shape to a limited extent or with a lot of effort. In such cases, an overlapping cover frame hides problem areas around the casting surround – the frame has a low profile and there are no exposed screw heads.

PASO II
Flush fitting



Building without barriers Just a few millimetres are often enough to cause accidents or hinder free movement of wheelchair users. PASO II is available as a completely flush fitting model in all sizes, thus paving the way for recessed floor luminaires to illuminate circulation areas that are fit for the needs of the disabled.

PASO II
Frameless



Doing away with a metal frame The smallest size frameless version emphasises the harmonious overall architectural picture. This means that PASO II even goes well with the brass and gold leaf of historic façades. Four Torx screws secure the luminaire glass firmly so that it is burglar-proof.

PASO II D190 LED downlight
4x2.5W | Flush fitting
Warm white



PASO II as a downlight This recessed LED luminaire is also available as an IP65 downlight, with appropriate mounting accessories, in all sizes and shapes. In situations where, due to harsh environmental conditions, a high IP rating and extremely good resistance to corrosion are required, PASO II can therefore be used either as an uplight or downlight.

Just 100 mm high The extra low-profile PASO II, which is available in sizes 190 and 260, is only 100 mm high, including its casting surround. This does away with one of the most common obstacles to installing a luminaire in the location that is best from a technical lighting viewpoint. PASO II Low is fitted with all the requisite control gear, it is flush mounted or installed with an overlapping cover frame.

Besides efficient LED technology, PASO II luminaires are also available with the very latest compact fluorescent lamps, low-voltage halogen lamps or metal halide lamps in all three sizes (120 mm, 190 mm and 260 mm). The PASO II product line is rounded off by a large number of accessories for various mounting situations and application areas as well as anti-glare devices to prevent scattered light.



PASO II Q260 asymmetric
Recessed depth: 100 mm



PASO II concrete casting
surround D260
Height: 100 mm

HEDERA

Calming white hues or striking colours: this linear LED wallwasher illuminates large surface areas uniformly.

zumtobel.com/hedera

HEDERA

LED wallwasher

Gaislachkogelbahn, Sölden | AT

Architecture: obermoser arch-omo zt gmbh, Innsbruck | AT

Lighting solution: HEDERA media luminaire with DMX controller for façades



Impressive intensity with optional dynamic changes

With three different lengths and four secondary optics, HEDERA caters for the individual needs of uniform façade lighting. HEDERA RGB and RGBA transform a façade into a coloured works of art, whereas white high-power LEDs show off the façade's surface to full effect. Each luminaire can be addressed as a whole or in segments of 30cm each. This multiplies the creative design options for dynamic centre-stage settings.

HEDERA is a particularly rugged, UV-stable 230V luminaire that is made from aluminium and glass and requires no external control gear. As the system consists of luminaires with male and female connectors, installation is extremely easy. Built-in thermal protection automatically dims the luminaire in the event of excessively high temperatures in order to ensure that the LEDs' long service life is achieved.

Wiring options HEDERA is available as a through-wired luminaire (IN/OUT) and as a luminaire with a built-in DMX terminating resistor for individual luminaires or luminaires at the end of a row (IN).

HEDERA

Light source

48 LEDs over a length of 1200mm Pixel spacing: 25mm

Power consumption

Up to 56W at 100% (RGB, length: 1200mm)

Luminous flux of luminaire

1200lm (RGB, length: 1200mm) to
2400lm (5600K, length: 1200mm)

Beam angle

6°, 20° and 35° symmetric
10x20° asymmetric

Colour temperature

3000K, 4000K, 5600K: monochrome white
RGB and RGBA: multicoloured

Colour rendering

Ra > 80: monochrome white

Service life

50,000 hrs. at up to 70% luminous flux

Protection type/protection class

IP65

Temperature range

-20°C to +40°C (in operation)
-20°C to +60°C (switched off)

Accessories

Fixing set, female and male connector for IP65 connection

HEDERA LED monochrome white | 28 W | Length 600 mm (24 LEDs)



HEDERA LED RGB | 42 W | Length 900 mm (36 LEDs)

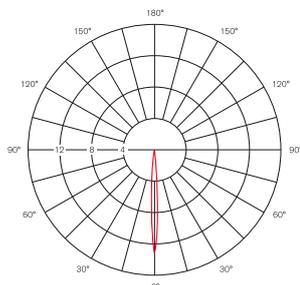


HEDERA LED RGBA | 56 W | Length 1200 mm (48 LEDs)

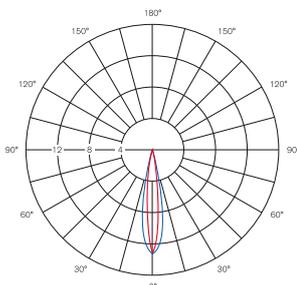


HEDERA light distribution

Symmetrical light distribution 6°



Elliptical light distribution 10x20°



Elliptical light distribution (10x20°) guarantees the best possible colour mixing in case of RGB and RGBA luminaires. Symmetrical light distributions with a beam angle of 6°, 20° or 35° meet the various requirements for direct through to indirect illumination.

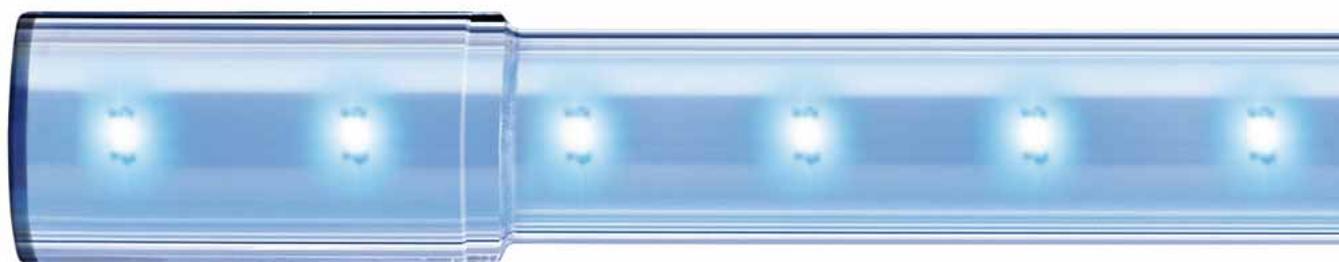


Available as accessories:
mounting clip or support for
swivelling installation

HILIO

Versatility in design: HILIO monochrome provides subtle but striking structuring. HILIO RGB, on the other hand, relies on the effect of colour-changing lines.

zumtobel.com/hilio



HILIO

LED light line

Bauarena, Volketswil | CH

Architects: Nüesch & Partner Architekten, Volketswil | CH

Lighting solution: HILIO LED RGB light lines



Monochrome or multicoloured, calm or lively

Versatility in design is the slender HILIO's hallmark: the monochrome light line accurately follows the outlines of a façade, structures the architecture, or sets it centre stage by monochrome cove lighting in red, green, blue or white. The luminaires' multicoloured version exploits the power of colour and movement. DMX control of each luminaire or each segment brings life to façades. In the case of the video-controlled luminaire, each individual pixel can be separately controlled, which makes it possible to paint a façade with graphics and text.

This flexibility is accompanied by extremely easy installation: HILIO is easy to connect thanks to a connecting cable and a connector system that comes with a higher protection rating as standard. Uniform pixel spacing and butt joining ensure a continuous, unbroken light line. The very tight LED binning (less than 3 MacAdams per luminaire) of the white, monochrome luminaires ensures a uniform look. Built-in thermal protection ensures safety by preventing excessively high temperatures.

HILIO LED

Light source

10 LEDs over a length of 300 mm, pixel spacing 30 mm

Power consumption

approx. 10 W per metre

Luminous flux of luminaire

275 lm (RGB, opal, length: 2100 mm) to
777 lm (850, clear, length: 2100 mm)

Colour temperature

3000 K, 4000 K, 5600 K: monochrome white
Red, green, blue: monochrome
RGB

Colour rendering

Ra > 80: monochrome white

Service life

60,000 hrs. at up to 70% luminous flux: monochrome
40,000 hrs. at up to 70% luminous flux: RGB

Protection type/protection class

IP65

Temperature range

-20 °C to +40 °C (in operation)
-20 °C to +60 °C (switched off)

Accessories

Connector set, DMX splitter, ASTO set

HILIO-CL | 14 W | Clear optic



HILIO-DF | 14 W | Diffuse optic



HILIO-O | 14 W | Opal optic



Optics HILIO uses three different optics to cater for various design requirements: the smallest-diameter clear LED light line is used for cove lighting or indirect lighting. The opal HILIO creates visible lines whereas HILIO RGB has a diffuse optic and handles media design tasks with LED lines that feature individual pixel or individual segment control.

Length, control and wiring options Based on a segment unit of 300mm, HILIO is available in seven different lengths ranging from 300mm to 2100mm. This LED line is therefore a very good match for the individual dimensions of a façade. Radial wiring which, unlike axial wiring, requires very little space, meets the requirement for a continuous, unbroken line and uniform pixel spacing. HILIO is available both as a through-wired luminaire (IO) and as a luminaire with a built-in terminating resistor for individual luminaires or luminaires at the end of a row (IN). The single-coloured HILIO monochrome is available in dimmable and switchable version: as a DMX luminaire, HILIO RGB is controlled in its entirety or is subdivided into 300mm segments. When used as a video luminaire, pixel spacing is 30mm and each pixel can be individually controlled.



Connector set (IP65) for outdoor areas The connector set combines the 24 V signal and data signal in a single output for up to 12.6m of HILIO (with a 4 m feed line). With the monochrome LED light line, it is possible to apply dimming signals via a separate PWM control line. RGB luminaires that are controlled by DMX or video signals are connected by a connector set that is available as an accessory.



HILIO ASTO set The HILIO ASTO set with the ASTO USB tool is required in order to address HILIO RGB DMX and HILIO RGB VC luminaires. This makes it possible to address the DMX or video address of each HILIO individually.

CAPIX

One pixel for boundless possibilities:
this LED media luminaire hugs a
façade like a second skin and inter-
acts with passers-by.

zumtobel.com/capix



CAPIX

LED media luminaire

Poolbar Festival, Feldkirch | AT

Lighting solution (video controlled): CAPIX media luminaires for the façade; indoor lighting: HEDERA LED wallwashers, HILIO LED light lines



Getting messages across

CAPIX transforms any static façade into a moving and emotive media façade. In addition to generating colours and other effects, the intelligent video control system also makes it possible to run sequences of moving pictures or play videos.

A CAPIX chain consists of a large number of lighting points as well as a combination of data and supply cables. One of the special things about CAPIX is that the distance of the individual lighting points, and hence the resolution of the luminous media surface, can be customised to fit the viewing distance. Each CAPIX pixel incorporates three RGB LEDs, resulting in a bright and brilliant lighting effect, even if viewed from large distances.

The pixels are either mounted directly on the façade or on commercially available meshes and nets – two different brackets are available for these different supports. Defective pixels can nevertheless be individually replaced without any problems. CAPIX has built-in thermal protection in order to prevent overheating. CAPIX's laser-welded housing contributes to its high protection rating for outdoor applications.

CAPIX LED

Light source
3 RGB LEDs per pixel

Power consumption
1 W per pixel

Luminous flux of luminaire
17.5lm per pixel

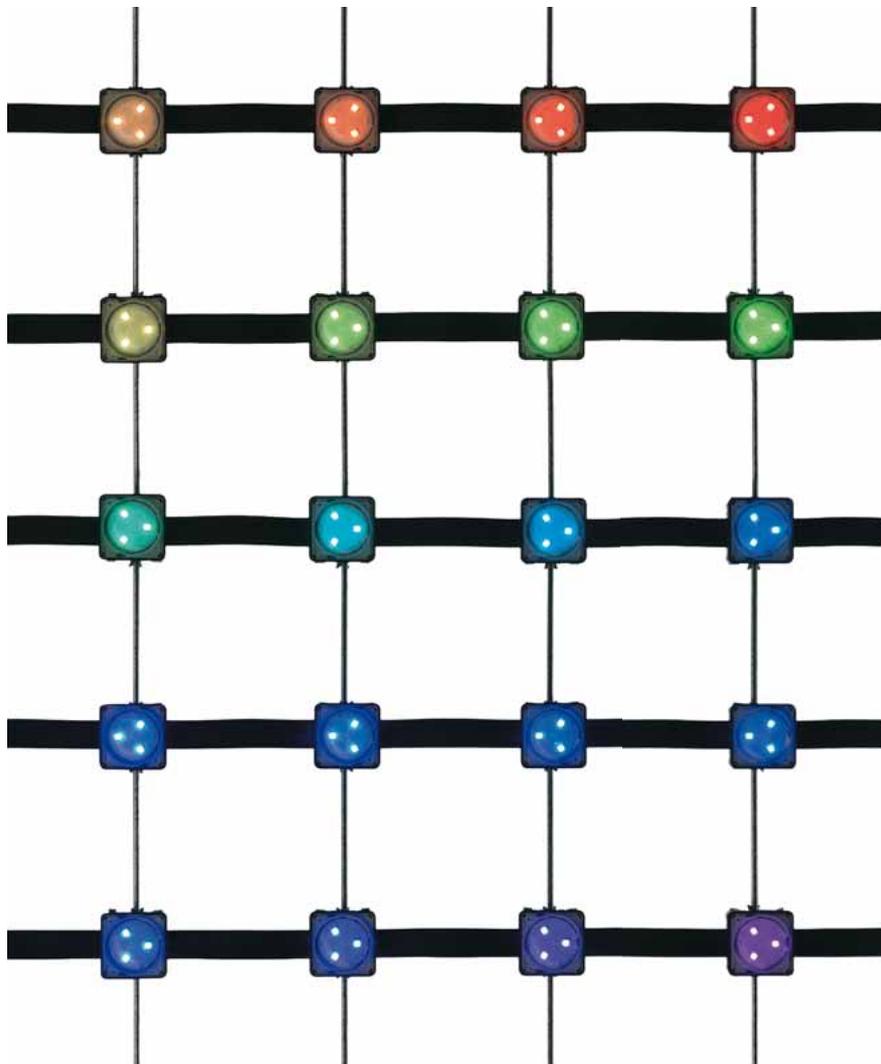
Colour temperature
RGB

LED service life
30,000 hrs. at up to 70% luminous flux

Protection type/protection class
IP65

Temperature range
–30°C to +50°C (in operation)
–30°C to +70°C (switched off)

Accessories
Video Control Unit (VCU), Streaming Control Unit (SCU)



RGB LED pixels in a compact design, for perfect colour perception from any viewing angle.



Customer-specific manufacturing and service Zumtobel assists designers and contractors at every stage of a project, helping them to get to grips with the boundless possibilities of façade lighting and media façades in particular.

On a CAPIX media façade, pixel pitches are fully adjustable in order to cater perfectly for project-specific variables such as façade design, support structure or viewing distance. Zumtobel helps customers define pixel spacings and design the power supply and control systems. Zumtobel even supplies tailor-made control solutions – for running anything from simple graphics, pictures and videos through to interactive façades responding to their environment.



Streaming Control Unit (SCU)

Protected by an IP65 housing designed for outdoor applications, the unit combines power supply and data feed for up to 4 CAPIX strings.



Video Control Unit (VCU)

The control unit for media façades is cascable, which means that the size of a façade can easily be adjusted to requirements.

LIGHTING MANAGEMENT

From dimming and simple colour changes through to video control.





 **ZUMTOBEL**
VCU Master 1800

Lighting Management

Control options

Luminaire	Voltage	White LED switchable	White LED dimmable*	White LED DMX	LED RGB dimmable*	LED RGB DMX	LED RGB VC
PYLAS S	24 V	X	Special				
PYLAS S RGB	24 V				X	X ¹	
PYLAS M	24 V	X	Special				
PYLAS M RGB	24 V				X	X ¹	
PYLAS L	230 V	X	Special		Special	X	
PYLAS XL	230 V	X	Special		Special	X	
IKONO S	230 V	X	Special				
IKONO S RGB	24 V				X	X ¹	
IKONO M	230 V	X	Special		Special	X	
IKONO L	230 V	X	Special				
SKENA	230 V	X	Special				
APHRODITE	230 V	X	X			X ²	
PAN	350 mA	X	X				
LEDOS III	24 V	X	X				
PASO II	230 V	X					
PASO II RGB	24 V				X ⁴	Special	
HEDERA	230 V	X		X		X	
HILIO	24 V	X	X ³			X	X
CAPIX (incl. SCU)	230 V						X

- * PWM dimmable
- ¹ With accessory LED 100 W DMX ballast box art. no. 60 800 713
- ² DMX addresses for retrieving previously set lighting scenes
- ³ PWM dimmable, DALI dimmable with accessory
- ⁴ DALI only



Video Control Unit (VCU)

Each individual pixel of a media façade is controlled at video speed. Colour sequences, graphics, pictures and text can be displayed statically or dynamically. Each unit controls up to 2x900 RGB pixels, but networking several slave VCUs does away with any upper limits. Art-Net ArtDMX control is also possible. Configurations and data are stored on replaceable SD cards and can therefore be swapped quickly and easily.



DMX control using Butler XT

Butler XT is at the heart of Zumtobel's DMX controller. The controller has two independent DMX outputs, each with 512 channels, for individually controlling 1024 DMX channels or 340 RGB luminaires. This makes extensive, dynamic, time-controlled lighting programmes possible – even lettering that floats across a façade. Lighting Application Suite software allows qualified Zumtobel service engineers to fulfil almost any lighting design requirement. Programmed lighting scenes and sceneries are saved in the controller and retrieved via a premium glass touch panel or commercially available standard momentary-action switches.

The effectiveness of façade lighting is heavily dependent on the quality of the luminaires used and choosing the right lighting control system. A lighting management system is needed if more is required than simply switching luminaires on and off. Dimmed luminaires provide new ways of setting the lighting stage and also provide scope for using energy efficiently. Zumtobel lighting control systems cater for a variety of lighting tasks – from simple colour changes through to video control units.

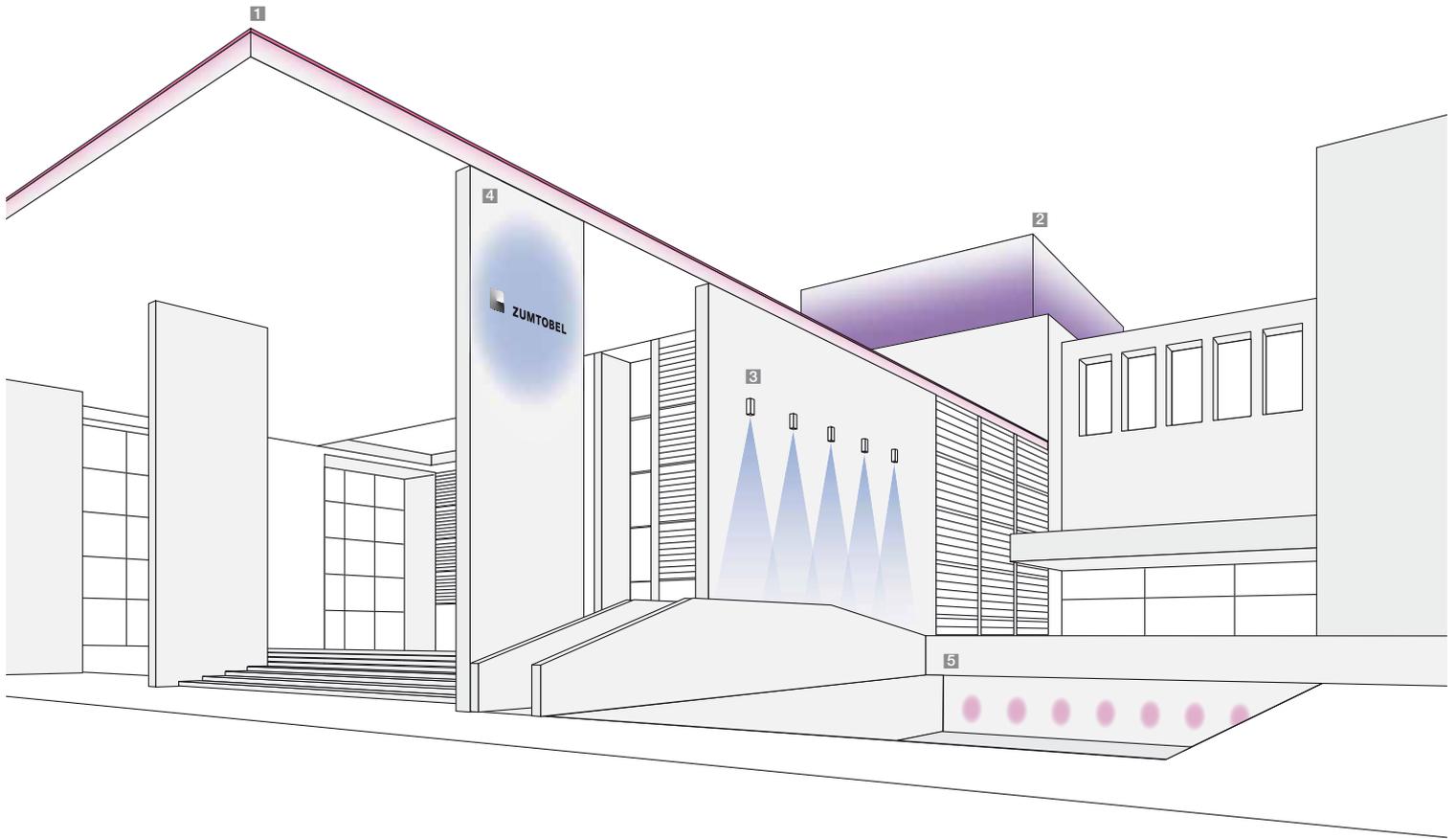
		LUXMATE EMOTION	LUXMATE LITENET	E:cue Butler XT	VCU
LIGHTING SOLUTION	Architectural	x	x	(x)	o
	Emotive	x	o	x	(x)
	Communicative	o	o	(x)	x
SPEED	Static/switching or dimming	x	x	o	o
	Slow/gentle transitions	x	x	x	(x)
	Fast changes in colour or brightness	o	o	x	x
	Video speed	o	o	o	x
EFFECT	Illumination	x	x	x	o
	Colour	x	x	x	x
	Graphic	o	o	(x)	x
	Text	o	o	x	x
	Video	o	o	(x)	x
OTHER	Sensors	x	x	o	o
	Time-based control	x	x	o	o
	Dimming of luminaires	x	x	x	x
	Driving other motors	o	x	x	o
	Shows	x	x	x	(x)
	Running videos	o	o	(x)	x
	Addresses/channels	128	10,000*	1024**	5400***
	Addressing	Via system	Via system	On luminaire	On luminaire

x = Applicable
(x) = Applicable to a limited extent
o = Not applicable

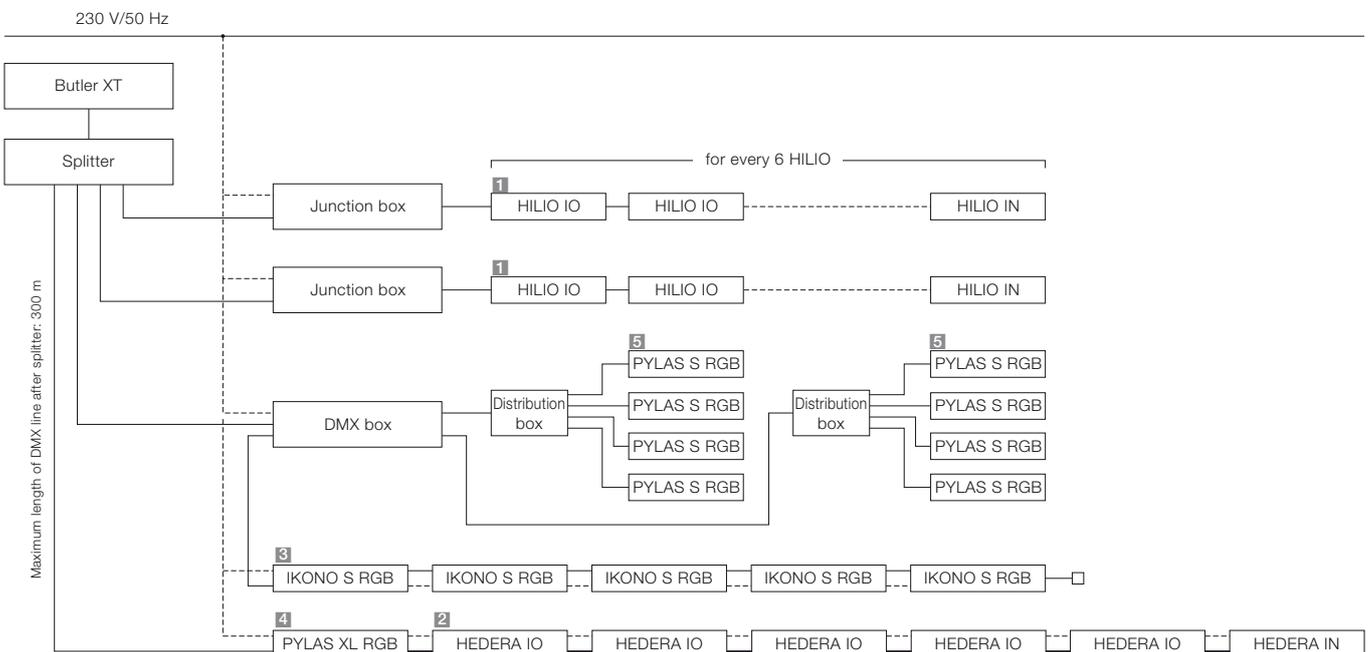
* Depends on server
** Custom solution, up to 50,000 addresses via server structure
*** 1800 RGB pixels; no upper limit thanks to master/slave structure (not a special solution)

Lighting Management

Circuit diagrams

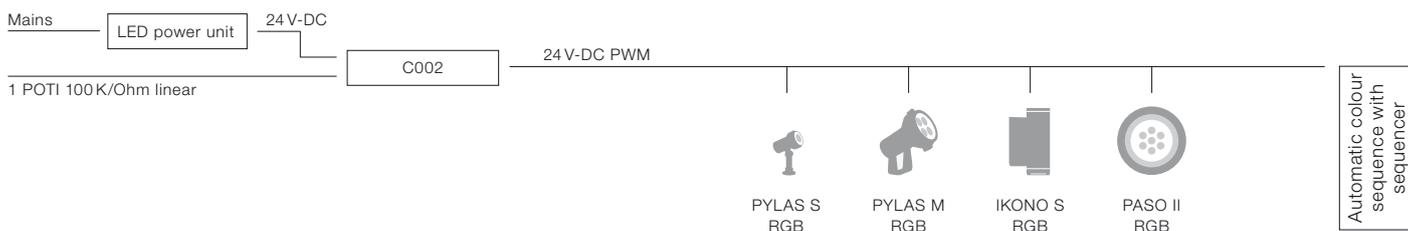


Façade lighting solution:
Example of a building showing circuit diagram



Control of 24V DC and DC 350 mA luminaires using Pulse Width Modulation (PWM) with common bus signals:

