



disano 
illuminazione

LED
2014

HIGH PERFORMANCE

Disano Group

FOSNOVA S.r.l., located in Rozzano (Milan), near the Disano S.p.A. plant, boasts decade long expertise in architectural lighting design. Currently, Fosnova's production specializes mostly in fixtures utilising the most recently developed light sources. The Fosnova product range offers a variety of solutions to indoor lighting problems, including:

- Downlights and spotlights
- Interior floodlights
- Free standing, wall and ceiling mounted fixtures,
- Fluorescent light modular systems,
- Electrified tracks.

France-based **DISANO FRANCE** s.a., established in 1993, equipped with a warehouse and customer support offices, is responsible for distributing the Group's products in the French territory.

Spain-based **ILUMINACION DISANO** s.a., established in 1992, is now located in new headquarters situated in Roda de Barà (Tarragona), and is responsible for distributing the Group's products in the Spanish territory. Additionally, Iluminación Disano has a productive area of approximately 11,850 sqm totally covered, equipped with advanced systems and highly automated. Iluminación Disano's logistics operate on a fully automated area, with an overall capacity of 6360 pallets. Lastly, the site is home to an office area, including sales, technical and customer support offices.

DISANO is also present in **PORTUGAL, IRELAND, POLAND, CZECH REPUBLIC, SLOVAKIA, MIDDLE EAST, RUSSIA, and INDIA** with its own technical support and sales offices.



The Disano Group considers service to the market and continuity in relations with customers as key elements in company policy in which it has continuously invested in Italy and Europe. Improvements in manufacturing technology, excellent innovation, rigorous controls throughout the entire corporate process system, high product quality control standards, as well as the development of advanced computer systems for lighting design calculations. The photometric measurements certified by the CSQ mark are entirely conducted in our research laboratories, in compliance with the European Lighting Design Committee's guidelines.

For DISANO Illuminazione, **Quality System Certification (CSQ-IQNET)** in compliance with UNI EN ISO 9001:2008 standard (design, production and sale of lighting fixtures and accessories) is a further step towards improvement of the company processes aimed at achieving customer satisfaction.

...from 1957...

Disano illuminazione S.p.A., founded in 1957, located in rozzano (milan), Has a total production area of 15,000 sqm. The factory is located in Dorno (PV) and covers a floor surface of 100,196 sqm. This area includes the logistics department and the automatic warehouse (16,396 sqm), with an overall capacity of 22,500 pallets.

“DISANO” is a leading manufacturer of lighting fixtures, covering all the main market areas:

- Commercial service sector (ceiling fixtures, recessed fixtures for false ceilings, integrated modular systems)
- Industrial applications (watertight fixtures and high bays)
- Outdoor applications (lawn fixtures, urban decoration compositions, floodlights for lighting large areas, and street lanterns).



Production

On a surface area of 66.645 sqm, production is highly automated and ensures high quality standard in terms of reliability and long product life.

PLASTIC MATERIALS AND METALS

The unit is equipped with injection moulding machines (up to 2500 tons each), extrusion machines, equipment to make sheet metals and profiles also used for electrified tracks.

MACHINING OF SHEET METALS AND OPTICAL SYSTEMS

Computer controlled, high-precision manufacturing tools include mechanical and hydraulic presses; all systems are specially designed for controlled quality production and competitive pricing.

PAINTING PLANT

Product pre-treatment units are equipped with anti-pollution purifying systems as required by regulations.

- before painting, the parts are chemically treated to ensure that coating adheres better;
- white, UV-stabilised, acrylic anionic electrocoating;

1 epoxy cationic electrocoating, corrosion-resistant, recommended for outdoor fixtures, with UV stabilised fluid paint finish;

2 acrylic paint or polyester resin powder

3 finish with acrylic paint.

4 acrylic paint spray water-based and polymers

MANUFACTURING/PRODUCTION OFFICES

The offices in charge of production and shipping are located close to the factory. Arranged on several levels, they cover a surface area of approximately 2,660 sqm. The covered car park extends on a floor surface of 1,450 sqm.



Laboratories

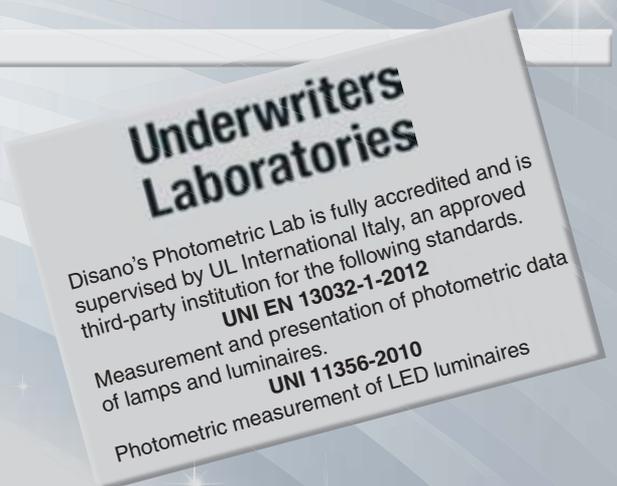
LABORATORIES

Laboratories, identical to the ones available to the Italian Body for Quality Marking (IMQ), perform:

- Heat and mechanical resistance tests
- Glow wire test electromagnetic compatibility test
- chemical tests on paint quality.
- protection IP tests for stated fixtures

PHOTOMETRIC MEASUREMENTS

Were performed in our research laboratories, in compliance with the requirements of the european committee for lighting design, according to the following standards: UNI EN 13032-1-2012.





Distribution service

DISTRIBUTION SERVICE

Italy: a large 144,000 m³ warehouse for a total of 22,500 pallets has the purpose of optimising the delivery and shipping service to the customers' local warehouses, for a faster response to the end market. Spain: a fully automated warehouse with an overall capacity of approximately 6360 pallets.

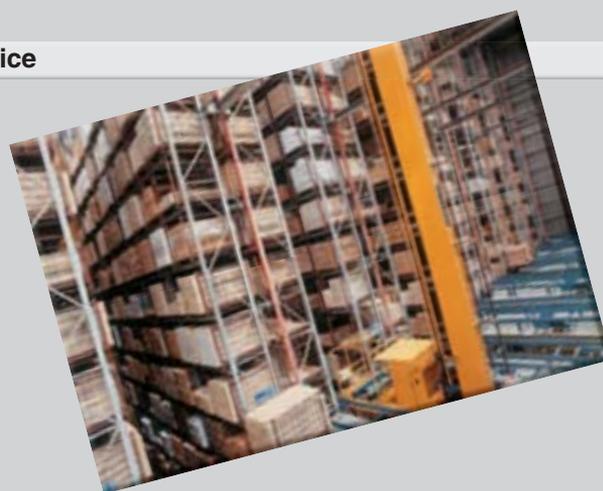
France: Semi-Automatic warehouse for the entire French Market.

SEMI-FINISHED PRODUCT WAREHOUSE

The warehouse covers a surface area of approximately 12,000 sqm. With an overall capacity of 13,650 pallets, and is entirely automated for semi-finished products.

POLE WAREHOUSE

The warehouse where poles are stored develops on a floor surface of approximately 2,100 sqm and is operated in a semi-automatic way.



Customer services

The Disano group offers designers, installers and distributors a series of free services that are able to completely satisfy technical, lighting design and commercial needs.

CATALOGUE

The paper catalogues produced by the Disano Group are a consolidated tradition that is repeated every year, not only in Italian, but also in Spanish, French and English.

CONSULTING CENTRE

From the Lighting Technology Consulting Centre, you can request any type of support for the correct use of light fixtures. In fact, the Disano Group guarantees total flexibility in implementing projects using non standard fixtures. The Group's aim is to keep an open-door policy with its customers, and to be at their service at all times.

OUR PROMOTERS

Promoters are present in every region and are at the complete disposal of wholesalers, installers and designers to immediately solve any technical, commercial or lighting design problem and to promote the Disano product nationwide.

They also supply estimates and develop lighting design projects, ensuring continuous support.

MARKETING

The Marketing Department has been set up to assist wholesalers by implementing marketing and promotional support actions at the point of sale, advertising their trademarks to make them become reference point for end users.

LIGHTING MAGAZINE

Has been made a regular information editorial about light. The latter aims to make the culture of light, targeted communication and continuous information to designers and architects, and describe their projects and thoughts.



A narrative of light on the Web

The Disano Group has created an innovative **WEBSITE**, periodically updated, which provides detailed data and information about the company, its products, representative projects, designs, new products. Want to browse Disano and Fosnova catalogues easily and quickly, view technical specifications at a glance or retrieve design information with just a few clicks? Now you can thanks to our application for **IPAD AND IPHONE** available in four languages (Italian, English, French and Spanish)! A close-up of a Disano product against a dark background and the words 'Turn On': this is the homepage that users see when they log into our virtual world. May the journey begin!





What is LED?

LED is the acronym for **LIGHT EMITTING DIODE**, a component that emits monochromatic light with the flow of electric current. LEDs are providing lighting designers with a whole new range of exciting tools to help them achieve the best results and develop creative lighting solutions with amazing effects that were once technically impossible to achieve.

A high-quality LED with an RA 90 index rated at 3200K - 6500K has also appeared on the market over the last year. The brightness, homogeneity, and colour rendering of LED lights have been improved to the extent that they are now being used for a wide range of lighting applications. **LED** modules consist of a certain number of light emitting diodes mounted on a printed circuit board (rigid and flexible) with active or passive current regulating devices. Optics or light guiding devices can also be added depending on the field of application to obtain different beams and light.

The variety of colours, the compact size and the flexibility of the modules ensure a broad range of creative possibilities in many applications.

LEDs: how do they work?

LEDs are semiconductor devices which convert electricity into visible light.

When powered (direct polarization), the electrons move through the semiconductor, and some of them fall in a lower energy band. Throughout the process, the energy "saved" is emitted as light.

Technological research has allowed to achieve 161 lm/W for each high voltage LED. Although not currently in production, the current level of development shows that LED technology has not yet reached its full potential.

Photobiological safety

Crystal layers treated by chemical vapour deposition (wafer)

A number of layers are then selected based on their luminosity and colour temperature (chip)

The chip is mounted on a support to dissipate heat and add current continuity to the system (package)

Electrical connection

Lens support

Protection against external stress

The rear side of the package emits heat, the front emits light



Technical specifications

We often read about photobiological safety in lighting design. This very important factor is determined by the amount of radiations emitted by all the sources with a wave length ranging between 200 nm and 3000 nm. Excessive radiation exposure can be harmful for human health. The EN62471 standard classifies light sources into risk groups.

RG0: the lighting source is exempt from photobiological risks in compliance with EN62471 Standard.

RG1 (low risk): the lighting source does not pose hazards during normal operating circumstances.

RG2 (moderate risk): the lighting source does not pose hazards because of our aversion response to very bright light sources, or due to the fact that we would experience thermal discomfort.



Environmental advantages

Extremely long working life (50.000 h)

*Reduced maintenance costs
Growing efficiency*

Instant switch-on mode

Dimming option with no colour temperature variations

Filter-free direct coloured light emission

*Complete colour spectrum
Dynamic colour control mode (DMX, DALI)*

Can be switched on also at low temperature rates (-35°C)
Low-voltage DC power supply

Unidirectional light emission (light is shed only upon the desired object or area)

Photobiological safety.



General advantages

Mercury-free

No IR or UV components can be found in the visible light spectrum

Reduced use of renewable and non-renewable energy sources

Environment enhancement

No light pollution

Less power

Less power installed in each lighting point



Design-related advantages

Wide choice of design solutions

Bright, saturated colours

Vibration resistant lights

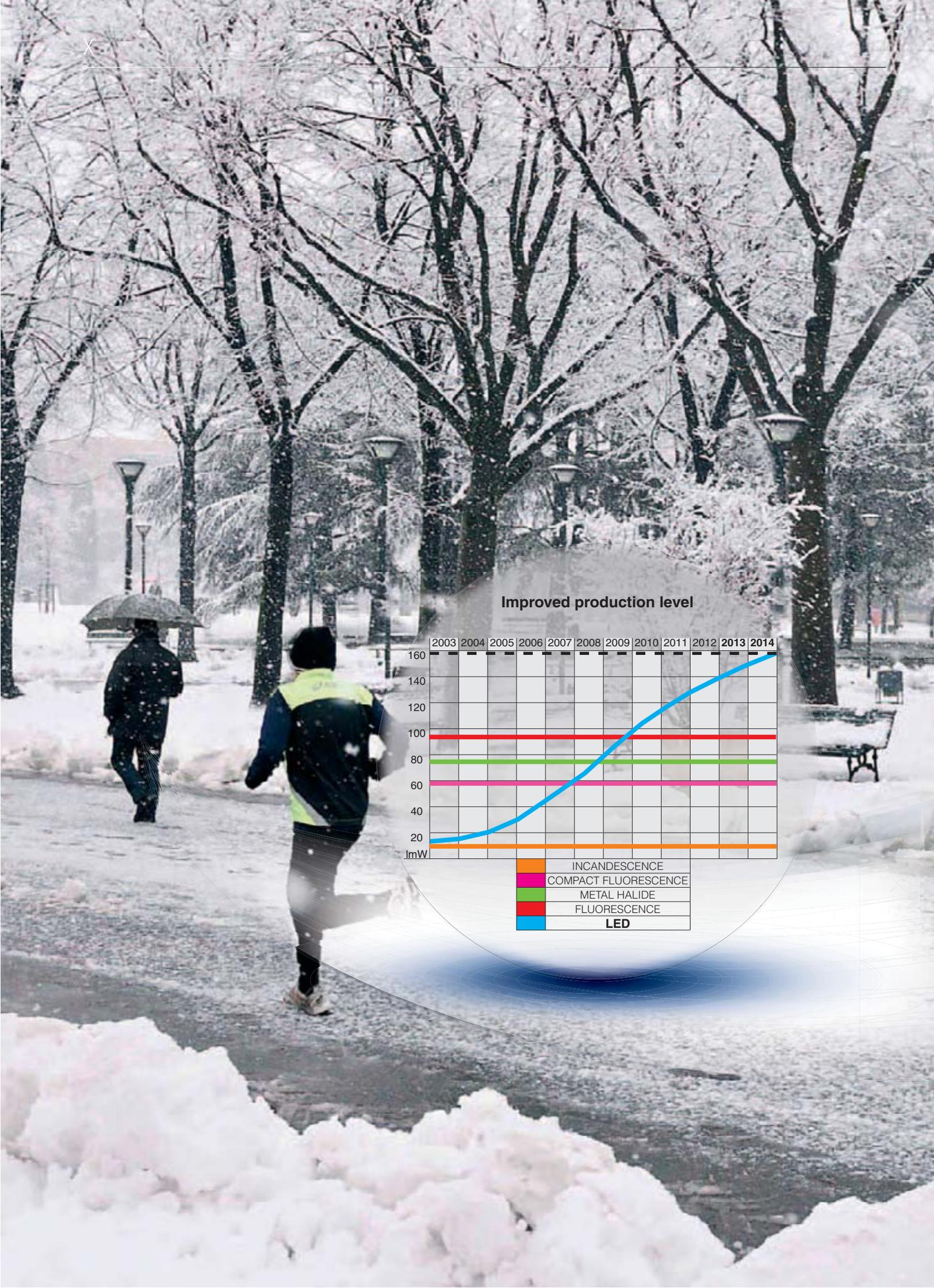


Advantages for users

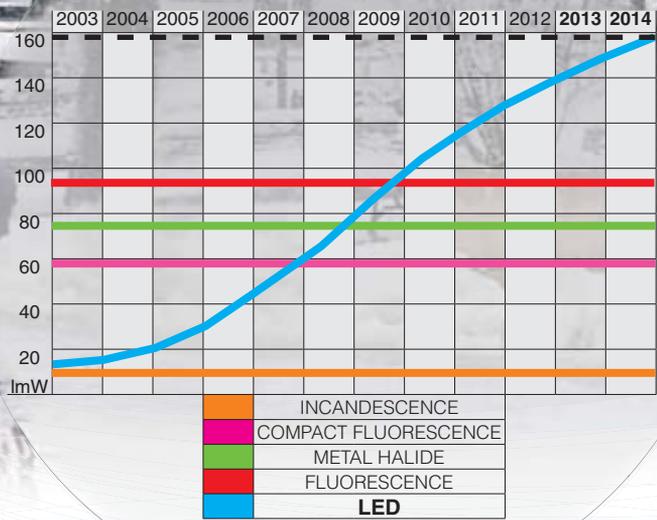
A wide range of different colours together with compact and flexible modules enable many creative and innovative design solutions.

Lower energy consumption, longer working life and reduced maintenance facilitate the creation of interesting applications.

Excellent reliability guarantees safety even in difficult operating conditions



Improved production level



LED and traditional lamps

LEDs have a nominal light output of 150 Lumens and can bring remarkable energy savings compared to conventional sources: Discharge lamps with high colour rendering (Ra>60). They can save up to 30-40% in energy costs. When comparing a LED lighting system with a conventional system we need to take into account the fixture's actual Lm/W ratio rather than the source's initial lumens. The Lm/W ratio of any lighting fixture depends on different factors, such as power loss or power variations due to temperature. In discharge lamps these variations cut by half the initial luminous efficiency (expressed in lumen per watt) of sodium or metal halide sources. The products designed by Disano, instead, minimize losses and operate efficiently even with traditional technology

The wavelength of light (colour) is adjusted using semiconductor materials and different production processes.

Unlike lamps emitting a continuous spectrum, **LED lights emit monochromatic light of one particular colour to guarantee the emission.**

Light sources (colour temperature)	K
Blue sky	12-20.000
Summer daylight (sunshine and sky)	6500
"Daylight" fluorescent tube	6300
White light LEDs	5600
Sunlight (midday, summer, mid-latitude)	5400
"Cool white" fluorescent tube	3400
"Warm white" LED	3250
100W halogen lamp	3000
"Warm white" fluorescent tube	2950
Sodium lamp	2100
Sunlight (dawn, dusk)	2000
Candle light	1850-1900

Light sources (colour rendering)	CRI
Sodium lamp	0-25
White light mercury lamp	45
"Warm white" fluorescent tube	55-73
"Cool white" fluorescent tube	65-86
LED	80
Metal halide lamps	85-93
100W incandescent lamp	100

Life expectancy

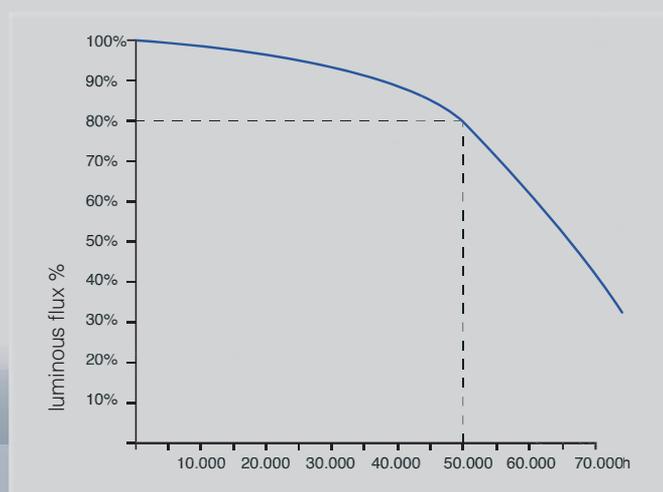
Firstly, it should be noted that LEDs, unlike traditional sources, will not turn off suddenly when their working life ends, but will slowly fade their initial luminous flux until they turn off completely. In fact, LEDs do not break (except for manufacturing damages) but decay gradually and constantly.

The decrease of LED flux, normally after 50,000 hrs, is defined by the working life and is represented by the L80 mark (see charts), which means that the flux is kept up to 80% after 50,000 hrs.

The "B" letter followed by a number ranging between 10 and 50 indicates the quality of the fixture and defines the LED percentage that doesn't keep the declared characteristics when it reaches 50,000 working hours.

EXAMPLE: LED declared L80/B10 = 50,000 hrs

This means that when the LED reaches 50,000 hours of operation, 90% (B10) of the LED will have a luminous flux corresponding to 80% of the initial flux (L80)



The influence of heat

The working life of LEDs largely depends on their inner temperature. Any statement about the working life of a LED light is considered reliable after assessing the influence of temperature. Excessive temperature affects the correct functioning of LED lights and reduces their working life.

The values concerning lamp life are regarded as reliable after determining the effect of heat on LED sources. In fact, overheated LEDs are more likely to be affected by malfunction and have a shorter life cycle. Therefore, for LEDs to operate properly, guarantee long life (e.g. 50,000 hrs) and a natural degradation of the luminous flux (e.g. L70), they must be designed to evenly dissipate the heat they produce. The nominal performance of LEDs is respected only if their working temperature is not exceeded (Tj)

Disano is a competent and responsible company that takes these factors into account and measures real values.

Thermal Resistance (C°/W): it indicates the difficulty of LED lights to expel heat, which causes the light sources to deteriorate. TR should be very low to guarantee energy efficiency and durability (LM70). A range of products characterized by even lower values will be launched shortly to guarantee improved light levels and longer working life (at present, a minimum of 50,000 hours in certain conditions).

Luminous flux and power

Luminous flux and power

The data regarding luminous fluxes reported for each fixture are generally measured based on minimal, nominal or maximum values. Values are set by LED manufacturers. Disano considers these nominal values and reports them in its catalogues

W. All data refer to the nominal Wattages supplied by the manufacturer (Ta=25°C).

Power consumption: $W_{tot. system} = power\ Supply + LED.$

LED lamps emit omnidirectional light, i.e. the light beam is angled 120°. They may also be equipped with supplementary lenses to focus the beam or with performance optics to orient the beam.

Luminous flux: this value indicates the amount of light emitted by the LED (lm).

Luminous efficacy: this parameter is the most useful indicator for determining the right fixture because it represents the ratio between the luminous flux (lm) and the amount of power consumed by the lamp to produce it.



Power supply

Based on the type of LED, they can be powered: - with a 24V power supply- signalling/semi-power/power LED - with a 1050mA power supply – power LED
 - The latter can be powered with a higher current to increase its luminous flux and power. In this case it is fundamental to ensure that LEDs have excellent air circulation and a good heat sink to dissipate heat.
 - the LED power supply has the purpose to maintain and control the exact current circuiting through the circuit; excessive current would damage the LEDs in a few seconds while a weak current would impair performance. -To guarantee constant current, all LEDs of a circuit must be connected in series; if they are connected in parallel (like the one usually used for halogen bulbs) this will deteriorate LEDs very quickly. Power supplies have an isolated output and the maximum input voltage never reaches dangerous levels.

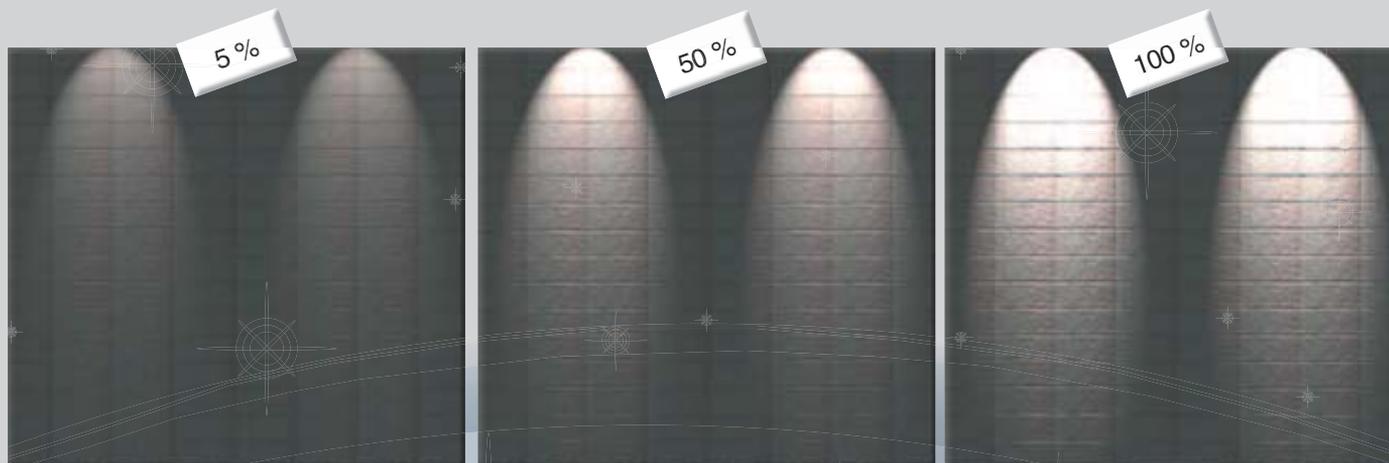
Example:

Electrical Power	n.LED	W	Ølm
350mA	36	34	5148 lm
	48	46	6864 lm
530mA	36	54	7668 lm
	48	72	10224 lm

LED regulation

The opportunity to check each channel to which LED lights of the same colour are connected enables to obtain a range of colours based on different shades of red, green and blue. Colour emission is regulated using specific dimmer switches. In other words, **these accessories switch the LED lights on and off with a constant frequency and at**

variable switch-on intervals (the slowness of the human eye ensures that the on-off mode is integrated and regulated, giving the impression of regulation).
 The LED lights can be dimmed: this means energy savings and reduced CO2 emissions.



DRIVERS for dimming LED lights

Owing to the large number of different methods, it is up to the manufacturer of the driver to specify the type of control signal. Even though commonly accepted control standards do not exist, the most popular are:

IGBT: lamps are turned on and off by a rapid touch; light intensity is regulated by keeping pressure on the pushbuttons.

1-10V: a 1-10 voltage rate is applied to the driver to produce variable light levels, which are proportionate to the light emitted by a LED lamp.

DALI: digital transmission protocol for sending light levels information to the LED drivers.

Temperature controller

Our products are equipped with an automatic temperature control device. In the event of an unexpected temperature rise caused by anomalous weather conditions, the system will reduce the drive current or turn off the system as the LED gets warmer, guaranteeing proper operation.

Moreover they are equipped with an overvoltage protection device as required by EN 61547.

In short:

- fixtures that are powered at up to 530mA have a smart current limiting device;
- fixtures that are powered at 700mA have an On/Off device.

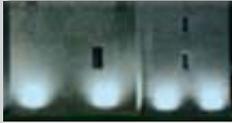
White LED

Several distinctions are made during the production process of the LED lights selected. The chromatic areas called 'bin' are horizontal contours along the BBL line. **Colour uniformity depends on the manufacturer's know-how and quality standards.** A larger selection means higher quality, but also higher costs.

Cold white

5000 ÷ 7000K
CRI 70

Typical colour temperature: 5600K
Outdoor applications (e.g., parks, gardens)



Natural white

3700 ÷ 4300K
CRI 75

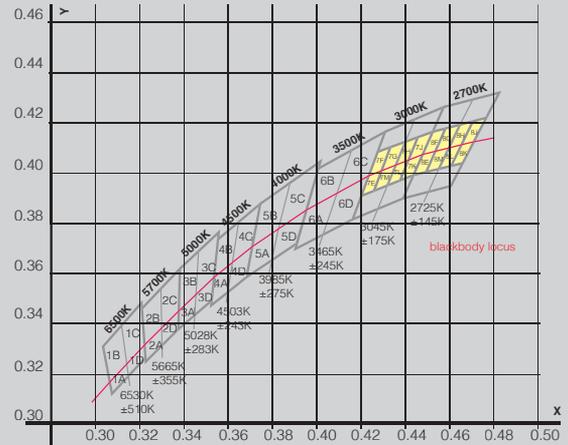
Typical colour temperature: 4100K
Combinations with existing light sources (e.g., shopping centres)



Warm white

2800 ÷ 3400K
CRI 80

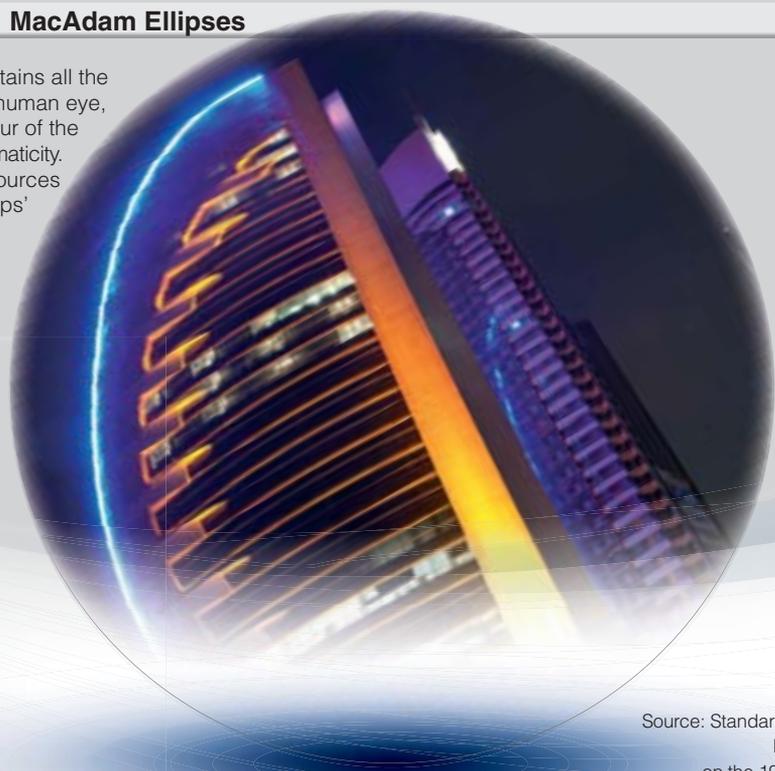
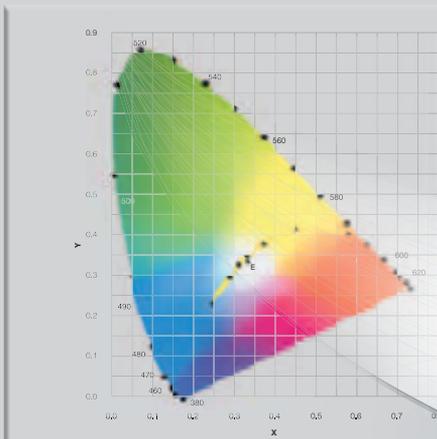
Typical colour temperature: 3200K
For indoor applications, to enhance colours



Graphic representation of BINNING: choice of LEDs to use in relation to their colour temperature. Source: Lumileds, 2011.