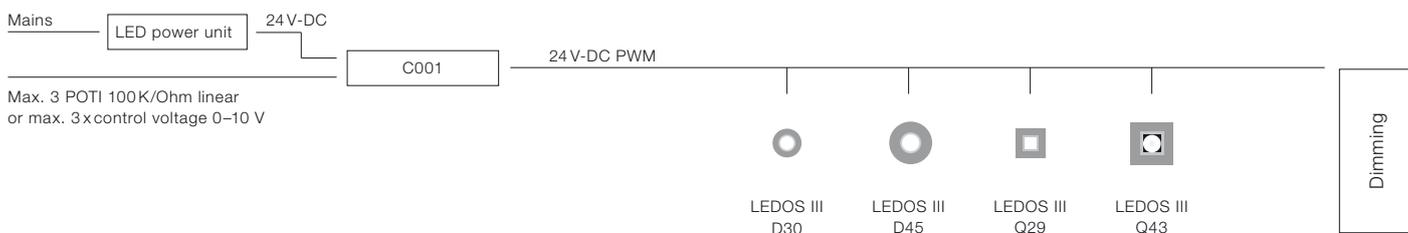
1 | Sequencer/standalone C002



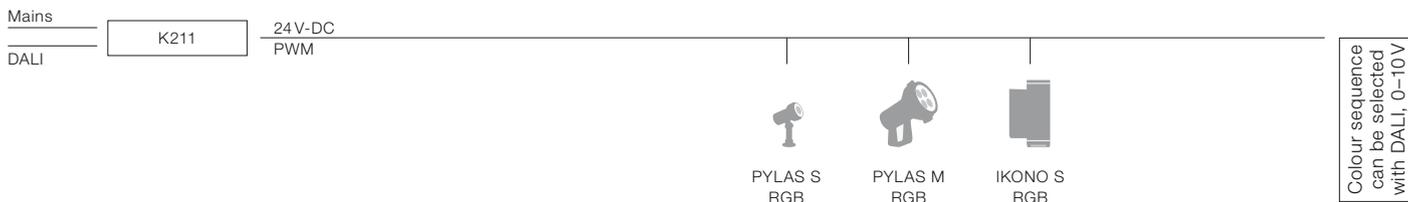
2 | DALI K210 and switchDIM



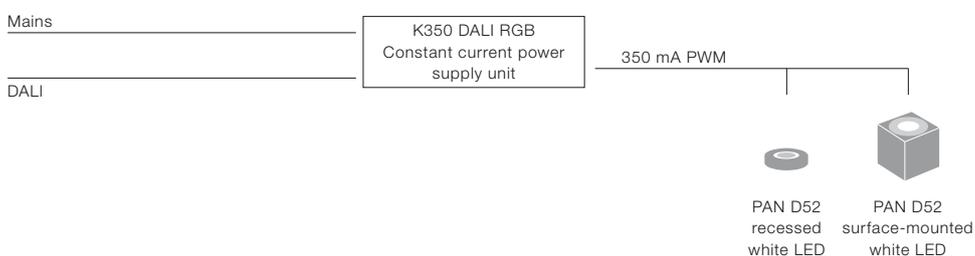
3 | 1–10V control C001



4 | DALI K211 RGB control 25W



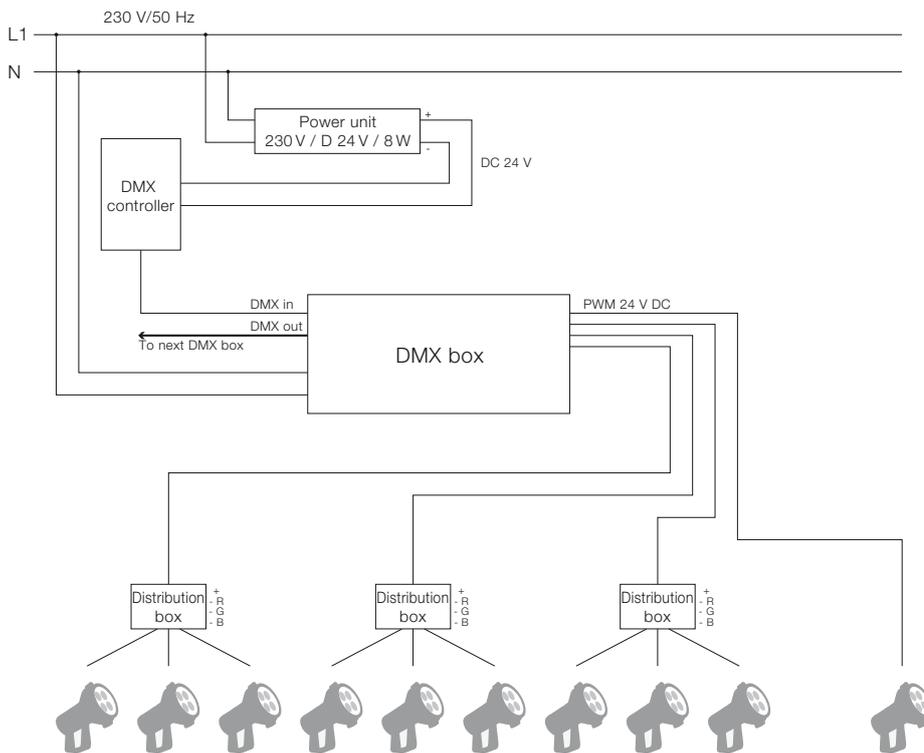
5 | DALI K350 RGB control 350 mA



Lighting Management

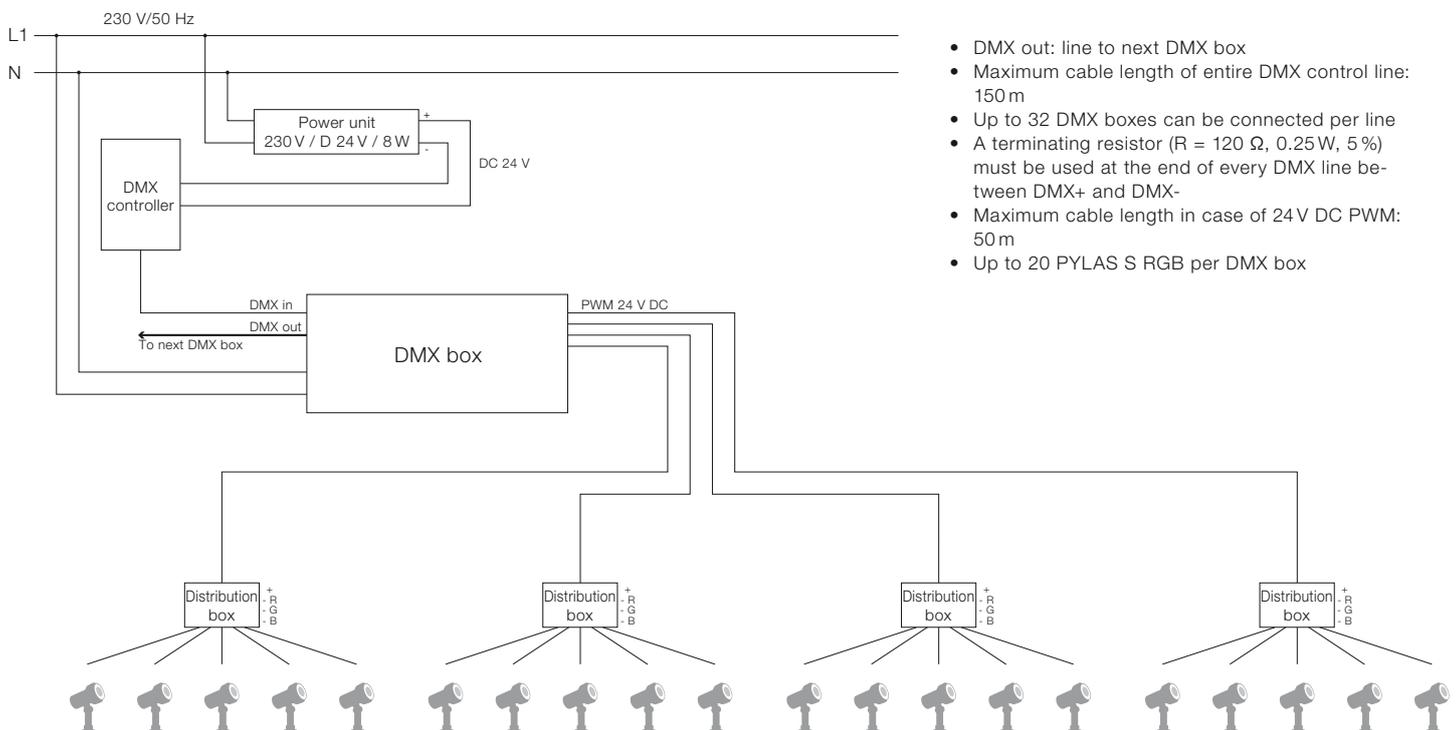
Circuit diagrams

Connecting PYLAS M RGB to DMX box



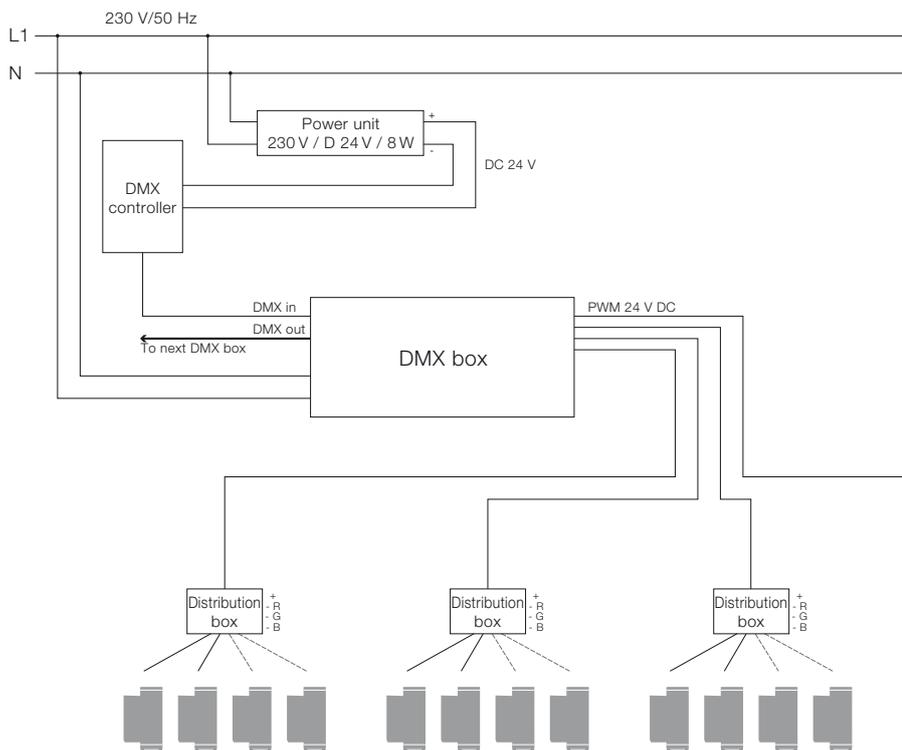
- DMX out: line to next DMX box
- Maximum cable length of entire DMX control line: 150 m
- Up to 32 DMX boxes can be connected per line
- A terminating resistor ($R = 120 \Omega$, 0.25 W, 5 %) must be used at the end of every DMX line between DMX+ and DMX-
- Maximum cable length in case of 24 V DC PWM: 50 m
- Up to 10 PYLAS M RGB per DMX box

Connecting PYLAS S RGB to DMX box



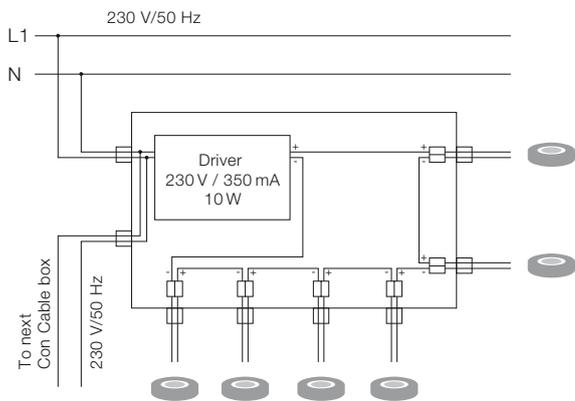
- DMX out: line to next DMX box
- Maximum cable length of entire DMX control line: 150 m
- Up to 32 DMX boxes can be connected per line
- A terminating resistor ($R = 120 \Omega$, 0.25 W, 5 %) must be used at the end of every DMX line between DMX+ and DMX-
- Maximum cable length in case of 24 V DC PWM: 50 m
- Up to 20 PYLAS S RGB per DMX box

Connecting IKONO S RGB to DMX box



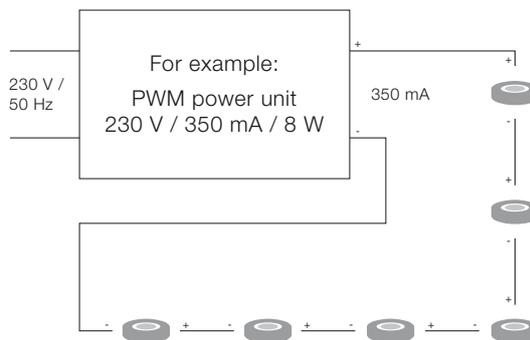
- DMX out: line to next DMX box (optional)
- Maximum cable length of entire DMX control line: 150 m
- Up to 32 DMX boxes can be connected per line
- A terminating resistor ($R = 120 \Omega$, 0.25 W, 5 %) must be used at the end of every DMX line between DMX+ and DMX-
- Maximum cable length in case of 24 V DC PWM: 50 m
- Up to 8 IKONO S RGB per DMX box in case of direct/indirect version (IKONO-I/D S RGB)
- Up to 16 IKONO S RGB per DMX box in case of direct version (IKONO-D S RGB)

Electrical connection of PAN luminaires to IP55 supply box (60 800 706)



PAN + feed line: brown/PAN - feed line: blue/standard length 3 m/ special lengths up to 10 m are possible

Project-specific solutions for dimmable installations using PAN



$6 \times 1.2 W = 7.2 W < 8 W$ power unit (max. output)

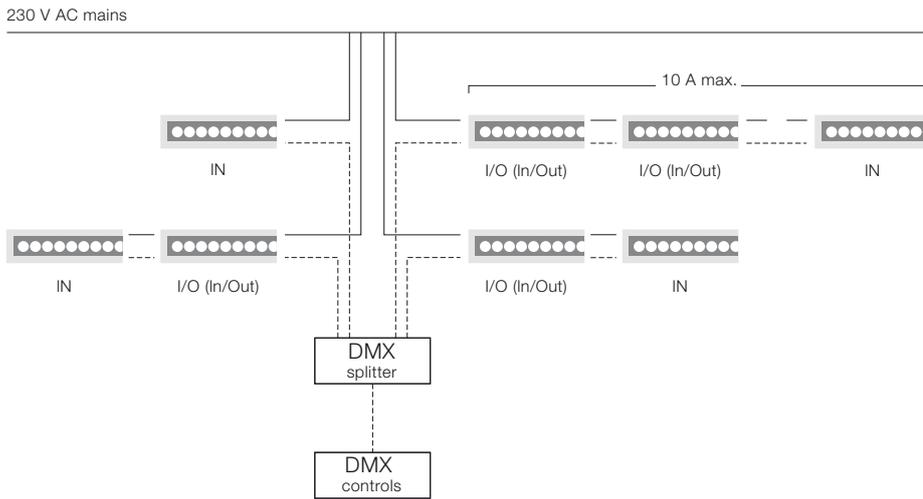
IP55 supply box (60 800 706) makes it possible to connect up to 6 PAN luminaires. Individual luminaires are wired for series connection; cable glands make electrical contact easy. If not all 6 terminals are used, circuit is closed by factory-fitted jumpers. A second cable gland is provided for through-wiring.

Dimmable or dynamic solutions are to be realised in a project-specific manner. Depending on the bus signal used (DALI, 1–10V, DMX or sequencer), PAN luminaires in the same group must be wired in series and connected to the appropriate 350 mA power unit of a box with IP protection or connected inside the building.

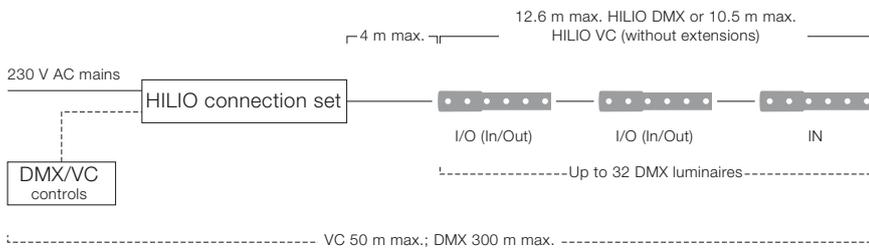
Lighting Management

Circuit diagrams

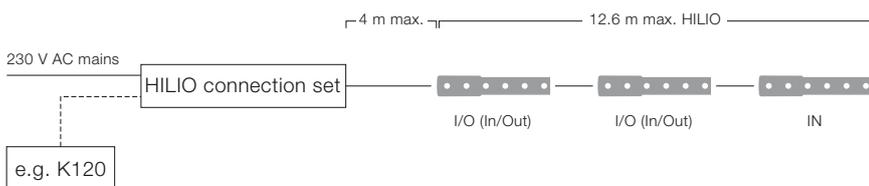
Connecting HEDERA



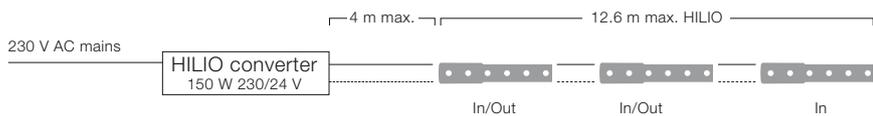
Connecting HILIO RGB DMX/VC



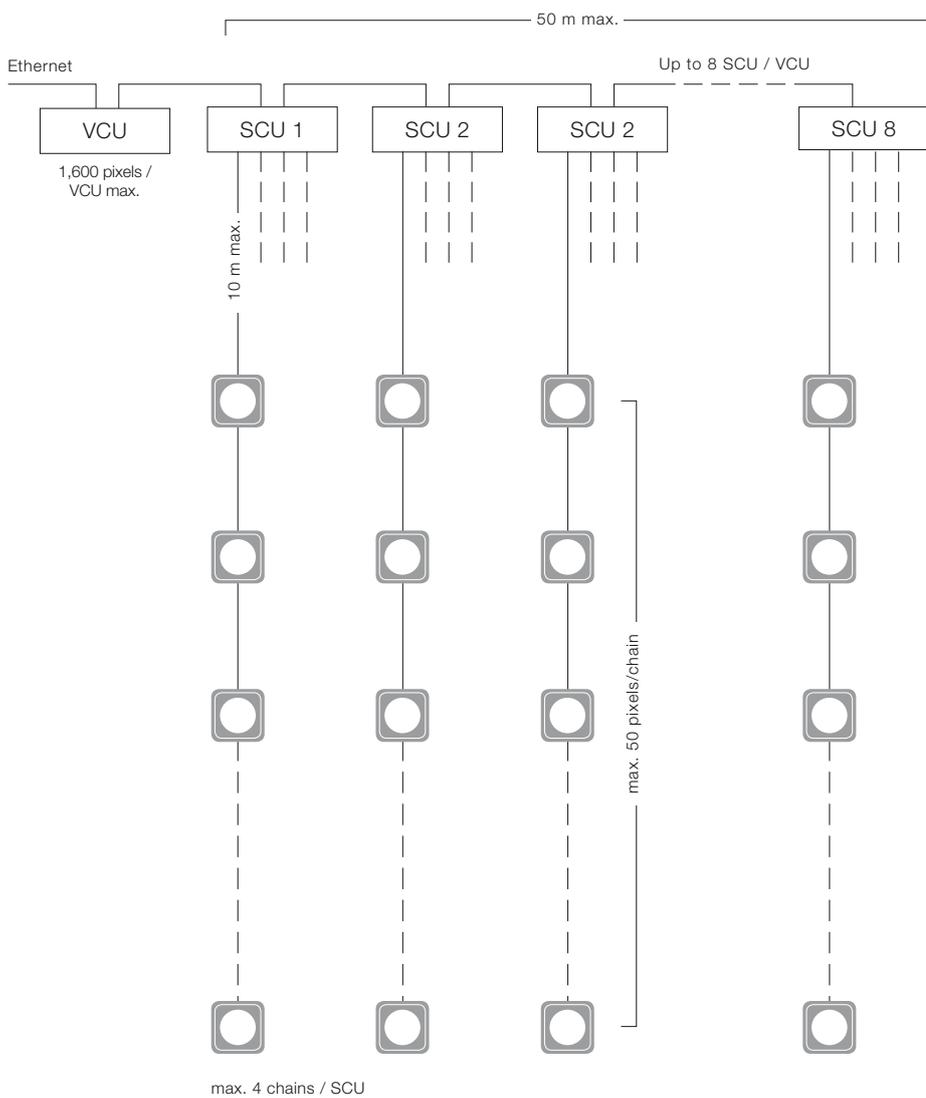
Connecting HILIO monochrome PWM dimmable



Connecting HILIO monochrome PWM switchable



Connecting CAPIX



For 230V installations:
Starting current per SCU = 62 A

PRODUCTS

Catalogue information

PYLAS S LED



850 °C **incl. LED**

- Architectural spotlight luminaire for external illumination of objects and architectural details
- With superspot and flood beam pattern
- Housing made of die-cast aluminium (copper-free) with high corrosion protection
- Dual-layer epoxy and polyester powder-coating in silver-grey finish for best possible resistance
- Luminaire cover made of toughened safety glass
- Glass cover fitted flush in luminaire surround to prevent dirt accumulation
- Silicone gasket
- Stainless steel screws (AISI 316L)
- Luminaire can pivot from -40° to +90°
- PG cable gland
- Colour temperature: 3200 K (LED832) or 6000 K (LED860)
- Colour rendering: RA > 80
- LED RGB module (red/green/blue)
- IP66 degree of protection, equipment class I
- RGB: IP66 degree of protection, equipment class III
- Luminaire includes power lead with cable connector: 0.5 m (H05RN-F 3 x 1 mm²), RGB: 0.5 m (H05RN-F 4 x 1 mm²)
- Includes electronic power pack, switched
- Mains voltage: 230 V / 50/60 Hz
- RGB: 24 V DC PWM power supply provided by DMX ballast box (100 W) or LED power pack; please order separately
- Luminaire fixed by screw in luminaire base (not included)
- Earth spike or installation buckle available as optional accessory
- Through-wiring not possible

LED spotlight luminaire

	kg	Order no.
1/1.2 W LED832, flood (31°)	0.6	60 813 386
1/1.2 W LED832, superspot (7°)	0.6	60 813 384
1/1.2 W LED860, flood (31°)	0.6	60 813 387
1/1.2 W LED860, superspot (7°)	0.6	60 813 385

LED spotlight luminaire (RGB 24 V)

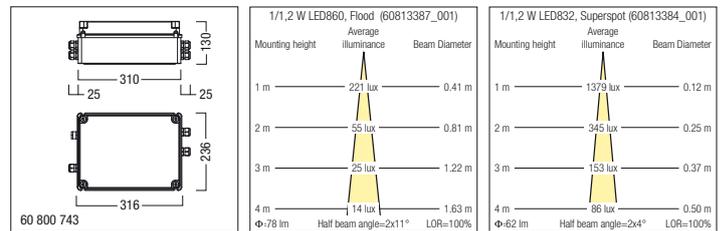
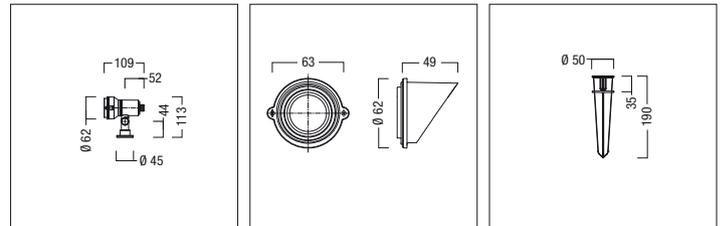
3/1.2 W LED RGB (red, green, blue), flood (31°), 24 V	0.6	60 813 388
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Accessory

Glare-reduction hood, silver-grey	60 800 707
Ground spike, black	60 800 709
Installation clip	60 800 708
Accessories (RGB-DMX) DMX 5-pin XLR5 plug with 120 Ohm resistor, IP65/67	60 800 740
Accessories (RGB-DMX) DMX 5-pin XLR5 plug, IP65/67	60 800 738
Accessories (RGB-DMX) DMX 5-pin XLR5 socket with 120 Ohm resistor, IP65/67	60 800 741
Accessories (RGB-DMX) DMX 5-pin XLR5 socket, IP65/67	60 800 739
Accessories (RGB-DMX) DMX ballast box 100 W, 24 V DC, IP56	60 800 743
LED power pack (DALI/24 V PWM) 0025 K211 24 V	86 455 066
Sequencers C002 PWM sequenzer	86 454 968
LED power packs 0025 K201 24 V	86 453 418
LED power packs ETR 230 V-AC/24 V-DC/10 W	60 010 022
LED power packs ETR 230 V-AC/24 V-DC/25 W	S7 003 230

RGB: customer must provide cable \varnothing 5–9 mm > or = 0.34 mm² (22 AWG), recommended LIYCY TP 4 x 0.5 mm².

DMX ballast box (100 W): for operating using DMX signal up to 25 x PYLAS S RGB PWM 24 V.



PYLAS M LED



- Architectural spotlight luminaire for external illumination of objects and architectural details
- With superspot and flood beam pattern
- Mounting bracket made of hot-dipped galvanised steel
- Housing made of die-cast aluminium (copper-free) with high corrosion protection
- Dual-layer epoxy and polyester powder-coating in silver-grey finish for best possible resistance
- Luminaire cover made of toughened safety glass
- Glass cover fitted flush in luminaire surround to prevent dirt accumulation
- Silicone gasket
- Screws, fixing parts and surface-mount components made of stainless steel (AISI 316L)
- Luminaire can pivot from -21° to $+201^{\circ}$ in mounting bracket (graduated in degrees) and can be locked in position
- Cable entry via PG 13.5 cable gland
- Colour temperature: 3200 K (LED832) or 6000 K (LED860)
- Colour rendering: RA > 80
- LED RGB module (1 x red, 2 x green, 1 x blue)
- IP66 degree of protection, equipment class I
- RGB: IP66 degree of protection, equipment class III
- Internal power connection: 3-pole terminal strip or 4-pole terminal strip (RGB)
- Includes electronic power pack, switched
- Mains voltage: 230 V / 50/60 Hz
- RGB: 24 V DC PWM power supply provided by DMX ballast box (100 W) or LED power pack; please order separately
- Luminaire fixed by screw in mounting bracket (not included)
- Earth spike for installing luminaire in ground available as optional accessory
- Through-wiring not possible

LED spotlight luminaire

	kg	Order no.
4/2.25 W LED832, flood (23°)	1.9	60 813 391
4/2.25 W LED832, superspot (7°)	1.9	60 813 389
4/2.25 W LED860, flood (23°)	1.9	60 813 392
4/2.25 W LED860, superspot (7°)	1.9	60 813 390

LED spotlight luminaire (RGB 24 V)

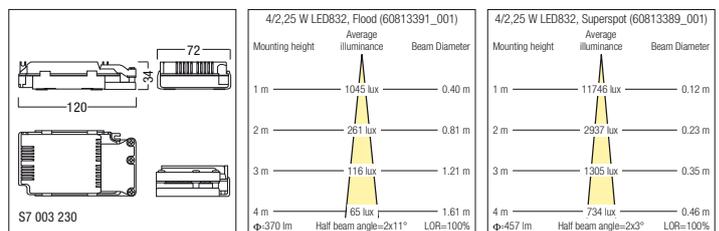
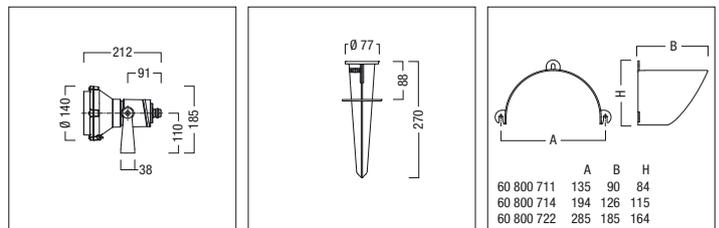
4/2 W LED RGB, flood (23°), 24 V	1.9	60 813 393
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Accessory

Glare-reduction hood, black	60 800 711
Ground spike, black	60 800 712
Accessories (RGB-DMX) DMX 5-pin XLR5 plug with 120 Ohm resistor, IP65/67	60 800 740
Accessories (RGB-DMX) DMX 5-pin XLR5 plug, IP65/67	60 800 738
Accessories (RGB-DMX) DMX 5-pin XLR5 socket with 120 Ohm resistor, IP65/67	60 800 741
Accessories (RGB-DMX) DMX 5-pin XLR5 socket, IP65/67	60 800 739
Accessories (RGB-DMX) DMX ballast box 100 W, 24 V DC, IP56	60 800 743
LED power pack (DALI/24 V PWM) 0025 K211 24 V	86 455 066
Sequencers C002 PWM sequencer	86 454 968
LED power packs 0025 K201 24 V	86 453 418
LED power packs ETR 230 V-AC/24 V-DC/10 W	60 010 022
LED power packs ETR 230 V-AC/24 V-DC/25 W	57 003 230

RGB: customer must provide cable $\varnothing 5-9 \text{ mm} > \text{ or } = 0.34 \text{ mm}^2$ (22 AWG), recommended LIYCY TP 4 x 0.5 mm².

DMX ballast box (100 W): for operating using DMX signal up to 10 x PYLAS M RGB PWM 24 V.



I...I Shared properties
PYLAS L

- Architectural spotlight luminaire for external illumination of objects and architectural details
- With superspot and flood beam pattern
- Mounting bracket made of hot-dipped galvanised steel
- Housing made of die-cast aluminium (copper-free) with high corrosion protection
- Dual-layer epoxy and polyester powder-coating in silver-grey finish for best possible resistance
- Luminaire cover made of toughened safety glass
- Glass cover fitted flush in luminaire surround to prevent dirt accumulation
- Silicone gasket
- Screws, fixing parts and surface-mount components made of stainless steel (AISI 316L)
- Luminaire can pivot from -14° to $+194^\circ$ in mounting bracket (graduated in degrees) and can be locked in position
- Cable entry via PG 13.5 cable gland
- IP66 degree of protection, equipment class I
- Internal power connection: 3-pole terminal strip
- Mains voltage: 230 V / 50/60 Hz
- Luminaire fixed by screw in mounting bracket (not included)
- Earth spike for installing luminaire in ground or clamp for fitting to masts of \varnothing 120 mm available as optional accessory

PYLAS L LED



- I...I
- DMX connected via 2 XLR5 male connectors (DMX-IN/DMX-OUT)
- DMX controller address is set via rotary switch on rear of housing
- Colour temperature: 3200 K (LED832) or 6000 K (LED860)
- Colour rendering: RA > 80
- LED RGB module (2 x red, 3 x green, 2 x blue)
- RGB: IP65 degree of protection, class of protection I
- RGB: luminaire includes 0.5 m power lead (HO7RN-F 3 x 1.5 mm²) and cable connector (3-pole)
- Includes electronic power pack, switched
- Through-wiring possible, RGB model not possible
- Customer needs to provide XLR5 male/female connector for DMX control cable

LED spotlight luminaire

	kg	Order no.
7/2.25 W LED832, flood (22°) IP66	4.4	60 813 396
7/2.25 W LED832, superspot (6°) IP66	4.4	60 813 394
7/2.25 W LED860, flood (22°) IP66	4.4	60 813 397
7/2.25 W LED860, superspot (6°) IP66	4.4	60 813 395

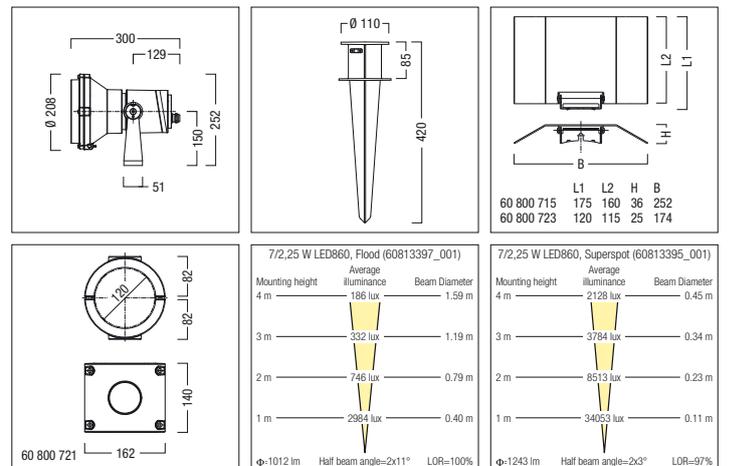
LED spotlight luminaire (RGB)

7/2 W LED RGB, DMX, flood (22°) IP65	4.8	60 813 398
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Accessory

Anti-glare panel, black	60 800 715
Clamp, silver-grey	60 800 721
Glare-reduction hood, black	60 800 714
Ground spike, black	60 800 716
Accessories (RGB-DMX) DMX 5-pin XLR5 plug with 120 Ohm resistor, IP65/67	60 800 740
Accessories (RGB-DMX) DMX 5-pin XLR5 plug, IP65/67	60 800 738
Accessories (RGB-DMX) DMX 5-pin XLR5 socket with 120 Ohm resistor, IP65/67	60 800 741
Accessories (RGB-DMX) DMX 5-pin XLR5 socket, IP65/67	60 800 739

Only one anti-glare panel is included for each part no 60 800 715; to fit the complete system containing four panels you must order 4 x 60 800 715.



PYLAS L HIT-TC-CE G8.5



- I...I
- Reflector made of ultra-pure aluminium
- Includes electronic ballast, switched
- Through-wiring is possible

IP66 IK09

850 °C

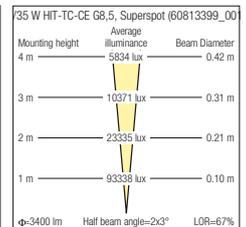
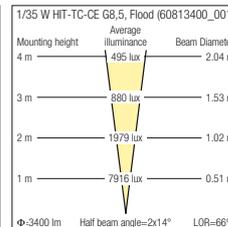
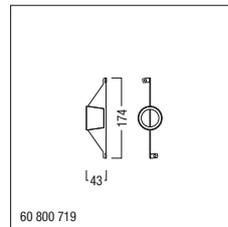
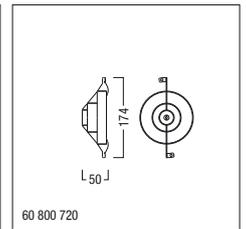
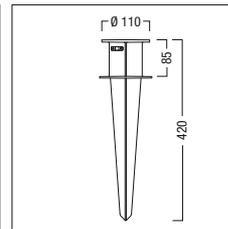
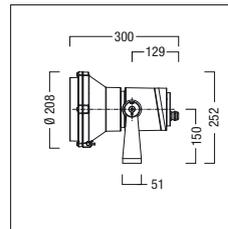
Spotlight luminaire

	kg	Order no.
1/35 W HIT-TC-CE G8.5, flood (29°)	3.9	60 813 400
1/35 W HIT-TC-CE G8.5, superspot (6°)	3.9	60 813 399

Accessory

Anti-glare cylinder, black	60 800 719
Anti-glare panel, black	60 800 715
Clamp, silver-grey	60 800 721
Glare-reduction hood, black	60 800 714
Ground spike, black	60 800 716
Interchangeable lens with flood beam pattern	60 800 718
Oval-outline lens	60 800 717
Radial louvre	60 800 720

Only one anti-glare panel is included for each part no 60 800 715; to fit the complete system containing four panels you must order 4 x 60 800 715.



I...I Shared properties
PYLAS XL

- Architectural spotlight luminaire for external illumination of objects and architectural details
- With superspot and flood beam pattern
- Mounting bracket made of hot-dipped galvanised steel
- Housing made of die-cast aluminium (copper-free) with high corrosion protection
- Dual-layer epoxy and polyester powder-coating in silver-grey finish for best possible resistance
- Luminaire cover made of toughened safety glass
- Glass cover fitted flush in luminaire surround to prevent dirt accumulation
- Silicone gasket
- Screws, fixing parts and surface-mount components made of stainless steel (AISI 316L)
- Luminaire can pivot from -19° to +199° in mounting bracket (graduated in degrees) and can be locked in position
- IP66 degree of protection, equipment class I
- Internal power connection: 3-pole terminal strip
- Luminaire fixed by screw in mounting bracket (not included)
- Clamp for fitting to masts of diameter Ø 120 mm available as optional accessory

PYLAS XL LED



- I...I
- Cable entry via PG 13.5 cable gland
- DMX connected via 2 XLR5 male connectors (DMX-IN/DMX-OUT)
- DMX controller address is set via rotary switch on rear of housing
- Colour temperature: 3200 K (LED832) or 6000 K (LED860)
- Colour rendering: RA > 80
- LED RGB module (7 x red, 7 x green, 7 x blue)
- RGB: IP65 degree of protection, class of protection I
- RGB: luminaire includes 0.5 m power lead (HO7RN-F 3 x 1.5 mm²) and cable connector (3-pole)
- Includes electronic power pack, switched
- Mains voltage: 230 V 0/50/60 Hz
- Through-wiring possible, RGB model not possible
- Customer needs to provide XLR5 male/female connector for DMX control cable

LED spotlight luminaire

	kg	Order no.
21/2.25 W LED832, flood (22°) IP66	9.3	60 813 403
21/2.25 W LED832, superspot (6°) IP66	9.3	60 813 401
21/2.25 W LED860, flood (22°) IP66	9.3	60 813 404
21/2.25 W LED860, superspot (6°) IP66	9.3	60 813 402

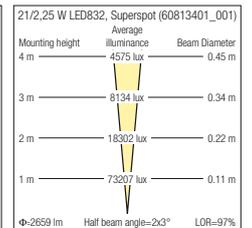
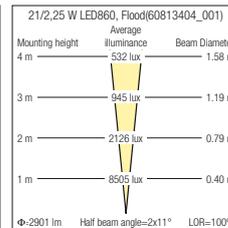
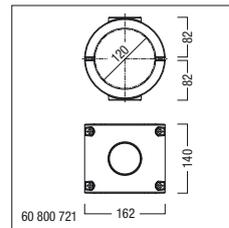
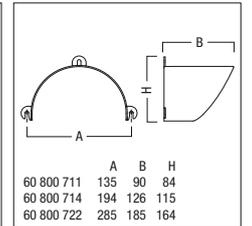
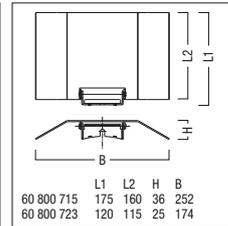
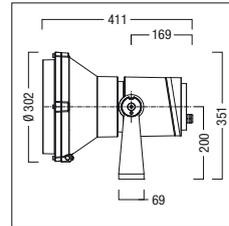
LED spotlight luminaire (RGB)

21/2 W LED RGB, DMX, flood (22°) IP65	9.7	60 813 405
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Accessory

Anti-glare panel, black	60 800 723
Clamp, silver-grey	60 800 721
Glare-reduction hood, black	60 800 722
Accessories (RGB-DMX) DMX 5-pin XLR5 plug with 120 Ohm resistor, IP65/67	60 800 740
Accessories (RGB-DMX) DMX 5-pin XLR5 plug, IP65/67	60 800 738
Accessories (RGB-DMX) DMX 5-pin XLR5 socket with 120 Ohm resistor, IP65/67	60 800 741
Accessories (RGB-DMX) DMX 5-pin XLR5 socket, IP65/67	60 800 739

Only one anti-glare panel is included for each part no 60 800 723; to fit the complete system containing four panels you must order 4 x 60 800 723.



PYLAS XL HIT-CE G12



- I...I
- Reflector made of ultra-pure aluminium
- Cable entry via PG 16 cable gland
- Includes low-loss ballast, switched
- Mains voltage: 230 V / 50/60 Hz
- Through-wiring is possible



850 °C
HIT-CE G12

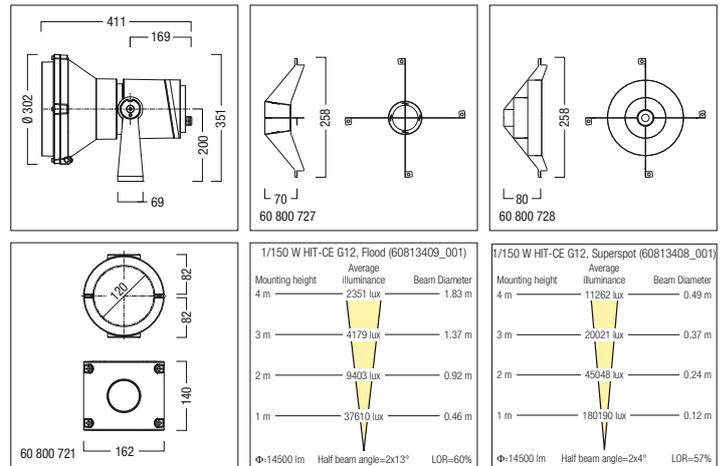
Spotlight luminaire

	kg	Order no.
1/70 W HIT-CE G12, flood (26°)	10.2	60 813 407
1/70 W HIT-CE G12, superspot (7°)	10.2	60 813 406
1/150 W HIT-CE G12, flood (26°)	11.8	60 813 409
1/150 W HIT-CE G12, superspot (7°)	11.8	60 813 408

Accessory

Anti-glare cylinder, black	60 800 727
Anti-glare panel, black	60 800 723
Clamp, silver-grey	60 800 721
Glare-reduction hood, black	60 800 722
Interchangeable lens with flood beam pattern	60 800 726
Oval-outline lens	60 800 725
Radial louvre	60 800 728

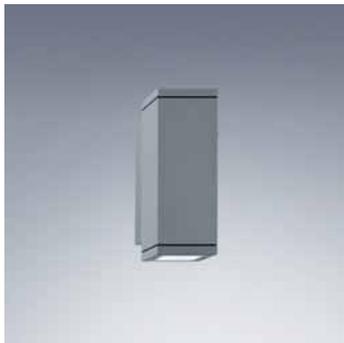
Only one anti-glare panel is included for each part no 60 800 723; to fit the complete system containing four panels you must order 4 x 60 800 723.



I...I Shared properties
IKONO S

- With superspot and flood beam pattern
- Once luminaire is fitted, the light cone can be readjusted in a range of about $\pm 15^\circ$
- Housing made of aluminium extrusion and die-cast aluminium (copper-free) with high corrosion protection
- Dual-layer epoxy and polyester powder-coating in silver-grey finish for best possible resistance
- Luminaire cover made of toughened safety glass
- Glass cover fitted flush in luminaire surround to prevent dirt accumulation
- Silicone gasket
- Luminaire body fixed to wall-mounting plate by 4 Allen screws
- Plug-in connector provides electrical connection to luminaire body and wall-mounting plate
- Cable entry via grommet
- Colour temperature: 3200 K (LED832) or 6000 K (LED860)
- Colour rendering: RA > 80
- LED RGB module (red/green/blue)
- IP65 degree of protection, Class of protection I
- RGB: IP65 degree of protection, equipment class III
- Power connection: via 3-pole terminal strip or 4-pole terminal strip (RGB) on the wall-mounting plate
- Includes electronic power pack, switched
- Mains voltage: 230 V / 50/60 Hz
- RGB: 24 V DC PWM power supply provided by DMX ballast box (100 W) or LED power pack; please order separately
- Wall-mounting plate fixed to wall by 3 screws (not included)
- Through-wiring is possible

IKONO-D S LED (Downlight)



IP65 IK07 850°C incl. LED

- I...I
- Square wall luminaire with single-sided direct illumination for practical and creative lighting on building walls

LED wall luminaire

	kg	Order no.
3/2 W LED832, flood (24°)	2.2	60 813 358
3/2 W LED832, superspot (12°) ◊	2.2	60 813 356
3/2 W LED860, flood (24°)	2.2	60 813 359
3/2 W LED860, superspot (12°)	2.2	60 813 357

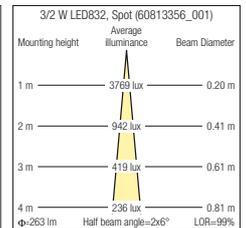
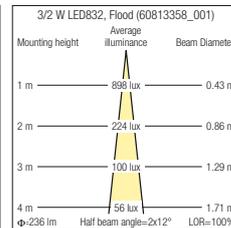
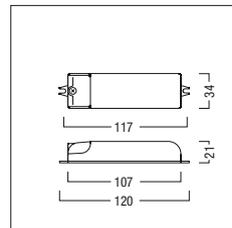
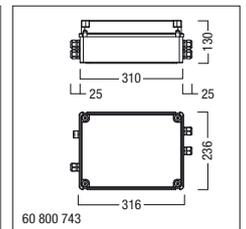
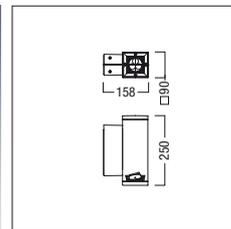
LED wall luminaire (RGB 24 V)

3/2 W LED RGB flood (24°), 24 V	2.2	60 813 360
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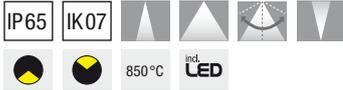
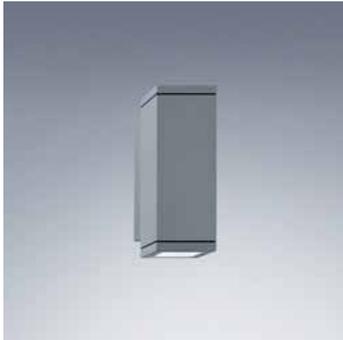
Accessory

Accessories (RGB-DMX) DMX 5-pin XLR5 plug with 120 Ohm resistor, IP65/67	60 800 741
Accessories (RGB-DMX) DMX 5-pin XLR5 plug, IP65/67	60 800 739
Accessories (RGB-DMX) DMX 5-pin XLR5 socket with 120 Ohm resistor, IP65/67	60 800 740
Accessories (RGB-DMX) DMX 5-pin XLR5 socket, IP65/67	60 800 738
LED power pack (DALI/24 V PWM) 0025 K211 24 V	86 455 066
Sequencers C002 PWM sequencer	86 454 968
LED power packs 0025 K201 24 V	86 453 418
LED power packs ETR 230 V-AC/24 V-DC/10 W	60 010 022
LED power packs ETR 230 V-AC/24 V-DC/25 W	57 003 230
DMX ballast box 100 W, 24 V DC, IP56	60 800 743

RGB: recommended cable LIYCY 4 x 1 mm².



IKONO-I/D S LED (Down-/Uplight)



- I...I
- Square wall luminaire with direct and indirect illumination (downlight and uplight) for practical and creative lighting on building facades

LED wall luminaire

	kg	Order no.
6/2 W LED832, flood (24°)	2.5	60 813 363
6/2 W LED832, superspot (12°)	2.5	60 813 361
6/2 W LED860, flood (24°)	2.5	60 813 364
6/2 W LED860, superspot (12°)	2.5	60 813 362

LED wall luminaire (RGB 24 V)

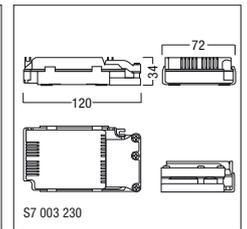
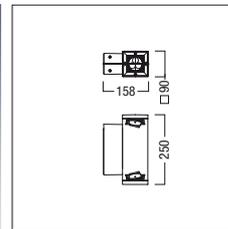
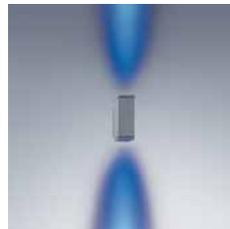
6/2 W LED RGB, flood (24°), 24 V	2.5	60 813 365
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Accessory

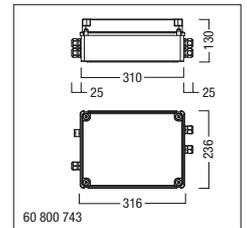
Accessories (RGB-DMX) DMX 5-pin XLR5 plug with 120 Ohm resistor, IP65/67	60 800 741
Accessories (RGB-DMX) DMX 5-pin XLR5 plug, IP65/67	60 800 739
Accessories (RGB-DMX) DMX 5-pin XLR5 socket with 120 Ohm resistor, IP65/67	60 800 740
Accessories (RGB-DMX) DMX 5-pin XLR5 socket, IP65/67	60 800 738
Accessories (RGB-DMX) DMX ballast box 100 W, 24 V DC, IP56	60 800 743
LED power pack (DALI/24 V PWM) 0025 K211 24 V	86 455 066
Sequencer C002 PWM-Sequencer	86 454 968
LED power packs 0025 K201 24 V	86 453 418
LED power packs ETR 230 V-AC/24 V-DC/10 W	60 010 022
LED power packs ETR 230 V-AC/24 V-DC/25 W	S7 003 230

Please refer to the downlight version for the light distribution characteristics.

RGB: recommended cable LIYCY 4 x 1 mm².



S7 003 230



60 800 743

I...I Shared properties
IKONO M

- With superspot and flood beam pattern
- Once luminaire is fitted, the light cone can be readjusted in a range of about $\pm 15^\circ$
- Housing made of aluminium extrusion and die-cast aluminium (copper-free) with high corrosion protection
- Dual-layer epoxy and polyester powder-coating in silver-grey finish for best possible resistance
- Luminaire cover made of toughened safety glass
- Glass cover fitted flush in luminaire surround to prevent dirt accumulation
- Silicone gasket
- Luminaire body fixed to wall-mounting plate by 4 Allen screws
- Plug-in connector provides electrical connection to luminaire body and wall-mounting plate
- Cable entry via grommet
- IP65 degree of protection, Class of protection I
- Mains voltage: 230 V / 50/60 Hz
- Wall-mounting plate fixed to wall by 3 screws (not included)
- Through-wiring is possible

IKONO-D M LED (Downlight)



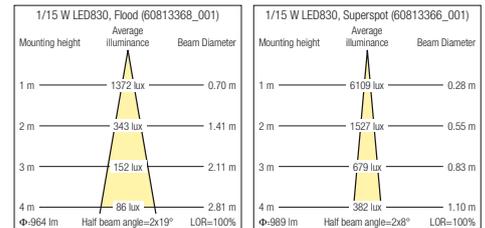
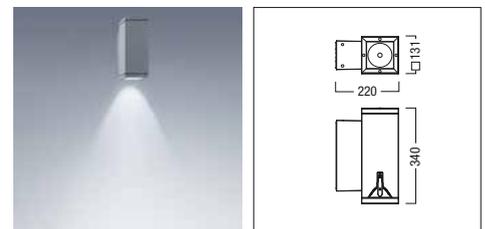
- I...I
- Square wall luminaire with single-sided direct illumination for practical and creative lighting on building walls
- With DMX control unit and rotary switch for setting address
- Colour temperature: 3000 K (LED830) or 6500 K (LED865)
- Colour rendering: RA > 80
- LED RGB module (2 x red, 3 x green, 2 x blue)
- Power connection: via 3-pole terminal strip or 2 x 3-pole terminal strip (RGB: power supply/DMX signal) on the wall-mounting plate
- Includes electronic power pack

LED wall luminaire

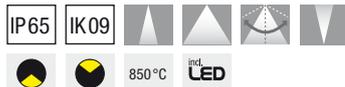
	kg	Order no.
1/15 W LED830, flood (42°)	4.8	60 813 368
1/15 W LED830, superspot (15°)	4.8	60 813 366
1/15 W LED865, flood (42°)	4.8	60 813 369
1/15 W LED865, superspot (15°)	4.8	60 813 367

LED wall luminaire (RGB)

1/13 W LED RGB, DMX, flood (22°)	4.9	60 813 370
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IKONO-I/D M LED (Down-/Uplight)



- I...I
- Square wall luminaire with direct and indirect illumination (downlight and uplight) for practical and creative lighting on building facades
- With DMX control unit and rotary switch for setting address
- Colour temperature: 3000 K (LED830) or 6500 K (LED865)
- Colour rendering: RA > 80
- LED RGB module (2 x red, 3 x green, 2 x blue)
- Power connection: via 3-pole terminal strip or 2 x 3-pole terminal strip (RGB: power supply/DMX signal) on the wall-mounting plate
- Includes electronic power pack

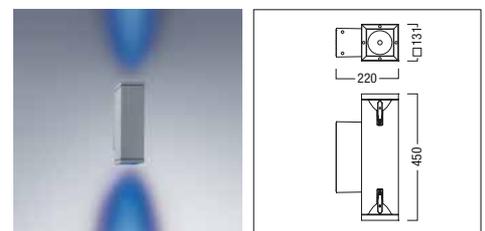
LED wall luminaire

	kg	Order no.
2/15 W LED830, flood (42°)	6.8	60 813 373
2/15 W LED830, superspot (15°)	6.8	60 813 371
2/15 W LED865, flood (42°)	6.8	60 813 374
2/15 W LED865, superspot (15°)	6.8	60 813 372

LED recessed wall luminaire (RGB)

2/13 W LED RGB, DMX, flood (22°)	6.9	60 813 375
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Please refer to the downlight version for the light distribution characteristics.