MacAdam Ellipses

Refer to the area on a chromaticity diagram that contains all the colours which are indistinguishable, to the average human eye, from the colour at the centre of an ellipse. The contour of the ellipse represents the just-noticeable difference of chromaticity. MacAdam shows the difference between two light sources through ellipses, which are described as having 'steps' that indicate the standard deviation of colour. In applications where light sources are visible, this phenomenon should be taken into account because a 3-step ellipse has a lower colour variation than a 5-step.



Source: Standard Chromaticity Region Plotted on the 1931 CIE Curve.

Coloured LEDs

The CIE chromatic diagram is based on the physiological peculiarity of the human eye to assess colours by breaking them down into three fundamental chromatic components (three-colour process): red, blue and green, positioned at the top of the diagram curve. The CIE chromatic diagram can be obtained by calculating x and y for each pure colour.

The spectrum colours (or pure colours) can be found on the contour curve, while the colours inside the diagram are real colours. It should be noted that the colour white (and other colours in the central area - achromatic colours or shades of grey) are not pure colours, and can not be associated to a specific wavelength.

Source: Standard Chromaticity Region Plotted on the 1931 CIE Curve.

LED RGB

Power supply:

- Local control (ex. Master + Slave system with remote control)
- Remote control (DMX systems)

The range of RGB products is operated by a DMX signal and a special interface, which converts the DMX signals into PWN (code 986565). The DMX signal is generated by a special electronic control, supplied by the customer or by DISANO.

RGB functions

Light can create stimulating luminous designs capable of increasing the prestige of important architectural structures, while also giving an incredible aesthetic value to otherwise unattractive buildings. Today, the possibilities offered by coloured light can be combined with a further feature: dynamism. Colours and light intensity can be changed using dynamic moving floodlights to create a truly spectacular change of scene. The system uses software which can programme colour sequences using an internal control unit, or a DMX control unit. MUTANT LED lights offer a broad range of solutions to achieve special effects in any space and produce amazing light shows.

The functions available are:

- Product on/off function (stand by).
- Independent control of luminosity of the three channels.
- Show function (colour sequences with 4 preset cycles)
- Cycle duration setting at 30sec, 2min or 10 min
- Recall of last colour at startup
- Automatic master/slave recognition through IR receiver connection
- Input and output for synchronization of slaves (max 19).

DMX technology for RGB LEDs

The DMX specifications require an appropriate termination resistance (100-120 ohm).

The termination resistance must be positioned between the **DATA+** and **DATA-** wires of the last floodlight on the DMX line.

The floodlight must have the relative dip-switch set to the OFF position to operate in the **DMX/SLAVE** mode.

All the floodlights which receive a digital signal from a control unit must have their address set correctly in accordance with the following table.

Each floodlight occupies 4 channels. The first 9 dip-switches are used to set the address.

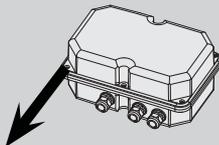
Dip-switch no.11 groups together the 3 colour channels in a single channel.

User Interface

DOP Controller 986563-00



IP65 DMX Box 986557-00



Fullcolor
ELFO - FLOOR - SICURA

built-in
DMX

Software DMX 986562-00



Software programme

The software readily enables full control of the luminous design. This new software combines absolute control with user-friendliness, providing an overview of the colour changes, duration of fading and intervals in a visible and simple way. The programs can be downloaded from the central system to the local units and stored in an IP65 rated box (USB compatible) which can be installed externally to provide independent control of all the functions without requiring a computer. The software disk includes the complete libraries of the DMX Disano light fittings. First of all it is necessary to configure single floodlights in the management software, which will identify the floodlights based on the address they have been assigned. A Windows screen shows a real console similar to the consoles used in the theatre, with buttons to control the various channels corresponding to the various floodlights. The system enables all the characteristics of the light to be controlled (dimming, colour, etc...). The colour can be selected on a palette in a graphics program. Furthermore, the system enables single scenes to be defined, and to programme the timing interval between one scene and the next and various effects such as fading. The sequences defined at the computer are transferred to the control unit with a **USB** cable included, the control unit is the DMX interface that will then transfer the sequences to the single floodlights.

acc. 62 Amplifier/remodulator DMX

20W	986513-00
DMX signal regenerator with 20W power supply, 24V. Equipped with DMX terminal entry cable and 4-pin output connector. To be used after the twentieth acc. 61 or for distances over 200m.	

acc. 63 Box with power supply LED RGB and DMX interface

60W	986511-00
IP 67 watertight box with power supply 48V 60W for Power LED lights – max 9 Microfloor Fullcolor. Supplied with printed circuit board and DMX controller/interface.	

DOP Controller

986563-00

DMX controller for installation in standard recessed box, 503. One dmx channel + 4 channels, 1-10V. Option to save settings internally. Monochrome display screen and on-board operation without the use of a PC.

DMX Controller

white 986562-00

DMX controller with internal memory (stand-alone function). It enables to operate DMX interfaces and integrated DMX controlled lighting fixtures. Option to save settings internally. PC connection through USB port during the programming phase through a dedicated software (included in the kit).

IP65 box for DMX control

white 986557-00

DMX controller with internal memory IP 65 VERSION (stand-alone function). It enables to operate DMX interfaces and integrated DMX controlled lighting fixtures. Option to save settings internally. PC connection through USB port during the programming phase using a dedicated software (included in the kit).



Dynamic light

In order to exploit the energy efficiency of LED technology, the lighting fixtures integrate an electronic system that is based on the use of a microprocessor which controls the luminous flux from naught to 100% with proportional energy savings. This enables to operate the lighting fixture at reduced power for some installations, according to programmable periods using dedicated sensors, such as light sensors or presence detectors.

In particular, according to the UNI-11248:2007 road standard, it is possible to classify roads dynamically into two categories, and reduce the luminous flux at night when traffic is low.

Dynamic light is also recommended for less crowded places like covered car parks and underground stations.

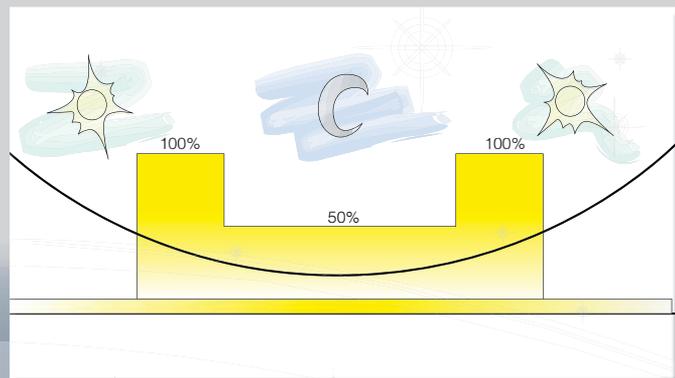
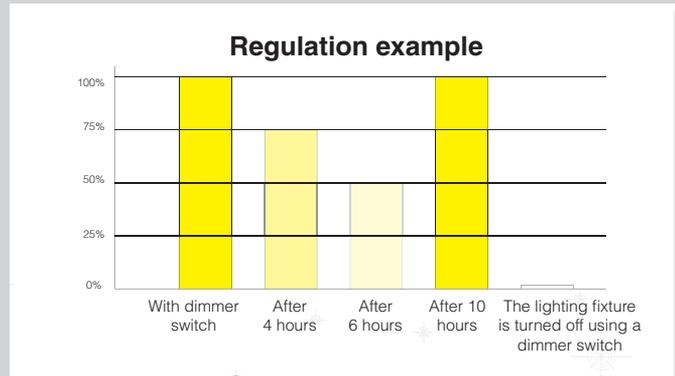
Example: two-level dimming system for LED fixtures.

In order to simplify the application of dynamic light, the device can be programmed during the installation process according to a number of settings, which can be activated from the time they are switched on, or at set times, or when the light sensor reaches a certain threshold.

A simple application ensures that the devices are controlled by an external dimmer switch, which powers the mains; for instance, the lighting fixtures operate at full rate when they are turned on, at 75% after 4 hours, at 50% after 6 hours and at 100% after 10 hours. The lighting fixtures are then turned off when the line is interrupted.

Alternatively, some fixtures can be equipped with a two-level dimming system that can be preset and pre-programmed by the customer based on the calculation of the virtual midnight. The device is embedded directly into the device and does not require the installer to update the system. The dimming system should be normally wired in either bipolar mode (phase+neutral) or tri-polar mode in case of fixtures with an insulation class I (phase+neutral+neutral).

The switching of the relay occurs between 2 change-over contacts enabling the driver to start or stop operation based on the wiring configuration. The dimming of the luminous flux is set at 7 hours (default value) and this occurs without a drive cable or a control phase. The average value between the time the lighting fixture is turned on (sunset) and turned off (dawn) is the reference point for the device, and is called "natural midnight". A microprocessor will calculate the desired switching time starting from this base value. Factory settings are 3 hours before the "natural midnight" (approximately 10 pm) and 4 hours after it (approximately 5 am). The duration can be easily changed by the end user at any moment.



- Montecarlo**
- Clima**
- Volo**
- Disco**
- Lanterna**
- Brera**
- Musa**
- Astro**
- Sforza**
- Monza**
- Stelvio**
- Modoled**
- Pordoi**
- Visconti**

These lighting fixtures can be supplied with an individual control panel or with a power line carrier remote control systems, Wi-Fi or PC control panel. The models can be operated with an automatic or manual clock.

Table for the various options for managing the supply point

Our articles (Upon request):

- with power supply 1-10 V dimmable with subcode **12**.
- with power supply DIG dimmable with subcode **0041**.
- with virtual midnight subcode **30**.
- power line carrier remote control systems subcode **0078**.

1-10V dimming	Virtual midnight	PLC remote control	Wi-Fi remote control (to be agreed upon)
Adjustment range from 10%-100% with 1-10V	Stand alone system with reduction of luminous flux	Point-to-point and system management and diagnosis system	Point-to-point and system management and diagnosis system with Wi-Fi system
Ordered with sub-code -12	Ordered with sub-code -30	Ordered with sub-code -0078	on request

To improve lighting output, save energy

The constantly growing amount of information regarding the possibilities and opportunities offered by the use of LED sources in street lighting led DISANO to provide clarifications in this short text where it explains why Disano fixtures are suitable for these kinds of installations, while complying with street lighting standards (EN13201 and UNI11248) and Regional regulations required to fight lighting pollution and

**SAVE
ENERGY
COSTS.**

Regulations regarding street lighting and light quality

The luminance levels used for street lighting fall within the levels ranging between 0.01cd/m² and 3.00cd/m².



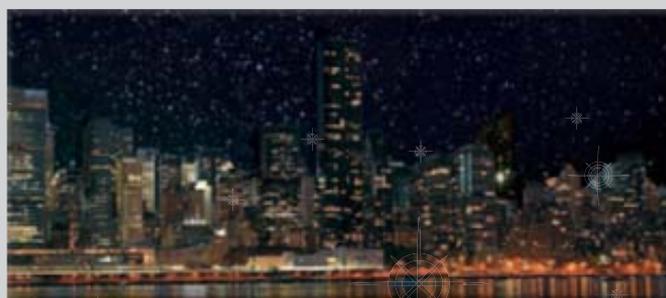
Numerous studies and trials have tested drivers' reaction times both in the presence of fixed obstacles and on streets illuminated with different light sources. On streets with luminance levels ranging between 0.01 – 3.00, tests proved that reaction time is remarkably slower when white light bulbs are used. This means that, in order to have the same reaction time, it is necessary to have higher luminance levels when sodium lamps are used and lower levels if metal iodide or LED lamps are used. Moreover, with low luminance levels and light sources emitting predominantly blue/green lights, there are 7% fewer accidents per km compared to predominantly yellow/red lights. (Source: Anie) The UNI11248 standard introduces new safety parameters. One of these

parameters concerns the quality of light. The UNI standard states that when sources with a colour rendering below 30 are used, the lighting category of the reference road must be increased. In other words, it is necessary to increase the amount of light so that the lighting system is compliant with requirements. Sources with a colour rendering above 60, instead, must reduce the reference road category and therefore the required luminance levels.

This involves that a road's lighting system varies depending on the colour rendering of the lighting sources being installed: if sources have high colour renderings then the average luminance levels imposed by the Standard will be lower, therefore reducing the installed power

Light pollution

LEDs, just like any other light source, require optics or lenses to orient the light beam and prevent it from directing light upwards, and meeting anti light pollution requirements. Disano has designed a series of reflectors and optics that can effectively prevent light pollution. These reflectors orient the light beam in such a way as to obtain photometric distributions, which can be installed not only in road lighting systems, but in many other applications, even improving performance if compared with the optics of traditional lamps. Each single LED is controlled and equipped with a reflector that models the light beam, optimizing performance and obtaining sharp light distribution. Optics guarantee performance rates ranging from 80% to 95%, which are much higher than the values compared to the reflectors of discharge lamps.



Installation examples for LED street lighting

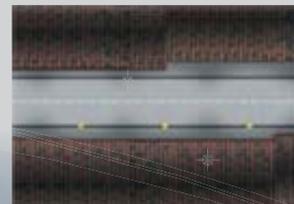
Illumination of roundabouts

Installation of products along the inner perimeter of the roundabout and along the nearby streets.



Local urban roads

With vehicle traffic and maximum speed limit of 50Km/h, excellent luminance uniformity.



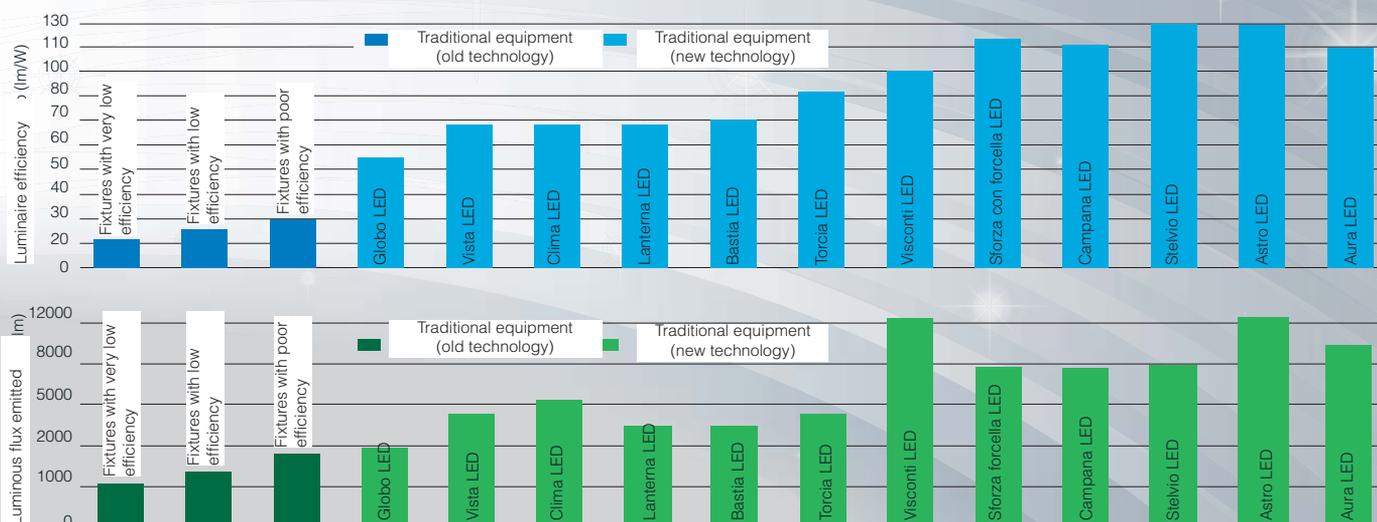
Installation examples

District urban roads

Mounting height (m)	Road width (m)	Distance between poles	Average luminance in lux	Minimum luminance in lux
8	7	6	30lux	50

Mounting height (m)	Road width (m)	Distance between poles	Average luminance (cd/m ²)	Average uniformity	Longitudinal uniformity
6	6	23	0.80	0,5	0,7

LED technology and traditional devices: efficiency and luminous flux compared





Power line carrier remote control systems

A special control system can be inserted inside the lighting fixture or into the lamp pole to monitor the product's operating parameters. This control system is electrically connected to the fixture through a 1-10Vdc or PWM output of the fixture's transformer. This type of remote control system is called “point-to-point”. A “point-to-point” system is a set of electrical equipment used to monitor, programme and control individual LED lighting fixtures. This system is based on the power line carrier (PLC) technology that enables a digital two-way communication between the module installed in the fixture and the control system. The control system is located inside the control panel. The digital data are adjusted to the mains voltage, so no BUS or extra conductors are needed. Thanks to this “point-to-point” system, it is possible, for example, to monitor and save the fixture's electrical parameters and, based on these settings, generate failures or trigger alarms, turn off/on or adjust the fixture's brightness. This is done through either manual or pre-set commands. The communication between the control centre (PC) and the “point-to-

point” system occurs through a control panel using normal communication channels (GSM-GPRS-network LAN etc.). The commands sent from the control centre are conveyed by the control module located inside the panel through the power line carriers which dispatch the commands to the individual fixtures and vice versa. The management module can control up to 990 lights and can reach a distance of 1.5 km. Beyond this distance, an extra module can be inserted into the fixture to serve as a signal repeater. The control module has a series of pre-set light configurations for light dimming. However, each controller inserted into a fixture saves several information regarding the cycle that should be used for that specific fixture. This cycle, which consists of up to 5 steps, is started every day at pre-set hours, and serves the purpose to define the application time and the action to be performed. The “point-to-point” module is independent from the cycle management of its corresponding fixture, and will work even if the communication from the control module is lost.

These controls, settings and data are all managed through a software programme that regularly downloads all the information required to manage the systems and check for any failures.

Technical characteristics of control module

(to be inserted inside the control panel)

Power: 230Vac 50/60Hz (about 21mA at 230V, 44mA Max).
 Container: degree of protection IP20, bar connection DIN 9 modules.
 Clock calendar: maximum error of +/- 4min/year in the 0-70°C range.
 Memory: nearly 20dd for a system with a maximum number of controlled points (990).
 Operating temperature: ambient temperature -20°C +55°C.
 Without power supply: no loss of data, 3 days of clock life.
 Input sections: configured as 2 in 24Vdc.

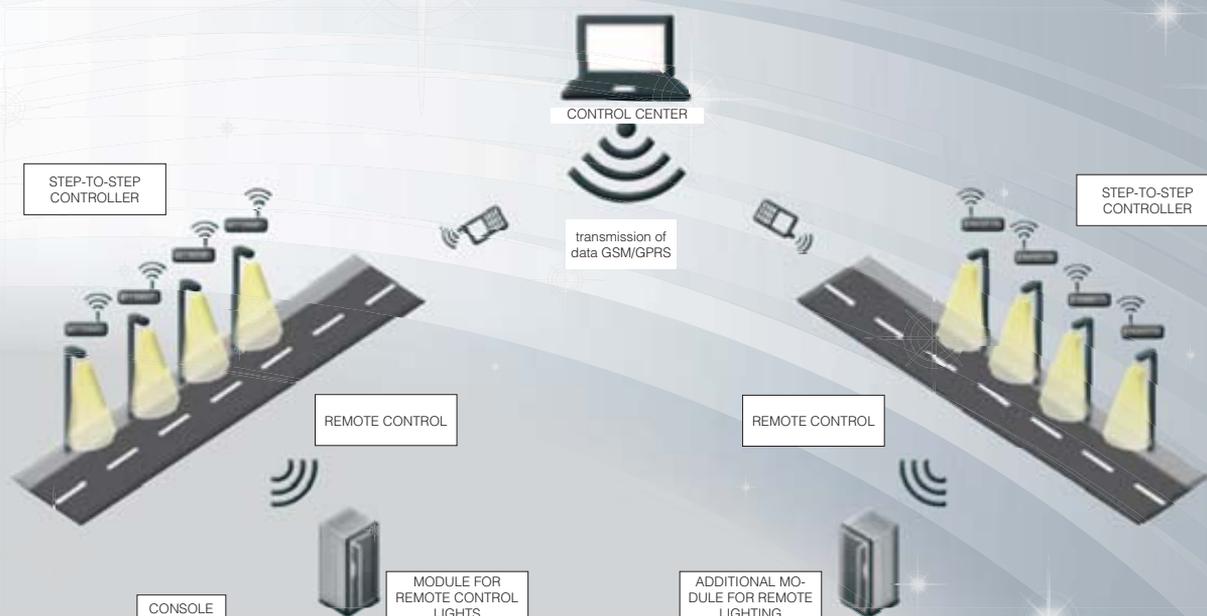
Standard supply:

- clock calendar from PC control centre.
- all the settings made by the modules are saved.
- sampling: up to 3 for each night, of which one is fixed after 7 min. from system start-up.
- RS232 asynchronous serial port for the system's local configuration.
- RS485/RS422 asynchronous port for the connection to the master system and to the other modules.
- 2 LED lights (RX/TX) to indicate communication activity.
- LED light to indicate power.

Technical characteristics of step-to-step controller

(to be inserted inside the fixture)

Power: 150 - 254Vac 50/60Hz self-powered.
 Container: plastic with IP20 or IP66 degree of protection.
 Connections: IP66 version with cables FROR-Npi 2x2.5 mm2 L=20cm
 Version IP20 with clamps; installed in series between power supply and fixture housing.
 Internal consumption: min. 0.7 VA
 Operating temperature: ambient temperature -20°C +65°C.
 Communication: ASK power line carrier
 Baud rate: 1000
 Regulatory framework: EN50065-1 , EN50178
 Class of insulation: Class 2
 Output: 1-10 Vdc; PWM; DALI



Thanks to their extraordinary features combining compact sizes, **high efficiency and long life**, leds are widely used in many professional applications, such as traffic lights, automotive field, back-lightening systems for video-telephony displays, general lightening, road and effect lightening.

In the field of traditional lightning, leds are successfully used for orientation and decorative lighting.

Recently, thanks to a rapid performance improvement it is also possible to realize solutions for functional inside and outside lighting.

Leds also have other important features:

- They don't release heat.
- They produce a white and clean light.
- Unlike energy saving lamps, when they are turned off, they immediately produce light, you don't have to wait not even one minute for their maximum efficiency.

Moreover the LED-technology offers the following advantages:

Environmental-friendly:

in order to produce LEDs, no heavy metals are used and the total control of the light flow guarantees a very efficient system, without any waste.

Ergonomic: as the light flow can be oriented exclusively where it is needed, without light or energy losses.





DISCO
CENTRAL FIXING



new

DISCO



VISCONTI



new

AURA



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Aura	p. 18

LUCERNA



SFORZA



new

ASTRO



MONTECARLO



new

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Astro	p. 41
Montecarlo	p. 42

DISCOVERY



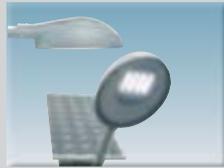
new

VOLO



new

MONZA



VISTA



new

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LANTERNA



new

CLIMA



new

TORCIA



new

IRIDE



new

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CAMPANA



new

BASTIA



new

GLOBO



PEGASO



new

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Bastia	p. 62
Globo	p. 63
Pegaso	p. 64









Housing and frame: pressed in die-cast aluminium and designed with a very small surface exposed to wind. Cooling fins are integrated into the cover.

Optics: Optics made of PMMA with high temperature resistance and UV rays. Flow recovery in V0 polycarbonate, metallized high yield.

Pole connection: version with pole connector incorporated directly into the fixture's housing to enable whip-type installation on poles with diameters Ø60/62mm (Glass parallel to the ground with no possibility of tilt). With Acc. 290 it is possible to install the fixture either in mast-top or whip configuration. This accessory allows the lamp to be tilted 15° both in the whip-type and mast-top configuration.

Suspension connection: version with connector for suspension installation directly on the housing with acc. 55.

Diffuser: extra-clear tempered glass, 4 mm thick, resistant to thermal shocks and impacts (UNI-EN 12150-1: 2001).

Coating: the first stage includes grey epoxy e-coating, resistant to corrosion and saline environments. Then the fixture is coated with acrylic based UV-stabilised resin.

Equipment: Electric gear on a removable tray for easy maintenance. Automatic temperature control device. In the event of an unexpected LED temperature rise caused by particular weather conditions or a LED failure, the system will reduce the luminous flux to lower the working temperature and guarantee proper operation. Safety diode to protect against voltage peaks. Equipped with an air-circulation valve.

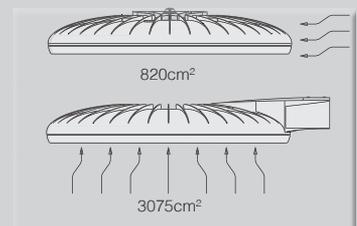
Energy-saving: the possibility to choose the correct drive current for LEDs will allow you to have the right power under specific design conditions, and also help you deal with maintenance and retrofitting problems. Using a lower current will improve the efficiency of fixtures and therefore increase energy savings, whilst a higher current will result in a higher light flux so that you can reduce the number of fixtures.

Photometric performance: designed with an optical system capable of controlling the potential glare created by the growing light intensity of LEDs while achieving high photometric performance. This allows the application in street lighting schemes where there is a significant distance between the poles.

Heat sink: the heat dissipation system is specially designed and made to allow the operation of the LED lights with temperatures ensuring excellent performance/efficiency and durability.

Table for the various options for managing the supply point

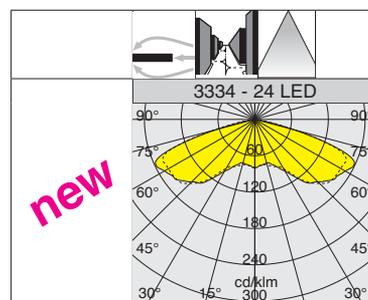
1-10V dimming	Virtual midnight	PLC remote control	Wi-Fi remote control (to be agreed upon)
Adjustment range from 10%-100% with 1-10V	Stand alone system with reduction of luminous flux	Point-to-point and system management and diagnosis system	Point-to-point and system management and diagnosis system with Wi-Fi system
Ordered with sub-code -12	Ordered with sub-code -30	Ordered with sub-code -0078	on request







IP66IK08



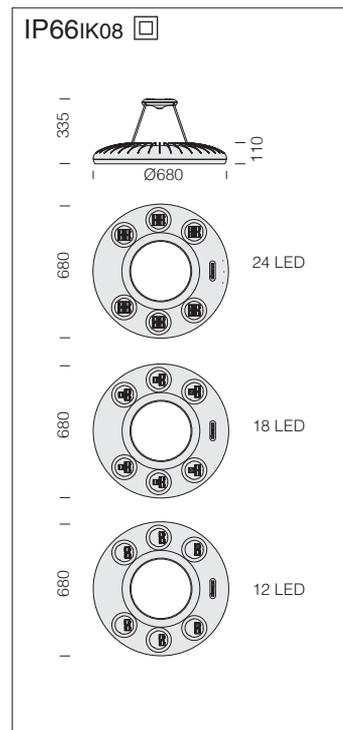
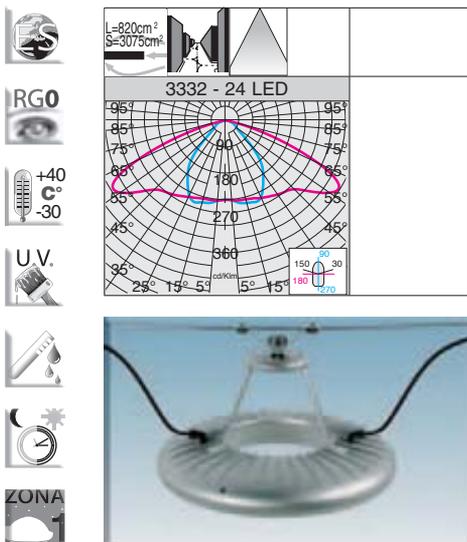
-
- RGO
- +40
-30
- U.V.
-
-
-
-

LED: Power factor >0.9.
Luminous flux maintenance
70%: 50000h (L70B20)

3334 Disco 5 LED - central fixing					
		CLD CELL		W	LED (Tj=85°C)
wattage 530mA	colour	weight	code		K - ølm 530mA - CRI
LED	s. silver	12.00	330050-00		4000K - 9050lm - CRI 80
LED	graphite	12.00	330053-00	72	
LED	s. silver	12.00	330051-00		4000K - 13570lm - CRI 80
LED	graphite	12.00	330054-00	108	
LED	s. silver	13.00	330052-00		4000K - 18100lm - CRI 80
LED	graphite	13.00	330055-00	144	

On request: possibility for the various options for managing the supply point (see table on p. 7).

	Electrical Power	n.LED	W	ølm
On request	350mA	12	46	6480 lm
		18	69	9720 lm
		24	91	12960 lm

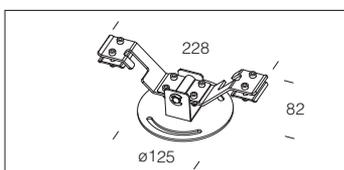


3332 Disco 3 LED - suspension					
		CLD CELL		LED (Tj=85°C)	
wattage 530mA	colour	weight	code	W	K - ølm 530mA - CRI
LED	s. silver	11.50	330020-00	72	4000K - 9050lm - CRI 80
LED	graphite	11.50	330023-00		
LED	s. silver	11.50	330021-00	108	4000K - 13570lm - CRI 80
LED	graphite	11.50	330024-00		
LED	s. silver	12.70	330022-00	144	4000K - 18100lm - CRI 80
LED	graphite	12.70	330025-00		

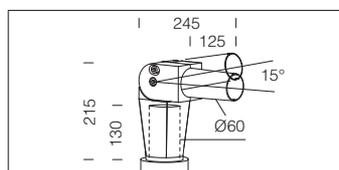
On request: possibility for the various options for managing the supply point (see table on p. 7).

LED: Power factor >0.9.
Luminous flux maintenance 70%: 50000h (L70B20)

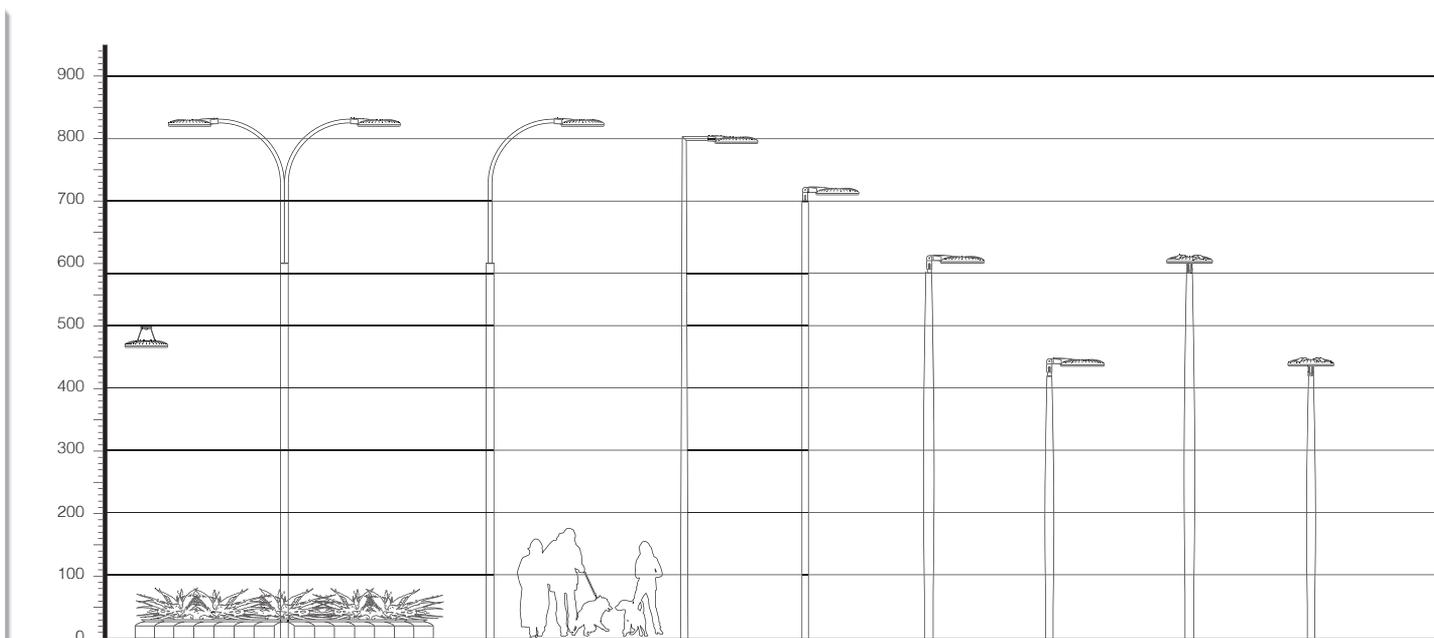
Suspension connection: acc. 56.



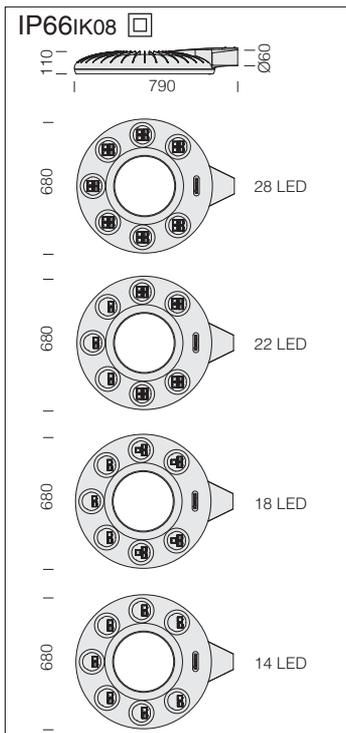
acc. 56 suspension connection	
0.70	995727-00
Made of stainless steel AISI 304. For installation on rope and steel cables	



acc. 290 joint	
graphite	991439-00
s. silver	991438-00
To be used for installation on poles acc. 1477/1478 - 1485/1487.	

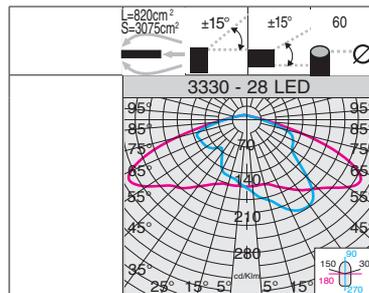


Specify pole height. For poles and accessories, see chapter: Poles



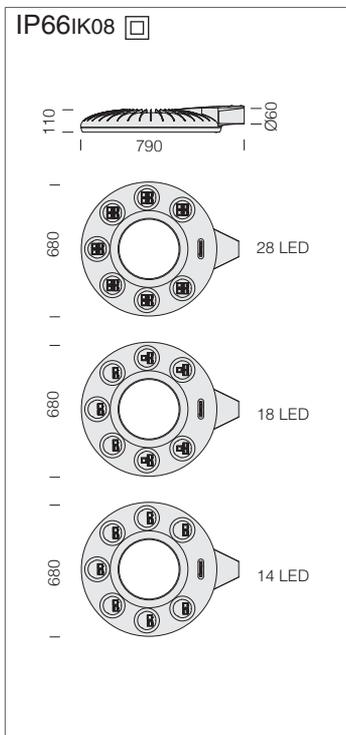
LED: Power factor >0.9.
Luminous flux maintenance
70%: 50000h (L70B20)

Pole joint: acc. 290.



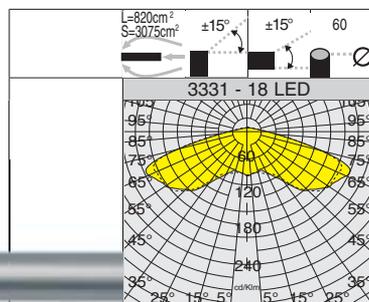
3330 Disco 1 LED - residential amenities					
		CLD CELL		W	LED (Tj=85°C)
wattage 530mA	colour	weight	code		K - ølm 530mA - CRI
LED	s. silver	12.00	330010-00	84	4000K - 10560lm - CRI 80
LED	graphite	12.00	330014-00		
LED	s. silver	12.00	330011-00	108	4000K - 13570lm - CRI 80
LED	graphite	12.00	330015-00		
LED	s. silver	13.00	330012-00	132	4000K - 16560lm - CRI 80
LED	graphite	13.00	330016-00		
LED	s. silver	13.00	330013-00	168	4000K - 21100lm - CRI 80
LED	graphite	13.00	330017-00		

On request: possibility for the various options for managing the supply point (see table on p. 7).



LED: Power factor >0.9.
Luminous flux maintenance
70%: 50000h (L70B20)

Pole joint: acc. 290.



3331 Disco 2 LED - wide beam					
		CLD CELL		W	LED (Tj=85°C)
wattage 530mA	colour	weight	code		K - ølm 530mA - CRI
LED	s. silver	13.00	330040-00	84	4000K - 10560lm - CRI 80
LED	graphite	13.00	330043-00		
LED	s. silver	12.00	330041-00	108	4000K - 13570lm - CRI 80
LED	graphite	12.00	330044-00		
LED	s. silver	12.00	330042-00	168	4000K - 21100lm - CRI 80
LED	graphite	12.00	330045-00		

On request: possibility for the various options for managing the supply point (see table on p. 7).





Housing and frame: pressed in die-cast aluminium.

Diffuser: tempered glass, 5 mm thick, thermal shock and impact resistant (UNI EN 12150 tests 1/2001).

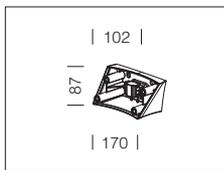
Coating: in different stages. By epoxy cationic electrocoating, resistant to corrosion and saline environments. Second coating using graphite grey acrylic resin, green, UV stabilized.

Equipment: Electric gear on a removable tray for easy maintenance. Automatic temperature control device. In the event of an unexpected LED temperature rise caused by particular weather conditions or a LED failure, the system will reduce the luminous flux to lower the working temperature and guarantee proper operation. Safety diode to protect against voltage peaks. Complete with quick connection.

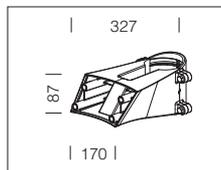
Equipment: Anti-condensation valve for air recirculation.



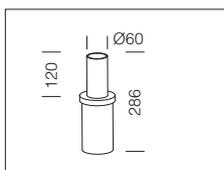
Visconti Accessories



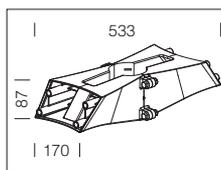
acc. 283 wall mounting arm	
graphite	991436-00
In die-cast aluminium. For wall-mounting applications.	



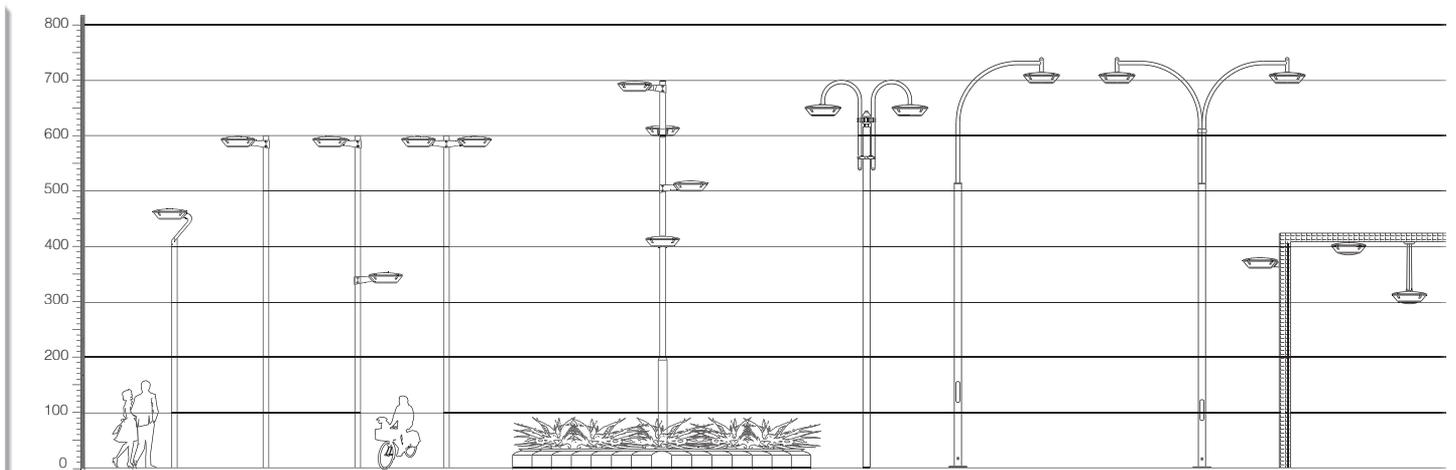
acc. 281 single pole mounting arm	
graphite	991432-00
In die-cast aluminium. We recommend using poles acc. 1485/87 - 1417/18	



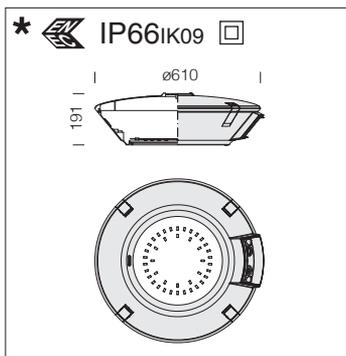
acc. 528 mast-top connection	
graphite	991463-00
In galvanised steel. To be used as a mast-top connection	



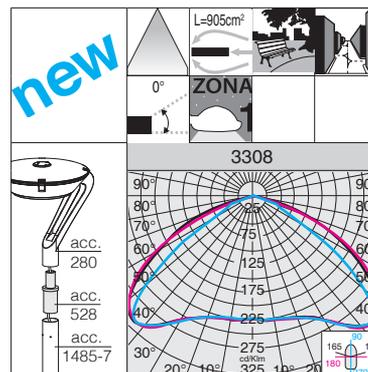
acc. 282 dual pole mounting arm	
graphite	991434-00
In die-cast aluminium. We recommend using poles acc. 1485/87 - 1417/18	



Specify pole height. For poles and accessories, see chapter: Poles

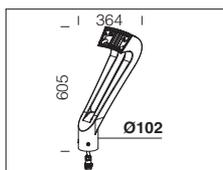


LED: Power factor ≥ 0.9 .
Luminous flux maintenance
70% 60000h (L70B20).



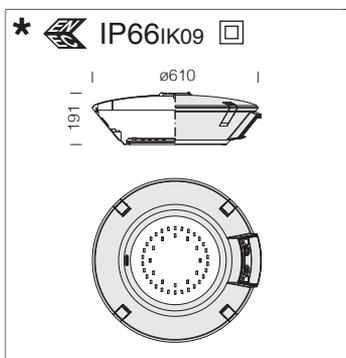
3308 Visconti 9 LED - wide beam					
		CLD CELL		LED (Tj=25°C)	
wattage 530mA	colour	weight	code	W	K - ølm 530mA - CRI
LED	graphite	10.60	328090-00	63	4000K - 8946lm - CRI>70

On request: possibility for the various options for managing the supply point (see table on p. XVII).

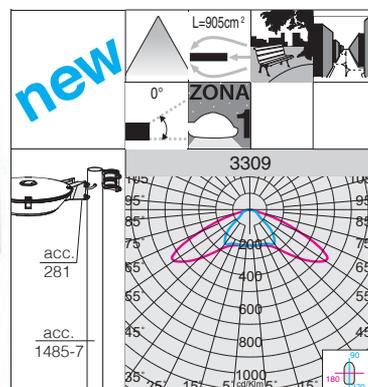


acc. 280 fork	
graphite	991430-00

In die-cast aluminium. To be used for mast-top connection. We recommend using poles acc. 1485/1487

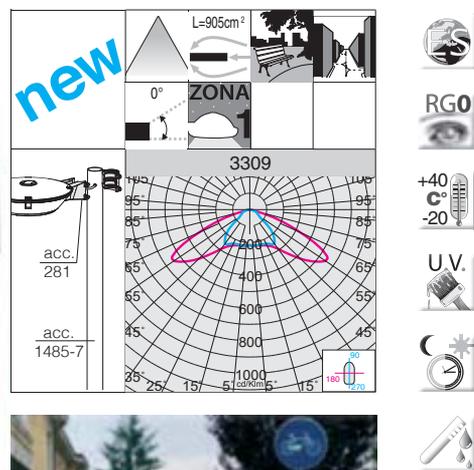
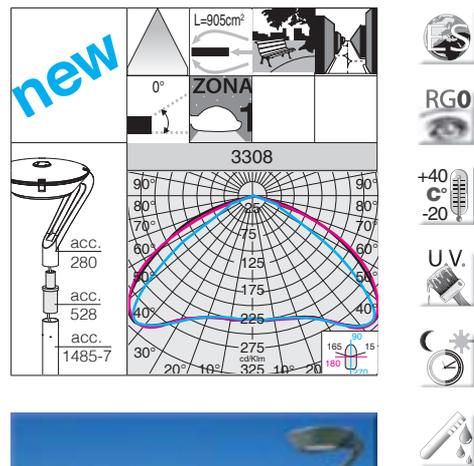


LED: Power factor ≥ 0.9 .
Luminous flux maintenance
70% 60000h (L70B20).



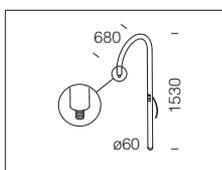
3309 Visconti 10 LED - cycleways					
		CLD CELL		LED (Tj=25°C)	
wattage 530mA	colour	weight	code	W	K - ølm 530mA - CRI
LED	graphite	10.60	328170-00	63	4000K - 8946lm - CRI>70

On request: possibility for the various options for managing the supply point (see table on p. XVII).

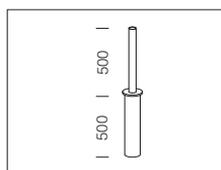




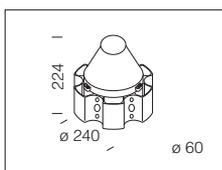
Visconti Accessories

**acc. 1473 curved arm**

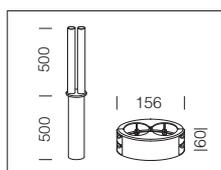
graphite	427013-00
In tropicalized steel. Apply to acc. 1464/1465.	

**acc. 385 1-lamp connector**

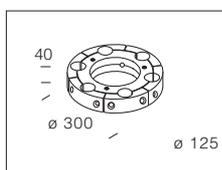
graphite	326505-00
To be inserted in the head-pole position to create a one-lamp composition. To be used with an arm acc. 511. To be used with pole ø120.	

**acc. 1464 Corona**

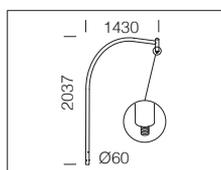
graphite	427000-00
Made of die-cast aluminium. For up to 6 arms acc. 1473. Equipped with terminal block.	

**acc. 384 2-lamp connector**

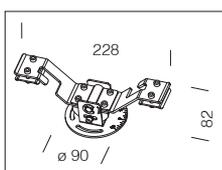
graphite	326507-00
To be inserted in the head-pole position to create a 1-lamp composition. To be used with arm acc. 511. Supplied with a seal ring. To be used with pole ø120.	

**acc. 1465 Corona flange**

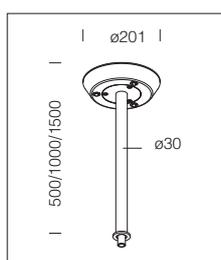
graphite	427001-00
Made of die-cast aluminium. Complete with 6 arm-stop devices to reinforce the assembly.	

**acc. 511 pole arm**

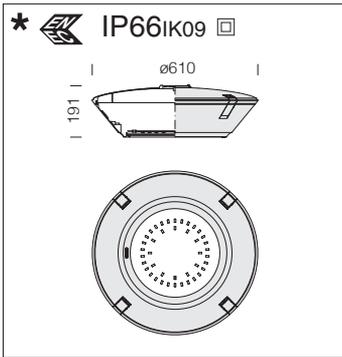
graphite	991268-00
In steel. For mast-top mounting to 1340/41/42/43 pole. To be used with acc. 383.	

**acc. 55 suspension connection**

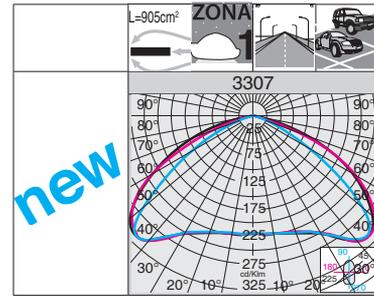
0.90	998098-00
In stainless steel AISI 304. For installation on ropes and steel cables.	

**acc. 14 tiges**

h 500	991447-00
h 1000	991448-00
h 1500	991449-00

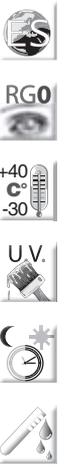
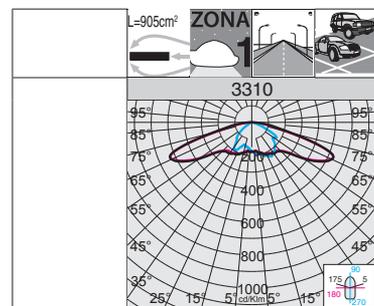
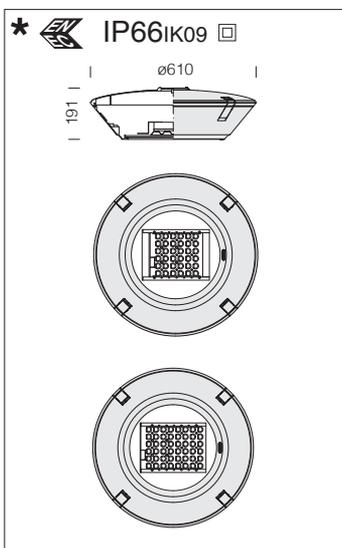


LED: Power factor ≥ 0.9 .
Luminous flux maintenance
70% 60000h (L70B20)



3307 Visconti 8 LED - suspension					
		CLD CELL		W	LED (Tj=25°C)
wattage 530mA	colour	weight	code		K - ølm 530mA - CRI
LED	graphite	10.60	328080-00	63	4000K - 8946lm - CRI>70

On request: possibility for the various options for managing the supply point (see table on p. XVII).



3310 Visconti 11 LED - suspension					
		CLD CELL		W	LED (Tj=25°C)
wattage 530mA	colour	weight	code		K - ølm 530mA - CRI
LED	graphite	10.60	328180-00	54	4000K - 7668lm - CRI>70
LED	graphite	10.60	328181-00	72	4000K - 10224lm - CRI>70

On request: possibility for the various options for managing the supply point (see table on p. XVII).

LED: Power factor ≥ 0.9 .
Luminous flux maintenance
70% 60000h (L70B20)

	Electrical Power	n.LED	W	ølm
On request	350mA	36	34	5148 lm
		48	46	6864 lm
Standard	530mA	36	54	7668 lm
		48	72	10224 lm



aura

design: ALESSANDRO PEDRETTI
(STUDIO ROTA & PARTNER)

Housing/cover: in die-cast aluminium.

Diffuser: pressed, in plexiglass.

Coating: in several stages. The first stage includes a grey epoxy cationic electro coating, resistant to corrosion and saline environments. Then it is coated with an eco-friendly, UV-stabilised acrylic resin primer.

Standard supply: complete with socket-plug. Automatic temperature control device. In the event of an unexpected temperature rise caused by particular weather conditions, the system will reduce the luminous flux to lower the working temperature and guarantee proper operation. Supplied with a safety diode to protect against voltage peaks.



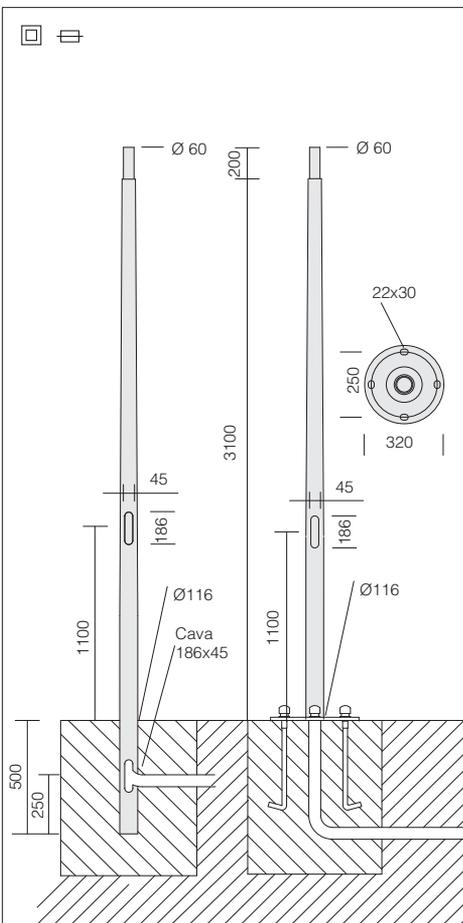
Poles and arm in painted galvanized aluminium.

Designed with a hole for the insertion of the power supply cable, with mast-top mounting of $\varnothing 60$ cm for arm acc. 513 or 532

With inspection window, complete with 4-pole/3-way removable 10 mm² terminal block and 2.5 mm² shunt, with 16A fuse

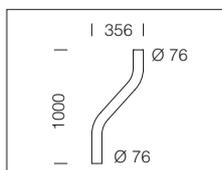
The version with base requires the purchase of 4 long bolts, nuts and caps to be buried for ground installation.

NOTE: before selecting the appropriate pole, make all necessary wind pressure resistance tests, pursuant to the Standards or Legislative Decrees in force in the countries where the pole will be mounted.

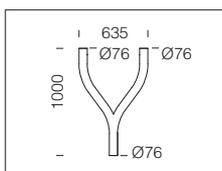


acc. 1441 - Steel cone-shaped to be buried for acc. 513/532									
colour	code								\varnothing
s. silver	425266-00	3600	3100	500	1100	186	45	$\varnothing 116$	$\varnothing 60$
graphite	425267-00	3600	3100						

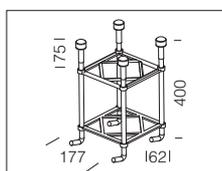
acc. 1440 - Steel cone-shaped with base acc. 513/532									
colour	code								
s. silver	425276-00	3100	1100	186	45	$\varnothing 116$	$\varnothing 60$	$\varnothing 320$	22x30
graphite	425277-00	3100							



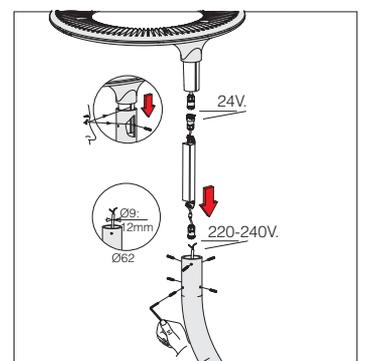
acc. 513 arm for pole	
s. silver	991290-00
graphite	991291-00
arm for Aura pole acc. 1440-1441.	



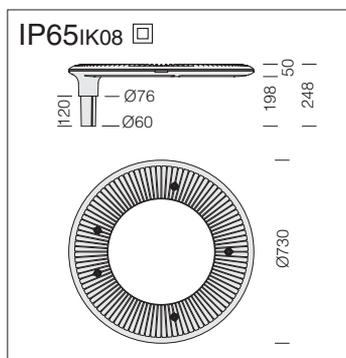
acc. 532 double arm for pole	
s. silver	991292-00
graphite	991293-00
arm for Aura pole acc. 1440-1441.	



acc. 299 Long bolts	
	991396-00
Long bolts should always be purchased with pole 1477/1440.	

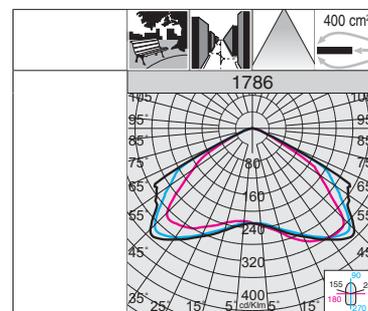


The electric gear, complete with plug for connection to mains supply, is supplied with the product.
To be inserted inside the arm **acc 513** or **532**.
To be used **only** and always with conical pole **acc 1440-1**



LED: Power factor ≥ 0.9 .
Luminous flux maintenance
70%: 60000h (L70B20)

Optics: Combined optical system
made in PMMA.



1786 Aura - Power LED

		CLD CELL		W	LED (T _j =25°C)
wattage (700mA)	colour	weight	code		K - ølm 700mA
LED	s. silver	8.50	423270-00	76	4000K - 8280lm
LED	graphite	8.50	423271-00		

On request: possibility for the various options for managing the supply point (see table on p. XVII).



Technical Specifications: Housing, lid, spokes, and connection for die-cast aluminium pressed poles.

Diffuser: Tempered glass, 5 mm thick, withstands thermal shock and impacts.

Coating: In different stages. Grey epoxy cationic electrocoating, resistant to corrosive and saline environments. UV stabilized priming using anthracite grey acrylic resin.

Equipment: Nylon wiring plate, 30% fibre glass, removable, tool-free, for quick maintenance. Standard knife switch, which enables to automatically cut off the power supply during maintenance.

Complete with quick-connector for connection to the line. Can be adjusted by loosening the bolts without taking the lighting fixture apart. Automatic temperature control device.

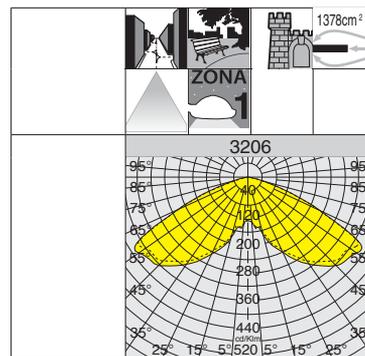
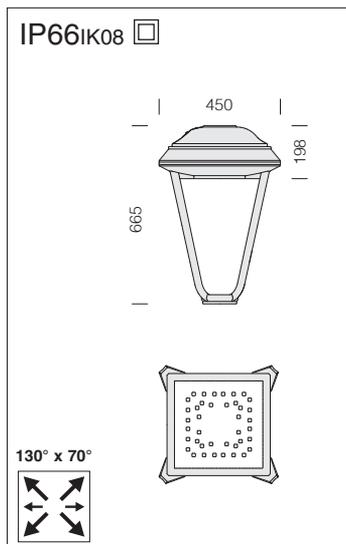
Anti-light pollution:

All the versions comply with current laws or regulations

Insulation Class: II

On request: White color.



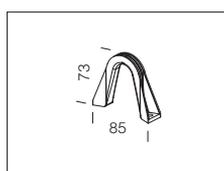


On request: 530mA powered version	
5888 lm	47W

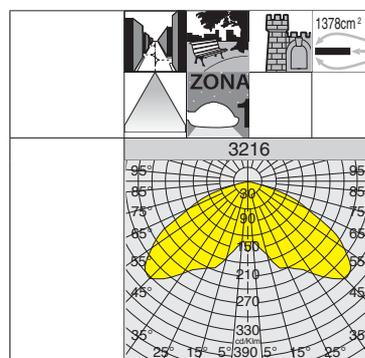
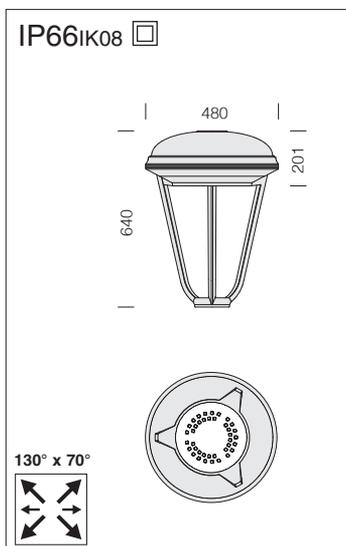
LED: Power factor ≥ 0.9 .
Luminous flux maintenance
70% 60000h (L70B20)

3206 Lucerna Q 6 - Power LED					
		CLD CTL		LED (Tj=25°C)	
wattage (350mA)	colour	weight	code	W	K - ϕ lm 350mA
LED	anthracite	10.55	327200-00	32	4000K - 4160lm

On request: possibility for the various options for managing the supply point (see table on p. XVII).



acc. 329 suspension unit	
anthracite	998003-00
In die-cast aluminium. Supplied separately for suspension applications.	