IKONO-D M HIT-TC-CE G8.5 (Downlight)



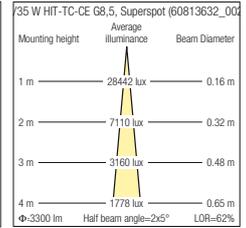
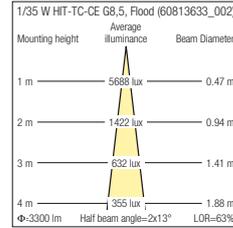
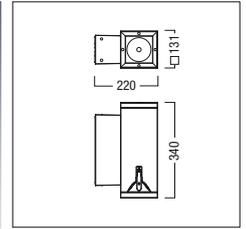
- [...]
 - Square wall luminaire with single-sided direct illumination for practical and creative lighting on building walls
 - Reflector made of ultra-pure aluminium
 - Internal power connection: 3-pole terminal strip on the wall-mounting plate
 - Includes low-loss ballast, switched



HIT-TC-CE G8.5 850 °C

Wall-mounted luminaire

	kg	Order no.
1/35 W HIT-TC-CE G8.5, flood (30°)	6.0	60 813 633
1/35 W HIT-TC-CE G8.5, superspot (10°)	6.0	60 813 632



IKONO-I/D M HIT-TC-CE G8.5 (Down-/Uplight)



- [...]
 - Square wall luminaire with direct and indirect illumination (downlight and uplight) for practical and creative lighting on building facades
 - Reflector made of ultra-pure aluminium
 - Internal power connection: 3-pole terminal strip on the wall-mounting plate
 - Includes low-loss ballasts, switched

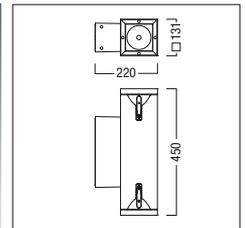


HIT-TC-CE G8.5 850 °C

Wall-mounted luminaire

	kg	Order no.
2/35 W HIT-TC-CE G8.5, flood (30°)	8.4	60 813 635
2/35 W HIT-TC-CE G8.5, superspot (10°)	8.4	60 813 634

Please refer to the downlight version for the light distribution characteristics.



I...I Shared properties
IKONO L

- With superspot and flood beam pattern
- Once luminaire is fitted, the light cone can be readjusted in a range of about $\pm 15^\circ$
- Housing made of aluminium extrusion and die-cast aluminium (copper-free) with high corrosion protection
- Dual-layer epoxy and polyester powder-coating in silver-grey finish for best possible resistance
- Luminaire cover made of toughened safety glass
- Glass cover fitted flush in luminaire surround to prevent dirt accumulation
- Silicone gasket
- Luminaire body fixed to wall-mounting plate by 4 Allen screws
- Plug-in connector provides electrical connection to luminaire body and wall-mounting plate
- Cable entry via grommet
- IP65 degree of protection, Class of protection I
- Internal power connection: 3-pole terminal strip on the wall-mounting plate
- Mains voltage: 230 V / 50/60 Hz
- Wall-mounting plate fixed to wall by 3 screws (not included)
- Through-wiring is possible

IKONO-D L LED (Downlight)

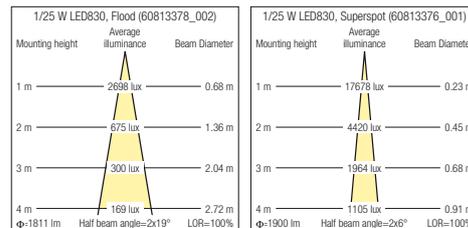
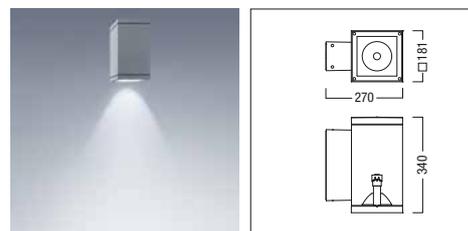


IP65 IK09 850 °C **incl. LED**

- I...I
- Square wall luminaire with single-sided direct illumination for practical and creative lighting on building walls
- Colour temperature: 3000 K (LED830) or 6500 K (LED865)
- Colour rendering: RA > 80
- Includes electronic power pack, switched

LED wall luminaire

	kg	Order no.
1/25 W LED830, flood (41°)	6.9	60 813 378
1/25 W LED830, superspot (11°)	6.9	60 813 376
1/25 W LED865, flood (41°)	6.9	60 813 379
1/25 W LED865, superspot (11°)	6.9	60 813 377



IKONO-I/D L LED (Down-/Uplight)



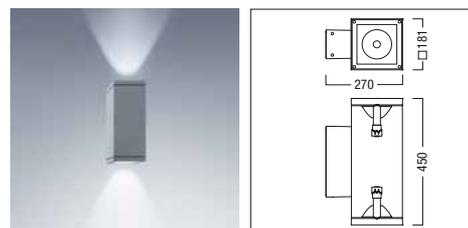
IP65 IK09 850 °C **incl. LED**

- I...I
- Square wall luminaire with direct and indirect illumination (downlight and uplight) for practical and creative lighting on building facades
- Colour temperature: 3000 K (LED830) or 6500 K (LED865)
- Colour rendering: RA > 80
- Includes electronic power pack, switched

LED wall luminaire

	kg	Order no.
2/25 W LED830, flood (41°)	9.9	60 813 382
2/25 W LED830, superspot (11°)	9.9	60 813 380
2/25 W LED865, flood (41°)	9.9	60 813 383
2/25 W LED865, superspot (11°)	9.9	60 813 381

Please refer to the downlight version for the light distribution characteristics.



IKONO-D L HIT-CE G12 (Downlight)



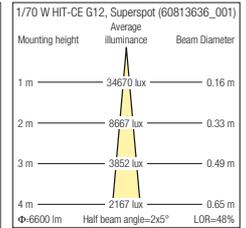
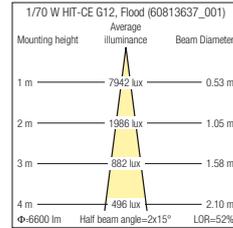
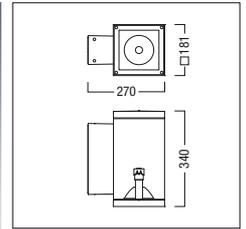
- I...I
- Square wall luminaire with single-sided direct illumination for practical and creative lighting on building walls
- Reflector made of ultra-pure aluminium
- Includes low-loss ballast, switched

IP65 IK09

HIT-CE G12 850 °C

Wall-mounted luminaire

	kg	Order no.
1/70 W HIT-CE G12, flood (30°)	8.0	60 813 637
1/70 W HIT-CE G12, superspot (10°)	8.0	60 813 636



IKONO-I/D L HIT-CE G12 (Down-/Uplight)



- I...I
- Square wall luminaire with direct and indirect illumination (downlight and uplight) for practical and creative lighting on building facades
- Reflector made of ultra-pure aluminium
- Includes low-loss ballasts, switched

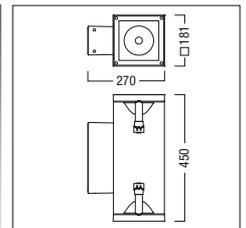
IP65 IK09

HIT-CE G12 850 °C

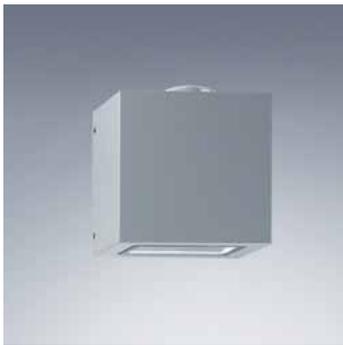
Wall-mounted luminaire

	kg	Order no.
2/70 W HIT-CE G12, flood (30°)	11.6	60 813 639
2/70 W HIT-CE G12, superspot (10°)	11.6	60 813 638

Please refer to the downlight version for the light distribution characteristics.



SKENA LED



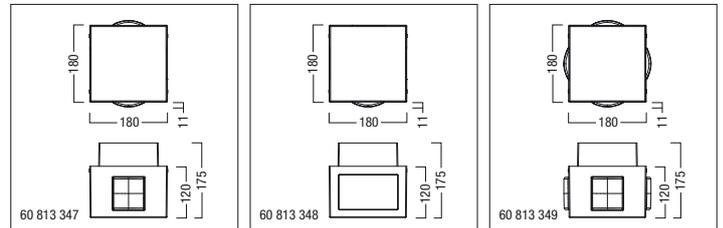
- Square LED wall-effect luminaire with directional lighting in 2 or 4 directions
- Housing made of die-cast aluminium (copper-free) with high corrosion protection
- Dual-layer epoxy and polyester powder-coating in silver-grey finish for best possible resistance
- Cable entry via grommet
- Transparent lenses made of toughened safety glass
- Optical system comprises conical, highly specular reflector and LED board unit emitting indirect light beam
- Colour temperature: 6000 K
- Colour rendering: RA > 80
- Includes electronic power pack, max. 25 W switched; dimmable on request
- Lamp(s): LED OSRAM OSOLON 10 W
- Power consumption: 10 W
- IP65 degree of protection, Class of protection I
- Connection: 3-pole terminal strip
- Mains voltage: 230 V 0/50/60 Hz
- Through-wiring is possible
- Luminaire housing fitted to wall plate using 4 Allen screws
- Mounted on wall using two fixing screws (not included)

LED wall effects luminaire (Uplight/Downlight)

	kg	Order no.
10 W LED860, superspot	3.4	60 813 347
10 W LED860, superspot/wideflood	3.4	60 813 348

LED wall effects luminaire (Horizontal light/Uplight/Downlight)

10 W LED860, superspot	3.2	60 813 349
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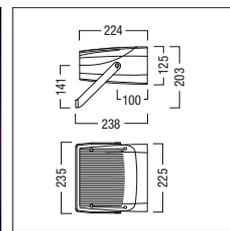
APHRODITE LED



- Spotlight designed for practical and emotional lighting effects on vertical surfaces indoors and out using white light, coloured light or combinations
- Optical system comprises LED module and specially shaped glass cylinder controlled via stepper motor (patent pending)
- Seven preset lighting scenes are available for selection: white, colour-variable (RBA: red, blue, amber) and combinations of both
- Speed of lighting scenes can be adjusted manually using pushbutton on spotlight (3 levels, stand alone) or controlled externally using the DMX protocol (20 levels)
- Light projection effects generated on random basis with continuous variation in light pattern produced by different colour and brightness curves
- Luminaire can pivot in the mounting bracket and be locked in position
- Die-cast aluminium housing and aluminium fixing bracket in matt white powder-coated finish with high corrosion protection
- The front glass panel (clear) with ceramic printing is thermally hardened and is bonded tightly onto the spotlight housing for a reliable seal
- Glass cylinder made of borosilicate glass with glass deformations for light refraction
- DMX controller address is set via rotary switch on rear of housing
- DMX connection (512-A standard) via DMX-IN/DMX-OUT with 0.02 m lead on spotlight
- LED module: white light with colour temperatures: 3000 K, 4200 K, 6500 K and RBA (colour-variable): amber, red, blue
- Service life: 50000 h at 70 % luminous flux
- IP65 degree of protection, Class of protection I
- Connecting cable: 3 m with safety plug
- Mains voltage: 230–240 V / 50/60 Hz
- Luminaire fitted to wall, ceiling or floor using mounting bracket
- Ideal for use in wellness areas and swimming pools

LED effects luminaire

	kg	Order no.
40 W LED RBA/W DMX	4.5	60 712 193
Accessory		
Accessories (DMX) DMX 5-pin XLR5 plug with 120 Ohm resistor, IP65/67		60 800 740
Accessories (DMX) DMX 5-pin XLR5 socket with 120 Ohm resistor, IP65/67		60 800 741



PAN LED



- Recessed luminaire for illuminating window recesses or lighting architectural details on a building facade
- Accent spot with lens optic
- With spot, flood or asymmetric/ellipsoid beam pattern
- Housing made of die-cast aluminium (copper-free) with high corrosion protection
- Dual-layer epoxy and polyester powder-coating in silver-grey finish for best possible resistance
- Luminaire cover made of chemically toughened, transparent safety glass, fixed using silicon adhesive
- PG cable gland
- Colour temperature: 3200 K (LED832) or 6000 K (LED860)
- Colour rendering: RA > 80
- IP65 degree of protection, equipment class III
- Operating current: 350 mA
- Luminaire includes power lead: 3 m (H07RN-F 2 x 1 mm²)
- Luminaire fitted using two M3 x 12 screws (included with product)
- Electronic ballast box (60 800 706), max. 10 W, 350 mA, 230 V 50/60 Hz, switched; for supplying up to 6 PAN luminaires; please order separately

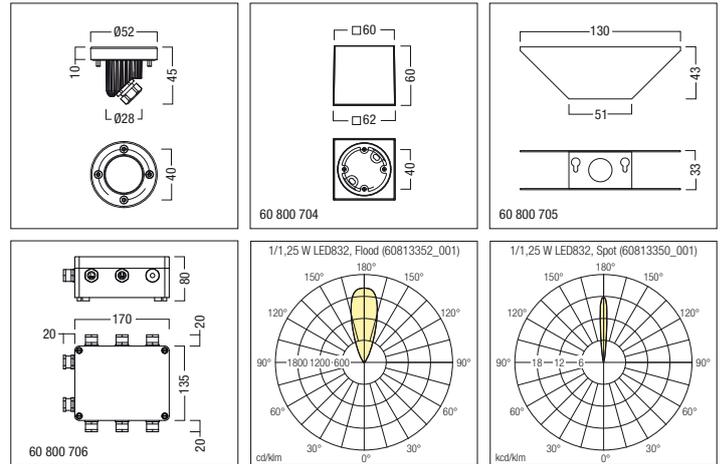
LED facade recessed luminaire

	kg	Order no.
1/1.25 W LED832, asymmetric/ellipsoid	0.2	60 813 354
1/1.25 W LED832, flood (37°)	0.2	60 813 352
1/1.25 W LED832, spot (11°)	0.2	60 813 350
1/1.25 W LED860, asymmetric/ellipsoid	0.2	60 813 355
1/1.25 W LED860, flood (37°)	0.2	60 813 353
1/1.25 W LED860, spot (11°)	0.2	60 813 351

Accessory

Glare-reduction hood, black (for asymmetric luminaires)	60 800 705
Surface-mount housing, silver-grey	60 800 704
Electronic supply box (IP55) 10 W, 350 mA, 230 V 50/60 Hz	60 800 706
Cable connector IP67, 4 x 1.5 mm ²	60 800 175

Housing available for surface-mounting luminaire (please order separately).

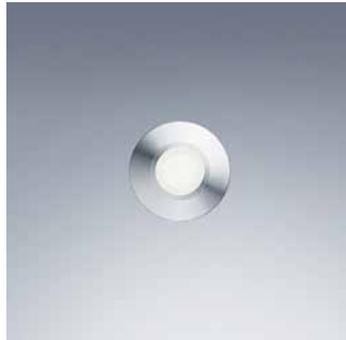


...I Shared properties
LEDOS III S

- Miniaturised LED luminaire for installing in floor, wall or ceiling
- Trim and luminaire housing are permanently fixed together
- Luminaire housing and frosted protective cover made of polycarbonate
- SMD-LED with flat or convex frosted lens optic, wide beam
- Colour temperature: 3200 K (LED832) or 6000 K (LED860)
- Colour rendering: RA 80
- Degree of protection IP67, IP65 (when installed in closed ceilings)
- Protection class III
- Installed load: 0.6 W
- Protective low voltage: 24 V-DC SELV
- Power lead: 3 m (2-pole), with PG cable gland on housing
- Max. load for pedestrian traffic: 1000 kg
- Impact strength: IK 09
- Maximum surface temperature of protective cover is 34 °C
- Concrete casting surround required for installation in concrete floors, walls or ceilings (please order separately)
- Special installation kit (5–20 mm) required for installation in cavity floors, walls or ceilings (please order separately)
- Please order 24 V power packs separately (switched or dimmable)
- Please order LED power pack (60 010 017) separately: 24 V DC, max. output power 25 W; switched, optionally dimmable (pushDIM, 1–10 V)
- External through-wiring possible with IP67 universal box; please order separately

LEDOS III S D30 buried uplighter, circular

RD/RØ Order no.



- ...I
- Stainless steel trim, AISI 316L grade with high corrosion resistance

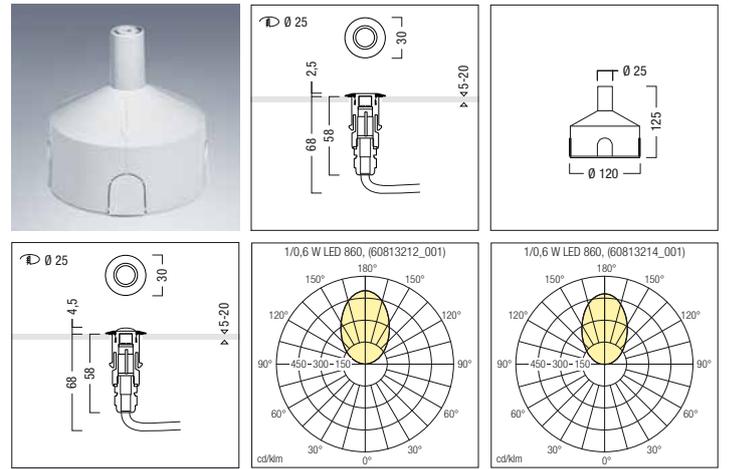


Circular trim (overlapping)

1/0.6 W LED832, 24 V convex protective cover, convex	68/25	60 813 215
1/0.6 W LED832, 24 V flat protective cover, frosted	68/25	60 813 213
1/0.6 W LED860, 24 V convex protective cover, convex	68/25	60 813 214
1/0.6 W LED860, 24 V flat protective cover, frosted	68/25	60 813 212

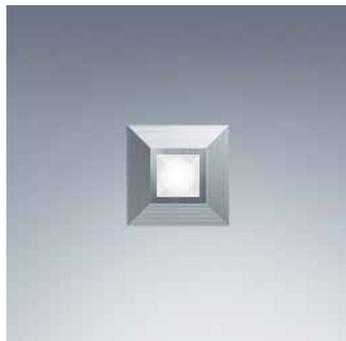
Accessory

LEDOS III S concrete casting surround	60 800 674
LEDOS III S installation kit for cavity floors/ceilings/walls	60 800 676



LEDOS III S Q29 buried uplighter, square

RL/RW/RD Order no.



- ...I
- Stainless steel trim, AISI 316L grade with high corrosion resistance

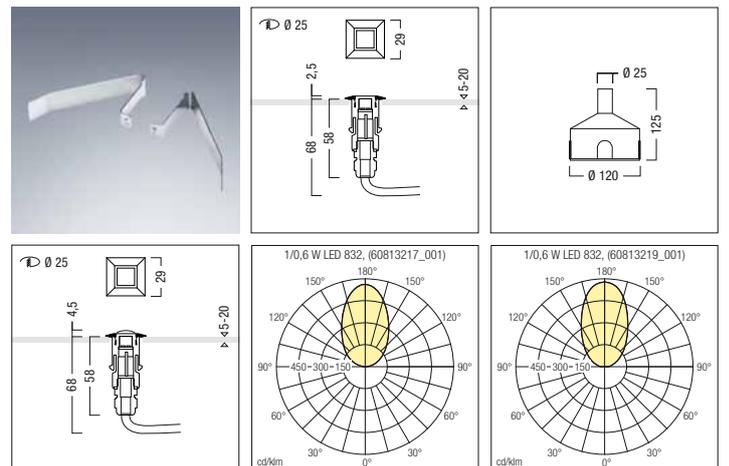


Square trim (overlapping)

1/0.6 W LED832, 24 V convex protective cover, convex	25/25/58	60 813 219
1/0.6 W LED832, 24 V flat protective cover, frosted	25/25/68	60 813 217
1/0.6 W LED860, 24 V convex protective cover, convex	25/25/58	60 813 218
1/0.6 W LED860, 24 V flat protective cover, frosted	25/25/68	60 813 216

Accessory

LEDOS III S concrete casting surround	60 800 674
LEDOS III S installation kit for cavity floors/ceilings/walls	60 800 676



I...I Shared properties
LEDOS III M

- LED accent spotlight with lens optic for installing in floor, wall or ceiling
- Trim and luminaire housing are permanently fixed together
- Luminaire housing and transparent or frosted-look protective cover made of polycarbonate
- High PowerLED with Spot, Flood, asymmetric and flat lens optic
- Colour temperature: 3200 K (LED832) or 6000 K (LED860)
- Colour rendering: RA 80
- Degree of protection IP67, IP65 (when installed in closed ceilings)
- Protection class III
- Installed load: 1.25 W
- Protective low voltage: 24 V-DC SELV
- Power lead: 1 m (2-pole), with PG cable gland on housing
- Max. load for pedestrian traffic: 1000 kg
- Impact strength: IK 09
- Maximum surface temperature of protective cover is 40 °C
- Concrete casting surround required for installation in concrete floors, walls or ceilings (please order separately)
- Special installation kit (5–20 mm) required for installation in cavity floors, walls or ceilings (please order separately)
- Please order 24 V power packs separately (switched or dimmable)
- Please order LED power pack (60 010 017) separately: 24 V DC, max. output power 25 W; switched, optionally dimmable (pushDIM, 1–10 V)
- External through-wiring possible with IP67 universal box; please order separately

LEDOS III M D45 buried uplighter, circular

RD/RØ Order no.



- I...I
- Stainless steel trim, AISI 316L grade with high corrosion resistance

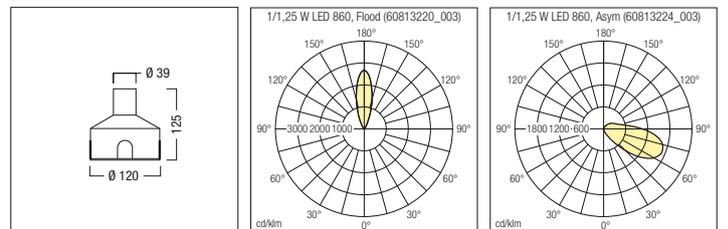


Circular trim (overlapping)

1/1.25 W LED832, 24 V flat protective cover, frosted	79/38	60 813 227
1/1.25 W LED832, 24 V spot lens optic	79/38	60 813 223
1/1.25 W LED832, 24 V textured asymmetric lens optic	79/38	60 813 225
1/1.25 W LED832, 24 V textured flood lens optic	79/38	60 813 221
1/1.25 W LED860, 24 V flat protective cover, frosted	79/38	60 813 226
1/1.25 W LED860, 24 V spot lens optic	79/38	60 813 222
1/1.25 W LED860, 24 V textured asymmetric lens optic	79/38	60 813 224
1/1.25 W LED860, 24 V textured flood lens optic	79/38	60 813 220

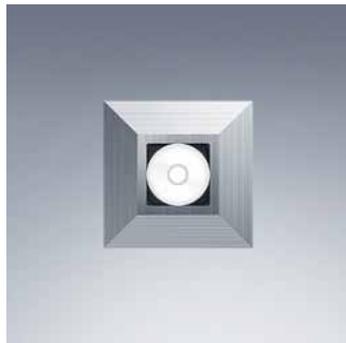
Accessory

LEDOS III M concrete casting surround	60 800 675
LEDOS III M installation kit for cavity floors/ceilings/walls	60 800 677



LEDOS III M Q43 buried uplighter, square

RL/RW/RD Order no.



- I...I
- Stainless steel trim, AISI 316L grade with high corrosion resistance

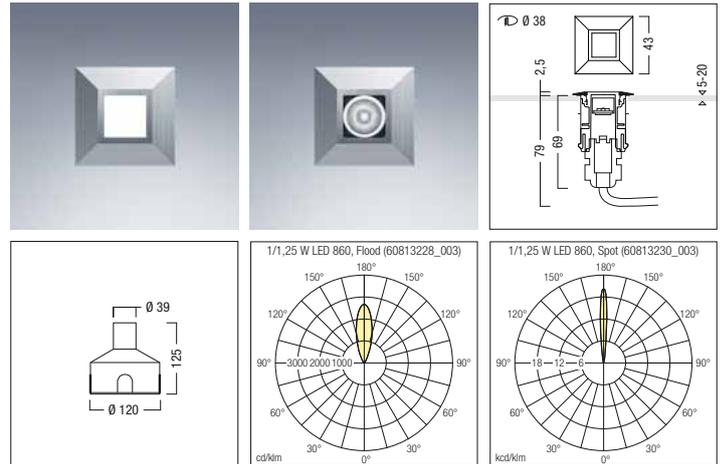


Square trim (overlapping)

1/1.25 W LED832, 24 V flat protective cover, frosted	38/38/79	60 813 235
1/1.25 W LED832, 24 V spot lens optic	38/38/79	60 813 231
1/1.25 W LED832, 24 V textured asymmetric lens optic	38/38/79	60 813 233
1/1.25 W LED832, 24 V textured flood lens optic	38/38/79	60 813 229
1/1.25 W LED860, 24 V flat protective cover, frosted	38/38/79	60 813 234
1/1.25 W LED860, 24 V spot lens optic	38/38/79	60 813 230
1/1.25 W LED860, 24 V textured asymmetric lens optic	38/38/79	60 813 232
1/1.25 W LED860, 24 V textured flood lens optic	38/38/79	60 813 228

Accessory

LEDOS III M concrete casting surround	60 800 675
LEDOS III M installation kit for cavity floors/ceilings/walls	60 800 677



LED power packs

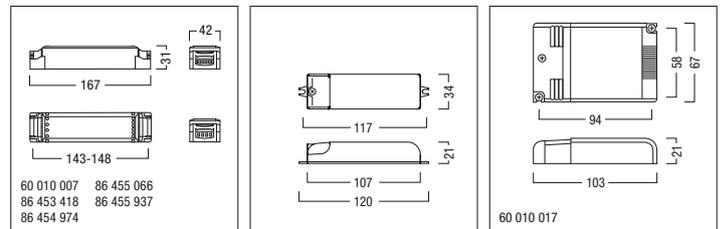
L/W/H Order no.



- LED power pack (60 010 022), output signal 24V DC, output power 10 W
- LED power pack (86 453 418), output signal 24V DC, output power 25 W
- LED power pack (60 010 017) with 24V DC output signal, max. output power 25 W; switched, optionally dimmable (pushDIM, 1–10V)

LED power packs

0025 K201 24 V		86 453 418
ETR 230 V-AC/24 V-DC/10 W	120/34/21	60 010 022
LED control gear 25 W UNI (350–750 mA or 10/12/24 V by Dip Switch)/1–10 V, 110–240 V AC	103/67/21	60 010 017



Universal boxes

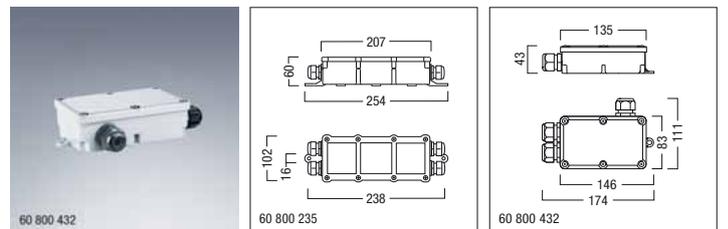
L/W/H Order no.



- IP67 multipurpose box (60 800 235): Designed for connecting up to 4 suitable cables; can be used to accommodate control gear or to through-wire mains or bus lines
- Cable entry via 4 SW32 (M25) cable glands for cable \varnothing 6.4–16 mm; includes 2 cable-gland plugs; 6-pole connecting terminal, max. conductor cross-section 4 x 2.5 mm²
- IP67 MINI multipurpose box (60 800 432): enables connection of up to 3 appropriate supply lines (H07RN-F, etc.); for through-wiring of mains cables outside luminaire unit
- Three SW25 PG cable glands for cables \varnothing 4.3–11.9 mm; 4-pole connecting terminal, max. conductor cross-section 2.5 mm²

Universal boxes

IP67 multi-purpose box for transformer or through-wiring IP67	254/102/60	60 800 235
MINI IP67 multi-purpose box for transformer or through-wiring	174/111/43	60 800 432



Cable connectors

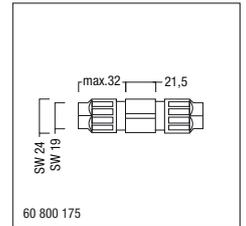
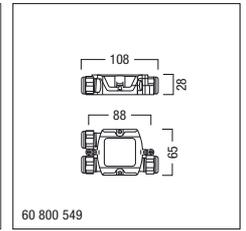
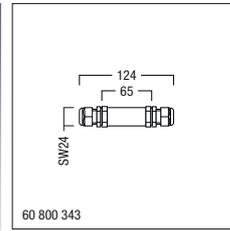
Order no.



- IP67 cable connector (60 800 175): 4-pole, max. 1,5 mm²; cable ends are fed through gland (providing seal) into cable connecting terminal; cables can be disconnected, e.g. when replacing LED circuit boards modules
- IP67 cable connector (60 800 343): 3-pole, 4 mm²; cable ends are fed through gland into screw terminals; cables can be disconnected if needed
- Cable connector for 3 cables, IP67 (60 800 549): 3-pole, 1.5 mm², IP67; allows up to 3 cables to be connected plus connecting terminal; can also be used for through-wiring

Cable connector

3-way IP67 cable connector, 3 x 1.5 mm ²	60 800 549
IP67 cable connector, 3 x 4.0 mm ²	60 800 343
IP67 cable connector, 4 x 1.5 mm ²	60 800 175



I...I Shared properties
PASO II 120

- Die-cast aluminium housing in powder-coated finish
- Colour: White
- Stainless steel trim with Camlock fasteners (no screws visible)
- Includes gasket to help prevent water penetrating between luminaire unit and casting surround
- PG cable gland
- Max. load for pedestrian traffic: 1000 kg; without trim: 500 kg
- Please always install with flexible cables e.g. H07RN-F
- Installed in concrete floors or pavings using concrete casting surround kit
- Model with overlapping trim: installation kit required for fitting in wooden or cavity floors; please order separately
- Model without trim: glass panel fixed by 4 torque screws
- Models with class "R10" anti-slip glass covers available upon request
- External through-wiring possible with IP67 universal box; please order separately

PASO II D120 LED circular



- I...I
- Access spot with approx. 10° spot beam pattern (PowerLEDs with lens optic)
- Partially frosted protective cover
- Colour temperature: 3200 K (LED832: warm white) or 6000 K (LED860: daylight white)
- Includes control gear
- Connection: 3-pole terminal strip
- PowerLED: swivels through ±20°
- Power consumption: 3.6 W
- IP67 degree of protection, Class of protection I
- Mains voltage: 230–240 V / 50/60 Hz
- Surface temperature of glass panel 37 °C maximum
- Neutral-white colour temperature available on request

Circular trim (overlapping), PowerLED 230 V

	RD/RØ	Order no.
3/1.2 W LED daylight white, superspot IK09	116/115	60 813 717
3/1.2 W LED warm white, superspot IK09	116/115	60 813 716

Circular trim (flush), PowerLED 230 V

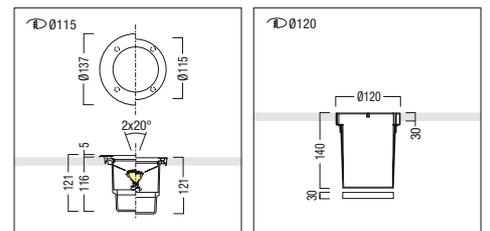
3/1.2 W LED daylight white, superspot IK09	121/115	60 813 719
3/1.2 W LED warm white, superspot IK09	121/115	60 813 718

Without trim, circular (flush), PowerLED 230 V

3/1.2 W LED daylight white, superspot IK08	121/115	60 813 721
3/1.2 W LED warm white, superspot IK08	121/115	60 813 720

Accessory

13.5 cable gland in special steel (V2A)	60 800 294
Concrete casting surround set D120	60 800 182
D/Q120 mounting kit for downlight and wall-mounted position	60 800 304
D120 glass seal	60 800 274
D120 glass seal for luminaires without surround	60 800 280
Mounting kit D120 and Q120 for wooden and cavity floors	60 800 190



PASO II Q120 LED square



- I...I
- Access spot with approx. 10° spot beam pattern (PowerLEDs with lens optic)
- Partially frosted protective cover
- Colour temperature: 3200 K (LED832: warm white) or 6000 K (LED860: daylight white)
- Includes control gear
- Connection: 3-pole terminal strip
- PowerLED: swivels through ±20°
- Power consumption: 3.6 W
- IP67 degree of protection, Class of protection I
- Mains voltage: 230–240 V / 50/60 Hz
- Surface temperature of glass panel 37 °C maximum
- Neutral-white colour temperature available on request

Square trim (overlapping), PowerLED 230 V

	RL/RW/RD	Order no.
3/1.2 W LED daylight white, superspot IK09	115/115/116	60 813 723
3/1.2 W LED warm white, superspot IK09	115/115/116	60 813 722

Square trim (flush), PowerLED 230 V

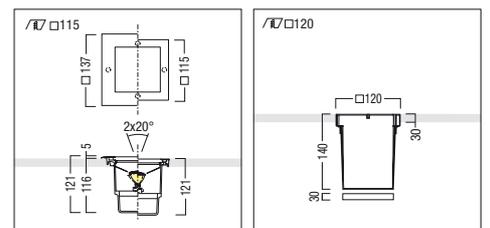
3/1.2 W LED daylight white, superspot IK09	115/115/121	60 813 725
3/1.2 W LED warm white, superspot IK09	115/115/121	60 813 724

Without trim, square (flush), PowerLED 230 V

3/1.2 W LED daylight white, superspot IK08	115/115/121	60 813 727
3/1.2 W LED warm white, superspot IK08	115/115/121	60 813 726

Accessory

13.5 cable gland in special steel (V2A)	60 800 294
Concrete casting surround set Q120	60 800 183
D/Q120 mounting kit for downlight and wall-mounted position	60 800 304
Mounting kit D120 and Q120 for wooden and cavity floors	60 800 190
Q120 glass seal	60 800 275
Q120 glass seal for luminaires without surround	60 800 281



PASO II D120 LED RGB circular



- I...I
- Accent spot with 3° superspot beam pattern (PowerLEDs with lens optic)
- Partially frosted protective cover
- PowerLED RGB (red/green/blue): ±20° tilt
- Converter (24 V) built into the luminaire
- Power connection: 4-pole terminal strip (common RGB positive terminal)
- Power consumption: 3.6 W
- IP67 degree of protection, Class of protection III
- Protective low voltage: 24 V-DC SELV
- Operated via DALI power pack, 1–10 V power pack or sequencer; please order separately
- Surface temperature of glass panel 37 °C maximum

Circular trim (overlapping), PowerLED RGB 24 V

	RD/RØ	Order no.
3/1.2 W LED RGB superspot	116/115	60 812 461

Circular trim (flush), PowerLED RGB 24 V

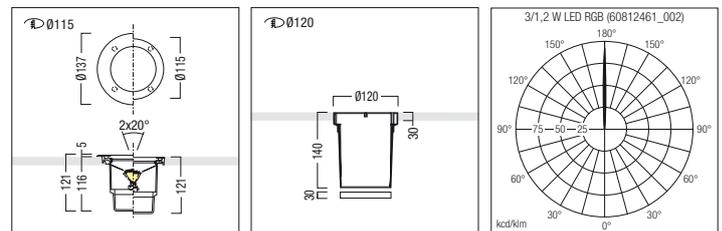
3/1.2 W LED RGB superspot	121/115	60 812 462
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Without trim, circular (flush), PowerLED RGB 24 V

3/1.2 W LED RGB superspot	121/115	60 812 463
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Accessory

13.5 cable gland in special steel (V2A)	60 800 294
Concrete casting surround set D120	60 800 182
D/Q120 mounting kit for downlight and wall-mounted position	60 800 304
D120 glass seal	60 800 274
D120 glass seal for luminaires without surround	60 800 280
Mounting kit D120 and Q120 for wooden and cavity floors	60 800 190
Electronic LED power pack ETR 230 V-AC/24 V-DC/10 W	60 010 022
Electronic LED power pack ETR 230 V-AC/24 V-DC/25 W	S7 003 230
Electronically dimmable LED power pack 0025 K211 24 V	86 455 066
Amplifier C001 PWM dimmer	86 454 974
Sequencers C002 PWM sequencer	86 454 968



PASO II Q120 LED RGB square



- I...I
- Accent spot with 3° superspot beam pattern (PowerLEDs with lens optic)
- Partially frosted protective cover
- PowerLED RGB (red/green/blue): ±20° tilt
- Converter (24 V) built into the luminaire
- Power connection: 4-pole terminal strip (common RGB positive terminal)
- Power consumption: 3.6 W
- IP67 degree of protection, Class of protection III
- Protective low voltage: 24 V-DC SELV
- Operated via DALI power pack, 1–10 V power pack or sequencer; please order separately
- Surface temperature of glass panel 37 °C maximum

Square trim (overlapping), PowerLED RGB 24 V

	RL/RW/RD	Order no.
3/1.2 W LED RGB superspot	115/115/116	60 812 464

Square trim (flush), PowerLED RGB 24 V

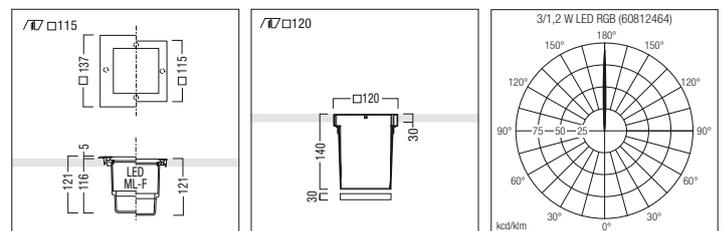
3/1.2 W LED RGB superspot	115/115/121	60 812 465
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Without trim, square (flush), PowerLED RGB 24 V

3/1.2 W LED RGB superspot	115/115/121	60 812 466
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Accessory

13.5 cable gland in special steel (V2A)	60 800 294
Concrete casting surround set Q120	60 800 183
D/Q120 mounting kit for downlight and wall-mounted position	60 800 304
Mounting kit D120 and Q120 for wooden and cavity floors	60 800 190
Q120 glass seal	60 800 275
Q120 glass seal for luminaires without surround	60 800 281
Electronic LED power pack ETR 230 V-AC/24 V-DC/10 W	60 010 022
Electronic LED power pack ETR 230 V-AC/24 V-DC/25 W	S7 003 230
Electronically dimmable LED power pack 0025 K211 24 V	86 455 066
Amplifier C001 PWM dimmer	86 454 974
Amplifier C002 PWM sequencer	86 454 968



PASO II D120 Soft LED circular

RD/RØ

Order no.



- I...I
- Frosted protective cover with diffuser
- Colour temperature (LED module): 3200 K (warm white) or 6650 K (daylight white)
- Includes control gear
- Connection: 3-pole terminal strip
- Power consumption: 1.2 W
- IP67 degree of protection, Class of protection I
- Mains voltage: 230–240 V / 50/60 Hz
- Surface temperature of glass panel 37 °C maximum
- Neutral-white colour temperature available on request

Circular trim (overlapping), Soft LED 230V

1/1.2 W LED daylight white	116/115	60 812 503
1/1.2 W LED warm white	116/115	60 812 500

Circular trim (flush), Soft LED 230V

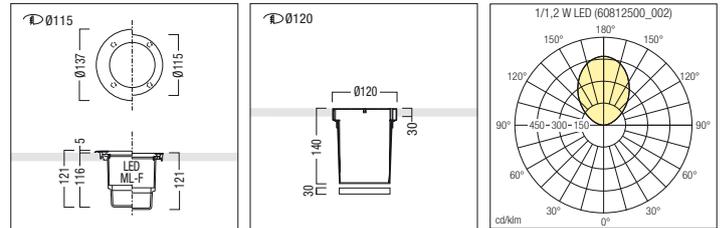
1/1.2 W LED daylight white	121/115	60 812 504
1/1.2 W LED warm white	121/115	60 812 501

Without trim, circular (flush), Soft LED 230V

1/1.2 W LED daylight white	121/115	60 812 505
1/1.2 W LED warm white	121/115	60 812 502

Accessory

13.5 cable gland in special steel (V2A)		60 800 294
Concrete casting surround set D120		60 800 182
D/Q120 mounting kit for downlight and wall-mounted position		60 800 304
D120 glass seal		60 800 274
D120 glass seal for luminaires without surround		60 800 280
Mounting kit D120 and Q120 for wooden and cavity floors		60 800 190



PASO II Q120 Soft LED square

RL/RW/RD

Order no.



- I...I
- Frosted protective cover with diffuser
- Colour temperature (LED module): 3200 K (warm white) or 6650 K (daylight white)
- Includes control gear
- Connection: 3-pole terminal strip
- Power consumption: 1.2 W
- IP67 degree of protection, Class of protection I
- Mains voltage: 230–240 V / 50/60 Hz
- Surface temperature of glass panel 37 °C maximum
- Neutral-white colour temperature available on request

Square trim (overlapping), Soft LED 230V

1/1.2 W LED daylight white	115/115/116	60 812 512
1/1.2 W LED warm white	115/115/116	60 812 509

Square trim (flush), Soft LED 230V

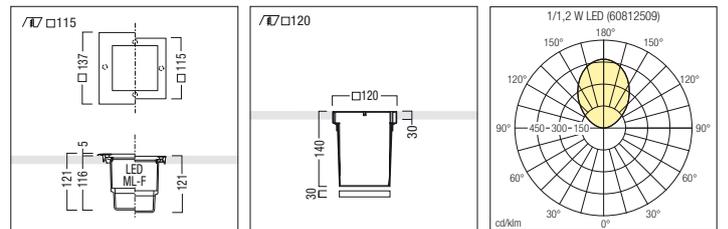
1/1.2 W LED daylight white	115/115/121	60 812 513
1/1.2 W LED warm white	115/115/121	60 812 510

Without trim, square (flush), Soft LED 230V

1/1.2 W LED daylight white	115/115/121	60 812 514
1/1.2 W LED warm white	115/115/121	60 812 511

Accessory

13.5 cable gland in special steel (V2A)		60 800 294
Concrete casting surround set Q120		60 800 183
D/Q120 mounting kit for downlight and wall-mounted position		60 800 304
Mounting kit D120 and Q120 for wooden and cavity floors		60 800 190
Q120 glass seal		60 800 275
Q120 glass seal for luminaires without surround		60 800 281



PASO II D120 Soft LED RGB circular



IP67 850°C

- I...I
- Frosted protective cover with diffuser
- LED RGB module (red/green/blue)
- Converter (24 V) built into the luminaire
- Power connection: 4-pole terminal strip (common RGB positive terminal)
- Power consumption: 4.3 W
- IP67 degree of protection, Class of protection III
- Protective low voltage: 24 V-DC SELV
- Operated via DALI power pack, 1–10 V power pack or sequencer; please order separately
- Surface temperature of glass panel 37 °C maximum

Circular trim (overlapping), Soft LED RGB 24 V

RD/RØ	Order no.
1/4.3 W LED RGB	60 812 497

Circular trim (flush), Soft LED RGB 24 V

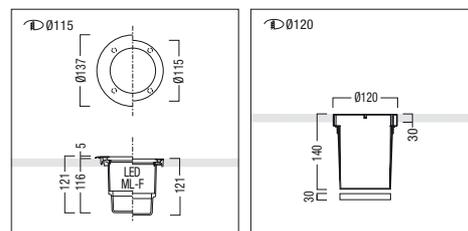
1/4.3 W LED RGB	60 812 498
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Without trim, circular (flush), Soft LED RGB 24 V

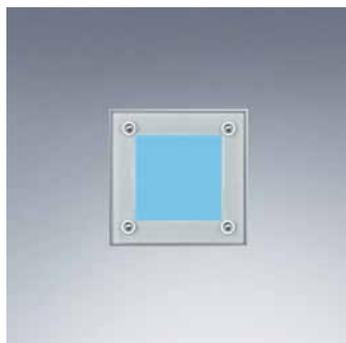
1/4.3 W LED RGB	60 812 499
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Accessory

13.5 cable gland in special steel (V2A)	60 800 294
Concrete casting surround set D120	60 800 182
D/Q120 mounting kit for downlight and wall-mounted position	60 800 304
D120 glass seal	60 800 274
D120 glass seal for luminaires without surround	60 800 280
Mounting kit D120 and Q120 for wooden and cavity floors	60 800 190
Electronic LED power pack ETR 230 V-AC/24 V-DC/10 W	60 010 022
Electronic LED power pack ETR 230 V-AC/24 V-DC/25 W	S7 003 230
Electronically dimmable LED power pack 0025 K211 24 V	86 455 066
Amplifier C001 PWM dimmer	86 454 974
Sequencers C002 PWM sequencer	86 454 968



PASO II Q120 Soft LED RGB square



IP67 850°C

- I...I
- Frosted protective cover with diffuser
- LED RGB module (red/green/blue)
- Converter (24 V) built into the luminaire
- Power connection: 4-pole terminal strip (common RGB positive terminal)
- Power consumption: 4.3 W
- IP67 degree of protection, Class of protection III
- Protective low voltage: 24 V-DC SELV
- Operated via DALI power pack, 1–10 V power pack or sequencer; please order separately
- Surface temperature of glass panel 37 °C maximum

Square trim (overlapping), Soft LED RGB 24 V

RL/RW/RD	Order no.
1/4.3 W LED RGB	60 812 506

Square trim (flush), Soft LED RGB 24 V

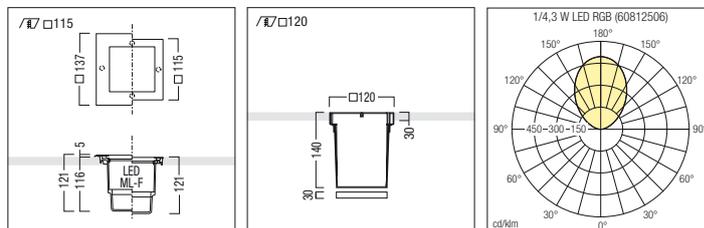
1/4.3 W LED RGB	60 812 507
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Without trim, square (flush), Soft LED RGB 24 V

1/4.3 W LED RGB	60 812 508
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Accessory

13.5 cable gland in special steel (V2A)	60 800 294
Concrete casting surround set Q120	60 800 183
D/Q120 mounting kit for downlight and wall-mounted position	60 800 304
Mounting kit D120 and Q120 for wooden and cavity floors	60 800 190
Q120 glass seal	60 800 275
Q120 glass seal for luminaires without surround	60 800 281
Electronic LED power pack ETR 230 V-AC/24 V-DC/10 W	60 010 022
Electronic LED power pack ETR 230 V-AC/24 V-DC/25 W	S7 003 230
Electronically dimmable LED power pack 0025 K211 24 V	86 455 066
Amplifier C001 PWM dimmer	86 454 974
Sequencers C002 PWM sequencer	86 454 968



PASO II D120 circular



- I...I
- Partially frosted protective cover
- Frosted protective cover with diffuser in models designed for TCR-TSE flat compact fluorescent lamp
- Power connection: 3-pole terminal strip (TCR-TSE), 2-pole terminal strip (QR-CBC)
- QR-CBC: $\pm 20^\circ$ tilt
- IP67 degree of protection, Class of protection I (TCR-TSE flat), Class of protection III (QR-CBC)
- QR-CBC lamps: only with type QR-CBC IRC 51, max. wattage 20 W
- TCR-TSE mains voltage: 220–240 V, 50/60 Hz
- QR-CBC lamp rated voltage 12 V, please order transformer separately
- Maximum surface temperature of glass panel: 90 °C for QR-CBC; 55 °C for TCR-TSE
- Max. of 2 accessory parts installed using filter holder
- TCR-TSE flat: cannot be fitted with filter/louvre

Circular trim (overlapping)

	RD/RØ	Order no.
1/6 W TCR-TSE flat GX53 frosted protective cover electronic	116/115	60 810 583
1/20 W QR-CBC IRC 51 GU5.3 protective cover, partly frosted white powder-coated	116/115	60 812 435

Circular trim (flush)

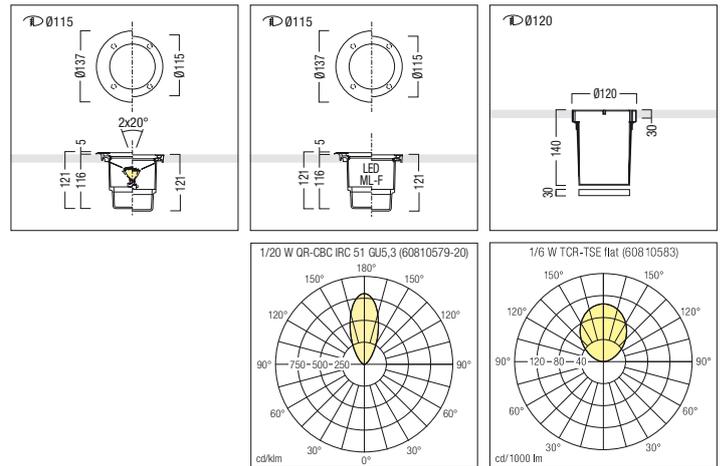
1/6 W TCR-TSE flat GX53 frosted protective cover electronic	121/115	60 810 584
1/20 W QR-CBC IRC 51 GU5.3 protective cover, partly frosted white powder-coated	121/115	60 812 436

Without trim, circular (flush)

1/6 W TCR-TSE flat GX53 frosted protective cover electronic	121/115	60 810 585
1/20 W QR-CBC IRC 51 GU5.3 protective cover, partly frosted white powder-coated	121/115	60 810 579

Accessory

13.5 cable gland in special steel (V2A)	60 800 294
Concrete casting surround set D120	60 800 182
D/Q120 mounting kit for downlight and wall-mounted position	60 800 304
D120 glass seal	60 800 274
D120 glass seal for luminaires without surround	60 800 280
Filter holder (D/Q120), for max. of 2 filters	60 800 193
Honeycomb mesh (D/Q120), black	60 800 199
Lamp TCR-TSE flat 6 W/840 GX53 (SYLVANIA)	24 145 240
Mounting kit D120 and Q120 for wooden and cavity floors	60 800 190
Relamping tool (QR-CBC)	60 800 282
Blocking filter IR filter (D/Q120)	60 800 229
Colour filter blue (D/Q120)	60 800 206
Colour filter green (D/Q120)	60 800 207
Colour filter red (D/Q120)	60 800 205
Colour filter yellow (D/Q120)	60 800 208



PASO II Q120 square



- I...I
- Partially frosted protective cover
- Frosted protective cover with diffuser in models designed for TCR-TSE flat compact fluorescent lamp
- Power connection: 3-pole terminal strip (TCR-TSE), 2-pole terminal strip (QR-CBC)
- QR-CBC: ±20° tilt
- IP67 degree of protection, Class of protection I (TCR-TSE flat), Class of protection III (QR-CBC)
- QR-CBC lamps: only with type QR-CBC IRC 51, max. wattage 20 W
- TCR-TSE mains voltage: 220–240 V, 50/60 Hz
- QR-CBC lamp rated voltage 12 V, please order transformer separately
- Maximum surface temperature of glass panel: 90 °C for QR-CBC; 55 °C for TCR-TSE
- Max. of 2 accessory parts installed using filter holder
- TCR-TSE flat: cannot be fitted with filter/louvre

RL/RW/RD Order no.

Square trim (overlapping)

1/6 W TCR-TSE flat GX53 frosted protective cover electronic	115/115/116	60 810 595
1/20 W QR-CBC IRC 51 GU5.3 protective cover, partly frosted white powder-coated	115/115/116	60 812 437

Square trim (flush)

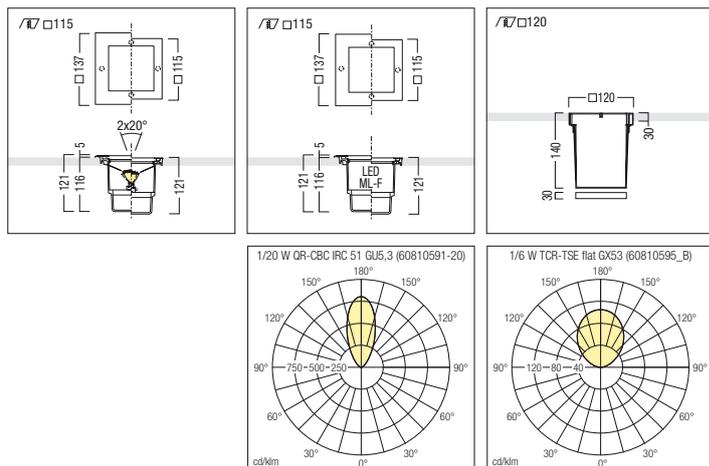
1/6 W TCR-TSE flat GX53 frosted protective cover electronic	115/115/121	60 810 596
1/20 W QR-CBC IRC 51 GU5.3 protective cover, partly frosted white powder-coated	115/115/121	60 812 438

Without trim, square (flush)

1/6 W TCR-TSE flat GX53 frosted protective cover electronic	115/115/121	60 810 597
1/20 W QR-CBC IRC 51 GU5.3 protective cover, partly frosted white powder-coated	115/115/121	60 810 591

Accessory

13.5 cable gland in special steel (V2A)	60 800 294
Concrete casting surround set Q120	60 800 183
D/Q120 mounting kit for downlight and wall-mounted position	60 800 304
Filter holder (D/Q120), for max. of 2 filters	60 800 193
Honeycomb mesh (D/Q120), black	60 800 199
Lamp TCR-TSE flat 6 W/840 GX53 (SYLVANIA)	24 145 240
Mounting kit D120 and Q120 for wooden and cavity floors	60 800 190
Q120 glass seal	60 800 275
Q120 glass seal for luminaires without surround	60 800 281
Relamping tool (QR-CBC)	60 800 282
Blocking filter IR filter (D/Q120)	60 800 229
Colour filter blue (D/Q120)	60 800 206
Colour filter green (D/Q120)	60 800 207
Colour filter red (D/Q120)	60 800 205
Colour filter yellow (D/Q120)	60 800 208



PASO II D190 Soft LED circular, recessed depth 100 mm

RD/RØ

Order no.