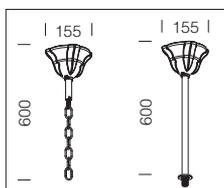


On request: 530mA powered version	
4968 lm	40W

LED: Power factor ≥ 0.9 .
Luminous flux maintenance
70% 60000h (L70B20)

3216 Lucerna R 6 - Power LED					
		CLD CTL		LED (Tj=25°C)	
wattage (350mA)	colour	weight	code	W	K - ϕ lm 350mA
LED	anthracite	10.55	327210-00	27	4000K - 3510lm

On request: possibility for the various options for managing the supply point (see table on p. XVII).



acc. 518 chain connection	
anthracite	991284-00
Supplied with suspension chain. To be used with acc. 329.	

acc. 519 rod connection	
anthracite	991285-00
Supplied with suspension rod.	



60	
1620cm ²	ZONA
3202	
On request: 530mA powered version 5888 lm 47W	



IP66IK08

3202 Lucerna Q - Power LED					
		CLD CELL			LED (Tj=25°C)
wattage (350mA)	colour	weight	code	W	K - ølm 350mA
LED	anthracite	12.55	326920-00	32	4000K - 4160lm

On request: possibility for the various options for managing the supply point (see table on p. XVII).

LED: Power factor ≥0.9.
Luminous flux maintenance
70% 60000h (L70B20)



1620cm ²	60	
1620cm ²	60	ZONA
3209		
210 280 350 420 ø190cm 180 1570		

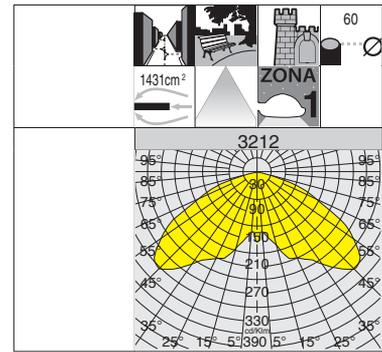
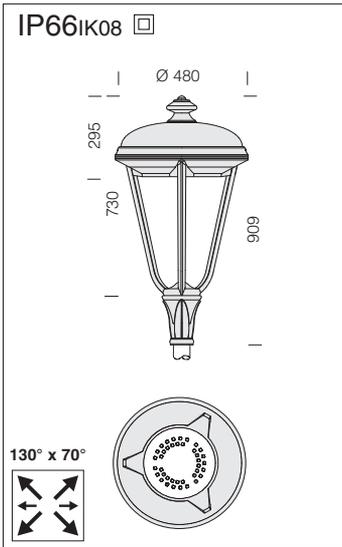


IP66IK08

3209 Lucerna Q8 asymmetric - Power LED					
		CLD CELL			LED (Tj=25°C)
wattage (350mA)	colour	weight	code	W	K - ølm 350mA
LED	anthracite	13.55	327220-00	48	4000K - 6240lm

On request: possibility for the various options for managing the supply point (see table on p. XVII).

LED: Power factor ≥0.9.
Luminous flux maintenance
70% 60000h (L70B20)

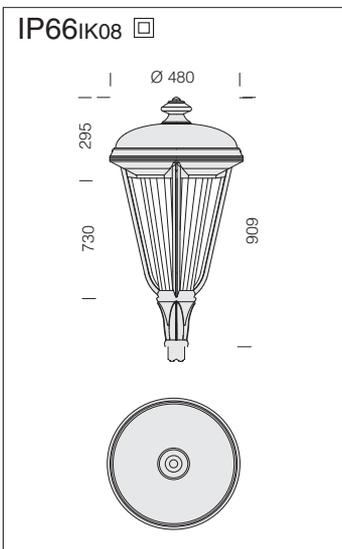


On request: 530mA powered version	
4968 lm	40W

LED: Power factor ≥ 0.9 .
Luminous flux maintenance
70% 60000h (L70B20)

3212 Lucerna R - Power LED					
		CLD CELL		W	LED (Tj=25°C)
wattage (350mA)	colour	weight	code	W	K - ølm 350mA
LED	anthracite	12.35	326970-00	27	4000K - 3510lm

On request: possibility for the various options for managing the supply point (see table on p. XVII).



LED: Power factor ≥ 0.9 .
Luminous flux maintenance
70% 60000h (L70B20)

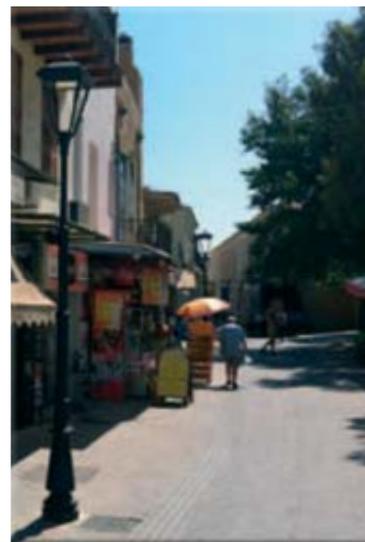
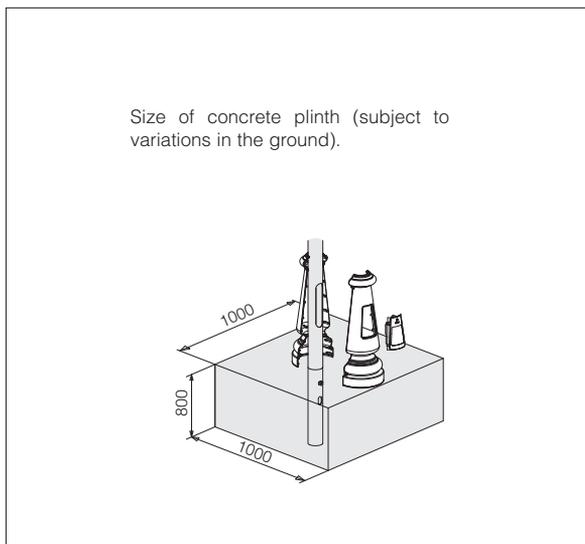
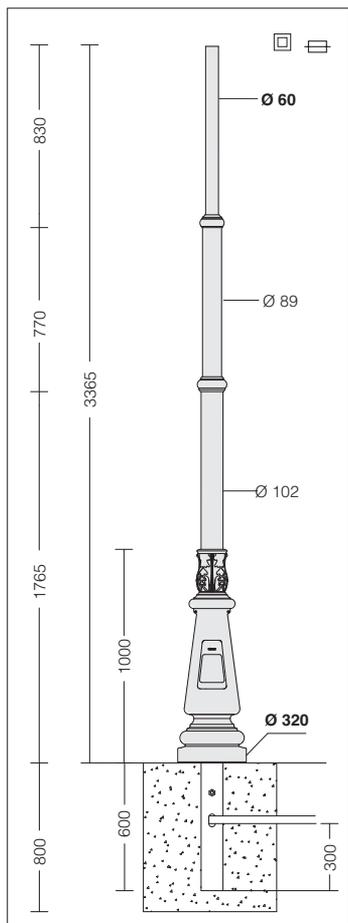
Diffuser: in shatterproof and self-extinguishing V2 polycarbonate, UV-stabilized, frosted inside for improved glare control.

3214 Lucerna - Power LED					
		CLD CELL		W	LED
wattage (350mA)	colour	weight	code	W	K - ølm
LED	anthracite	12.35	326985-00	27	4000K - 3510lm

On request: possibility for the various options for managing the supply point (see table on p. XVII).







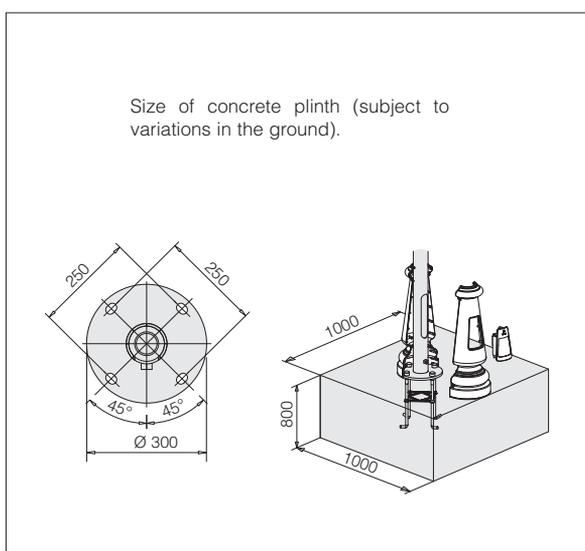
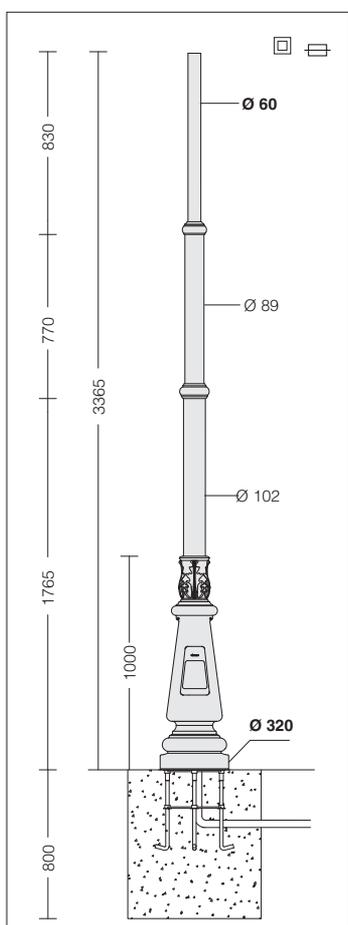
acc. 1411 - Lucerna pole to be buried

colour	code								
anthracite	425230-00	3965	3365	600	300	320	60	Ø 320	Ø 60

Hot galvanized steel poles, coated using thermosetting polyester powder.
 Base, inspection window and decorations made from die-cast aluminium, pressed and varnished. Equipped with inspection window, 2 protection fuse holders, 2 fuses (16A), removable terminal block.
 Stainless steel screws, double insulation.

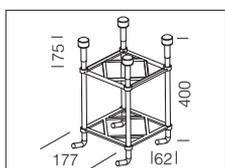


Available on request: an inspection window that can be customized logo.



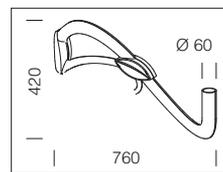
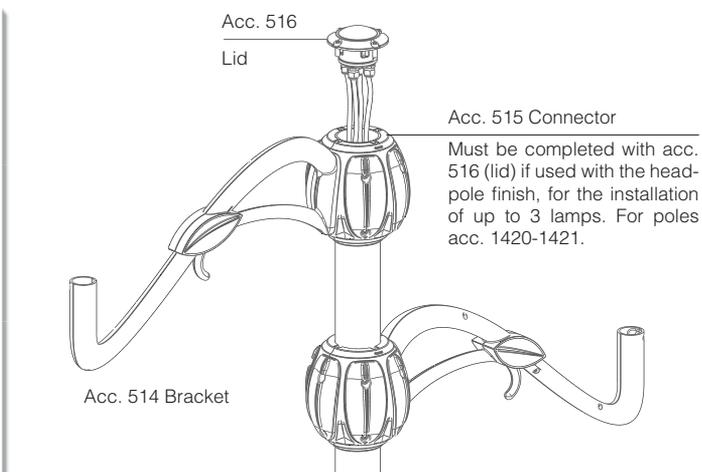
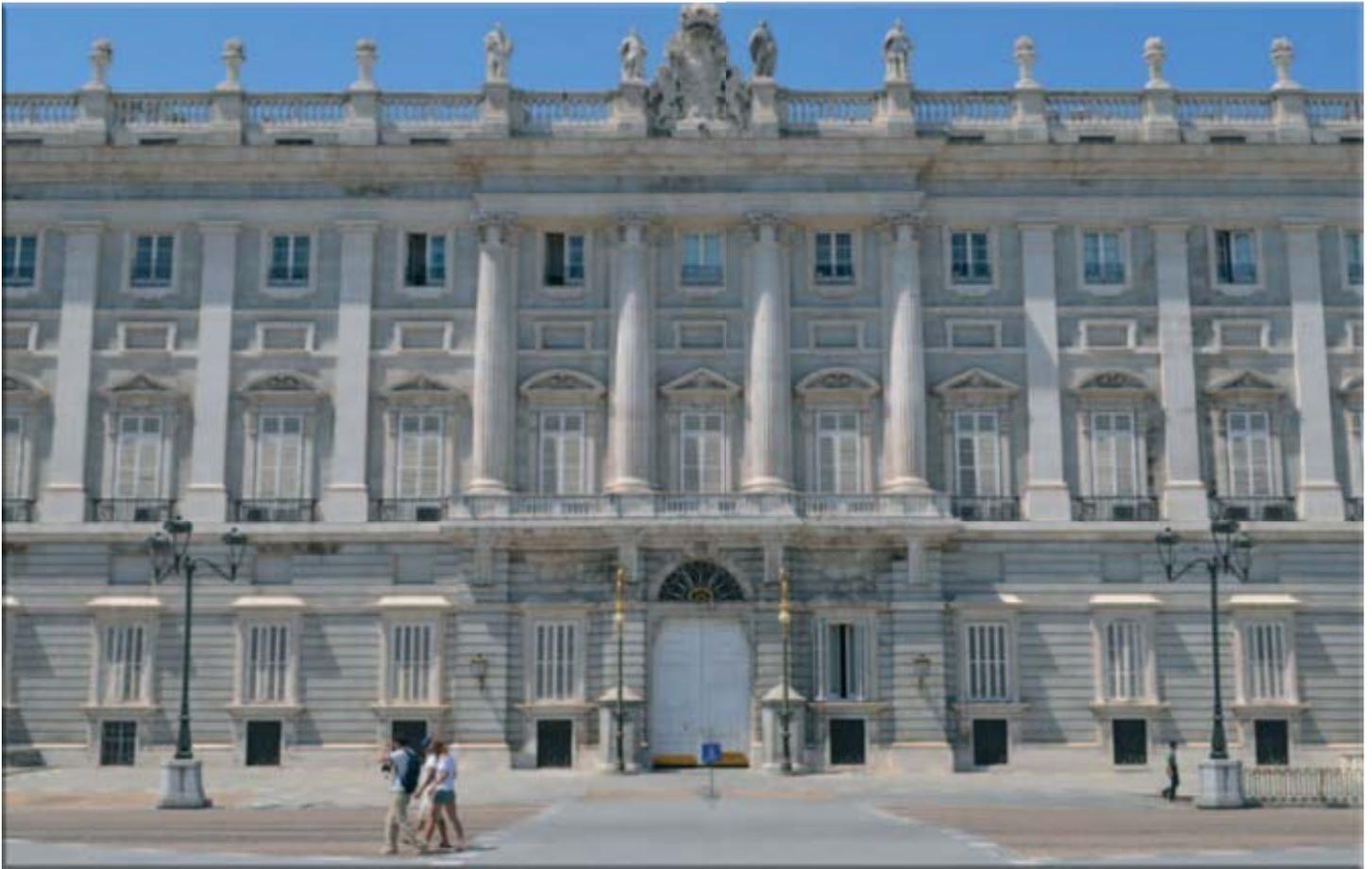
acc. 1410 - Lucerna pole with base

colour	code							
anthracite	425220-00	3365	300	320	60	Ø 320	Ø 60	Ø 300

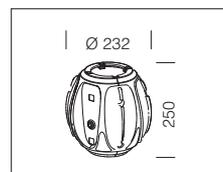


acc. 299 log bolts
 991396-00
 Log bolts supplied with poles 1410.

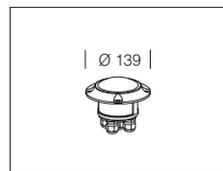
NOTE: before selecting the appropriate pole, make all necessary wind pressure resistance tests, pursuant to the Standards or Legislative Decrees in force in the countries where the pole will be mounted.



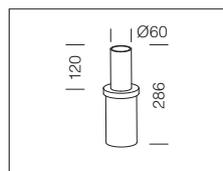
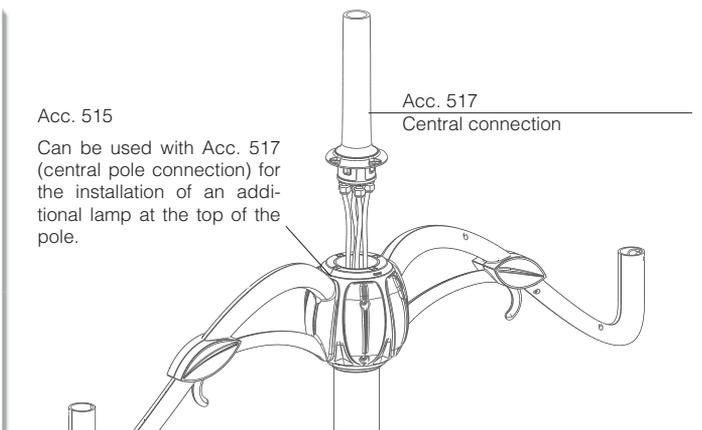
acc. 514 bracket	
anthracite	991280-00
Bracket in die-cast aluminium with feeder, external PVC sheath and double insulated conductors, 2x1 sqmm section. Stainless steel screws.	



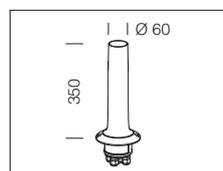
acc. 515 connector Ø 102	
anthracite	991281-00
In die-cast aluminium for stainless steel pole Ø 102, for the installation of up to 3 brackets (acc. 514) plus a central bracket (acc. 517). Stainless steel screws.	



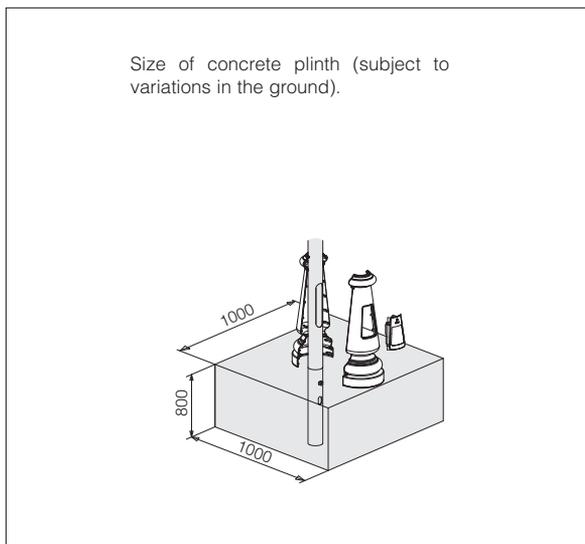
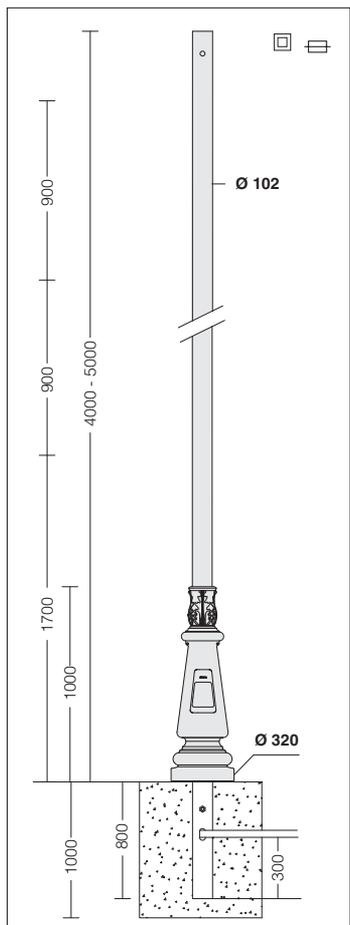
acc. 516 lid	
anthracite	991282-00
Die-cast aluminium lid. Supplied with plastic distribution box and terminal for power connection. Stainless steel screws.	



acc. 528 mast top pole connection	
anthracite	991288-00
To be used as a mast top pole connection on poles acc. 1420/21.	



acc. 517 central connection	
anthracite	991283-00
Made from die-cast aluminium, to be used with acc. 1420-21. Supplied with power lead, 2x1 sqmm section. Plastic distribution box and terminal for electrical connection. Stainless steel screws. To be used for pole-head connection with acc. 1420-21.	



acc. 1421 - Lucerna pole to be buried

colour	code									
anthracite	425330-00	4800	4000	800	300	320	60	Ø 320	Ø 102	
anthracite	425331-00	5800	5000	800	300	320	60	Ø 320	Ø 102	

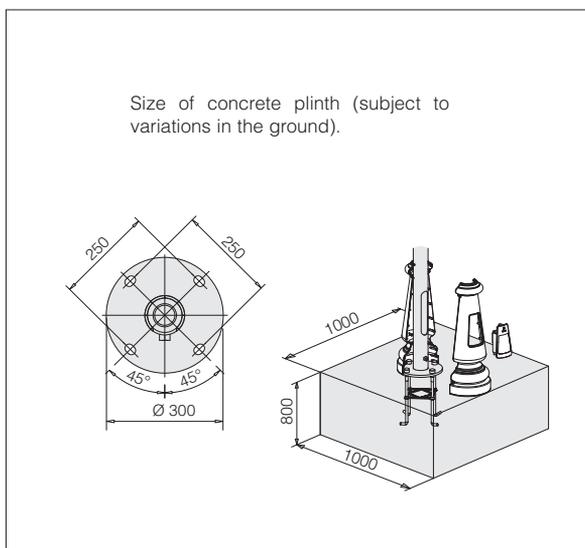
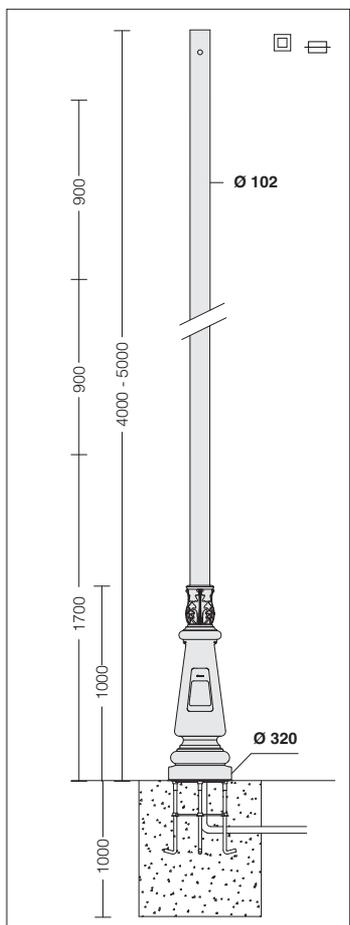
Hot galvanized steel poles, coated using thermosetting polyester powder.

Base, inspection window and decorations made from die-cast aluminium, pressed and varnished. Equipped with inspection window, 2 protection fuse holders, 2 fuses (16A), removable terminal block.

Stainless steel screws, double insulation.

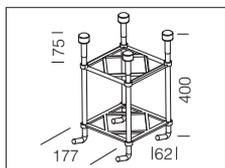


Available on request: an inspection window that can be customized logo.



acc. 1420 - Lucerna pole with base

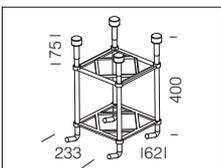
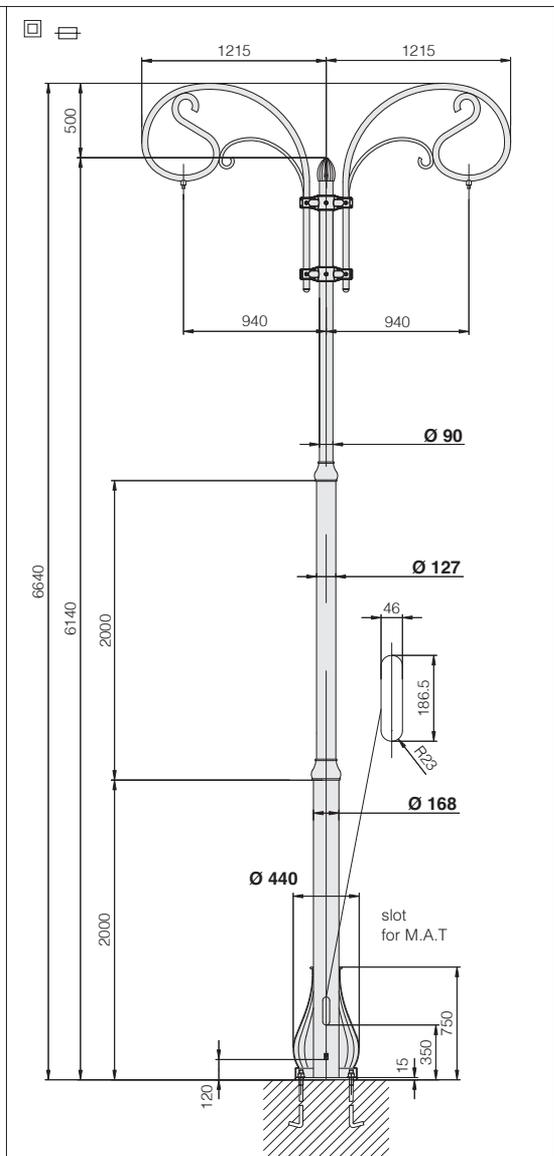
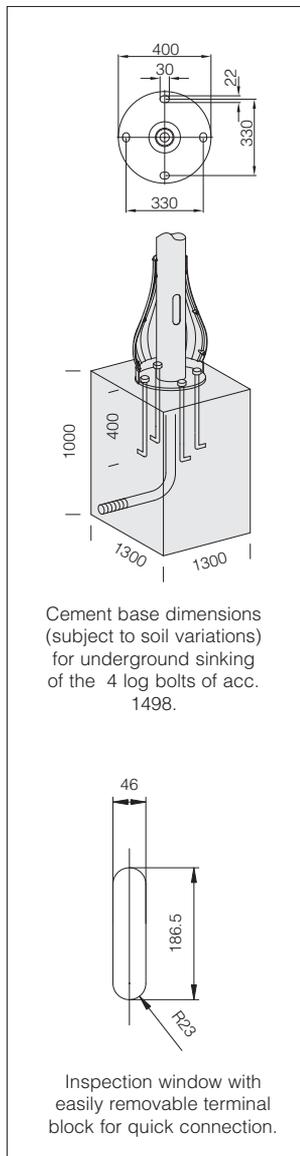
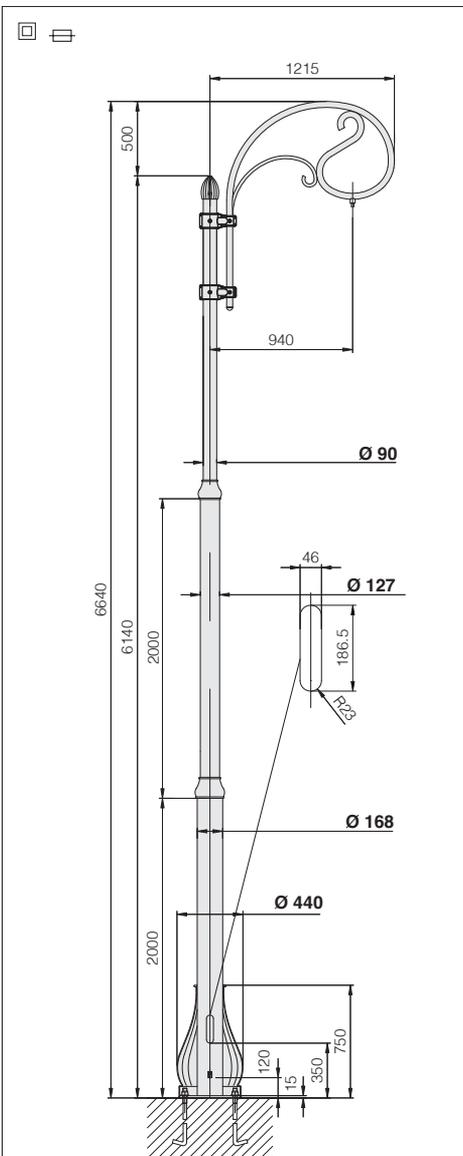
colour	code										
anthracite	425320-00	4000	300	320	60	Ø 320	Ø 102	Ø 300	Ø 102	Ø 300	
anthracite	425321-00	5000	300	320	60	Ø 320	Ø 102	Ø 300	Ø 102	Ø 300	



acc. 299 log bolts
991396-00
Log bolts supplied with poles 1420.

NOTE: before selecting the appropriate pole, make all necessary wind pressure resistance tests, pursuant to the Standards or Legislative Decrees in force in the countries where the pole will be mounted.





acc. 297 log bolts
426448-00
Log bolts are always to be used with the pole 1498.

acc. 1498 Liberty pole									
version	colour	code	6140	350	186.5	46	Ø 440	Ø 90	Ø 400 hole 30x22
with 1 arm	anthracite	425203-00	6140	350	186.5	46	Ø 440	Ø 90	Ø 400 hole 30x22
with 2 arms	anthracite	425204-00							

Log bolts are to be bought separately acc. 297.



Housing: in die-cast aluminium.
Fitted with aluminium support bracket (pole connection $\varnothing 60$)

Optics: Combined optical system made in PMMA.

Diffuser: tempered glass, 5 mm thick, thermal shock and impact resistant (UNI EN 12150 tests 1/2001).

Coating: in different stages. By epoxy cationic electrocoating, resistant to corrosion and saline environments. Second coating using sand-blasted silver coloured and graphite grey acrylic resin, green, UV stabilized. Additional colours are available upon request.

Standard supply: temperature control inside the device with automatic resetting. Complete with quick connection.