- Die-cast aluminium housing in powder-coated finish
- Colour: White
- Stainless steel trim with Camlock fasteners (no screws visible)
- Includes gasket to help prevent water penetrating between luminaire unit and casting surround
- Frosted protective cover with diffuser
- Power lead: 0.5 m (3-pole), with PG cable gland on housing
- Includes control gear
- Max. load: 1000 kg, can be walked over
- Colour temperature (LED module): 3200 K (warm white) or 6650 K (daylight white)
- Power consumption: 4.8 W
- IP67 degree of protection, Class of protection I
- Mains voltage: 220–240 V / 50/60 Hz
- Surface temperature of glass panel 35 °C maximum
- Please always install with flexible cables e.g. H07RN-F
- Installed in concrete floors or pavings using concrete casting surround kit
- Model with overlapping trim: installation kit required for fitting in wooden or cavity floors; please order separately
- Models with class "R10" anti-slip glass covers available upon request
- External through-wiring possible with IP67 universal box; please order separately
- Neutral-white colour temperature available on request

Circular trim (overlapping), Soft LED 230V

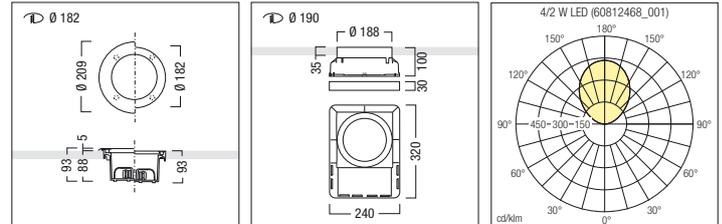
4/1.2 W LED daylight white	88/184	60 812 468
4/1.2 W LED warm white	88/184	60 812 467

Circular trim (flush), Soft LED 230V

4/1.2 W LED daylight white	93/184	60 812 470
4/1.2 W LED warm white	93/184	60 812 469

Accessory

13.5 cable gland in special steel (V2A)		60 800 294
Concrete casting surround kit D190, H = 100 mm		60 800 340
D/Q190 mounting kit for downlight and wall-mounted position		60 800 293
D190 glass seal		60 800 276
Mounting kit D190/Q190 for timber and cavity walls		60 800 191



I...I Shared properties PASO II 190

- Die-cast aluminium housing in powder-coated finish
- Colour: White
- Stainless steel trim with Camlock fasteners (no screws visible)
- Includes gasket to help prevent water penetrating between luminaire unit and casting surround
- Max. load: 1000 kg, can be walked over
- IP67 degree of protection, Class of protection I
- Mains voltage: 220–240V / 50/60 Hz
- Installed in concrete floors or pavings using concrete casting surround kit
- Model with overlapping trim: installation kit required for fitting in wooden or cavity floors; please order separately
- Models with class "R10" anti-slip glass covers available upon request

PASO II Q190 Soft LED square, recessed depth 100 mm

RL/RW/RD

Order no.



IP67 850 °C incl. LED

- I...I
- Frosted protective cover with diffuser
- Power lead: 0.5 m (3-pole), with PG cable gland on housing
- Includes control gear
- Colour temperature (LED module): 3200 K (warm white) or 6650 K (daylight white)
- Power consumption: 4.8 W
- Surface temperature of glass panel 35 °C maximum
- Please always install with flexible cables e.g. H07RN-F
- External through-wiring possible with IP67 universal box; please order separately
- Neutral-white colour temperature available on request

Square trim (overlapping), Soft LED 230V

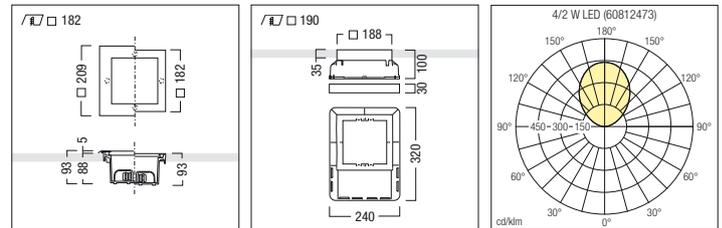
4/1.2 W LED daylight white	182/182/88	60 812 474
4/1.2 W LED warm white	182/182/88	60 812 473

Square trim (flush), Soft LED 230V

4/1.2 W LED daylight white	182/182/93	60 812 476
4/1.2 W LED warm white	182/182/93	60 812 475

Accessory

13.5 cable gland in special steel (V2A)	60 800 294
Concrete casting surround kit Q190, H = 100 mm	60 800 341
D/Q190 mounting kit for downlight and wall-mounted position	60 800 293
Mounting kit D190/Q190 for timber and cavity walls	60 800 191
Q190 glass seal	60 800 277



PASO II D190 Soft LED RRGB circular, recessed depth 100 mm

RD/RØ

Order no.



IP67 850 °C incl. LED

- I...I
- Frosted protective cover with diffuser
- LED RRGB module (red/green/green/blue)
- Power lead: 0.5 m (3-pole), with PG cable gland on housing
- Dali connected via connector fitted with PG cable gland
- Includes control gear, compatible with Dali dimmable only
- Power consumption: 8 W
- Surface temperature of glass panel 38 °C maximum
- Please always install with flexible cables e.g. H07RN-F
- External through-wiring possible with IP67 universal box; please order separately
- DMX control upon request

Circular trim (overlapping), Soft LED RGB 230V Dali dimmable only

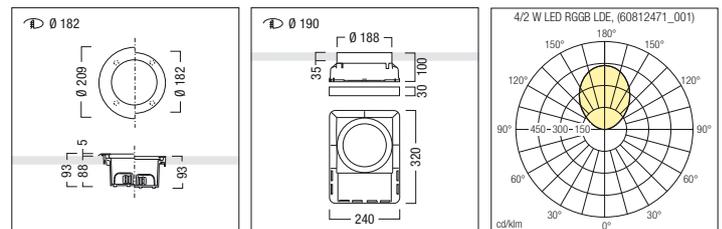
4/2 W LED RRGB, Dali dimmable	88/184	60 812 471
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Circular trim (flush), Soft LED RGB 230V Dali dimmable only

4/2 W LED RRGB, Dali dimmable	93/184	60 812 472
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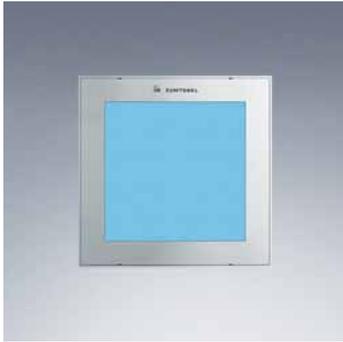
Accessory

13.5 cable gland in special steel (V2A)	60 800 294
Concrete casting surround kit D190, H = 100 mm	60 800 340
D/Q190 mounting kit for downlight and wall-mounted position	60 800 293
D190 glass seal	60 800 276
Mounting kit D190/Q190 for timber and cavity walls	60 800 191



PASO II Q190 Soft LED RGGB square, recessed depth 100 mm

RD/RØ Order no.



IP67 850 °C incl. LED

- I...I
- Frosted protective cover with diffuser
- LED RGGB module (red/green/green/blue)
- Power lead: 0.5 m (3-pole), with PG cable gland on housing
- Dali connected via connector fitted with PG cable gland
- Includes control gear, compatible with Dali dimmable only
- Power consumption: 8W
- Surface temperature of glass panel 38 °C maximum
- Please always install with flexible cables e.g. H07RN-F
- External through-wiring possible with IP67 universal box; please order separately
- DMX control upon request

Square trim (overlapping), Soft LED RGB 230V Dali dimmable only

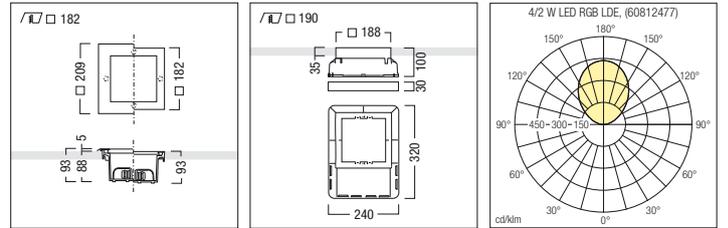
4/2 W LED RGB, Dali dimmable	88/182	60 812 477
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Square trim (flush), Soft LED RGB 230V Dali dimmable only

4/2 W LED RGB, Dali dimmable	93/182	60 812 478
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Accessory

13.5 cable gland in special steel (V2A)		60 800 294
Concrete casting surround kit Q190, H = 100 mm		60 800 341
D/Q190 mounting kit for downlight and wall-mounted position		60 800 293
Mounting kit D190/Q190 for timber and cavity walls		60 800 191
Q190 glass seal		60 800 277



PASO II D190 circular, recessed depth 100 mm

RD/RØ Order no.



IP67 850 °C

- I...I
- Partially frosted protective cover
- Frosted protective cover with diffuser in models for TC-DEL compact fluorescent lamp
- Power lead: 0.5 m (3-pole), with PG cable gland on housing
- Includes control gear
- Maximum surface temperature of glass panel: 88 °C for HIT; 60 °C for TC-DEL
- 1 accessory unit installed using filter holder
- HIT: control gear housed in separate IP67 universal box, through-wiring possible
- TC-DEL: through-wiring possible in combination with MINI IP67 universal box; please order separately

Circular trim (overlapping)

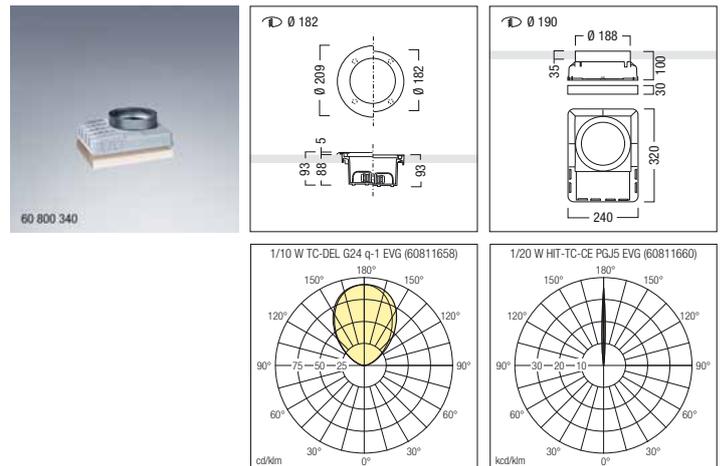
1/10 W TC-DEL G24 q-1 EVG frosted protective cover	88/184	60 811 658
1/20 W HIT-TC-CE PGJ5 EVG protective cover, partly frosted	88/184	60 811 660

Circular trim (flush)

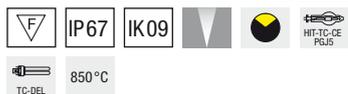
1/10 W TC-DEL G24 q-1 EVG frosted protective cover	93/184	60 811 659
1/20 W HIT-TC-CE PGJ5 EVG protective cover, partly frosted	93/184	60 811 661

Accessory

13.5 cable gland in special steel (V2A)		60 800 294
Concrete casting surround kit D190, H = 100 mm		60 800 340
D/Q190 mounting kit for downlight and wall-mounted position		60 800 293
D190 glass seal		60 800 276
Filter holder D190, for a max. of 2 filters		60 800 195
Mounting kit D190/Q190 for timber and cavity walls		60 800 191
Radial louvre for 1/20 W HIT		60 800 433
Blocking filter IR filter D190		60 800 231
Colour filter blue		60 800 214
Colour filter green		60 800 215
Colour filter red		60 800 213
Colour filter yellow		60 800 216



PASO II Q190 square, recessed depth 100 mm



- I...I
- Partially frosted protective cover
- Frosted protective cover with diffuser in models for TC-DEL compact fluorescent lamp
- Power lead: 0.5 m (3-pole), with PG cable gland on housing
- Includes control gear
- Maximum surface temperature of glass panel: 88 °C for HIT; 60 °C for TC-DEL
- 1 accessory unit installed using filter holder
- HIT: control gear housed in separate IP67 universal box, through-wiring possible
- TC-DEL: through-wiring possible in combination with MINI IP67 universal box; please order separately

Square trim (overlapping)

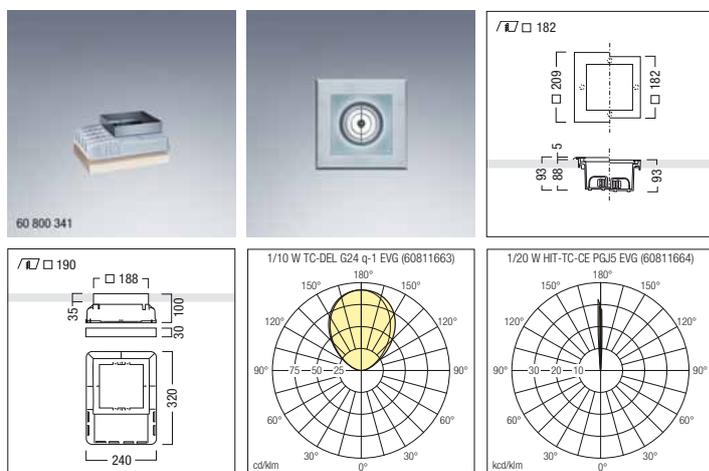
	RL/RW/RD	Order no.
1/10 W TC-DEL G24 q-1 EVG frosted protective cover $\frac{35}{82}$	182/182/88	60 811 662
1/20 W HIT-TC-CE PGJ5 EVG protective cover, partly frosted	182/182/88	60 811 664

Square trim (flush)

	RL/RW/RD	Order no.
1/10 W TC-DEL G24 q-1 EVG frosted protective cover $\frac{35}{82}$	182/182/93	60 811 663
1/20 W HIT-TC-CE PGJ5 EVG protective cover, partly frosted	182/182/93	60 811 665

Accessory

13.5 cable gland in special steel (V2A)		60 800 294
Concrete casting surround kit Q190, H = 100 mm		60 800 341
D/Q190 mounting kit for downlight and wall-mounted position		60 800 293
Filter holder Q190, for a max. of 2 filters		60 800 196
Mounting kit D190/Q190 for timber and cavity walls		60 800 191
Q190 glass seal		60 800 277
Radial louvre for 1/20 W HIT		60 800 433
Blocking filter IR filter Q190		60 800 232
Colour filter blue		60 800 218
Colour filter green		60 800 219
Colour filter red		60 800 217
Colour filter yellow		60 800 220



PASO II D190 LED circular



- I...I
- Accent spot with 6° superspot beam pattern (PowerLEDs with lens optic)
- Partially frosted protective cover
- PG cable gland, through-wiring possible
- Colour temperature: 3200 K (LED832: warm white) or 6000 K (LED860: daylight white)
- Includes control gear
- Connection: 3-pole terminal strip
- PowerLED: ±15° tilt
- Power consumption: 10 W
- Surface temperature of glass panel 35 °C maximum
- Please always install with flexible cables e.g. H07RN-F
- Neutral-white colour temperature available on request

Circular trim (overlapping), PowerLED 230V

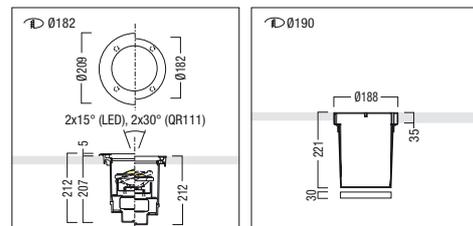
	RD/R0	Order no.
4/2.5 W LED daylight white, superspot	207/182	60 813 729
4/2.5 W LED warm white, superspot	207/182	60 813 728

Circular trim (flush), PowerLED 230V

4/2.5 W LED daylight white, superspot	212/182	60 813 731
4/2.5 W LED warm white, superspot	212/182	60 813 730

Accessory

13.5 cable gland in special steel (V2A)		60 800 294
Concrete casting surround set D190, H = 221 mm		60 800 184
D/Q190 mounting kit for downlight and wall-mounted position		60 800 293
D190 glass seal		60 800 276
Mounting kit D190/Q190 for timber and cavity walls		60 800 191



PASO II Q190 LED square

RL/RW/RD

Order no.



- [...]
 - Accent spot with 6° superspot beam pattern (PowerLEDs with lens optic)
 - Partially frosted protective cover
 - PG cable gland, through-wiring possible
 - Colour temperature: 3200 K (LED832: warm white) or 6000 K (LED860: daylight white)
 - Includes control gear
 - Connection: 3-pole terminal strip
 - PowerLED: ±15° tilt
 - Power consumption: 10 W
 - Surface temperature of glass panel 35 °C maximum
 - Please always install with flexible cables e.g. H07RN-F
 - Neutral-white colour temperature available on request

Square trim (overlapping), PowerLED 230V

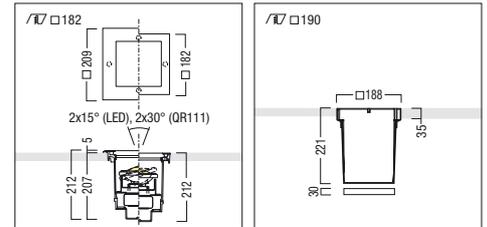
4/2.5 W LED daylight white, superspot	182/182/207	60 813 733
4/2.5 W LED warm white, superspot	182/182/207	60 813 732

Square trim (flush), PowerLED 230V

4/2.5 W LED daylight white, superspot	182/182/207	60 813 735
4/2.5 W LED warm white, superspot	182/182/207	60 813 734

Accessory

13.5 cable gland in special steel (V2A)		60 800 294
Concrete casting surround set Q190, H = 221 mm		60 800 185
D/Q190 mounting kit for downlight and wall-mounted position		60 800 293
Mounting kit D190/Q190 for timber and cavity walls		60 800 191
Q190 glass seal		60 800 277



PASO II D190 LED RGGG circular

RD/RØ

Order no.



- [...]
 - Accent spot with 30° flood beam pattern (PowerLEDs with lens optic)
 - Partially frosted protective cover
 - PowerLED RGGG (red/green/blue): ±15° tilt
 - PG cable gland
 - Dali connected via connector fitted with PG cable gland
 - Includes control gear, compatible with Dali dimmable only
 - Connection: 3-pole terminal strip
 - Power consumption: 8 W
 - Surface temperature of glass panel 35 °C maximum
 - Please always install with flexible cables e.g. H07RN-F
 - External through-wiring possible with IP67 universal box; please order separately
 - DMX control upon request

Circular trim (overlapping), PowerLED RGB 230V Dali dimmable only

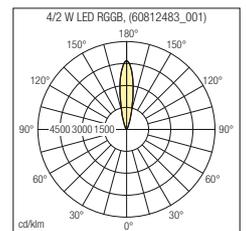
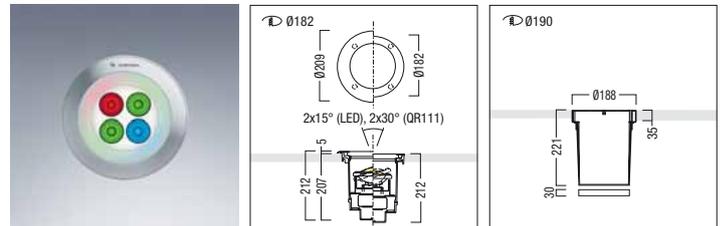
4/2 W LED RGGG, flood, DALI dimmable	207/182	60 812 483
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Circular trim (flush), PowerLED RGB 230V Dali dimmable only

4/2 W LED RGGG, flood, DALI dimmable	212/182	60 812 484
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Accessory

13.5 cable gland in special steel (V2A)		60 800 294
Concrete casting surround set D190, H = 221 mm		60 800 184
D/Q190 mounting kit for downlight and wall-mounted position		60 800 293
D190 glass seal		60 800 276
Mounting kit D190/Q190 for timber and cavity walls		60 800 191



PASO II Q190 LED RGGB square

RL/RW/RD

Order no.



- [...]
 - Accent spot with 30° flood beam pattern (PowerLEDs with lens optic)
 - Partially frosted protective cover
 - PowerLED RGGB (red/green/green/blue): ±15° tilt
 - PG cable gland
 - Dali connected via connector fitted with PG cable gland
 - Includes control gear, compatible with Dali dimmable only
 - Connection: 3-pole terminal strip
 - Power consumption: 8 W
 - Surface temperature of glass panel 35 °C maximum
 - Please always install with flexible cables e.g. H07RN-F
 - External through-wiring possible with IP67 universal box; please order separately
 - DMX control upon request

Square trim (overlapping), PowerLED RGB 230 V Dali dimmable only

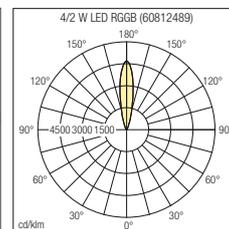
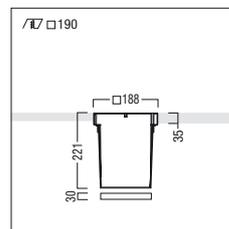
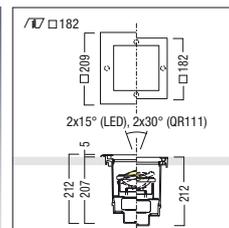
4/2 W LED RGGB flood, DALI dimmable	182/182/207	60 812 489
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Square trim (flush), PowerLED RGB 230 V Dali dimmable only

4/2 W LED RGGB flood, DALI dimmable	182/182/212	60 812 490
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Accessory

13.5 cable gland in special steel (V2A)		60 800 294
Concrete casting surround set Q190, H = 221 mm		60 800 185
D/Q190 mounting kit for downlight and wall-mounted position		60 800 293
Mounting kit D190/Q190 for timber and cavity walls		60 800 191
Q190 glass seal		60 800 277



PASO II D190 circular

RD/RØ

Order no.



- [...]
 - Partially frosted protective cover
 - Frost protective cover with diffuser in models for TC-TEL compact fluorescent lamp
 - PG cable gland, through-wiring possible
 - Includes control gear
 - Connection: 3-pole terminal strip
 - QR 111 lamps: QR 111 IRC only, max. wattage 30 W (Philips MASTERLine 111 30 W G53 12 V 24D)
 - QR 111: ±30° tilt
 - HIT-TC-CE: ±20° tilt
 - Maximum surface temperature of glass panel: 82 °C for HIT; 99 °C for QR111; 74 °C for TC-TEL
 - Max. of 2 accessory parts installed using filter holder

Circular trim (overlapping)

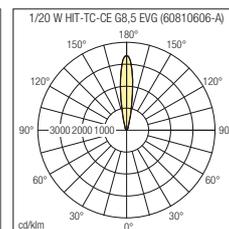
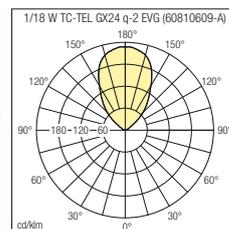
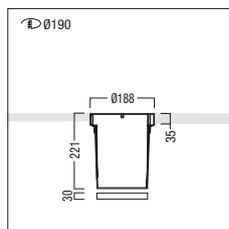
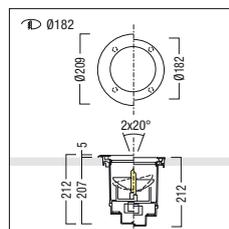
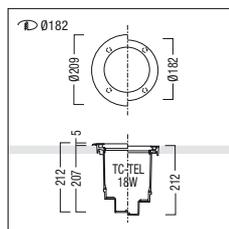
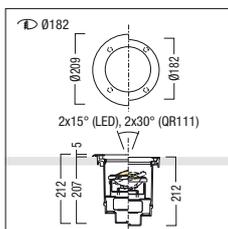
1/18 W TC-TEL GX24 q-2 EVG frosted protective cover electronic ▽	207/182	60 810 609
1/20 W HIT-TC-CE G8.5 EVG spot, partly frosted protective cover electronic ▽	207/182	60 810 605
1/30 W QR 111 IRC protective cover, partly frosted white powder-coated	207/182	60 812 439

Circular trim (flush)

1/18 W TC-TEL GX24 q-2 EVG frosted protective cover electronic ▽	212/182	60 810 610
1/20 W HIT-TC-CE G8.5 EVG spot, partly frosted protective cover electronic ▽	212/182	60 810 606
1/30 W QR 111 IRC protective cover, partly frosted white powder-coated	212/182	60 812 440

Accessory

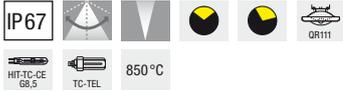
13.5 cable gland in special steel (V2A)		60 800 294
Concrete casting surround set D190, H = 221 mm		60 800 184
D/Q190 mounting kit for downlight and wall-mounted position		60 800 293
D190 glass seal		60 800 276
Filter holder D190, for a max. of 2 filters		60 800 195
Honeycomb mesh D190, black		60 800 201
Mounting kit D190/Q190 for timber and cavity walls		60 800 191
Blocking filter IR filter D190		60 800 231
Colour filter blue		60 800 214
Colour filter green		60 800 215
Colour filter red		60 800 213
Colour filter yellow		60 800 216



PASO II Q190 square

RL/RW/RD

Order no.