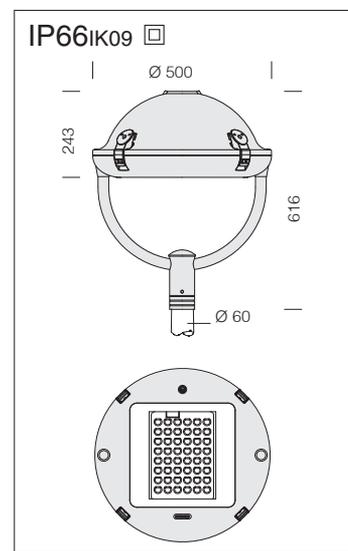
60 L=1200cm²

3221

+40
-30

U.V.

ZONA

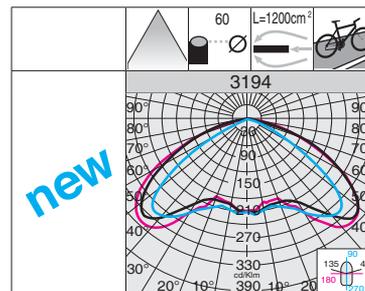
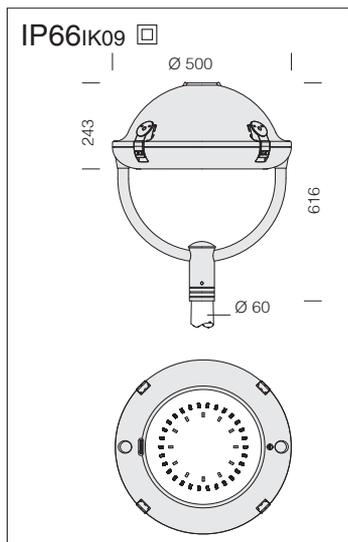


3221 Sforza Power LED with support bracket					
		CLD CELL		LED (T _j =25°C)	
wattage 530mA	colour	weight	code	W	K - ølm 530mA - CRI
LED	silv. + graph.	14.00	327090-00	72	4000K - 10224lm - CRI>70

On request: possibility for the various options for managing the supply point (see table on p. XVII).

LED: Power factor ≥0.9.
Luminous flux maintenance
70% 60000h (L70B20)

	Electrical Power	n.LED	W	ølm
On request	350mA	48	46	6864 lm
Standard	530mA	48	72	10224 lm

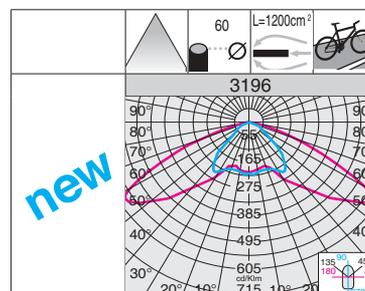
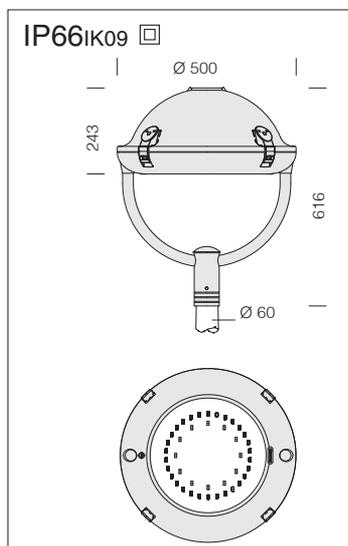


LED: Power factor ≥ 0.9 .
Luminous flux maintenance
70% 60000h (L70B20).

3194 Sforza Power LED with bracket - wide beam with elliptic lenses					
		CLD CELL		W	LED (Tj=25°C)
wattage 350mA	colour	weight	code	41	K - ølm 350mA - CRI
LED	silv.+ graph.	10.20	327030-00		4000K - 6006lm - CRI>70

On request: possibility for the various options for managing the supply point (see table on p. XVII).

	Electrical Power	n.LED	W	ølm
Standard	350mA	42	41	6006 lm
On request	530mA	42	63	8946 lm

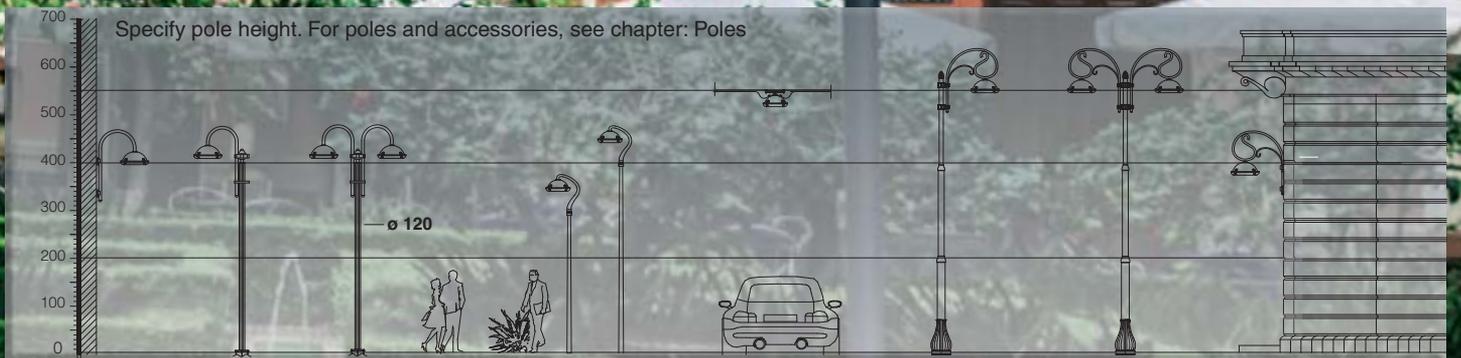
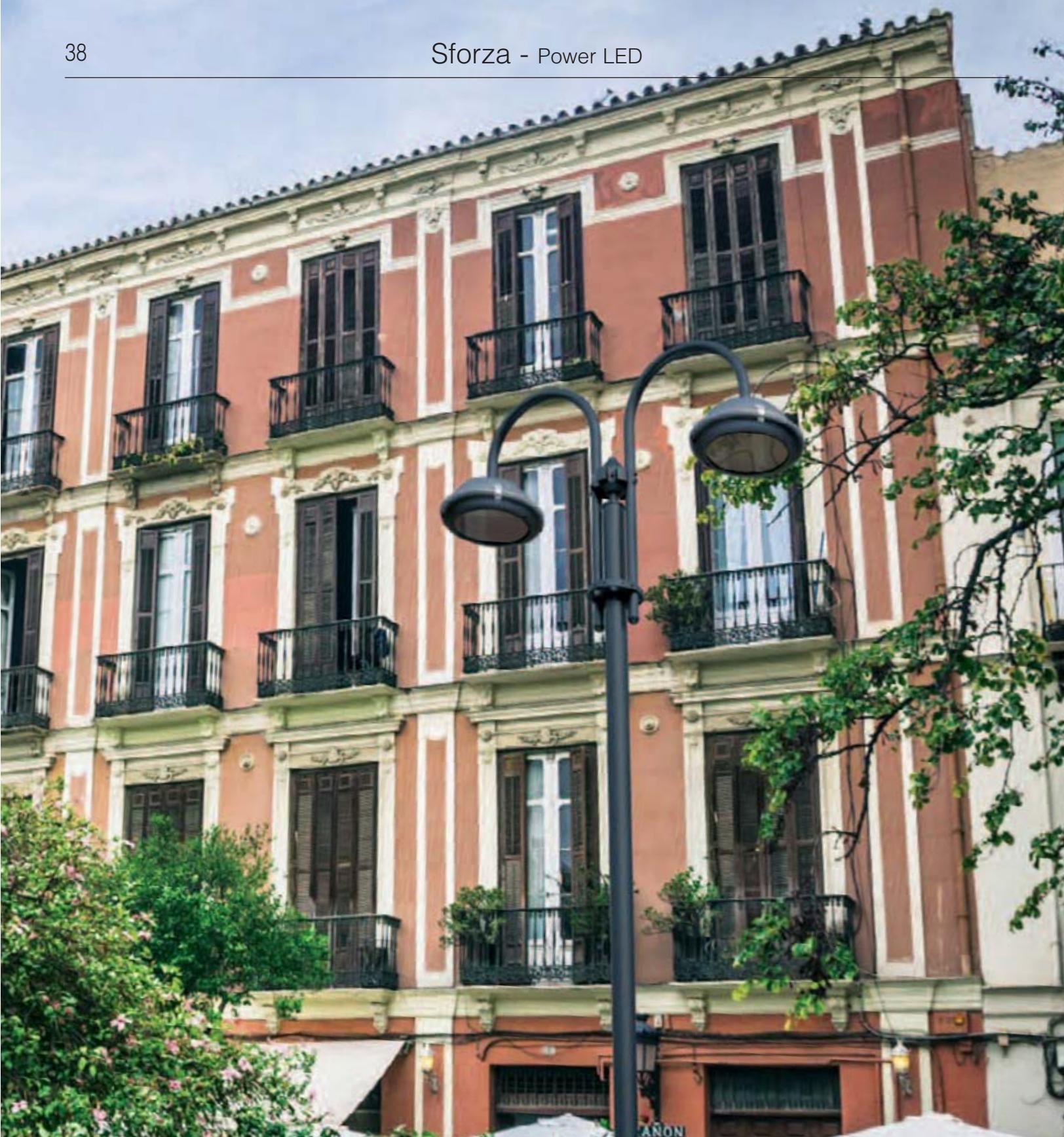


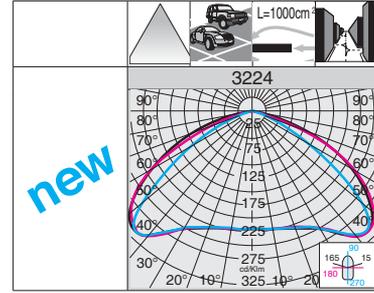
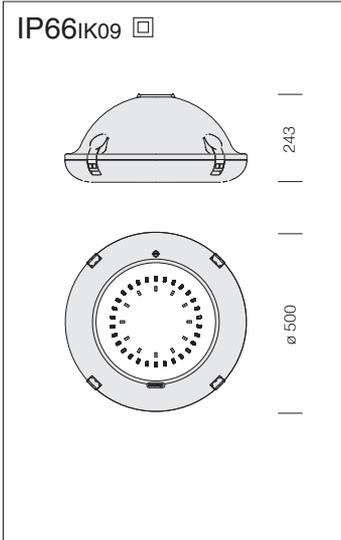
LED: Power factor ≥ 0.9 .
Luminous flux maintenance
70% 60000h (L70B20).

3196 Sforza Power LED with bracket - cycle lanes					
		CLD CELL		W	LED (Tj=25°C)
wattage 350mA	colour	weight	code	41	K - ølm 350mA - CRI
LED	silv.+ graph.	11.20	327050-00		4000K - 6006lm - CRI>70

On request: possibility for the various options for managing the supply point (see table on p. XVII).

	Electrical Power	n.LED	W	ølm
Standard	350mA	42	41	6006 lm
On request	530mA	42	63	8946 lm

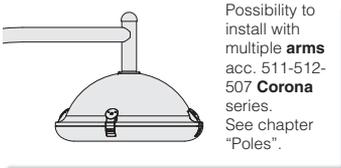




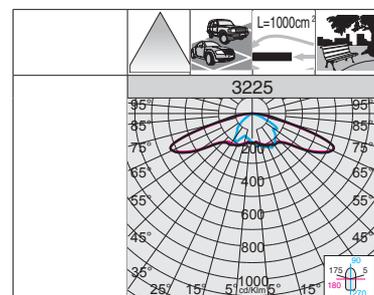
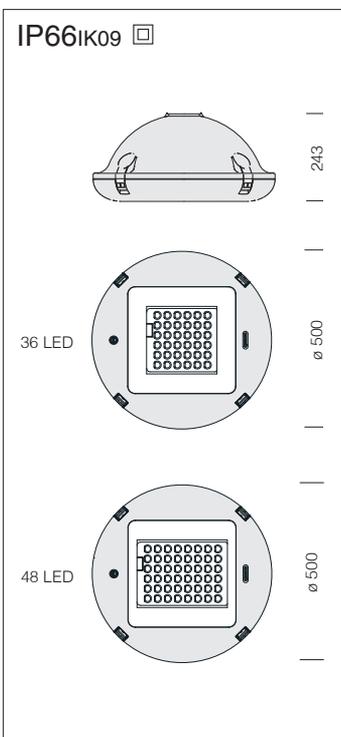
LED: Power factor ≥ 0.9 .
Luminous flux maintenance
70% 60000h (L70B20).

3224 Sforza - Power LED with central connection					
		CLD CELL		W	LED (Tj=25°C)
wattage (350mA)	colour	weight	code		K - ϕ lm 350mA - CRI
LED	silv.+ graph.	7.40	327120-00	41	4000K - 6006lm - CRI>70

N.B.: the lighting fixtures already supplied with holes for the installation of acc. 55 and for the power supply cable should be ordered with sub-code -0089. **On request:** possibility for the various options for managing the supply point (see table on p. XVII).



	Electrical Power	n.LED	W	ϕ lm
Standard	350mA	42	41	6006 lm
On request	530mA	42	63	8946 lm

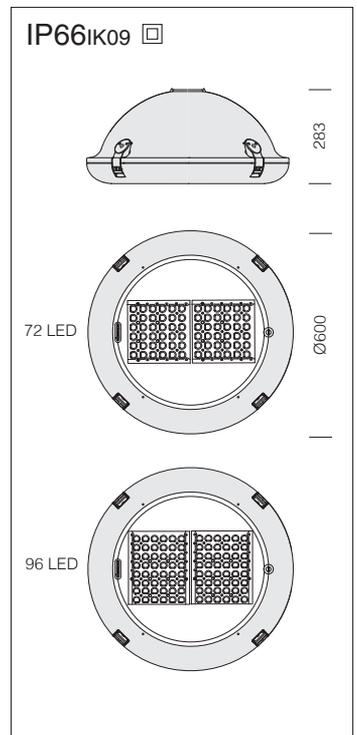


LED: Power factor ≥ 0.9 .
Luminous flux maintenance
70%: 60000h (L70B20)

3225 Sforza - Power LED with central connection					
		CLD CELL		W	LED (Tj=25°C)
wattage (350mA)	colour	weight	code		K - ϕ lm 350mA - CRI
LED	silv.+ graph.	9.40	327130-00	34	4000K - 5148lm - CRI>70
LED	silv.+ graph.	9.40	327131-00	46	4000K - 6864lm - CRI>70

N.B.: the lighting fixtures already supplied with holes for the installation of acc. 55 and for the power supply cable should be ordered with sub-code -0089. **On request:** possibility for the various options for managing the supply point (see table on p. XVII).

	Electrical Power	n.LED	W	ϕ lm
Standard	350mA	36	34	5148 lm
		48	46	6864 lm
On request	530mA	36	54	7668 lm
		48	72	10224 lm

3226 Sforza - Power LED with central connection						
		CLD CELL		W	LED (Tj=25°C)	
wattage 530mA	colour	weight	code		K - ølm 530mA - CRI	
LED	silv. + graph.	10.60	327140-00	108	4000K - 15336lm - CRI>70	
LED	silv. + graph.	10.60	327141-00	144	4000K - 20448lm - CRI>70	

N.B.: the lighting fixtures already supplied with holes for the installation of acc. 55 and for the power supply cable should be ordered with sub-code -0089. Ordered separately acc. 55. **On request:** possibility for the various options for managing the supply point (see table on p. XVII).

acc. 55 suspension connection	
0.90	998098-00

In stainless steel AISI 304. For installation on ropes and steel cables.
For Sforza and Astro.

	Electrical Power	n.LED	W	ølm
On request	350mA	72	68	10296 lm
		96	91	13728 lm
Standard	530mA	72	108	15336 lm
		96	144	20448 lm

LED: Power factor ≥0.9.
Luminous flux maintenance 70%: 60000h (L70B20)

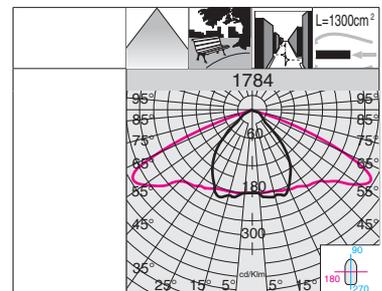
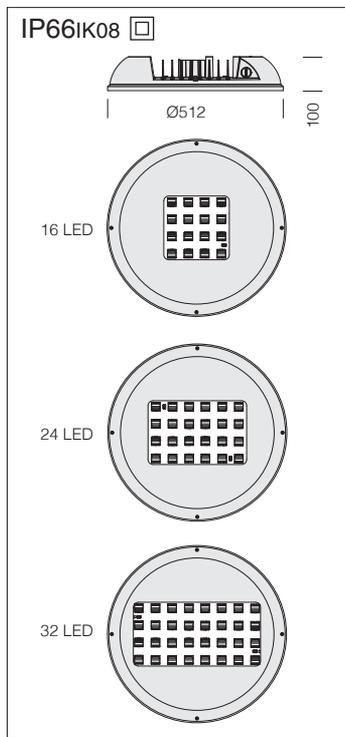
Housing/Frame: in die-cast aluminium with cooling fins integrated into the cover and designed with a very small surface exposed to wind.

Diffuser: tempered glass, 4 mm thick, resistant to thermal shocks and impacts (UNI-EN 12150-1: 2001).

LED: Optics made of PMMA with high temperature resistance and UV rays. Flow recovery in V0 polycarbonate, metallized high yield.

Coating: polyester resin for powder coating, resistant to corrosion and saline environments.

Standard supply: temperature control inside the device with automatic resetting. Safety diode to protect against voltage peaks compliant with EN 61547. In the event of an unexpected LED temperature rise caused by particular weather conditions or a LED failure, the system will reduce the luminous flux to lower the working temperature and guarantee proper operation. Supplied with a safety diode to protect against peak loads. Complete with IP68 quick connection.



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LED: Power factor ≥ 0.9 . Luminous flux maintenance 70%: 50000h (L70B20).

1784 Astro - Power LED with central connection					
		CLD CELL-D		W	LED (Tj=85°C)
wattage 700mA	color	weight	code		K - ølm 700mA - CRI
LED	graphite	11.50	330065-00	127	4000K - 15680lm - CRI 80
LED	s. silver	11.50	330064-00	127	4000K - 15680lm - CRI 80
LED	graphite	11.50	330062-00	188	4000K - 23520lm - CRI 80
LED	s. silver	11.50	330060-00	188	4000K - 23520lm - CRI 80
LED	graphite	11.50	330063-00	251	4000K - 31360lm - CRI 80
LED	s. silver	11.50	330061-00	251	4000K - 31360lm - CRI 80

On request: possibility for the various options for managing the supply point (see table on p. XVII).

	Electrical Power	n.LED	W	ølm		Electrical Power	n.LED	W	ølm
On request	350mA	16	63	8680 lm	Standard	700mA	16	127	15680 lm
		24	94	12960 lm			24	188	23520 lm
		32	125	17280 lm			32	251	31360 lm

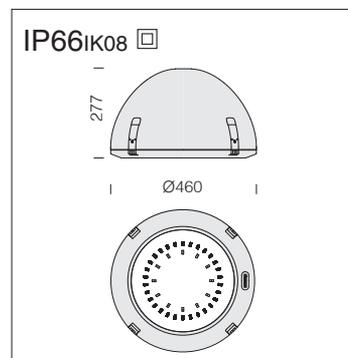


L=1030cm

RG0

+40
C°
-20

U.V.



Housing/Frame: in die-cast aluminium.

Diffuser: tempered glass, 5 mm thick, resistant to thermal shock and impacts.

Coating: in several stages. The first stage includes an epoxy cationic electro coating, resistant to corrosion and saline environments. Then it is coated with a sand-blasted silver, eco-friendly, UV-stabilized acrylic resin.

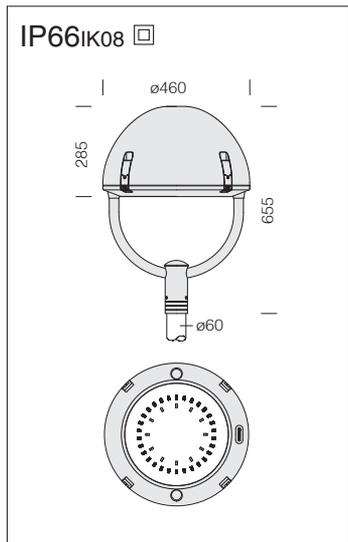
Standard supply: temperature control inside the device with automatic resetting. Complete with quick connection.

LED: Power factor ≥ 0.9 . Luminous flux maintenance 70% 60000h (L70B20).

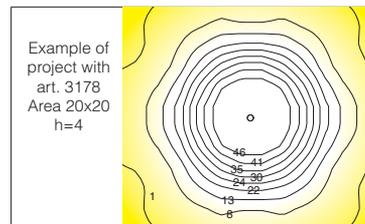
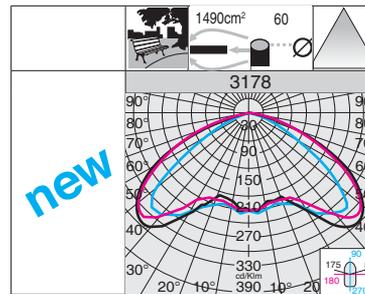
3175 Montecarlo Power LED with elliptic lenses					
		CLD CELL		LED (Tj=25°C)	
wattage (350mA)	colour	weight	code	W	K - ølm 350mA - CRI
LED	silv. + graph.	8.00	326580-00	41	4000K - 6006lm - CRI>70

N.B.: the lighting fixtures already supplied with holes for the installation of acc. 55 and for the power supply cable should be ordered with sub-code -0089. Ordered separately acc. 55. **On request:** possibility for the various options for managing the supply point (see table on p. XVII).

	Electrical Power	n.LED	W	ølm
Standard	350mA	42	41	6006 lm
On request	530mA	42	63	8946 lm



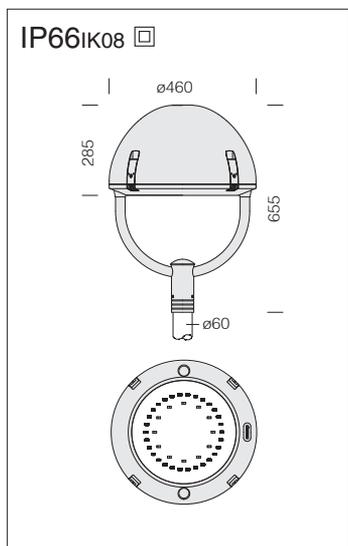
LED: Power factor ≥ 0.9 .
Luminous flux maintenance
70% 60000h (L70B20).



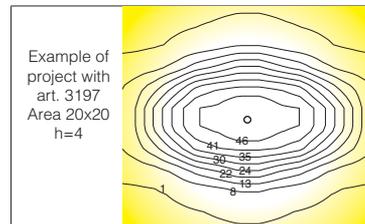
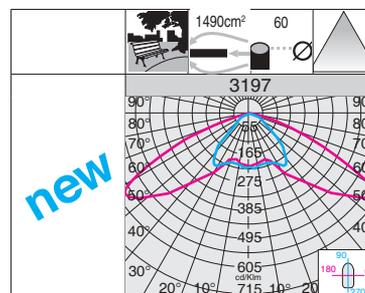
3178 Montecarlo Power LED with bracket - wide beam with elliptical lenses					
		CLD CELL		W	LED (Tj=25°C)
wattage 350mA	colour	weight	code	41	K - ølm 350mA - CRI
LED	silv.+ graph.	10.00	326760-00		4000K - 6006lm - CRI>70

On request: possibility for the various options for managing the supply point (see table on p. XVII).

	Electrical Power	n.LED	W	ølm
Standard	350mA	42	41	6006 lm
On request	530mA	42	63	8946 lm



LED: Power factor ≥ 0.9 .
Luminous flux maintenance
70% 60000h (L70B20).



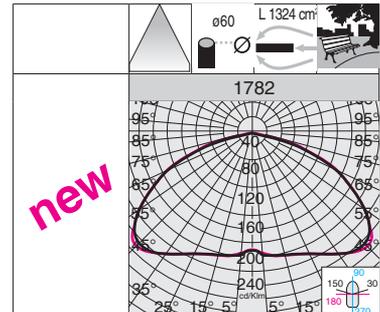
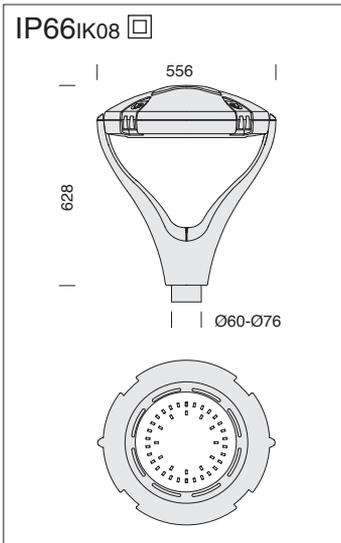
3197 Montecarlo Power LED with bracket - cycleways					
		CLD CELL		W	LED (Tj=25°C)
wattage 350mA	colour	weight	code	41	K - ølm 350mA - CRI
LED	silv.+ graph.	10.00	326750-00		4000K - 6006lm - CRI>70

On request: possibility for the various options for managing the supply point (see table on p. XVII).

	Electrical Power	n.LED	W	ølm
Standard	350mA	42	41	6006 lm
On request	530mA	42	63	8946 lm

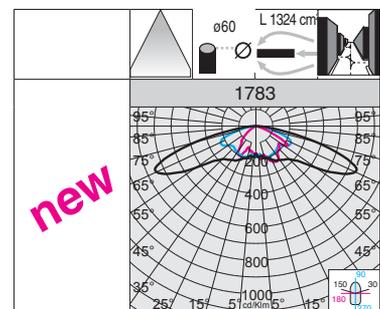
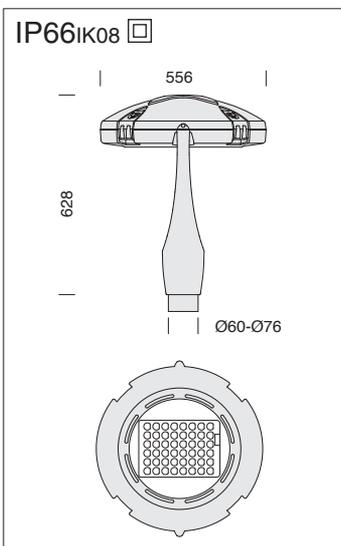






Housing including frame: die-cast aluminium with locking latch.
Diffuser: 5mm thick tempered glass, resistant to impact and thermal shock (UNI7142 tests, British standard 3193).
Coating: in several stages: epoxy cationic electrocoating; second coat of rough finish stage with frosted silver and grap. acrylic paint
Standard supply: temperature control inside the device with automatic resetting. Complete with quick connection.
LED: Power factor ≥ 0.9 . Luminous flux maintenance 70% 60000h (L70B20).

		1782 Discovery - wide beam		
		CLD CELL		LED (Tj=25°C)
wattage 530mA	colour	weight	code	W
LED	silver + grap.	12.30	423215-00	63 Kelvin - ølm 530mA - CRI 4000K - 8946lm - CRI>70

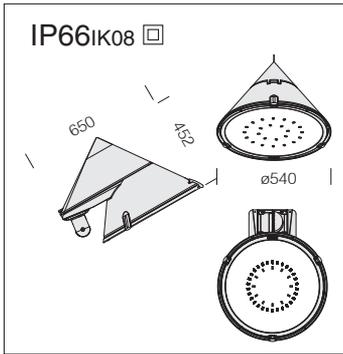


Optics: in PMMA, highly resistant to temperature and UV radiation.
LED: Luminous flux maintenance 70% 60000h (L70B20) Power factor ≥ 0.9

		1783 Discovery - asymmetric		
		CLD CELL		LED (Tj=25°C)
wattage 530mA	colour	weight	code	W
LED	silver + grap.	13.80	423216-00	72 Kelvin - ølm 530mA - CRI 4000K - 10224lm - CRI>70







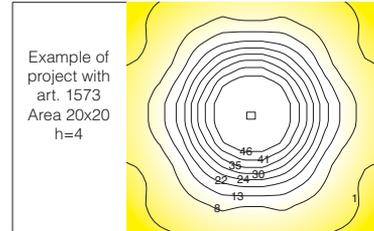
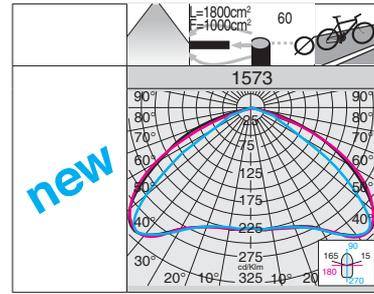
Housing: supplied with die-cast aluminium frame.

Diffuser: tempered glass, 5 mm thick, resistant to thermal shock and impacts.

Coating: in several stages.

Standard supply: temperature control inside the device with automatic resetting.

LED: Power factor ≥ 0.9 .
Luminous flux maintenance 70% 60000h (L70B20).



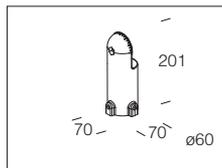
1573 Volo Power LED - wide beam					
		CLD CELL		W	LED (Tj=25°C)
wattage (350mA)	colour	weight	code	W	K - ølm 350mA - CRI
LED	silv. + graph.	11.40	424520-00	41	4000K - 6006lm - CRI>70

On request: possibility for the various options for managing the supply point (see table on p. XVII).

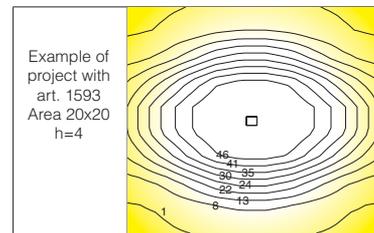
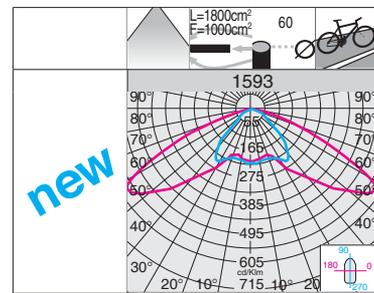
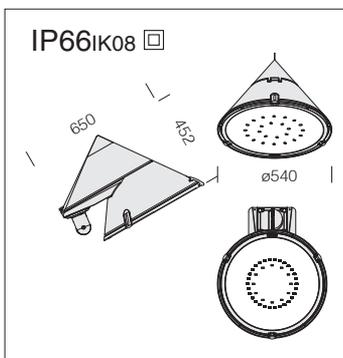
acc. 455 small pole connect.

graphite	991400-00
s. silver	991401-00

To be used to install art. Volo on Ø60 pole. Adjustable connection.