- I...I
- Partially frosted protective cover
- Frost protective cover with diffuser in models for TC-TEL compact fluorescent lamp
- PG cable gland, through-wiring possible
- Includes control gear
- Connection: 3-pole terminal strip
- QR 111 lamps: QR 111 IRC only, max. wattage 30 W (Philips MASTERLine 111 30 W G53 12 V 24D)
- QR 111: ±30° tilt
- HIT-TC-CE: ±20° tilt
- Maximum surface temperature of glass panel: 82 °C for HIT; 99 °C for QR111; 74 °C for TC-TEL
- Max. of 2 accessory parts installed using filter holder

Square trim (overlapping)

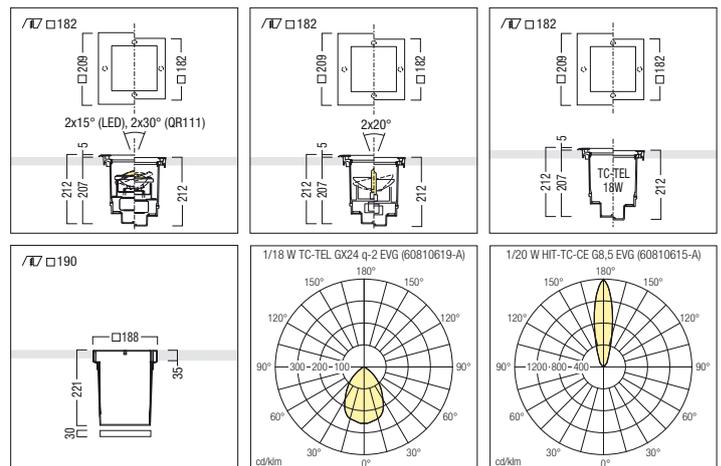
1/18 W TC-TEL GX24 q-2 EVG frosted protective cover electronic ▽	182/182/207	60 810 619
1/20 W HIT-TC-CE G8.5 EVG spot, partly frosted protective cover electronic ▽	182/182/207	60 810 615
1/30 W QR 111 IRC protective cover, partly frosted white powder-coated	182/182/207	60 812 441

Square trim (flush)

1/18 W TC-TEL GX24 q-2 EVG frosted protective cover electronic ▽	182/182/212	60 810 620
1/20 W HIT-TC-CE G8.5 EVG spot, partly frosted protective cover electronic ▽	182/182/212	60 810 616
1/30 W QR 111 IRC protective cover, partly frosted white powder-coated	182/182/212	60 812 442

Accessory

13.5 cable gland in special steel (V2A)	60 800 294
Concrete casting surround set Q190, H = 221 mm	60 800 185
D/Q190 mounting kit for downlight and wall-mounted position	60 800 293
Filter holder Q190, for a max. of 2 filters	60 800 196
Honeycomb mesh Q190, black	60 800 202
Mounting kit D190/Q190 for timber and cavity walls	60 800 191
Q190 glass seal	60 800 277
Blocking filter IR filter Q190	60 800 232
Colour filter blue	60 800 218
Colour filter green	60 800 219
Colour filter red	60 800 217
Colour filter yellow	60 800 220



I...I Shared properties
PASO II 260

- Die-cast aluminium housing in powder-coated finish
- Colour: White
- Stainless steel trim with Camlock fasteners (no screws visible)
- Includes gasket to help prevent water penetrating between luminaire unit and casting surround
- Partially frosted protective cover
- Max. load: 1000 kg, can be walked over
- IP67 degree of protection, Class of protection I
- Installed in concrete floors or pavings using concrete casting surround kit
- Model with overlapping trim: installation kit required for fitting in wooden or cavity floors; please order separately
- Models with class "R10" anti-slip glass covers available upon request

PASO II D260 circular, recessed depth 100 mm



850 °C

- I...I
- Frosted protective cover with diffuser in models for TC-DEL compact fluorescent lamp
- Power lead: 0.5 m (3-pole), with PG cable gland on housing
- Includes control gear
- Mains voltage: 230–240 V / 50/60 Hz
- Maximum surface temperature of glass panel: 87 °C for HIT 35 W; 62 °C for TC-DEL/ HIT 20 W
- Please always install with flexible cables e.g. H07RN-F
- 1 accessory unit installed using filter holder
- External through-wiring possible with IP67 universal box; please order separately
- TC-DEL: cannot be fitted with honeycomb louvre

Circular trim (overlapping)

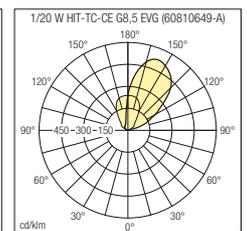
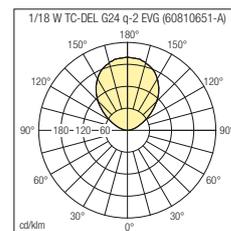
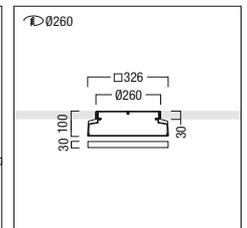
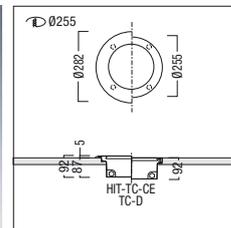
	RD/R0	Order no.
1/18 W TC-DEL G24 q-2 EVG frosted protective cover	87/255	60 810 651
1/20 W HIT-TC-CE G8.5 EVG asymmetric, partially frosted protective cover	87/255	60 810 649
1/35 W HIT-TC-CE G8.5 EVG asymmetric, partially frosted protective cover	87/255	60 812 451

Circular trim (flush)

	RD/R0	Order no.
1/18 W TC-DEL G24 q-2 EVG frosted protective cover	92/255	60 810 652
1/20 W HIT-TC-CE G8.5 EVG asymmetric, partially frosted protective cover	92/255	60 810 650
1/35 W HIT-TC-CE G8.5 EVG asymmetric, partially frosted protective cover	92/255	60 812 452

Accessory

13.5 cable gland in special steel (V2A)	60 800 294
Concrete casting surround set D260, H = 100 mm	60 800 188
D/Q260 mounting kit for downlight and wall-mounted position	60 800 305
D260 glass seal	60 800 278
Filter holder D260, for 1 filter	60 800 236
Mounting kit D260/Q260 for wooden and cavity floors	60 800 192
Blocking filter IR filter D260	60 800 233
Colour filter blue	60 800 222
Colour filter green	60 800 223
Colour filter red	60 800 221
Colour filter yellow	60 800 224



PASO II Q260 square, recessed depth 100 mm



- I...I
- Frosted protective cover with diffuser in models for TC-DEL compact fluorescent lamp
- Power lead: 0.5 m (3-pole), with PG cable gland on housing
- Includes control gear
- Mains voltage: 230–240 V / 50/60 Hz
- Maximum surface temperature of glass panel: 87 °C for HIT 35 W; 62 °C for TC-DEL/ HIT 20 W
- 1 accessory unit installed using filter holder
- External through-wiring possible with IP67 universal box; please order separately
- TC-DEL: cannot be fitted with honeycomb louvre

Square trim (overlapping)

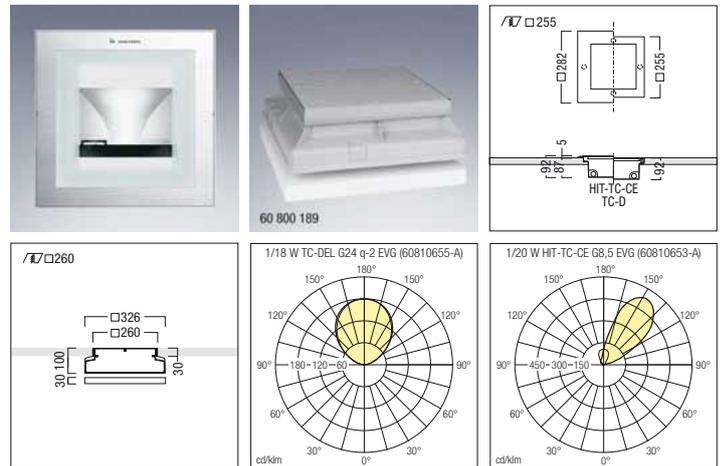
	RL/RW/RD	Order no.
1/18 W TC-DEL G24 q-2 EVG frosted protective cover	255/255/87	60 810 655
1/20 W HIT-TC-CE G8.5 EVG asymmetric, partially frosted protective cover	255/255/87	60 810 653
1/35 W HIT-TC-CE G8.5 EVG asymmetric, partially frosted protective cover	255/255/87	60 812 453

Square trim (flush)

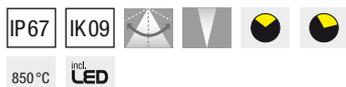
	RL/RW/RD	Order no.
1/18 W TC-DEL G24 q-2 EVG frosted protective cover	255/255/92	60 810 656
1/20 W HIT-TC-CE G8.5 EVG asymmetric, partially frosted protective cover	255/255/92	60 810 654
1/35 W HIT-TC-CE G8.5 EVG asymmetric, partially frosted protective cover	255/255/92	60 812 454

Accessory

13.5 cable gland in special steel (V2A)	60 800 294
Concrete casting surround set Q260, H = 100 mm	60 800 189
D/Q260 mounting kit for downlight and wall-mounted position	60 800 305
Filter holder D260, for 1 filter	60 800 237
Mounting kit D260/Q260 for wooden and cavity floors	60 800 192
Q260 glass seal	60 800 279
Blocking filter IR filter Q260	60 800 234
Colour filter blue	60 800 226
Colour filter green	60 800 227
Colour filter red	60 800 225
Colour filter yellow	60 800 228



PASO II D260 LED circular



- I...I
- Accent spot with 6° superspot beam pattern (PowerLEDs with lens optic)
- PG cable gland, through-wiring possible
- Colour temperature: 3200 K (LED832: warm white) or 6000 K (LED860: daylight white)
- Includes control gear
- Connection: 3-pole terminal strip
- PowerLED: ±15° tilt
- Power consumption: 17.5 W
- Mains voltage: 220–240 V / 50/60 Hz
- Surface temperature of glass panel 40 °C maximum
- Please always install with flexible cables e.g. H07RN-F
- Neutral-white colour temperature available on request
- Square versions available on request

Circular trim (overlapping), PowerLED 230V

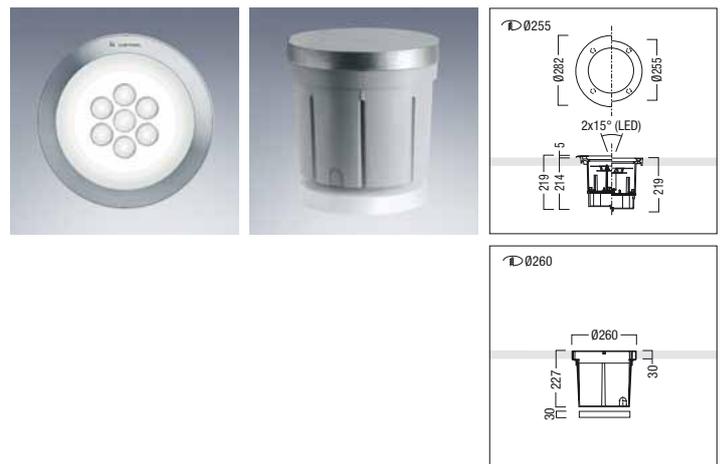
	RD/RØ	Order no.
7/2.5 W LED daylight white, superspot	214/255	60 813 737
7/2.5 W LED warm white, superspot	214/255	60 813 736

Circular trim (flush), PowerLED 230V

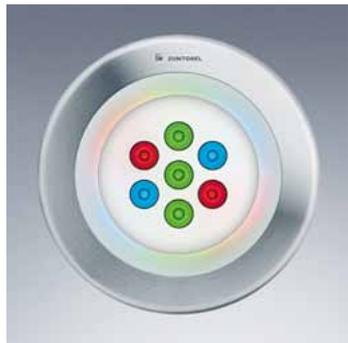
7/2.5 W LED daylight white, superspot	219/255	60 813 739
7/2.5 W LED warm white, superspot	219/255	60 813 738

Accessory

13.5 cable gland in special steel (V2A)	60 800 294
Concrete casting surround set D260, H = 227 mm	60 800 186
D/Q260 mounting kit for downlight and wall-mounted position	60 800 305
D260 glass seal	60 800 278
Mounting kit D260/Q260 for wooden and cavity floors	60 800 192



PASO II D260 LED RRGGBB circular



IP67
incl LED
850 °C

- I...I
- Accent spot with 30° flood beam pattern (PowerLEDs with lens optic)
- PG cable gland
- Dali connected via connector fitted with PG cable gland
- Includes control gear, compatible with Dali dimmable only
- Connection: 3-pole terminal strip
- PowerLED RRGGBB (2 x red/ 3 x green/2 x blue): ±15° tilt
- Power consumption: 14 W
- Mains voltage: 220–240V / 50/60 Hz
- Surface temperature of glass panel 38 °C maximum
- Please always install with flexible cables e.g. H07RN-F
- External through-wiring possible with IP67 universal box; please order separately
- DMX control upon request
- Square versions available on request

Circular trim (overlapping),
PowerLED RGB 230V Dali dimmable only

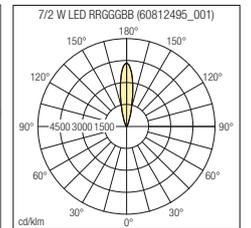
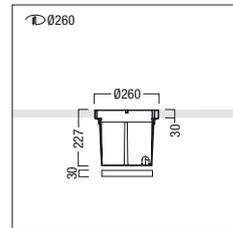
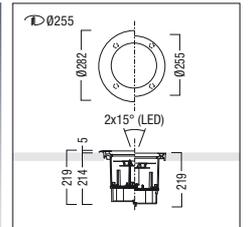
7/2 W LED RRGGBB flood, DALI dimmable	214/255	60 812 495
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Circular trim (flush),
PowerLED RGB 230V Dali dimmable only

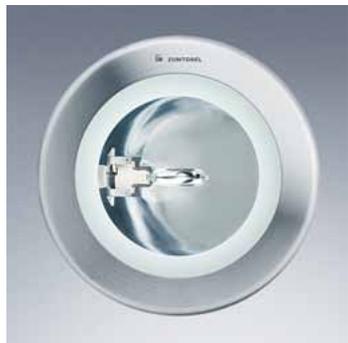
7/2 W LED RRGGBB flood, DALI dimmable	219/255	60 812 496
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Accessory

13.5 cable gland in special steel (V2A)	60 800 294
Concrete casting surround set D260, H = 227 mm	60 800 186
D/Q260 mounting kit for downlight and wall-mounted position	60 800 305
D260 glass seal	60 800 278
Mounting kit D260/Q260 for wooden and cavity floors	60 800 192



PASO II D260 circular



IP67
TC-TEL
850 °C

- I...I
- Frost protective cover with diffuser in models for TC-TEL compact fluorescent lamp
- PG cable gland, through-wiring possible
- Includes control gear
- Connection: 3-pole terminal strip
- HIT-CE: ±15° tilt
- Mains voltage: 230–240V / 50/60 Hz
- Maximum surface temperature of glass panel: 97 °C for HIT 70 W; 76 °C for TC-DEL/ HIT 35 W
- Please always install with flexible cables e.g. H07RN-F
- Max. of 2 accessory parts installed using filter holder
- 1/70 W HIT-CE: cannot be used with filter or honeycomb louver
- Square versions available on request

Circular trim (overlapping)

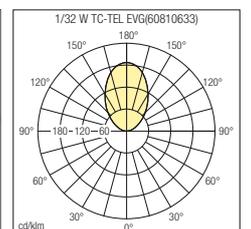
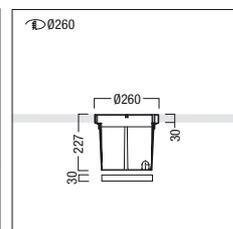
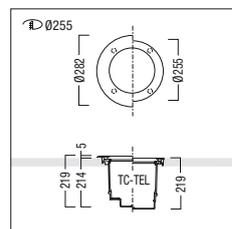
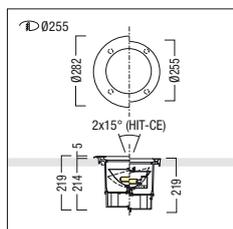
1/26 W, 1/32 W TC-TEL GX24 q-3 EVG frosted protective cover	214/255	60 810 633
1/35 W HIT-CE G12 VVG flood, partially frosted protective cover	214/255	60 812 445
1/35 W HIT-CE G12 VVG superspot, partially frosted protective cover	214/255	60 812 443
1/70 W HIT-CE G12 VVG flood, partially frosted protective cover	214/255	60 812 449
1/70 W HIT-CE G12 VVG superspot, partially frosted protective cover	214/255	60 812 447

Circular trim (flush)

1/26 W, 1/32 W TC-TEL GX24 q-3 EVG frosted protective cover	219/255	60 810 634
1/35 W HIT-CE G12 VVG flood, partially frosted protective cover	219/255	60 812 446
1/35 W HIT-CE G12 VVG superspot, partially frosted protective cover	219/255	60 812 444
1/70 W HIT-CE G12 VVG flood, partially frosted protective cover	219/255	60 812 450
1/70 W HIT-CE G12 VVG superspot, partially frosted protective cover	219/255	60 812 448

Accessory

13.5 cable gland in special steel (V2A)	60 800 294
Concrete casting surround set D260, H = 227 mm	60 800 186
D/Q260 mounting kit for downlight and wall-mounted position	60 800 305
D260 glass seal	60 800 278
Filter holder D260, for a max. of 2 filters	60 800 197
HIT-CE anti-glare plate	60 800 612
Mounting kit D260/Q260 for wooden and cavity floors	60 800 192
Blocking filter IR filter D260	60 800 233
Colour filter blue	60 800 222
Colour filter green	60 800 223
Colour filter red	60 800 221
Colour filter yellow	60 800 224



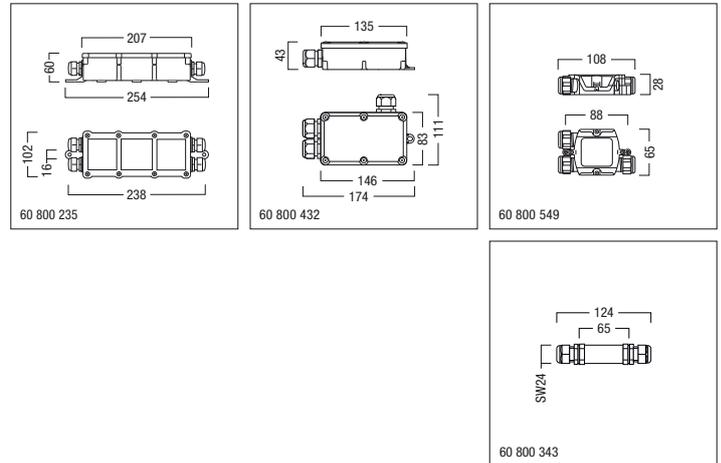
Universal box/cable connector



- IP67 multipurpose box (60 800 235): Designed for connecting up to 4 suitable cables; can be used to accommodate control gear or to through-wire mains or bus lines.
- IP67 MINI multipurpose box (60 800 432): enables connection of up to 3 appropriate supply lines (H07RN-F, etc.); for through-wiring of mains cables outside luminaire unit
- IP67 cable connector (60 800 175): 4-pole, max. 1,5 mm²; cable ends are fed through gland (providing seal) into cable connecting terminal; cables can be disconnected, e.g. when replacing LED circuit boards modules
- IP67 cable connector (60 800 343): 3-pole, 4 mm²; cable ends are fed through gland into screw terminals; cables can be disconnected if needed
- Cable entry via 4 SW32 (M25) cable glands for cable Ø 6.4–16 mm; includes 2 cable-gland plugs; 6-pole connecting terminal, max. conductor cross-section 4 x 2.5 mm²
- Three SW25 PG cable glands for cables Ø 4.3–11.9 mm; 4-pole connecting terminal, max. conductor cross-section 2.5 mm²
- Cable connector for 3 cables, IP67 (60 800 549): 3-pole, 1.5 mm², IP67; allows up to 3 cables to be connected plus connecting terminal; can also be used for through-wiring

L/W/H Order no.

3-way IP67 cable connector, 3 x 1.5 mm ²	108/65/28	60 800 549
IP67 cable connector, 3 x 4.0 mm ²		60 800 343
IP67 cable connector, 4 x 1.5 mm ²	24/24/82	60 800 175
IP67 multi-purpose box for transformer or through-wiring IP67	254/102/60	60 800 235
MINI IP67 multi-purpose box for transformer or through-wiring	174/111/43	60 800 432



HEDERA EB Elliptical Beam



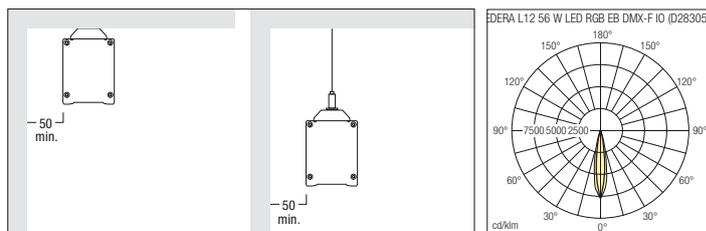
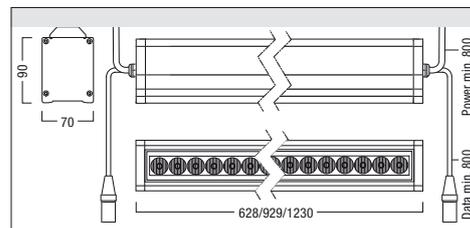
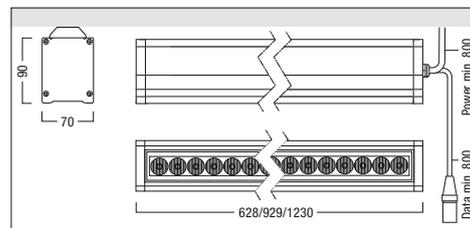
- LED surface-mount light line for static or dynamic surface illumination, for indoor and outdoor use
- IP 65 housing made of anodised aluminium with 4mm safety-glass cover
- Direct or through-wiring for power supply and DMX signal
- High-power LEDs with efficient secondary optic, available with 6°, 20°, 35° light beam and elliptical 10° x 20° light beam for optimum colour mixing
- Light colours: RBA or RGBA for colour variation
- Built-in overtemperature protection
- Controller options: DMX control of entire line or individual segments (300 mm)
- Ambient temperature: -20 °C to 40 °C

Linear lighting module, complete controller

	kg	Order no.
L06 28 W LED RGB EB DMX-F IN	3.8	42 178 384
L09 42 W LED RGB EB DMX-F IN	5.7	42 178 385
L12 56 W LED RGB EB DMX-F IN	6.7	42 178 033

Linear lighting module, complete controller with through-wiring

	kg	Order no.
L06 28 W LED RGB EB DMX-F IO	3.8	42 178 415
L09 42 W LED RGB EB DMX-F IO	5.7	42 178 416
L12 56 W LED RGB EB DMX-F IO	6.7	42 178 036



HEDERA NB Narrow Beam



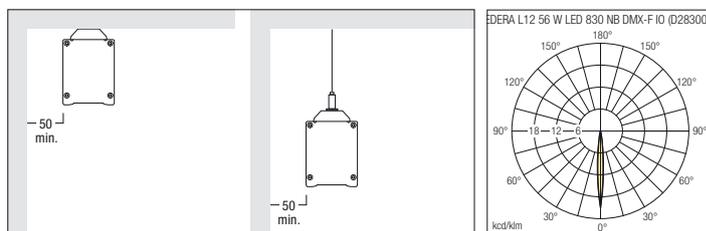
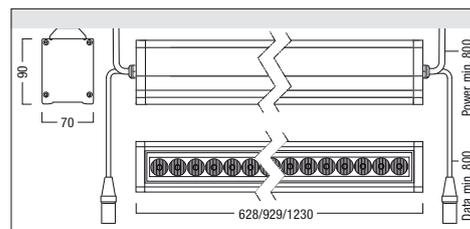
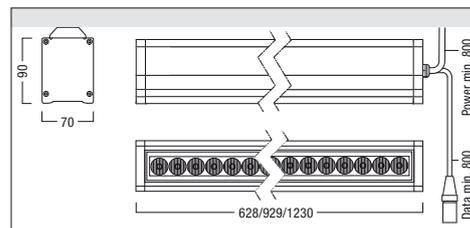
- LED surface-mount light line for static or dynamic surface illumination, for indoor and outdoor use
- IP 65 housing made of anodised aluminium with 4mm safety-glass cover
- Direct or through-wiring for power supply and DMX signal
- High-power LEDs with efficient secondary optic, available with 6°, 20°, 35° light beam and elliptical 10° x 20° light beam for optimum colour mixing
- Light colours: RBA or RGBA for colour variation
- Built-in overtemperature protection
- Controller options: DMX control of entire line or individual segments (300 mm)
- Ambient temperature: -20 °C to 40 °C

Linear lighting module, complete controller with through-wiring

	kg	Order no.
L12 56 W LED 830 NB DMX-F IO	6.7	42 178 042
L12 56 W LED 840 NB DMX-F IO	6.7	42 178 038
L12 56 W LED 856 NB DMX-F IO	6.7	42 178 044

Linear lighting module, complete controller

	kg	Order no.
L12 56 W LED 830 NB DMX-F IN	6.7	42 178 043
L12 56 W LED 840 NB DMX-F IN	6.7	42 178 035
L12 56 W LED 856 NB DMX-F IN	6.7	42 178 045



HEDERA accessories

Order no.



- Adapter cable for connecting a HEDERA luminaire to the USB tool used for setting luminaire addresses and reading or setting luminaire values – or for connecting the HEDERA luminaire to the SPLITTER DMX VC
- Adjustable fixing kit
- Fixing bracket for surface-mounting on floor
- Plug and socket for data and power connection
- Addressing tool and adapter for luminaire
- Power socket for IP65 connection or socket connector set
- DMX data connection via 5-pin XLR female connector or XLR female connector set

ASTO DMX VC USB	22 162 367
ASTO/SPLITTER ADAPTER RJ45S XLRB	22 162 366
BEF SET	22 166 268
SPLITTER DMX VC	22 166 267
TECTON AD stainless steel	22 128 005
WIB 3POL	22 166 269
WIB WIS 3POL SET	22 166 271
XLRB 5POL	22 166 270
XLRB XLRS 5POL SET	22 166 272



I...I Shared properties
HILIO monocolor

- LED surface-mount light line for direct, decorative or linear lighting, for indoor and outdoor use
- Direct or through-wiring for power supply and DMX signal
- Luminaire can be switched or can be dimmed under PWM control
- LEDs with light colour 3000 K, 4000 K, 5000 K, red, green or blue
- Built-in overtemperature protection
- Ambient temperature: -20 °C to 37 °C
- LED service life: 60,000 h for a reduction in luminous flux to 70 % of original level
- Degree of protection: IP 65 for indoor and outdoor use
- Radial or axial combination cable for 24 V power supply and DMX signal, length 200 mm with IP65 plug-in connection
- Module lengths 2100 mm or 1200 mm (lengths optionally available in multiples of 300 mm)
- Luminaire includes protection against polarity reversal
- Halogen-free wiring used in luminaire; rubber cable contains halogen however

HILIO CL LED light line clear Monocolor

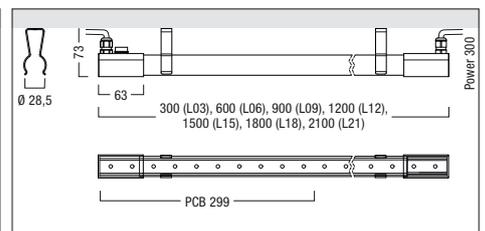
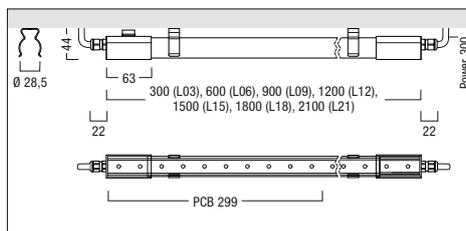


- I...I
- Transparent slimline PMMA plastic section, Ø 28 mm, with PMMA end caps for indoor and outdoor use in high degree of protection

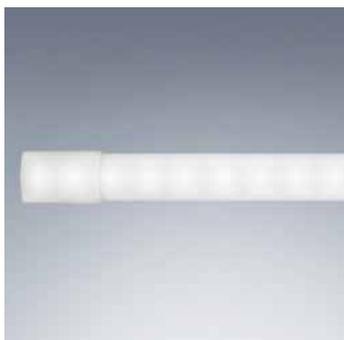
Light line LED Ø 28 mm PWM controller

	kg	Order no.
L03 2 W LED 830 PWM R IN	0.3	42 922 616
L06 4 W LED 830 PWM R IN	0.4	42 922 617
L09 6 W LED 830 PWM R IN	0.5	42 922 618
L12 8 W LED 830 PWM R IN	0.7	42 922 619
L15 10 W LED 830 PWM R IN	0.8	42 922 620
L18 12 W LED 830 PWM R IN	0.9	42 922 621
L21 14 W LED 830 PWM A IN	1.0	42 922 623
L21 14 W LED 830 PWM A IO	1.0	42 922 624
L21 14 W LED 830 PWM R IN	1.0	42 922 622
L21 14 W LED 830 PWM R IO	1.0	42 922 625
L21 14 W LED 840 PWM A IN	1.0	42 922 659
L21 14 W LED 840 PWM A IO	1.0	42 922 628
L21 14 W LED 840 PWM R IN	1.0	42 922 626
L21 14 W LED 840 PWM R IO	1.0	42 922 627
L21 14 W LED 850 PWM A IN	1.0	42 922 630
L21 14 W LED 850 PWM A IO	1.0	42 922 631
L21 14 W LED 850 PWM R IN	1.0	42 922 629
L21 14 W LED 850 PWM R IO	1.0	42 922 632

Mounting bracket included with product.



HILIO CL LED light line opal Monocolor

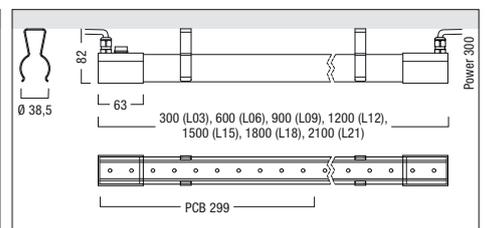
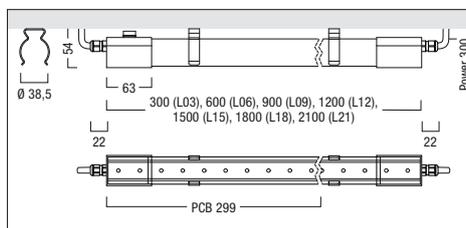


- I...I
- Opal slimline PMMA plastic section, Ø 38 mm, with PMMA end caps for indoor and outdoor use in high degree of protection

Light line LED Ø 38 mm PWM controller

	kg	Order no.
L03 2 W LED 830 PWM R IN	0.3	42 922 636
L06 4 W LED 830 PWM R IN	0.5	42 922 637
L09 6 W LED 830 PWM R IN	0.6	42 922 638
L12 8 W LED 830 PWM R IN	0.8	42 922 639
L15 10 W LED 830 PWM R IN	1.1	42 922 640
L18 12 W LED 830 PWM R IN	1.2	42 922 641
L21 14 W LED 830 PWM A IN	1.4	42 922 644
L21 14 W LED 830 PWM A IO	1.4	42 922 643
L21 14 W LED 830 PWM R IN	1.4	42 922 645
L21 14 W LED 830 PWM R IO	1.4	42 922 642
L21 14 W LED 840 PWM A IN	1.4	42 922 647
L21 14 W LED 840 PWM A IO	1.4	42 922 648
L21 14 W LED 840 PWM R IN	1.4	42 922 646
L21 14 W LED 840 PWM R IO	1.4	42 922 649
L21 14 W LED 850 PWM A IN	1.4	42 922 651
L21 14 W LED 850 PWM A IO	1.4	42 922 652
L21 14 W LED 850 PWM R IN	1.4	42 922 650
L21 14 W LED 850 PWM R IO	1.4	42 922 653

Mounting bracket included with product.



HILIO accessories Monocolor

Order no.



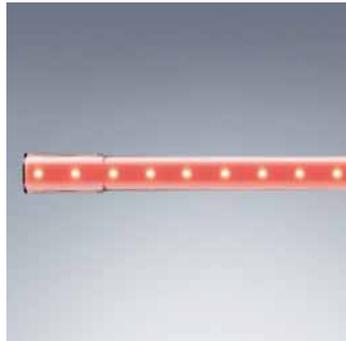
- 24 V power supply in switched or dimmable version
- 4 m supply cable with female connector
- 4 m extension cable with female/male connector
- Socket and plug/socket set

ANSCHL SET PWM IP65 150 W 	22 166 922
CABLE 4 m + WIB 3 POL	22 166 923
CABLE 4 m + WIB 3 POL + WIS 3 POL	22 166 924
CONV 150 W 230/24 V	22 166 927
WIB 3 POL	22 166 925
WIB WIS 3 POL SET	22 166 926

I...I Shared properties
HILIO RGB

- LED surface-mount light line for direct, decorative or linear lighting, for indoor and outdoor use
- Available as through-wired luminaire for series connection (IO) or as single luminaire (IN) for a line termination including built-in termination resistor
- RGB LEDs with 30 mm pixel pitch, with radial connection the pixel pitch is maintained even when luminaires are cascaded
- Built-in overtemperature protection
- Controller options: DMX control of entire line or individual segments (300 mm), video control of entire line or specific pixels (VCU)
- Ambient temperature: -20 °C to 37 °C
- LED service life: 40,000 h for a reduction in luminous flux to 70 % of original level
- Degree of protection: IP65 for indoor and outdoor use
- Radial or axial combination cable for 24 V power supply and DMX signal, length 200 mm with IP 65 plug-in connection
- Module lengths 2100 mm or 1200 mm (lengths optionally available in multiples of 300 mm)
- Luminaire pre-wired using halogen-free leads

HILIO CL LED light line clear RGB

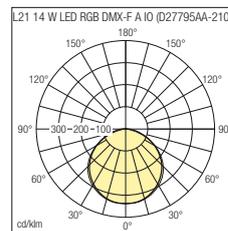
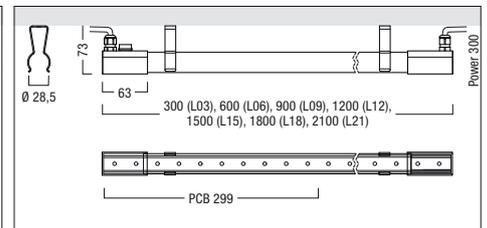
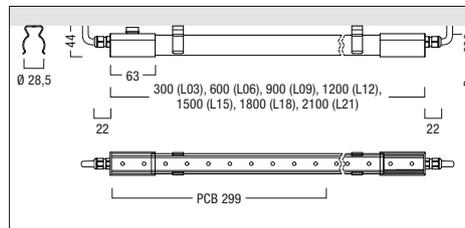


- I...I
- Transparent slimline PMMA plastic section, Ø 28 mm, with PMMA end caps for indoor and outdoor use in high degree of protection



	kg	Order no.
Light line LED, Ø 28 mm, DMX full-line controller		
L03 2 W LED RGB DMX-F R IN	0.3	42 178 366
L06 4 W LED RGB DMX-F R IN	0.4	42 178 367
L09 6 W LED RGB DMX-F R IN	0.5	42 178 368
L12 8 W LED RGB DMX-F R IN	0.7	42 178 369
L12 8 W LED RGB DMX-F R IO	0.7	42 178 057
L15 10 W LED RGB DMX-F R IN	0.8	42 178 370
L18 12 W LED RGB DMX-F R IN	0.9	42 178 371
L21 14 W LED RGB DMX-F A IN	1.0	42 178 060
L21 14 W LED RGB DMX-F A IO	1.0	42 178 050
L21 14 W LED RGB DMX-F R IN	1.0	42 178 059
L21 14 W LED RGB DMX-F R IO	1.0	42 178 049
Light line LED, Ø 28 mm, DMX segment controller		
L21 14 W LED RGB DMX-S R IN	1.0	42 178 061
L21 14 W LED RGB DMX-S R IO	1.0	42 178 051
Light line LED, Ø 28 mm, video pixel controller		
L21 14 W LED RGB VC-P R IN	1.0	42 178 062
L21 14 W LED RGB VC-P R IO	1.0	42 178 052
LED light-line Ø 28 mm, video complete controller		
L21 14 W LED RGB VC-F R IN	1.3	42 178 835
L21 14 W LED RGB VC-F R IO	1.3	42 178 836

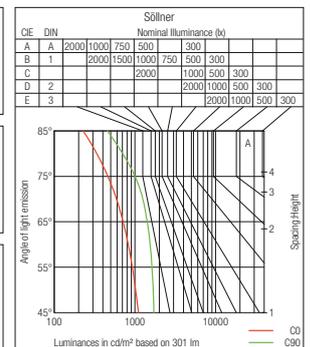
Mounting bracket included with order.



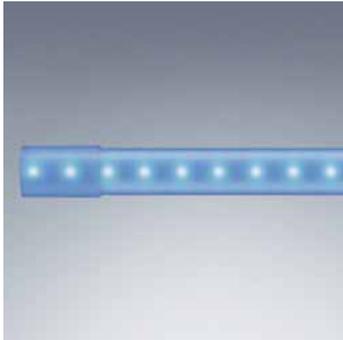
Light output ratio	
LOR	100 %
DLOR	1 %
DLOR	99 %
FRR	0.01 (1.99)
BLF	1.00

Classification	
LITG	A41
LG7	65° < 1500cd/m²
BZ	B24
UTE	0.99 D ± 0.01 T
Flux Codes	463 781 946 992 1000

Room Reflectance		Room Index	
Ceiling	Floor	0.75	5.00
70	20	60	103
50	20	68	103
SHR Nom = 1.50		SHR Max = 1.62	
According to CIBSE Technical Memorandum No. 5 1990		SHR Max TR = 1.83	



HILIO DF LED light line, diffuse RGB



- [...]
 - Slimline PMMA plastic-section diffuser, Ø 38 mm, with PMMA end caps for indoor and outdoor use in high degree of protection

Light line LED, Ø 38 mm, DMX full-line controller

Model	kg	Order no.
L03 2 W LED RGB DMX-F R IN	0.3	42 178 372
L06 4 W LED RGB DMX-F R IN	0.5	42 178 373
L09 6 W LED RGB DMX-F R IN	0.6	42 178 374
L12 8 W LED RGB DMX-F R IN	0.8	42 178 375
L15 10 W LED RGB DMX-F R IN	1.0	42 178 376
L18 12 W LED RGB DMX-F R IN	1.1	42 178 377
L21 14 W LED RGB DMX-F A IN	1.3	42 178 064
L21 14 W LED RGB DMX-F A IO	1.3	42 178 054
L21 14 W LED RGB DMX-F R IN	1.3	42 178 063
L21 14 W LED RGB DMX-F R IO	1.3	42 178 053

Light line LED, Ø 38 mm, DMX segment controller

L21 14 W LED RGB DMX-S R IN	1.3	42 178 065
L21 14 W LED RGB DMX-S R IO	1.3	42 178 055

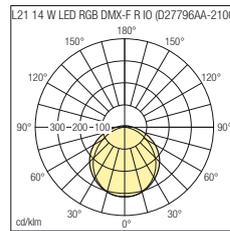
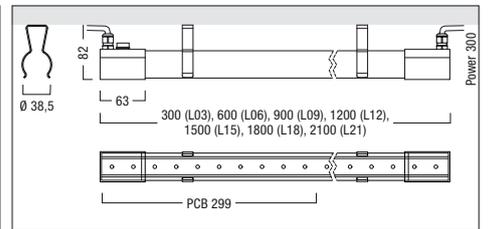
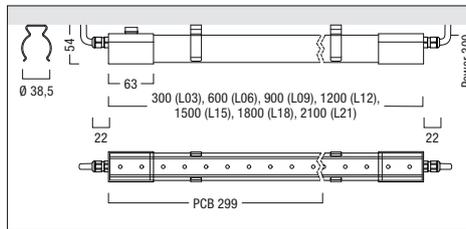
Light line LED, Ø 38 mm, video full-line controller

L21 14 W LED RGB VC-F R IN	1.3	42 178 839
L21 14 W LED RGB VC-F R IO	1.3	42 178 840

Light line LED, Ø 38 mm, video pixel controller

L21 14 W LED RGB VC-P R IN	1.3	42 178 837
L21 14 W LED RGB VC-P R IO	1.3	42 178 838

Mounting bracket included with order.

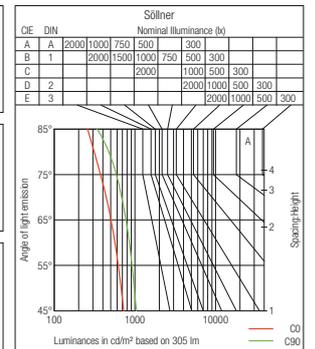


Light output ratio

LOR	100 %
ULOR	6 %
DLOR	94 %
FFR	0.06 (6:94)
BLF	1.00

Classification

LITG	A41
LG7	55° < 1000cd/m² 65° < 1000cd/m²
BZ	BZ4/1/BZ5
UTE	0.94 E + 0.06 T
Flux Codes	422 706 868 938 1000

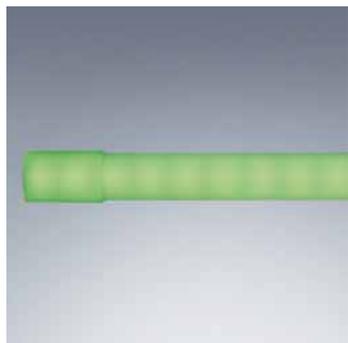


Utilization Factors

Room Reflectance			Room Index								
Ceiling	Walls	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
70	50	20	57	65	72	77	84	89	93	97	100

SHR Nom = 1.50 SHR Max = 1.60 SHR Max TR = 1.86
According to CIBSE Technical Memorandum No. 5 1980

HILIO O LED light line, opal RGB



- I...I
- Opal slimline PMMA plastic section, Ø 38 mm, with PMMA end caps for indoor and outdoor use in high degree of protection

Light line LED, Ø 38 mm, DMX full-line controller

Model	kg	Order no.
L03 2 W LED RGB DMX-F R IN	0.3	42 178 378
L06 4 W LED RGB DMX-F R IN	0.5	42 178 379
L09 6 W LED RGB DMX-F R IN	0.6	42 178 380
L12 8 W LED RGB DMX-F R IN	0.8	42 178 381
L15 10 W LED RGB DMX-F R IN	1.0	42 178 382
L18 12 W LED RGB DMX-F R IN	1.1	42 178 383
L21 14 W LED RGB DMX-F A IN	1.3	42 178 841
L21 14 W LED RGB DMX-F A IO	1.3	42 178 842
L21 14 W LED RGB DMX-F R IN	1.3	42 178 606
L21 14 W LED RGB DMX-F R IO	1.3	42 178 843

Light line LED, Ø 28 mm, DMX segment controller

L21 14 W LED RGB DMX-S R IN	1.3	42 178 844
L21 14 W LED RGB DMX-S R IO	1.3	42 178 845

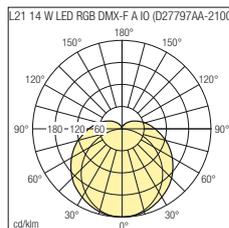
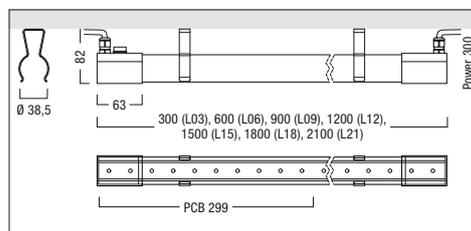
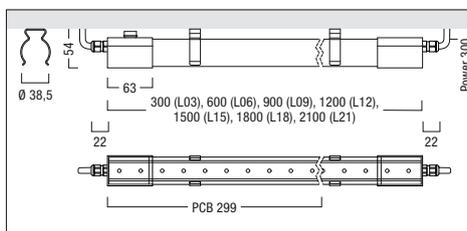
Light line LED, Ø 38 mm, video full-line controller

L21 14 W LED RGB VC-F R IN	1.3	42 178 067
L21 14 W LED RGB VC-F R IO	1.3	42 178 058

Light line LED, Ø 38 mm, video pixel controller

L21 14 W LED RGB VC-P R IN	1.3	42 178 066
L21 14 W LED RGB VC-P R IO	1.3	42 178 056

Mounting bracket included with order.



Light output ratio

LOR	100 %
ULOR	15 %
DLOR	85 %
FFR	0.18 (15:85)
BLF	1.00

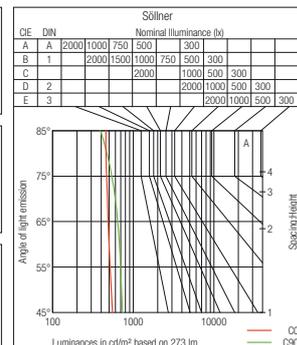
Classification

LITG	B31
L67	55° < 1000cd/m² 65° < 1000cd/m²
BZ	B25/3/B26
UTE	0.85 G + 0.15 T
Flux Codes	328 572 741 847 1000

Utilization Factors

Room Reflectance			Room Index								
Ceiling	Walls	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
70	50	20	51	59	66	71	78	83	86	91	94

SHR Nom = 1.50 SHR Max = 1.67
According to CIBSE Technical Memorandum No. 5 1990 SHR Max TR = 2.01



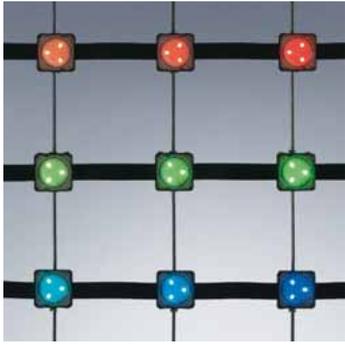
HILIO accessories RGB



- 24 V power supply
- 4 m extension cable with female/male connector
- 4 m supply cable with female connector
- Addressing tool and adapter for luminaire
- DMX data splitter

Accessories	kg	Order no.
ANSCHL SET 150 W IP65	1.9	22 166 276
ASTO DMXVC USB	0.3	22 162 367
ASTO SET	1.1	22 166 277
CABLE 4 m + COB 5POL	0.4	22 166 274
CABLE 4 m + COB 5POL + COS 5POL	0.5	22 166 273
SPLITTER DMXVC	1.3	22 166 267

CAPIX



- LED surface-mount pixel luminaire for media lighting, decorative or linear lighting, for indoor and outdoor use
- Pixels spaced by 10 cm or 20 cm (other pixel spacings available on request)
- Individual pixels can be replaced
- Ambient operating temperature: -30 °C to 50 °C
- Light colour: RGB for colour variation (3 RGB LEDs)
- Overtemperature protection integrated in the SCU (per pixel on request)
- Housing made of polycarbonate with transparent PMMA diffuser
- Pixel controller
- Operating life: 30,000 h
- Ambient temperature in OFF state: -30 °C to +70 °C
- Through-wiring with special ribbon cable for voltage and data transmission
- Luminaire pre-wired using halogen-free leads
- Power supplied by a separate segment control unit (SCU)

	kg	Order no.
CAPIX 10 4/50 W LED RGB VC H	25.7	42 178 071
CAPIX 10 4/50 W LED RGB VC L	25.7	42 178 069
CAPIX 20 4/50 W LED RGB VC H	25.7	42 178 072
CAPIX 20 4/50 W LED RGB VC L	25.7	42 178 070

Installation accessories included with order.

SCU Segment Control Unit



- Power pack with up to 4 outputs for 50 pixels per output
- Built-in overtemperature protection
- Overload protection
- Data transferred using Zumtobel video protocol
- Through-wiring for main power supply (230 V AC) and data signal
- Ambient temperature: -30 °C to 60 °C
- Service life: 50,000 h
- Housing made of powder-coated aluminium

	kg	Order no.
Segment Control Unit SCU 4/50 W IP65	15.0	42 178 068

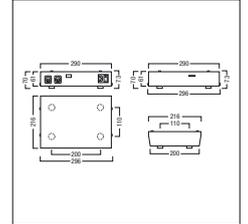
VCU Video Control Unit

- Video control unit for displaying static and dynamic sequences, on Zumtobel LED media luminaires
- Controls up to 2 x 900 RGB pixels
- Removable SD card stores configuration and video data (proprietary format)
- Cascadable, and can be networked via Ethernet TCP/IP

Video Control Unit

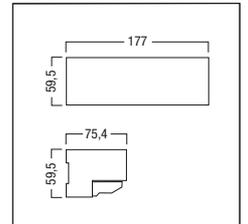
	kg	Order no.
VCU MASTER 1800	2.3	42 177 819
VCU SLAVE 1800	2.2	42 177 820
ASTO DMX VC USB	0.3	22 162 367
SPLITTER DMX VC	1.3	22 166 267

Please order SD card separately.

**Butler XT**

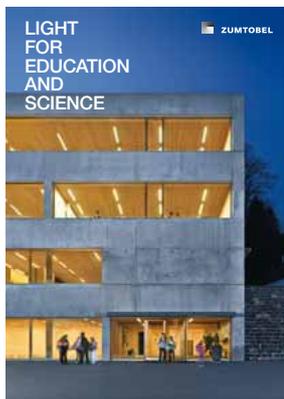
- Controls 2 DMX universes (2 x 512 DMX channels)
- Internal clock and astronomical clock
- For playing scenes, shows and short videos
- For integrating standard momentary-action switches or glass touchpanel control units
- Programmed using "Lighting Application Suite" PC software (by Zumtobel Service)
- Installation on rail in switch cabinet
- Voltage supply: 24V DC
- Connections via RJ45 connector or plug-in terminals
- Adapter cable for connecting XLR 5-pin female connector (DMX standard ANSI E1.11) to Butler XT RJ45
- 24 V/1.5 A power pack

	L/W/H	Order no.
Butler XT	177/60/75	24 175 962
RJ45 XLR 5pol Butler XT adapter cable		24 159 615
SUP24VDC/1.5A 24 V power supply	70/90/59	22 161 814





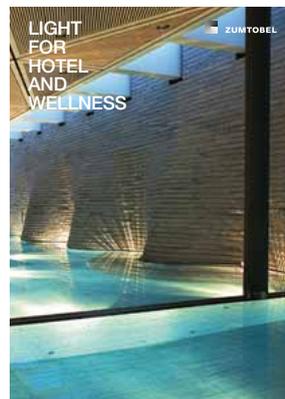
zumtobel.com/office



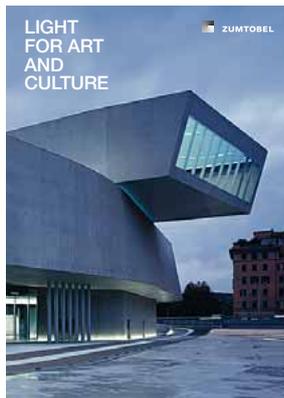
zumtobel.com/education



zumtobel.com/shop



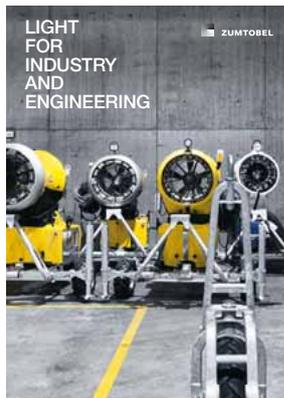
zumtobel.com/hotel



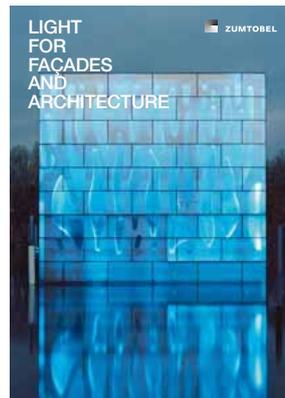
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Zumtobel is the internationally leading supplier of integral lighting solutions for professional interior and exterior lighting applications.

- Offices and Communication
- Education and Science
- Presentation and Retail
- Hotel and Wellness
- Art and Culture
- Health and Care
- Industry and Engineering
- Façades and Architecture

We provide unique customer benefits by integrating technology, design, emotion and energy efficiency. Under the Humanergy Balance concept, we combine the best possible ergonomic lighting quality for an individual's well-being with the responsible use of energy resources. The company's own sales organisations in twenty countries, as well as commercial agencies in fifty other countries, form an international network of experts and design partners providing professional lighting consulting, design assistance and comprehensive services.

Lighting and sustainability

In line with our corporate philosophy "We want to use light to create worlds of experience, make work easier and improve communications and safety while remaining fully aware of our responsibility to the environment", Zumtobel offers energy-efficient high-quality products, while at the same time making sure that our production processes based on the considerate use of resources are environmentally compatible.

zumtobel.com/sustainability



Top quality – with a five-year guarantee.

As a globally leading luminaire manufacturer, Zumtobel provides a five-year guarantee for its complete product range with effect from 1 April 2010.

zumtobel.com/guarantee

Order no. 04 924 301-EN 01/12 © Zumtobel Lighting GmbH

Technical data was correct at time of going to press.

We reserve the right to make technical changes without notice. Please contact your local sales office for further information. For the sake of the environment: Luxo Light is chlorine-free paper from sustainably managed forests and certified sources.



Track and spots		United Kingdom Zumtobel Lighting Ltd. Unit 4 - The Argent Centre, Pump Lane Hayes/Middlesex UB3 3BL T +44/(0)20 8589 1800 F +44/(0)20 8756 4800 uksales@zumtobel.com www.zumtobel.co.uk	Romania Zumtobel Lighting Romania SRL Tipografilor 11-15, S-Park Office, Wing A1-A2 013714 Bucharest T +40 312253801 F +40 312253804 welcome.ro@zumtobel.com www.zumtobel.com	Norway Zumtobel Belysning Hoffsveien 4 Postboks 1025 Hoff 0218 Oslo T +47 22 06 50 50 F +47 22 06 50 52 firmapost@zumtobel.com www.zumtobel.no
Modular lighting systems		USA and Canada Zumtobel Lighting Inc. 17-09 Zink Place Fair Lawn, NJ 07410 T +1/(0)973/340 89 00 F +1/(0)973/340 98 98 zli.us@zumtobel.com www.zumtobel.us	Hungary Zumtobel Lighting Kft Lomb u. 15 1139 Budapest T +36/(1) 35 00 828 F +36/(1) 35 00 829 welcome@zumtobel.hu www.zumtobel.hu	Sweden Zumtobel Belysning Birger Jarls gatan 17 113 56 Stockholm T +46 8 26 26 50 F +46 8 26 26 505 info.se@zumtobel.com www.zumtobel.se
Down-/Uplights		Australia and New Zealand Zumtobel Lighting Pty Ltd 333 Pacific Highway North Sydney, NSW 2060 T +61/(2)8913 5000 F +61/(2)8913 5001 info@zumtobel.com.au www.zumtobel.com.au	Croatia, Bosnia and Herzegovina Zumtobel Licht d.o.o. Radnička cesta 80 – Zagrebtower 10000 Zagreb T +385/(1) 64 04 080 F +385/(1) 64 04 090 welcome@zumtobel.hr welcome.ba@zumtobel.com	Denmark Light Makers AS Indiavej 1 2100 København/Copenhagen T +45 35 43 70 00 F +45 35 43 54 54 lm.sales@lightmakers.dk www.lightmakers.dk
Recessed luminaires		China Zumtobel Lighting China Shanghai office Room 101, No 192 YIHONG Technology Park Tianlin Road, Xuhui District Shanghai City, 200233, P.R. China T +86/(21) 6375 6262 F +86/(21) 6375 6285 sales.cn@zumtobel.com www.zumtobel.cn	Serbia Zumtobel Licht d.o.o. Karadjordjeva 2-4 Beton Hala 11000 Belgrade T +381/(0)11 65 57 657 F +381/(0)11 65 57 658 welcome@zumtobel.rs	Headquarters Zumtobel Lighting GmbH Schweizer Strasse 30 Postfach 72 6851 Dornbirn, AUSTRIA T +43/(0)5572/390-0 F +43/(0)5572/22 826 info@zumtobel.info
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Task, wall and uplights		India Zumtobel Lighting GmbH A 274, 1st Floor, Defence Colony, 110024 New Delhi T +91/98 102 19 531 enquiries.india@zumtobel.com	Poland Zumtobel Licht GmbH Sp.z.o.o. Platinum III ul. Wołoska 9a 02-583 Warszawa T +48/(22) 856 74 31 F +48/(22) 856 74 32 welcome@zumtobel.pl www.zumtobel.pl	www.zumtobel.com
Continuous row and batten luminaires		Singapore Zumtobel Lighting Southeast Asia 5 Kaki Bukit Crescent, #04-02 Koyotech Building 416238 Singapore T +65 6844 5800 F +65 6745 7707 info.sg@zumtobel.com	Slovenia Zumtobel Licht d.o.o. Štukljjeva cesta 46 1000 Ljubljana T +386/(1) 5609 820 F +386/(1) 5609 866 welcome@zumtobel.si www.zumtobel.si	
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