	Electrical Power	n.LED	W	ølm
Standard	350mA	42	41	6006 lm
On request	530mA	42	63	8946 lm



1593 Volo Power LED - cycleways					
		CLD CELL		W	LED (Tj=25°C)
wattage (350mA)	colour	weight	code	W	K - ølm 350mA - CRI
LED	silv. + graph.	11.40	424530-00	41	4000K - 6006lm - CRI>70

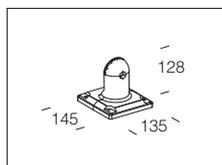
On request: possibility for the various options for managing the supply point (see table on p. XVII).



acc. 456 small wall connection

graphite	991402-00
s. silver	991403-00

To be used to install art. Volo on a wall. With anti-slip rack. Adjustable connection.



	Electrical Power	n.LED	W	ølm
Standard	350mA	42	41	6006 lm
On request	530mA	42	63	8946 lm









1767 Monza photovoltaic - Power LED				
		CLD CELL		
wattage	colour	weight	code	W
LED	s. silver	50,00	423067-00	26



Description:

The LED street light powered with a photovoltaic panel has a 24 LED module and is equipped with an innovative control unit with a microprocessor that manages each phase of the system to obtain an adequate LED lighting even under the most adverse weather conditions thanks to its MPPT (Maximum Power Point Tracker) system. The PV-powered LED lamps are compliant with lighting class 82 (EN 11248-EN13201).

Advantages and strengths:

Electricity from renewable sources (Zero CO2 emissions) generated directly from the in-built Photovoltaic Panel. - No electricity costs for using the LED lamp. - LED light has longer life, higher quality and is easier to adjust, no UV emissions and IR class. - No digging work or overhead lines are necessary to be connected to the electric grid. - Reduction of light pollution pursuant to the latest regional regulations. - Improved safety along public and private streets, in dark areas and along streets that cannot be technically accessed by electricity providers.

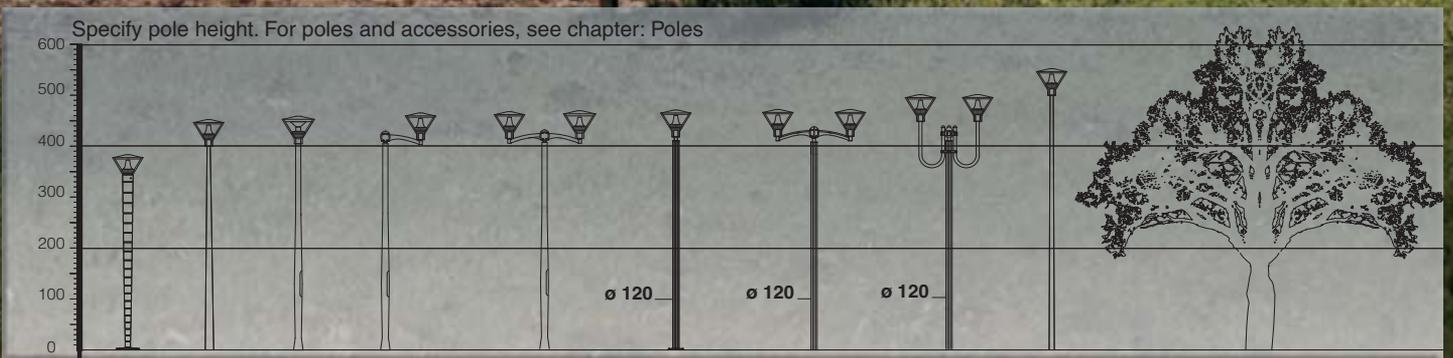
Description of operation cycle:

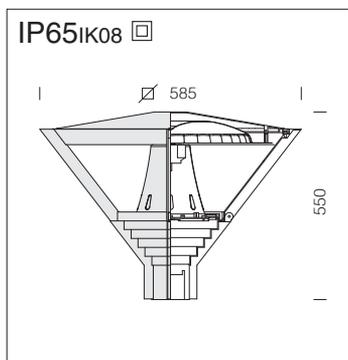
the system is equipped with a central control unit equipped with a latest generation microprocessor and MPPT function that can control the entire work cycle. During the day, the system transfers energy from the panel to the battery. At dusk, based on the settings, the central unit will start the dimmer mode, reducing by nearly 70% the initial nominal luminous flux. The dimmer mode is kept at evenings until the morning after. The dimming profile was designed with the intent to extend the battery life during prolonged periods of bad weather with poor sunlight, typical of the autumn and winter seasons. During the night-time mode, the system activates the "motion sensor" that detects the presence of people and vehicles approaching the pole and turns on the LED light at its maximum luminosity, then resetting it to the initial levels.

Upon request:

Lighting system with solar panel that is totally independent from any external power supply. Designed for pole mounting with hold ø 89. Lighting for public and private streets with limited vehicle traffic, pedestrian routes, emergency lanes, squares, public parks and private gardens, parking areas, cycle lanes, internal streets of hospital complexes, schools, and industrial sites, harbours, beaches, lakesides, railway and motorway passageways, lighting for zones where without a nearby electric grid or where connection is too expensive or technically impossible.

Box container and support	Standard version: bearing structure in stainless steel. The box enables to slope the PV panel of nearly 60 degrees. Weight of box + battery and PV panel ca. 50Kg (tot. weight + connectors and fixture ca. 60Kg).
Photovoltaic Panel	High performance, monocrystalline, 36 cell solar module, with 100Wp, TUV (IEC 61215:2005), dim. 1200x540 mm
Board with 24 LED	From min. 100Lum/watt with high-efficiency secondary optics, capable of delivering an adequate luminous flux at nearly 4m / 6m from ground level. LED with colour temperature: Warm white (ca. 3000K), Natural white (ca. 4000K) and Cool white (ca. 6000K). Colour rendering index ranges from 85 to 75. LED with "Operating Life" depending on manufactures of nearly 100,000 hours, with initial performance decay of nearly 30% after 50,000 hours.
Nominal power	24 W (at nearly 30% reduced power)
Fixture (Monza)	Standard in die-cast aluminium s. silver coating, IP66, with tempered glass, 5mm thick.
Central unit with a microprocessor	Capable of managing the different phases: MPPT of the solar panel, LED piloting, dimming, battery life, crepuscular start and motion sensor, timer-calendar, supplied and protected in resin.
Motion Sensor	42A/h "motion sensor". Sensor capable of detecting passage and presence under the lamp within a range of nearly 10-15m, useful to optimize energy consumptions, lamp life, lighting pollution.
Battery	High-performance, lead-acid, with adequate capacity, maintenance free, long life expectancy
Wiring Kit	It uses IP66-67 connectors and connection points (vs FV panel and LED) are resin -coated.
Pole connector	Made of a galvanized and flanged tube. Coating upon request.
4m-5m pole	Available upon request, see "Instructions for use and installation" for further info. Before selecting the appropriate pole, make all necessary wind pressure resistance tests, pursuant to the Standards or Legislative Decrees in force in the countries where the pole will be mounted. Our poles have a diameter of nearly 89 mm at top pole.





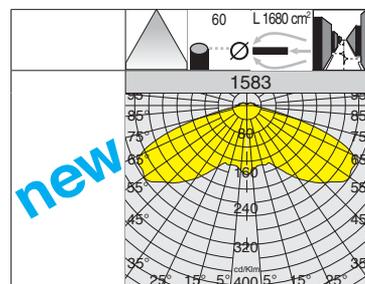
Housing/Frame: in die-cast aluminium.

Reflector: made of satin aluminium.

Diffuser: in vandal-resistant V2 self-extinguishing polycarbonate, UV-stabilized, smooth and clear.

Equipment: Complete with quick-connector for connection to the line.

LED: Power factor ≥ 0.9 .
Luminous flux maintenance
70% 50000h (L70B50)



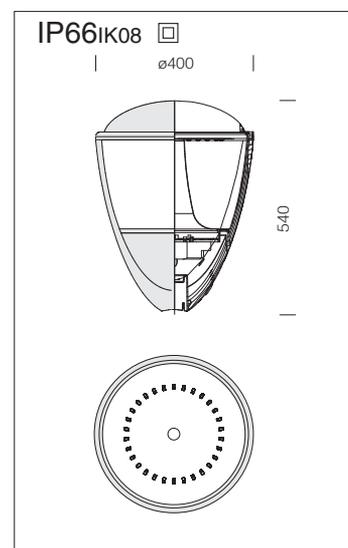
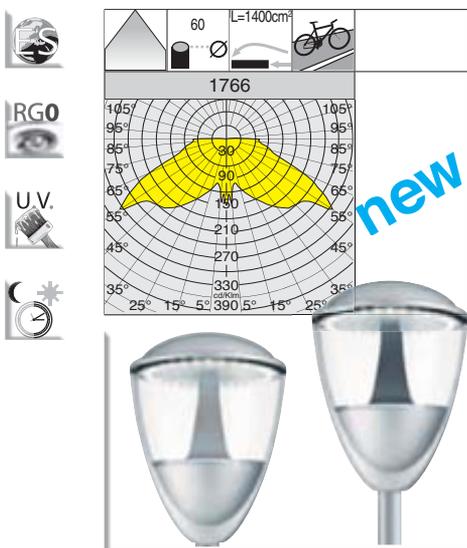
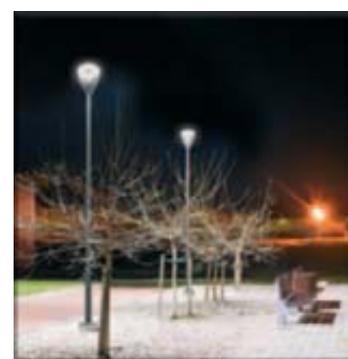
1583 Vista - Power LED - COB System					
		CLD CELL		W	LED (Tp=25°C)
wattage (1400mA)	colour	weight	code	52	K - ølm (1400mA)
LED	graphite	13.30	422212-00		4000K - 6000lm - CRI \geq 80
LED	s. silver	13.30	422213-00		
On request: possibility for the various options for managing the supply point (see table on p. XVII).					
1583 Vista - Power LED - COB System - light pollution preveting optical system					
		CLD CELL		W	LED (Tp=25°C)
wattage (1400mA)	colour	weight	code	52	K - ølm (1400mA)
LED	graphite	13.30	422212-0016		4000K - 6000lm - CRI \geq 80
LED	s. silver	13.30	422213-0016		
On request: possibility for the various options for managing the supply point (see table on p. XVII).					



Housing/Frame: made in die-cast aluminium.

Diffuser: in transparent, vandal-resistant and V2 self-extinguishing polycarbonate, UV-stabilized

Equipment: these lighting fixtures also come with an automatic temperature control device, which protects the LEDs from peak current. Complete with quick connection.



1766 Lanterna - Power LED					
		CLD CELL		W	LED (Tj=25°C)
wattage (350mA)	colour	weight	code	29	K - ølm 350mA - CRI
LED	s. silver	4.50	424080-00		4000K - 4290lm - CRI 70
LED	graphite	4.50	424081-00		

On request: possibility for the various options for managing the supply point (see table on p. XVII).

LED: Lanterna Power LED is equipped with 30 latest generation LED modules with 130°x70° degrees lens to obtain an elevated lighting yield.

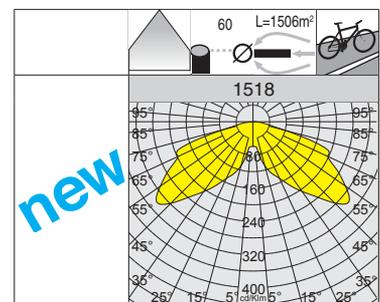
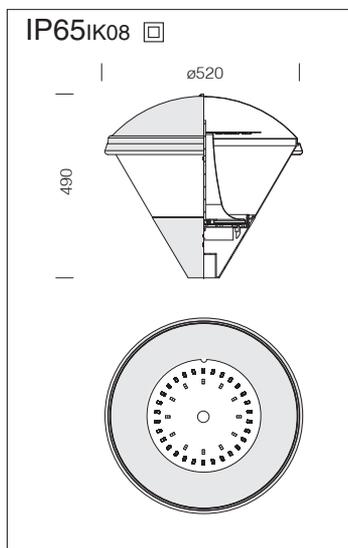
LED: Luminous flux maintenance 70%: 60000h (L70B20).

Housing: made of die-cast aluminium.

Cover: made of an aluminium plate.

Diffuser: in vandal-resistant V2 self-extinguishing polycarbonate, UV-stabilized.

Equipment: these lighting fixtures also come with an automatic temperature control device, which protects the LEDs from peak current. Complete with quick-connector for connection to the line.



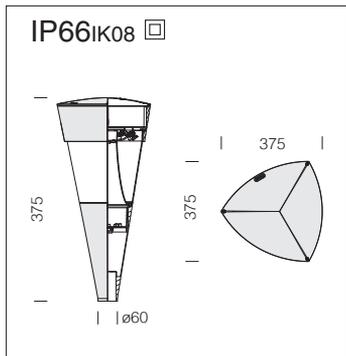
- RGO
- U.V.
- ZONA 1

LED: Clima Power LED is equipped with 30/42 latest generation LED modules with 130°x70° degrees lens to obtain an elevated lighting yield.

LED: Luminous flux maintenance 70%: 60000h (L70B20).

1517 Clima - Power LED					
		CLD CELL		W	LED (Tj=25°C)
wattage (350mA)	colour	weight	code		K - ølm 350mA - CRI
LED	s. silver	5.90	422372-00	29	4000K - 4290lm - CRI 70
LED	graphite	5.90	422373-00		
LED	s. silver	5.90	422370-00	41	4000K - 6006lm - CRI >70
LED	graphite	5.90	422371-00		
On request: possibility for the various options for managing the supply point (see table on p. XVII).					
1518 Clima - Power LED - anti-light pollution					
		CLD CELL		W	LED (Tj=25°C)
wattage (350mA)	colour	weight	code		K - ølm 350mA - CRI
LED	s. silver	5.90	422380-00	41	4000K - 6006lm - CRI >70
LED	graphite	5.90	422381-00		
On request: possibility for the various options for managing the supply point (see table on p. XVII).					





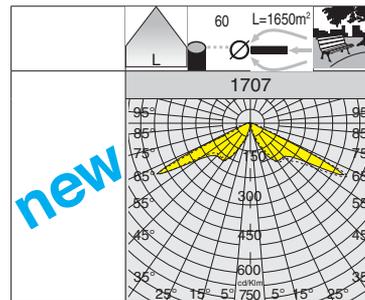
Housing/cover: in vandal-resistant V2 self-extinguishing polycarbonate, UV-stabilized.

Optics: Optics made of PMMA with high temperature resistance and UV rays. Flow recovery in V0 polycarbonate, metallized high yield.

Diffuser: in transparent, vandal-resistant and V2 self-extinguishing polycarbonate, UV-stabilized

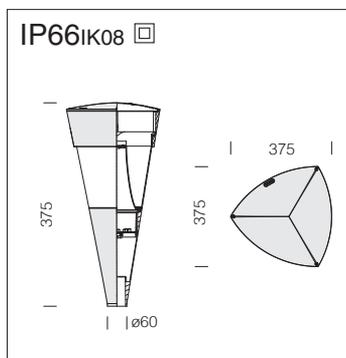
Equipment: complete with quick connection.

LED: Power factor ≥ 0.9
Luminous flux maintenance 70% 60000h (L70B20).



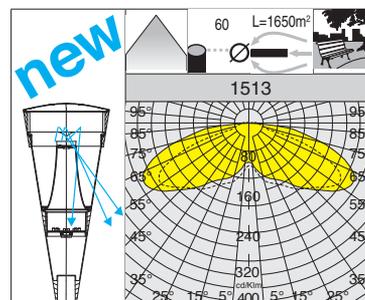
1707 Torcia Power LED - high performance					
		CLD CELL		W	LED (Tj=25°C)
wattage (700mA)	colour	weight	code		K - ølm (700mA)
LED	s. silver	7.40	423252-00	47	4000K - 6408lm - CRI 70
LED	graphite	7.40	423253-00		

On request: possibility for the various options for managing the supply point (see table on p. XVII).



Reflector art. 1513: made of specular aluminium

LED: Power factor ≥ 0.9
Luminous flux maintenance 70% 50000h (L70B50).

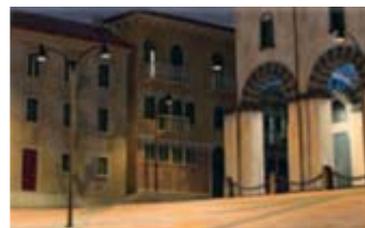
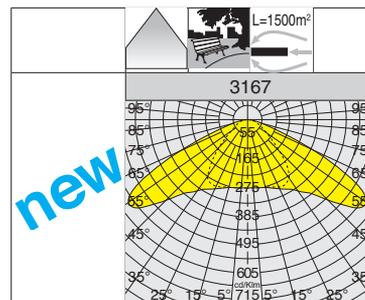
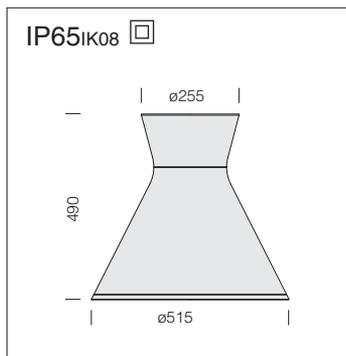


1513 Torcia - Power LED - COB System					
		CLD CELL		W	LED (Tp=25°C)
wattage (1400mA)	colour	weight	code		K - ølm (1400mA) - CRI
LED	s. silver	7.40	423250-00	52	4000K - 6000lm - CRI ≥ 80
LED	graphite	7.40	423251-00		

On request: possibility for the various options for managing the supply point (see table on p. XVII).







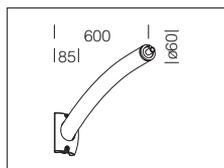
Housing/Frame: in die-cast aluminium, can be installed using acc. hook, rods or arms.

Diffuser: tempered glass, 5 mm thick, resistant to thermal shock and impacts

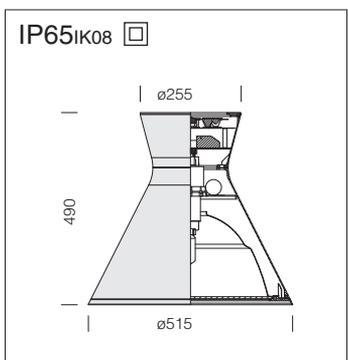
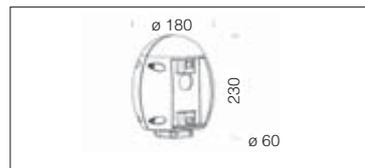
3167 Iride - Power LED - direct light					
		CLD CELL		W	LED (Tj=25°C)
wattage (350mA)	colour	weight	code		K - ølm 350mA - CRI
LED	s. silver	11,50	326571-00	41	4000K - 6006lm - CRI>70

On request: possibility for the various options for managing the supply point (see table on p. XVII).

acc. 382 curved arm	
s. silver	326506-00
To be used with access. 300 for Iride installation.	



acc. 300 Oliva connector	
s. silver	426970-00
Made of aluminium. To be installed on ø60.	



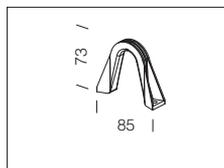
Supplied complete with Master/Slave and IRE receiver.

acc. 65 Remote control LED RGB	
black	986507-00
On-Off function, mixing and colour transition.	

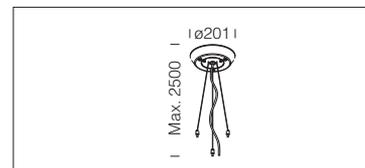
3166 Iride - direct/indirect light with Power LED RGB					
		CNRL + CLD CELL		W	LED (Tj=25°C)
wattage (350mA)	colour	weight	code		ølm 350mA
CDO-TT150 + LED RGB	s. silver	11,50	326570-00	150 + 4x3,3	R=40lm - G=90lm - B=30lm

On request: possibility for the various options for managing the supply point (see table on p. XVII).

acc. 329 susp. connection	
s. silver	998060-00
Die-cast aluminium. Always to be used for suspended applications	

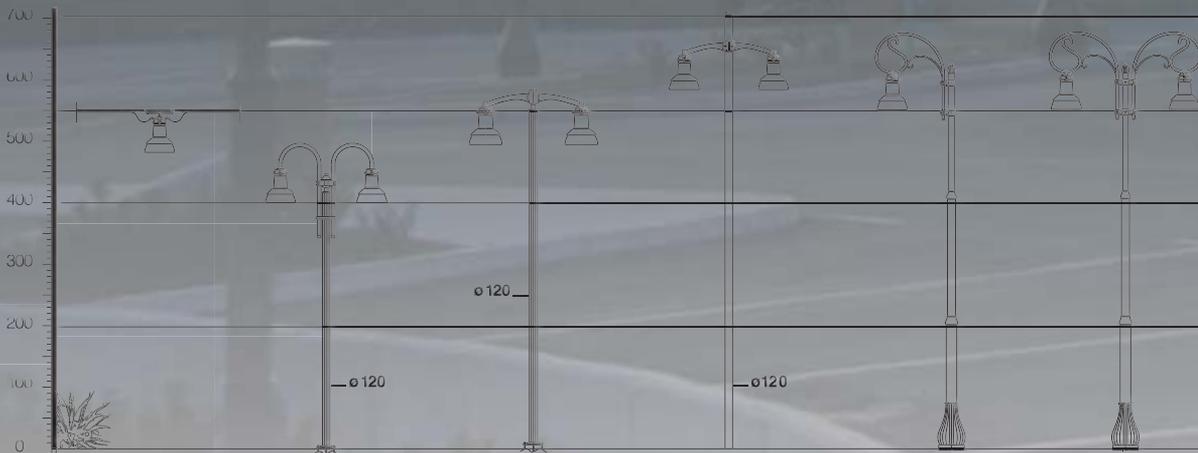


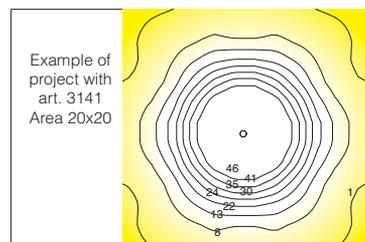
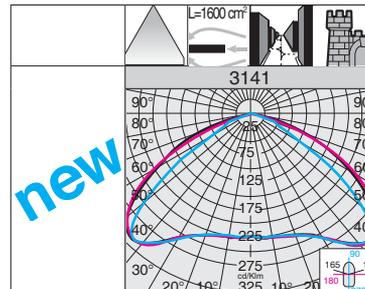
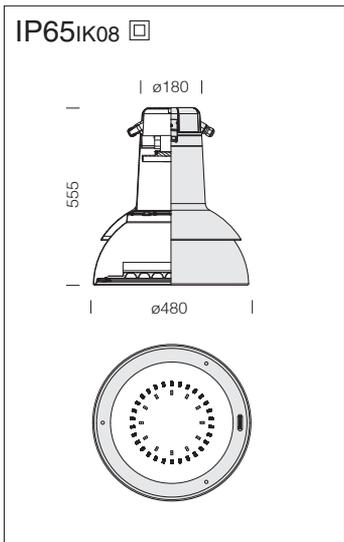
acc. 380 suspension	
s. silver	326500-00
Die-cast aluminium. Supplied with three steel cable. To be used with direct/ indirect light fixtures..	





Specify pole height. For poles and accessories, see chapter: Poles





Housing: made of die-cast aluminium.
Diffuser: tempered glass, 4 mm thick, resistant to thermal shock and impacts.

Equipment: These lighting fixtures also come with an automatic control temperature device, which protects the LEDs from peak current through a protection diode.

Optics: in high-efficiency, metal-coated V0 polycarbonate, matt finish and micro-facetted to reduce direct glare.

LED: Power factor ≥ 0.9 .

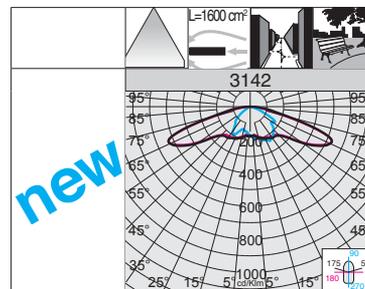
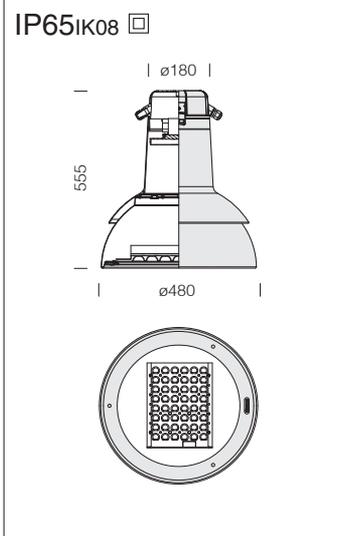
Luminous flux maintenance 70% 60000h (L70B20).

3141 Campana - Power LED

		CLD CELL			LED (Tj=25°C)	
wattage	colour	weight	code	W	K - ølm 530mA - CRI	
350mA	graphite + white	8,30	326780-00	63	4000K - 8946lm - CRI>70	

On request: possibility for the various options for managing the supply point (see table on p. XVII).

	Electrical Power	n.LED	W	ølm
On request	350mA	42	41	6870 lm
Standard	530mA	42	63	8946 lm

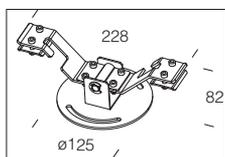


LED: Power factor ≥ 0.9 .
 Luminous flux maintenance 70% 60000h (L70B20)

3142 Campana - Power LED

		CLD CELL			LED (Tj=25°C)	
wattage	colour	weight	code	W	K - ølm - 530mA - CRI	
410mA	graphite + white	8,30	326785-00	96	4000K - 11040lm - CRI>70	

On request: possibility for the various options for managing the supply point (see table on p. XVII).

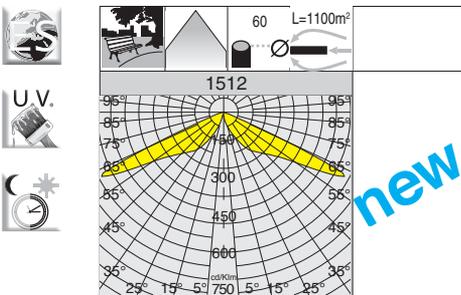


acc. 56 suspension connection

0.70	995727-00
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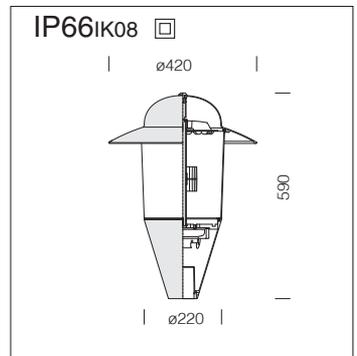
Made of stainless steel AISI 304. For installation on rope and steel cables of Campana.





Standard equipment: with green interior finish.

Upon request: with red interior.

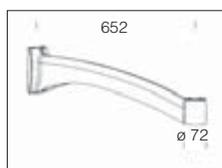


Housing/Cover: made of die-cast aluminium.

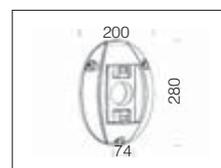
Diffuser: in vandal-resistant V2 self-extinguishing polycarbonate, UV-stabilized.

Equipment: Complete with quick connection.

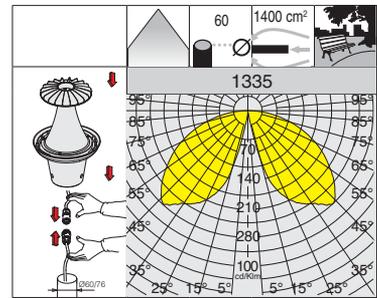
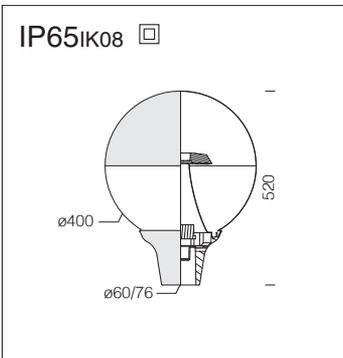
1512 Bastia - Power LED					
		CLD CELL		W	LED (Tj=25°C)
wattage (500mA)	colour	weight	code		K - olm 500mA
LED	graphite	5.90	424230-00	34	4000K - 4823lm



acc. 301 arm Oliva
 graphite 426973-00
 Made of aluminium. To be used with acc. 300 for pole mounting or acc. 300 for wall mounting.



acc. 302 wall mounting
 graphite 426975-00
 Made of aluminium To be installed with acc. 301 on the wall arm.



Globe: in shatterproof and self-extinguishing V2 polycarbonate, UV-stabilised and anti-yellowing. Excellent transparency for perfect light penetration. The top part is coated to comply with anti-lighting pollution requirements.

Base: in die-cast aluminium.

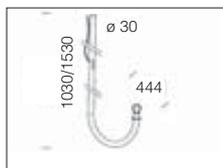
Central cone: in black painted aluminium against light pollution.

Equipment: complete with plug-socket for quick installation.

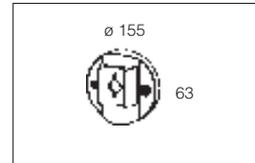
1335 Globo LED - anti-light pollution

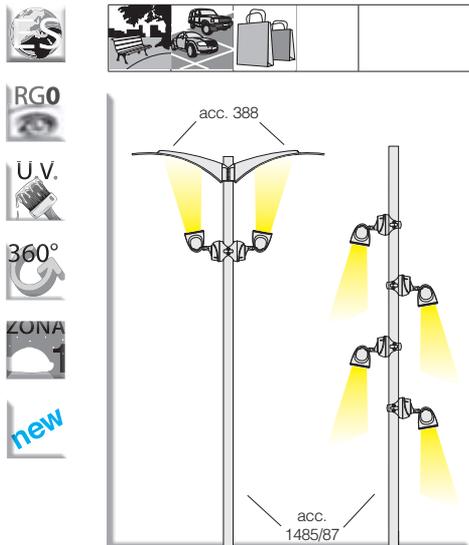
		CLD CELL		LED (Tj=25°C)	
wattage (150mA)	colour	weight	code	W	K - ølm 150mA - CRI
LED	silver	4,50	425600-00	24	4000K - 2000lm - CRI 80

acc. 1362 upward arm	
1000 s. silver	426906-00
1500 s. silver	426907-00
Steel.	

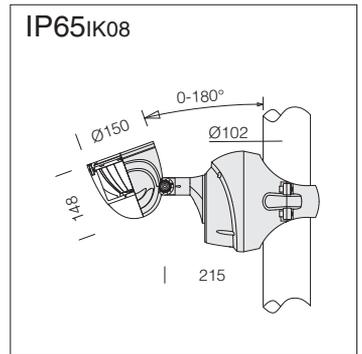


acc. 1361 wall mounting	
s. silver	426987-00
Die-cast aluminium spacer and base. To install arms acc 1362.	





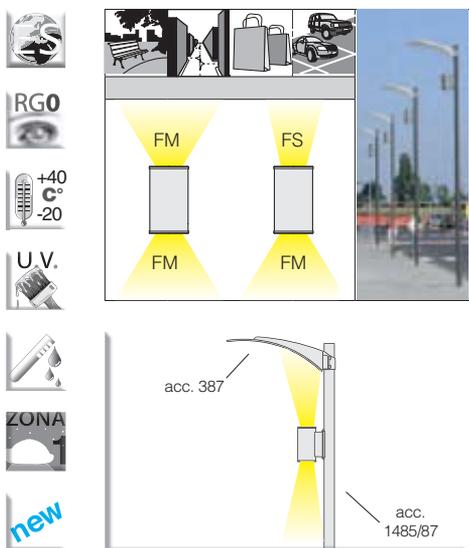
- RG0
- U.V.
- 360°
- ZONA
- new



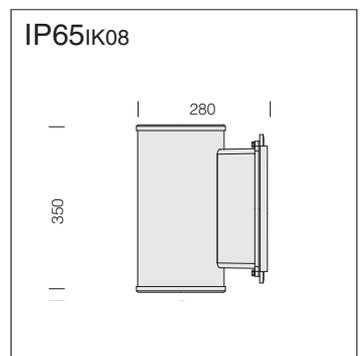
Housing: die-cast aluminium.
Diffuser: tempered shock and heat resistant 4mm thick glass.
LED: Luminous flux maintenance 70% 50000h (L70B50)
 Power factor ≥ 0.95



1561 Elfo Power LED - COB System					
		CLD CELL		LED (Tp=25°C)	
wattage	colour	weight	code	W	K - ølm 1050mA - degrees
LED	s. silver	2.60	422398-00	40	4000 K - 5000lm - CRI ≥ 80 - 40°



- RG0
- +40
-20
- U.V.
- ZONA
- new

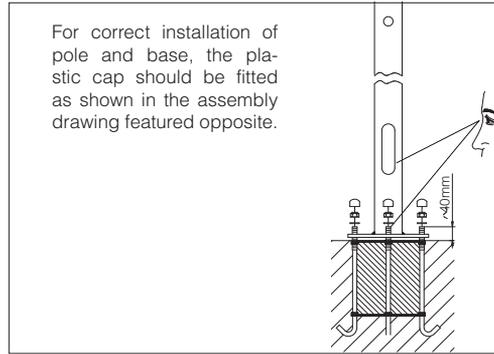
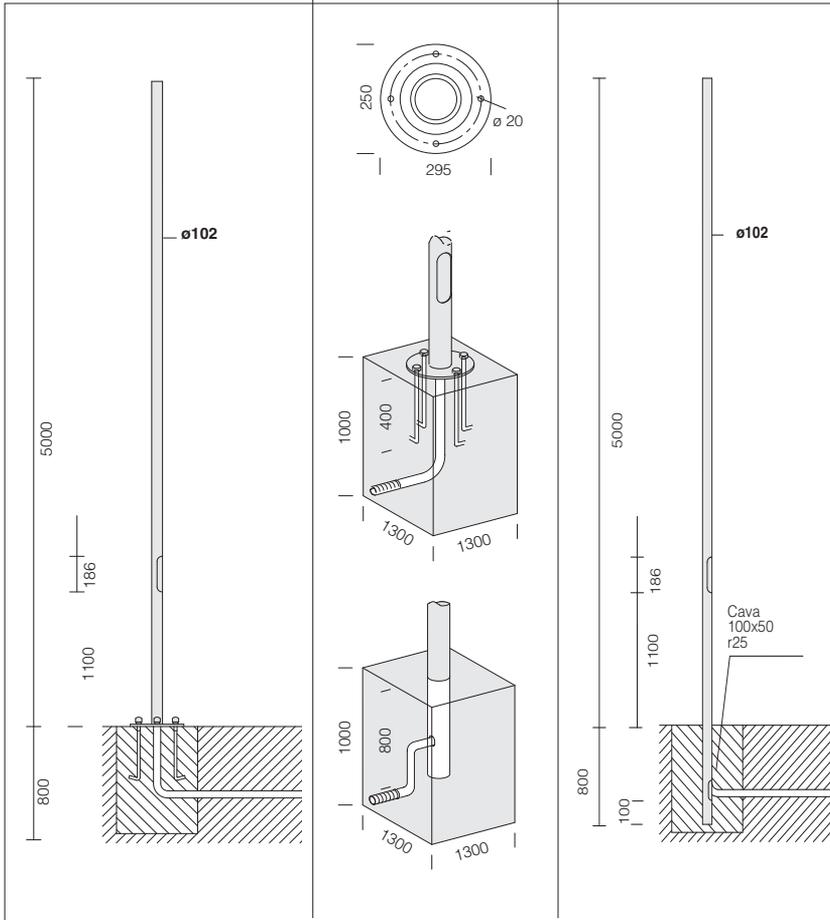


Housing: die-cast aluminium.
Diffuser: tempered glass, 4 mm thick, shock and heat resistant
LED: Luminous flux maintenance 70% 50000h (L70B50)
 Power factor ≥ 0.95



1293 Cilindro 4 - LED					
		CLD CELL		LED (Tp=25°C)	
potenza 700mA	colour	weight	code	W	K - ølm 700mA
LED	s. silver	6.90	420410-00	39	4000K - 3000+1700lm - FM+FM
LED	s. silver	6.90	420427-00		4000K - 3000+1700lm - FS+FM

Standard version includes double switching.

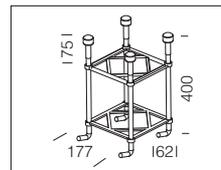


For correct installation of pole and base, the plastic cap should be fitted as shown in the assembly drawing featured opposite.

Pole designed for Pegaso: \varnothing 102 silver colour steel. Complete with inspection window with removable terminal block. Single or double polyester plate to create indirect lighting effects. To be used mounted directly on the pole together with the fittings of the various products to install Pegaso on the poles - access. 1485/87.

acc. 1487 pole to be buried in the ground	
5000+800	s. silver 425060-00

acc. 1485 pole with base	
5000	s. silver 425070-00

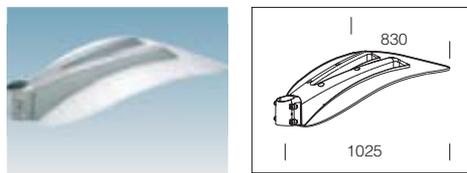
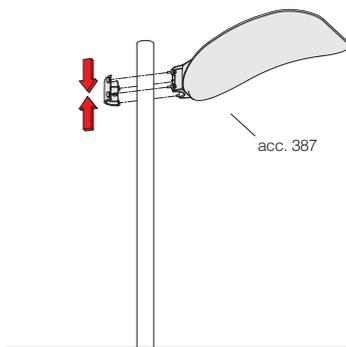


acc. 299 log bolts	
	991396-00
Log bolts are to be always used with the pole 1485.	

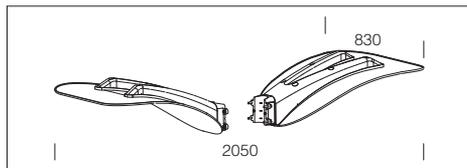
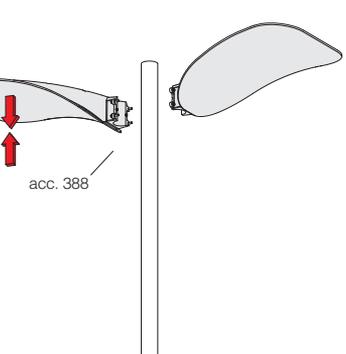
NOTE: before selecting the appropriate pole, make all necessary wind pressure resistance tests, pursuant to the Standards or Legislative Decrees in force in the countries where the pole will be mounted.

Housing Pegaso: 6 mm. thick fibreglass reinforced polyester

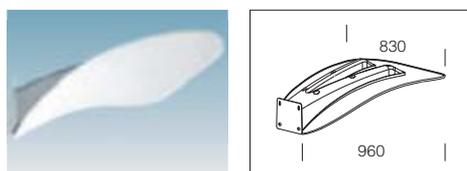
Support: die-cast aluminium with pole connection also made of die-cast aluminium.



acc. 387 Pegaso single	
s. silver	991391-00
Indirect light plate to be mounted directly on the pole - access.1485/1487.	



acc. 388 Pegaso double	
s. silver	991392-00
Indirect light plate to be mounted directly on the pole - access.1485/1487.	



acc. 389 Pegaso wall mount.	
s. silver	991393-00
Indirect light plate to be mounted directly on the wall.	





**FLUTED POLES**

Ø 100	p. 68
Ø 120	p. 70

POLE

"CONE-SHAPED" p. 72

POLE "URBAN" p. 74

STEEL POLE

Ø 102 p. 76

POLE "LIBERTY" p. 78

POLE "VIRGOLA" p. 80

Ø 120 p. 82

Ø 120 p. 83

ACCESSORIES

"SECTOR" p. 86

"OLIVA" p. 87

"CORONA Ø100" p. 88

"CORONA Ø120" p. 89

"CUBO LIONE" p. 90

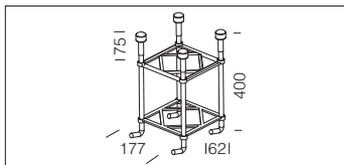
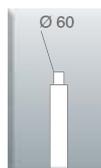
Fluted pole made of extruded aluminium, anodised by 15/20 μ thick tin salt electrocoating; graphite or natural oxidised colour.

With die-cast inspection window (186x45mm), protective fuse holder, 16A fuse, 4-pole/3-way removable terminal block = 10 sqmm, 2,5 sqmm connection. With hole for insertion of power supply cable. Die-cast aluminium adapter, \varnothing 60 mm. For the version with base, 4 log bolts to be sunk into the ground, bolts and lids have to be purchased.

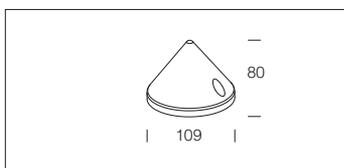
Standard insulation class II.

When using Insulation Class I fixtures, appropriate grounding connections should be included in the system.

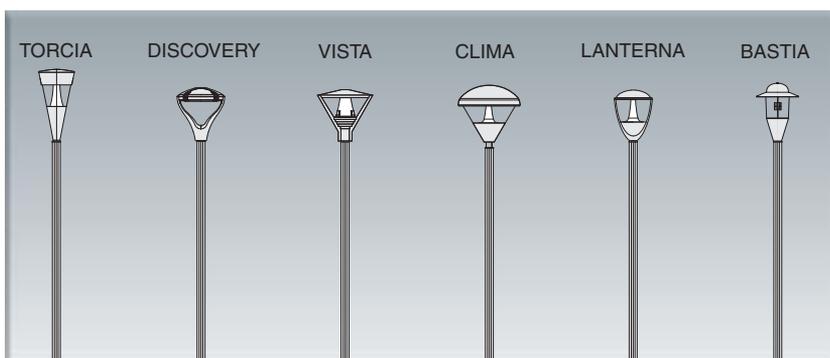
NOTE. Before selecting the appropriate pole, make all necessary wind pressure resistance tests, pursuant to the Standards or Legislative Decrees in force in the countries where the pole will be mounted and based on the assumed loads specified in Standard EN 40-3-1

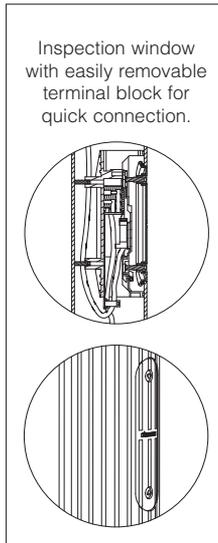
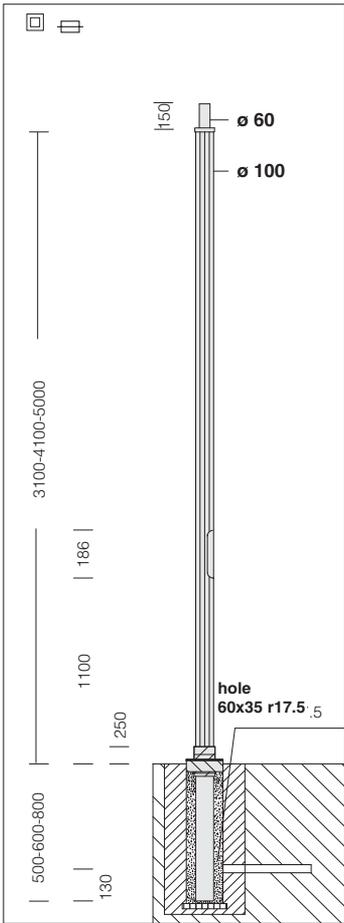


acc. 299 log bolts	
991396-00	
Log bolts are to be always bought with the pole 1408.	

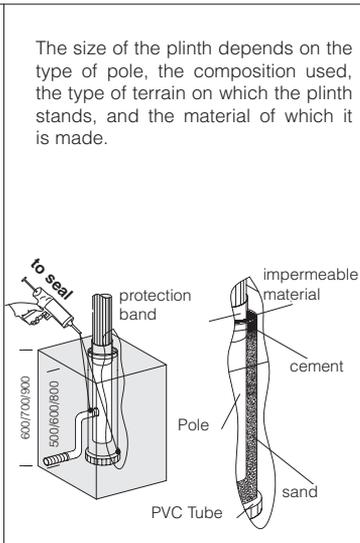


acc. 367 cover for poles	
ox. nat.	426998-00
graphite	426997-00
Made of aluminium. To be used when a particular aesthetic finish is desired.	





Inspection window with easily removable terminal block for quick connection.

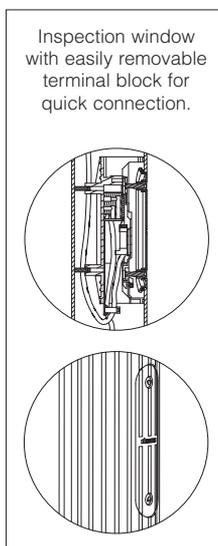
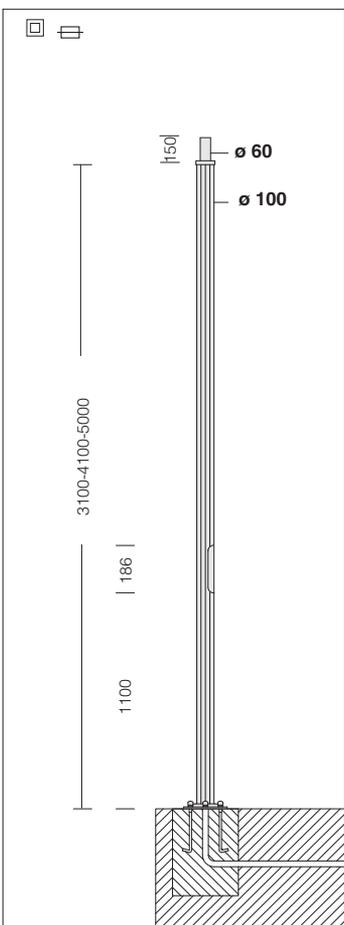


The size of the plinth depends on the type of pole, the composition used, the type of terrain on which the plinth stands, and the material of which it is made.

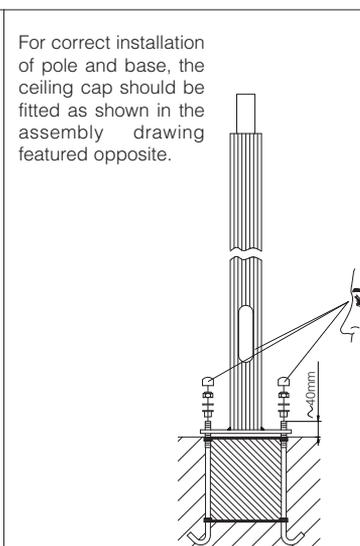


acc. 1409 fluted pole \varnothing 100

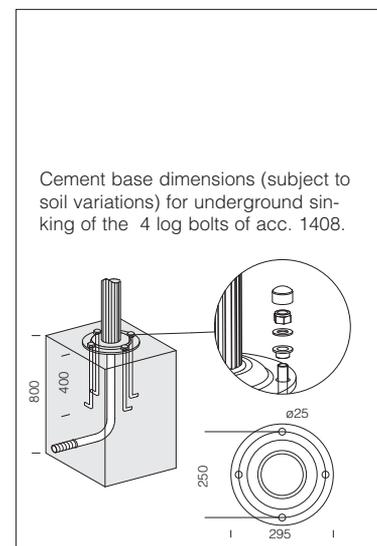
colour	code								
oxy natural	426334-00	3600	3100	500	1100	186	45	\varnothing 100	\varnothing 60
oxy natural	426335-00	4700	4100	600					
oxy natural	426336-00	5800	5000	800					
graphite	426327-00	3600	3100	500					
graphite	426328-00	4700	4100	600					
graphite	426329-00	5800	5000	800					



Inspection window with easily removable terminal block for quick connection.



For correct installation of pole and base, the ceiling cap should be fitted as shown in the assembly drawing featured opposite.



Cement base dimensions (subject to soil variations) for underground sinking of the 4 log bolts of acc. 1408.

acc. 1408 fluted pole with base \varnothing 100

colour	code								
oxy natural	426337-00	3100	1100	186	45	\varnothing 100	\varnothing 60	\varnothing 295 hole	\varnothing 25
oxy natural	426338-00	4100							
oxy natural	426339-00	5000							
graphite	426324-00	3100							
graphite	426325-00	4100							
graphite	426326-00	5000							

Log bolts are to be bought separately acc. 299.



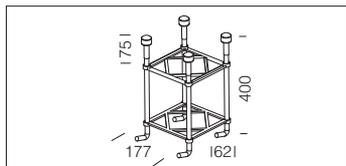
Fluted pole made of extruded aluminium, anodised by 15/20 μ thick tin salt electrocoating; graphite or natural oxidised colour.

With die-cast inspection window (186x45mm), protective fuse holder, 16A fuse, 4-pole/3-way=10mm², derivation 2,5 sqmm, removable terminal block = 6 sqmm, 4 sqmm connection. With hole for insertion of power supply cable. Die-cast aluminium adapter, \varnothing 60 mm.

For the version with base, 4 log bolts to be sunk into the ground, bolts and lids have to be purchased. Standard insulation class II.

When using Insulation Class I fixtures, appropriate earthing connections should be included in the system.

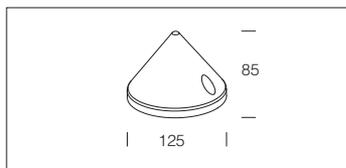
NOTE. Before selecting the appropriate pole, make all necessary wind pressure resistance tests, pursuant to the Standards or Legislative Decrees in force in the countries where the pole will be mounted and based on the assumed loads specified in Standard EN 40-3-1



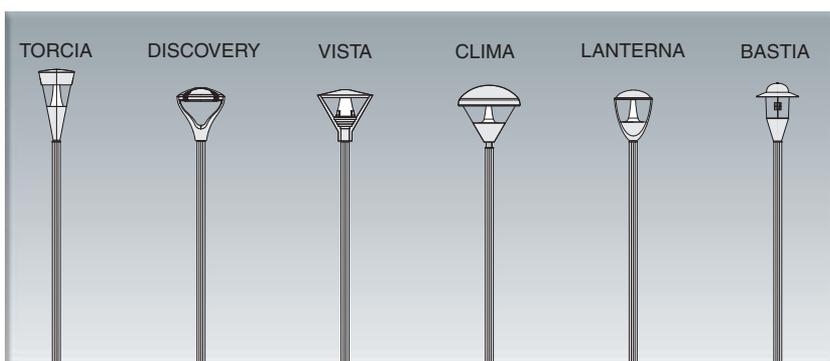
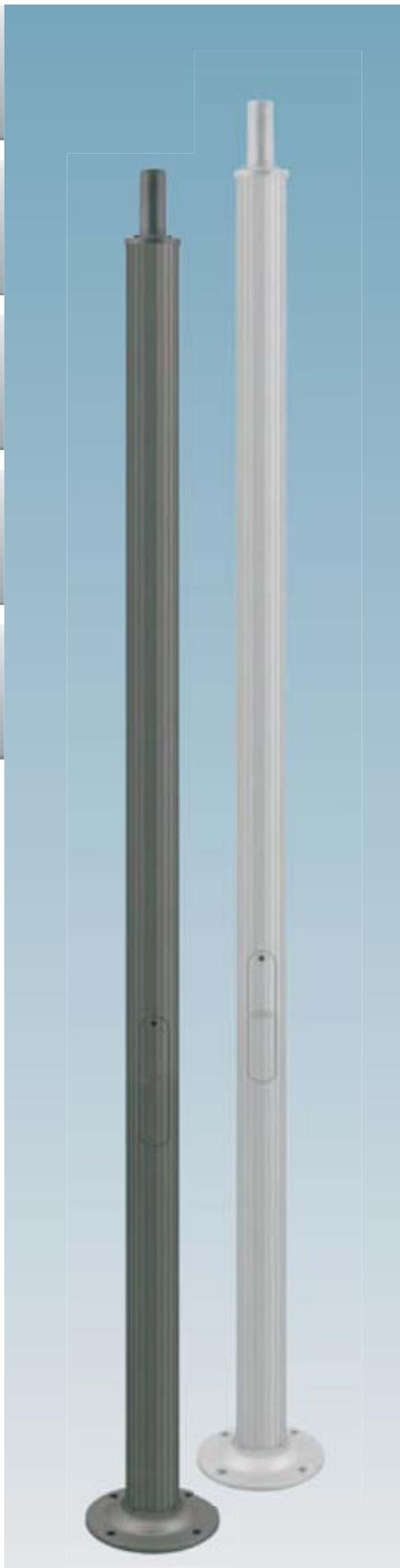
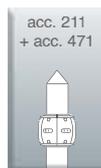
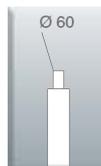
acc. 299 log bolts	
991396-00	
Log bolts are to be always used with the pole 1508.	

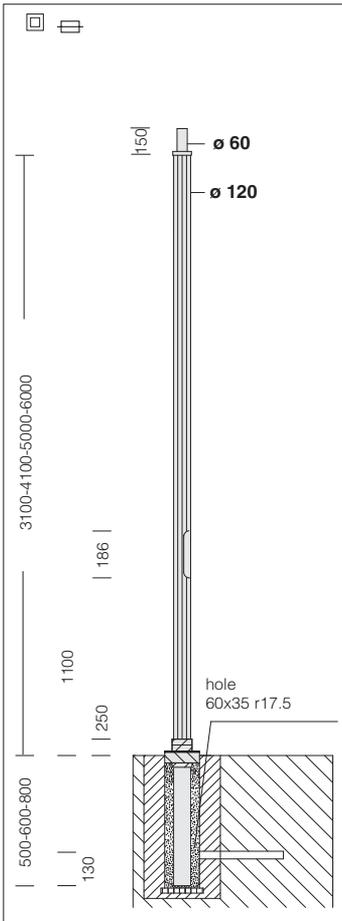


acc. 222 base pole cover	
s. silver	991378-00
graphite	991381-00
Made of die-cast aluminium. To be used as base pole cover acc. 1508.	



acc. 471 acc. 367 cover for poles	
ox. nat.	991461-00
graphite	991462-00
Made of aluminium. To be used when a particular aesthetic finish is desired.	





Inspection window with easily removable terminal block for quick connection.

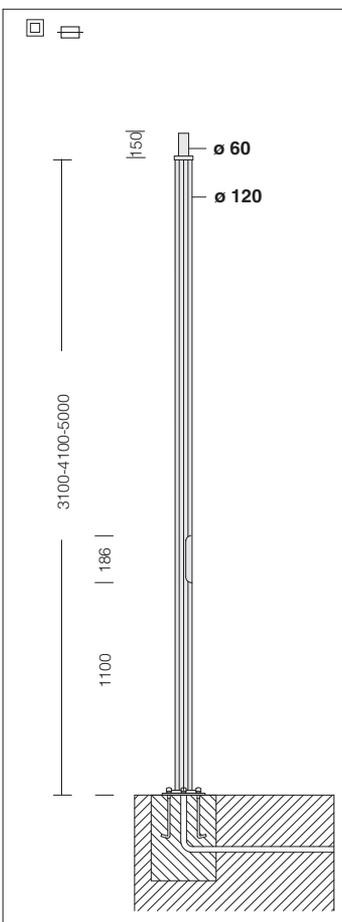
The size of the plinth depends on the type of pole, the composition used, the type of terrain on which the plinth stands, and the material of which it is made.



POLES

acc. 1509 fluted pole \varnothing 120

colour	code								
oxy natural	426374-00	3600	3100	500	1100	186	45	\varnothing 120	\varnothing 60
oxy natural	426375-00	4700	4100	600					
oxy natural	426376-00	5800	5000	800					
oxy natural	426373-00	6800	6000	800					
graphite	426366-00	3600	3100	500					
graphite	426367-00	4700	4100	600					
graphite	426368-00	5800	5000	800					
graphite	426369-00	6800	6000	800					



Inspection window with easily removable terminal block for quick connection.

For correct installation of pole and base, the ceiling cap should be fitted as shown in the assembly drawing featured opposite.

Cement base dimensions (subject to soil variations) for underground sinking of the 4 log bolts of acc. 1508.



acc. 1508 fluted pole with base \varnothing 120

colour	code							
oxy natural	426377-00	3100	1100	186	45	\varnothing 120	\varnothing 60	\varnothing 295
oxy natural	426378-00	4100						
oxy natural	426379-00	5000						
graphite	426362-00	3100						
graphite	426363-00	4100						
graphite	426364-00	5000						

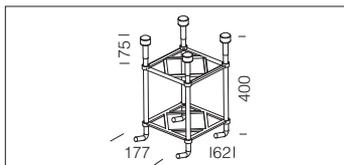
Log bolts are to be bought separately acc. 299.

Tapered steel lighting pole. With hole for insertion of power supply cable, pole-head connection, $\varnothing 60$.

For the version with base, 4 log bolts to be sunk into the ground, bolts and lids have to be purchased. Size of inspection window 38x132 (h 3 000) - 45x186 (h 4000-5000-6000-7000-8000), supplied with protection fuse holder, 2 fuses, 16A, removable terminal block, 4 poles/3 holes = 10sqmm and shunt 2,5sqmm.

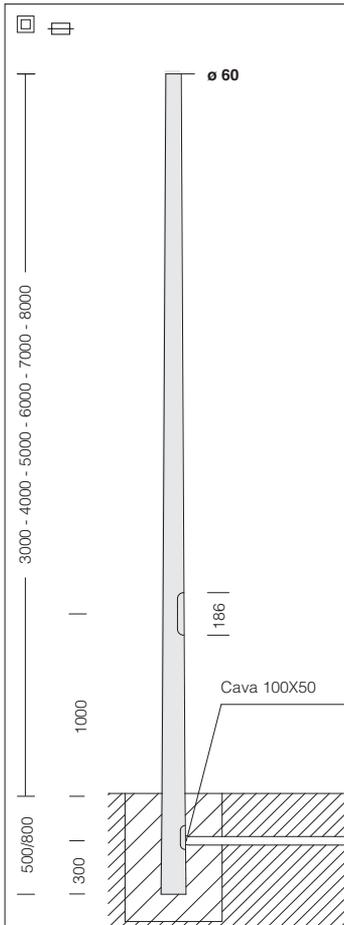
Standard insulation class II. When using Insulation Class I fixtures, appropriate grounding connections should be included in the system.

NOTE: The possibility to attach an assembly to the pole is subject to a wind pressure resistance assessment in the areas regulated by CNR-UNI standard 10032-67, according to load assumptions in UNI standard 40/6.



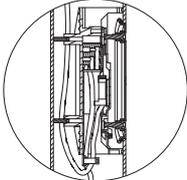
acc. 299 log bolts	
h=3000/4000/5000/6000	991396-00
h=7000/8000	991314-00
Log bolts are to be always used with the 1480.	



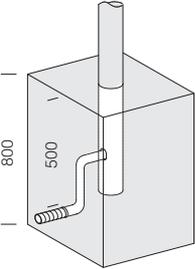


ON REQUEST
Possibility of supplying poles with the following colour paint finishes:
RAL 3003, 5011, 7026, 9011, 8015, 5002 7024, 7016, 9006, 7037, 6004, 8019, 6011, 7022, 1015, 9010.

Inspection door with easily removable terminal board for quick connection.



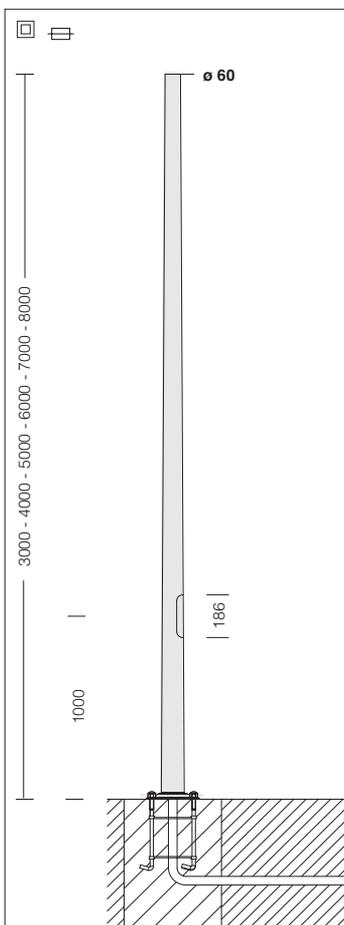
Concrete base dimensions (subject to soil variations).





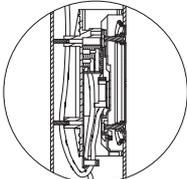
acc. 1481 - steel cone-shaped to be buried-with window

colour	code									
s. silver	425150-00	3500	3000	500	1000	186	45	Ø 89	Ø 60	
s. silver	425151-00	4500	4000	500						Ø 89
s. silver	425152-00	5500	5000	500						Ø 102
s. silver	425153-00	6800	6000	800						Ø 127
s. silver	425158-00	7800	7000	800						Ø 127
s. silver	425167-00	8800	8000	800						Ø 139
graphite	425154-00	3500	3000	500						Ø 89
graphite	425155-00	4500	4000	500						Ø 89
graphite	425156-00	5500	5000	500						Ø 102
graphite	425157-00	6800	6000	800						Ø 127
graphite	425159-00	7800	7000	800						Ø 127
graphite	425168-00	8800	8000	800						Ø 139

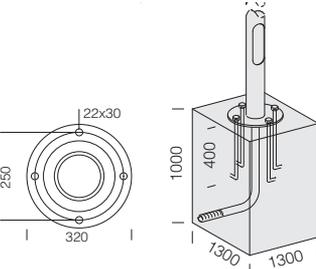


ON REQUEST
Possibility of supplying poles with the following colour paint finishes:
RAL 3003, 5011, 7026, 9011, 8015, 5002 7024, 7016, 9006, 7037, 6004, 8019, 6011, 7022, 1015, 9010.

Inspection door with easily removable terminal board for quick connection.



Concrete base dimensions (subject to soil variations).





acc. 1480 - steel cone-shaped with base-with window

colour	code								
s. silver	425050-00	3000	1000	186	45	Ø 89	Ø 60	Ø 320 hole Ø 22x30	
s. silver	425051-00	4000							Ø 89
s. silver	425052-00	5000							Ø 102
s. silver	425053-00	6000							Ø 127
s. silver	425058-00	7000							Ø 127
s. silver	425067-00	8000							Ø 139
graphite	425054-00	3000							Ø 89
graphite	425055-00	4000							Ø 89
graphite	425056-00	5000							Ø 102
graphite	425057-00	6000							Ø 127
graphite	425059-00	7000							Ø 127
graphite	425068-00	8000							Ø 139

Log bolts are to be bought separately acc. 299.

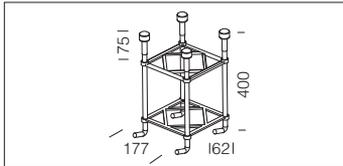
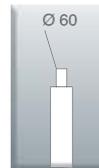


Tapered steel lighting pole. With hole for insertion of power supply cable, pole-head connection, $\varnothing 60$.

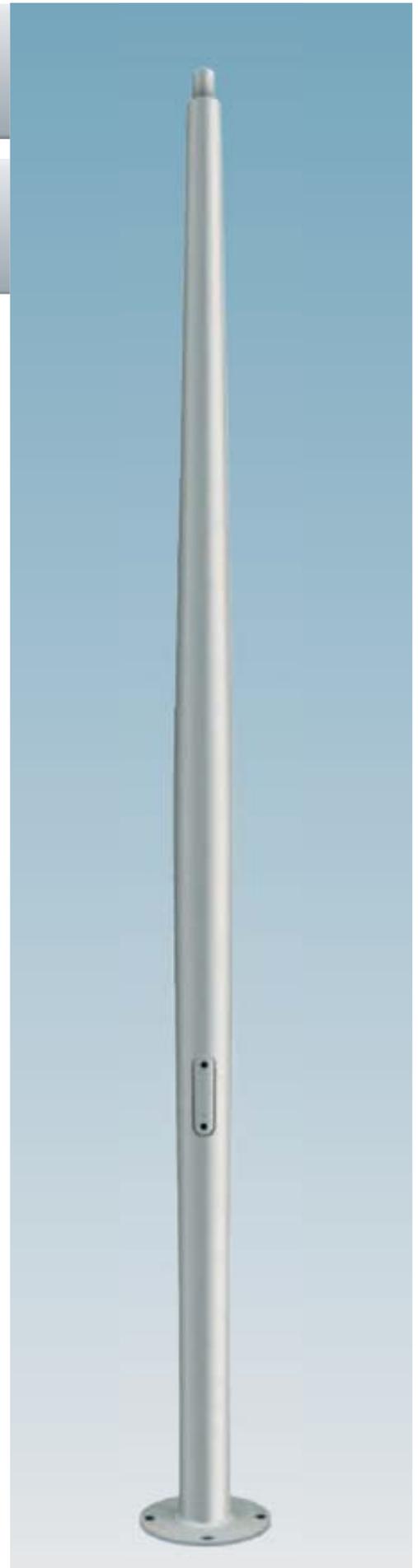
For the version with base, 4 log bolts to be sunk into the ground, bolts and lids have to be purchased. Size of inspection window 38x132 (h 3 000) - 45x186 (h 4000-5000-6000), supplied with protection fuse holder, 2 fuses, 16A, removable terminal block, 4 poles/3 holes = 6sqmm and shunt 4sqmm.

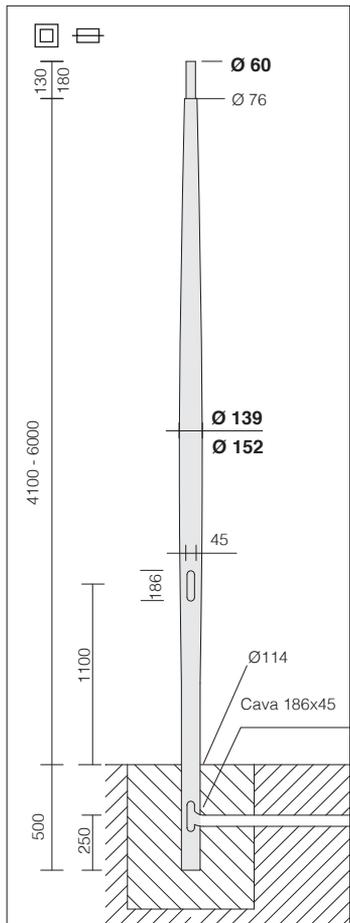
Standard insulation class II. When using Insulation Class I fixtures, appropriate grounding connections should be included in the system.

NOTE. Before selecting the appropriate pole, make all necessary wind pressure resistance tests, pursuant to the Standards or Legislative Decrees in force in the countries where the pole will be mounted and based on the assumed loads specified in Standard EN 40-3-1



acc. 299 log bolts	
991396-00	
Log bolts are to be always used with the pole 1477.	





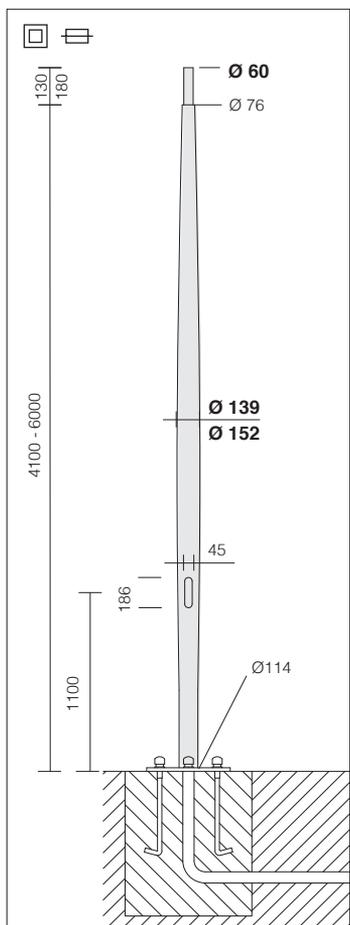
Inspection door with easily removable terminal board for quick connection.

Concrete base dimensions (subject to soil variations).



acc. 1478 - pole Urban to be buried

colour	code								
s. silver	425370-00	4600	4100	500	1100	186	45	Ø 114	Ø 60
graphite	425371-00	4600	4100	500					
s. silver	425373-00	6500	6000	500				Ø 127	
graphite	425374-00	6500	6000	500					



Inspection door with easily removable terminal board for quick connection.

Concrete base dimensions (subject to soil variations).



acc. 1477 - pole Urban with base

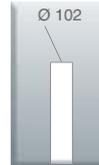
colour	code								
s. silver	425360-00	4100	1100	186	45	Ø 114	Ø 60	Ø320 22x30	
graphite	425361-00	4100							
s. silver	425363-00	6000				Ø 127			
graphite	425364-00	6000							

Log bolts are to be bought separately acc. 299.

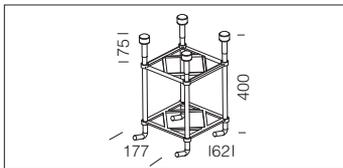
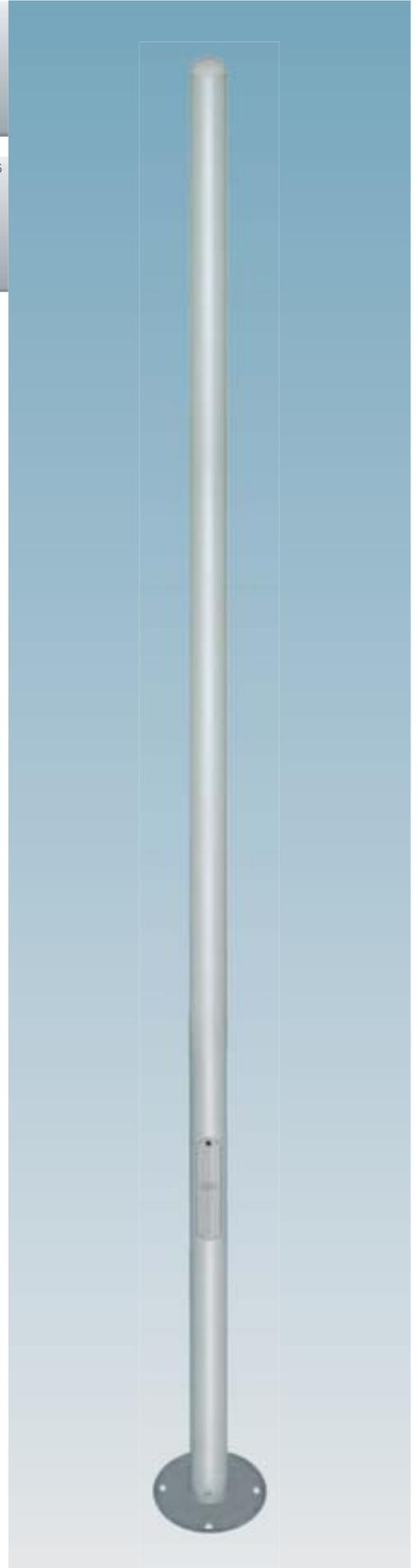
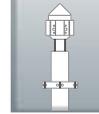


Steel pole \varnothing 102. With die-cast aluminium inspection window (186x45mm), complete with 2 protection fuse holders, 2 fuses, 16A, removable 4-pole terminal block. With hole for insertion of power supply cable. For the version with base, 4 log bolts to be sunk into the ground, bolts and lids have to be purchased.

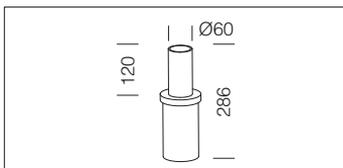
NOTE. Before selecting the appropriate pole, make all necessary wind pressure resistance tests, pursuant to the Standards or Legislative Decrees in force in the countries where the pole will be mounted and based on the assumed loads specified in Standard EN 40-3-1



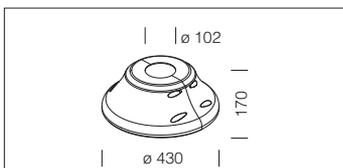
acc. 1364/5
+ acc. 528



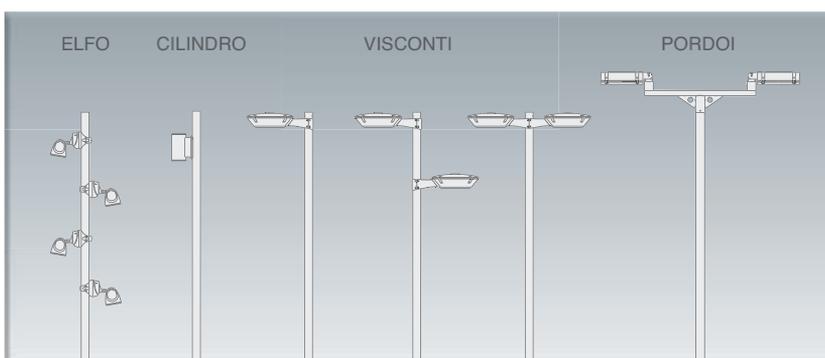
acc. 299 log bolts	
h=5000	991396-00
h=7000	991314-00
Log bolts are to be always used with the pole 1485.	

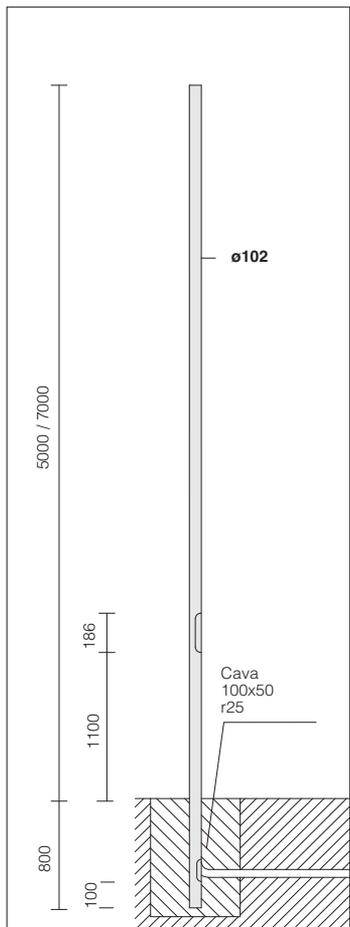


acc. 528 mast-top adapter	
graphite	991463-00
It enables the installation of fixtures on top of poles in single-lamps configurations.	



acc. 222 base pole cover	
graphite	991315-00
To be used as base pole cover acc. 1485/1487	





ON REQUEST
Possibility of supplying poles with the following colour paint finishes:
RAL 3003, 5011, 7026, 9011, 8015, 5002 7024, 7016, 9006, 7037, 6004, 8019, 6011, 7022, 1015, 9010.

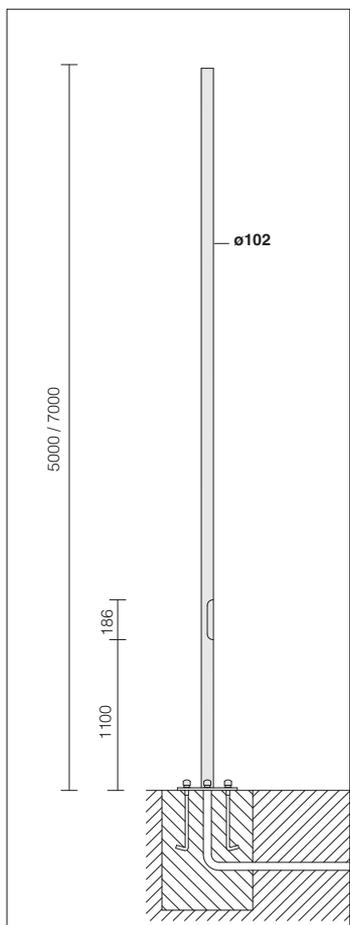
Inspection door with easily removable terminal board for quick connection.

Concrete base dimensions (subject to soil variations)



acc. 1487 steel pole to be buried

colour	code								
graphite	425064-00	5800	5000	800	1100	186	45	Ø 102	Ø 102
graphite	425065-00	7800	7000	800					



ON REQUEST
Possibility of supplying poles with the following colour paint finishes:
RAL 3003, 5011, 7026, 9011, 8015, 5002 7024, 7016, 9006, 7037, 6004, 8019, 6011, 7022, 1015, 9010.

Inspection door with easily removable terminal board for quick connection.

For correct installation of pole and base, the ceiling cap should be fitted as shown in the assembly drawing featured opposite.

Concrete base dimensions (subject to soil variations)

acc. 1485 steel pole with base

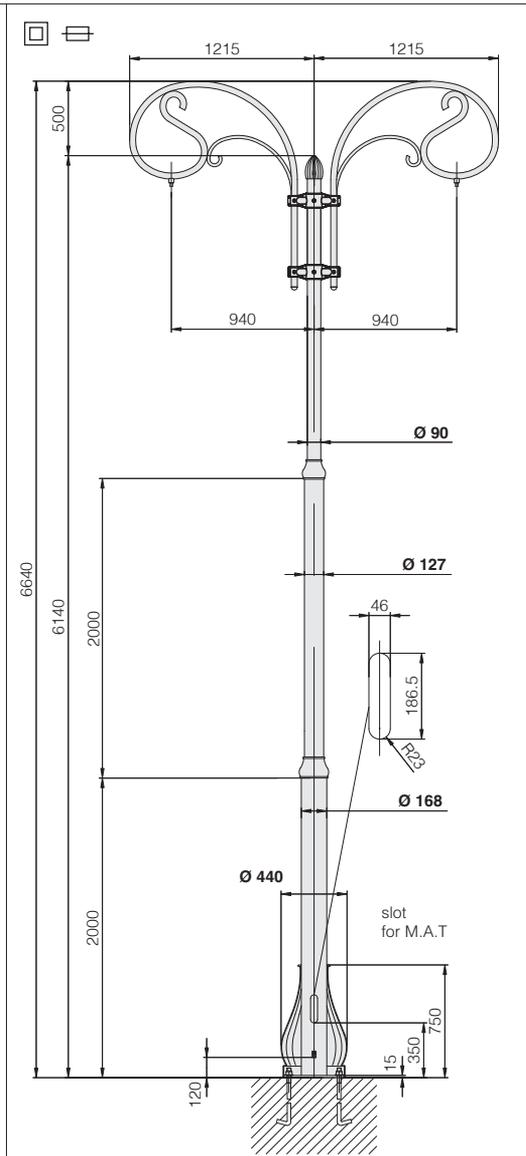
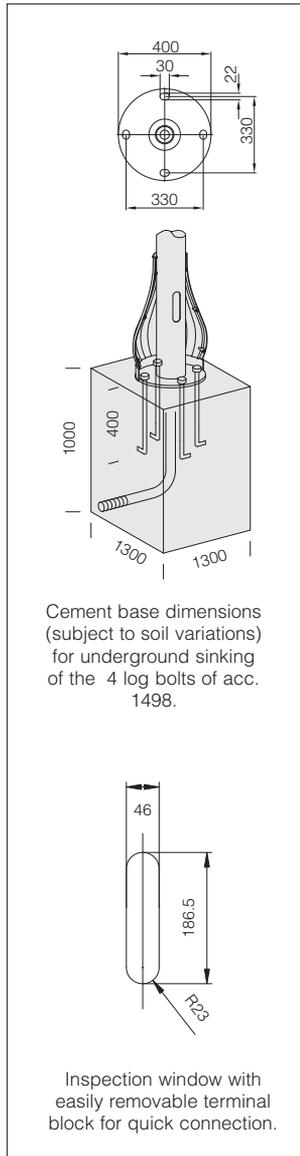
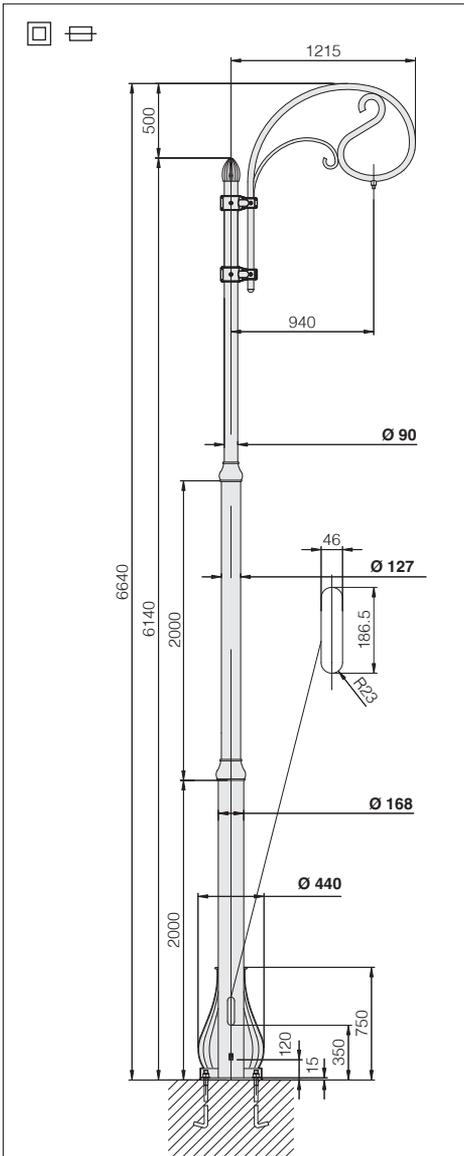
colour	code								
graphite	425074-00	5000	1100	186	45	Ø 102	Ø 102	Ø 320	hole Ø 22x30
graphite	425075-00	7000							

Log bolts are to be bought separately acc. 299.





MONTECARLO	SFORZA	CAMPANA	LUCERNA



POLES

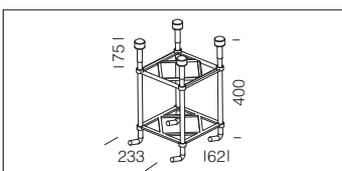
Liberty Pole, complete with one or two brackets. Internal steel pole with die-cast aluminium coating. Die-cast aluminium inspection window. Complete with 2 protection fuse holders, 2 fuses, 16A, removable 4-pole terminal block, 16sqmm cross section.

NOTE: The possibility to attach an assembly to the pole is subject to a wind pressure resistance assessment in the areas regulated by CNR-UNI standard 10032-67, according to load assumptions in UNI UNI 40/6 standard. An accurate and suitable protection or insulation of the surfaces involved is recommended to avoid any direct contact with the new masonry or concrete screed.

acc. 1498 Liberty pole

version	colour	code								
with 1 arm	graphite	425200-00	6140	350	186.5	46	Ø 440	Ø 90	Ø 400	hole 30x22
with 2 arms	graphite	425202-00								

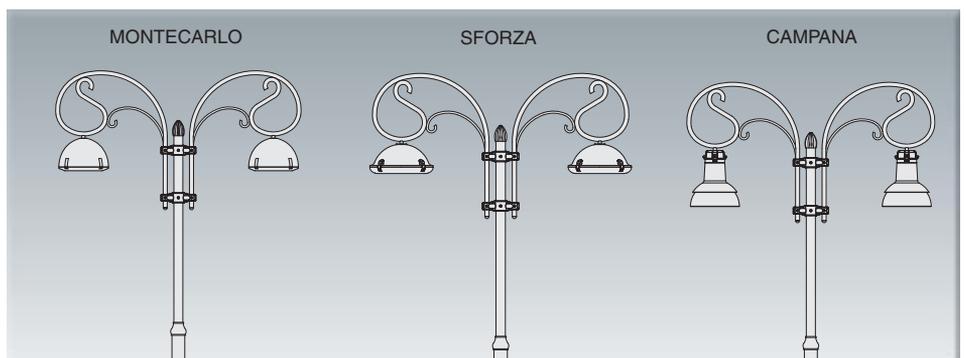
Log bolts are to be bought separately acc. 297.



acc. 297 log bolts

426448-00

Log bolts are always to be used with the pole 1498.

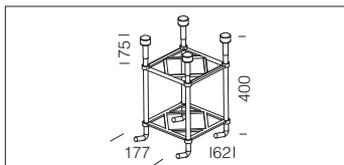


Tapered steel lighting pole. With hole for insertion of power supply cable, pole-head connection, $\varnothing 60$.

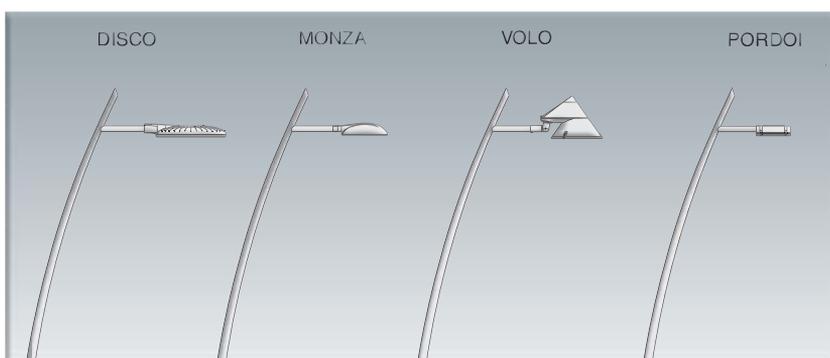
For the version with base, 4 log bolts to be sunk into the ground, bolts and lids have to be purchased.

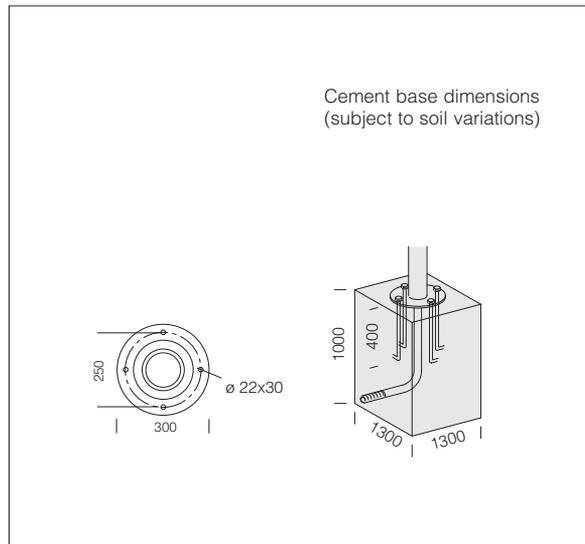
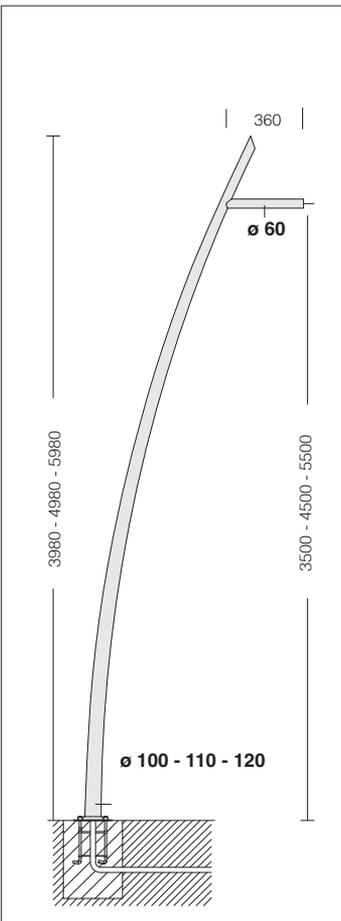
When using insulation Class I fixtures, appropriate grounding connections should be included in the system.

NOTE. Before selecting the appropriate pole, make all necessary wind pressure resistance tests, pursuant to the Standards or Legislative Decrees in force in the countries where the pole will be mounted and based on the assumed loads specified in Standard EN 40-3-1



acc. 299 log bolts	
991396-00	
Log bolts are to be always used with the pole 1490.	





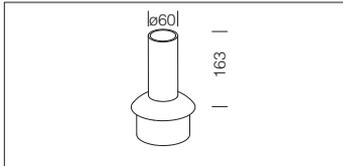
acc. 1490 "Virgola" pole

colour	code					
silver	425080-00	3980	3500	$\varnothing 100$	$\varnothing 60$	$\varnothing 250$ hole $\varnothing 22 \times 30$
silver	425081-00	4980	4500	$\varnothing 110$		
silver	425082-00	5980	5500	$\varnothing 120$		

Painted pole in galvanized steel. Complete with cap and cable insertion hole.
Log bolts are to be bought separately acc. 299.
On request pole to be buried



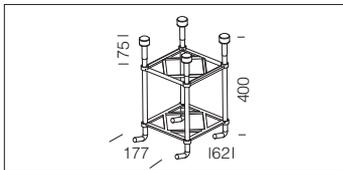
Hot-dip galvanised steel poles. With die-cast inspection window (186x45mm), 2 protection fuse holders, 2 fuses, 16A, 4-pole/3-way=10mm², derivation 2,5 sqmm, removable terminal block = 6 sqmm, 4 sqmm connection. With hole for insertion of power supply cable; with holes at different heights according to use. For the version with base, 4 log bolts to be sunk into the ground, bolts and lids have to be purchased. Standard insulation class II. When using Insulation Class I fixtures, appropriate grounding connections should be included in the system.



368 mast-top-pole connec.

s. silver	427002-00
graphite	427003-00

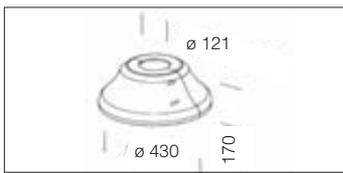
In galvanized steel. To be used as a mast-top-pole connection on poles acc. 1491/1493 \varnothing 120.



acc. 299 log bolts

h=6000	991396-00
h=7000/8000	991314-00

Log bolts are to be always used with the pole 1493.



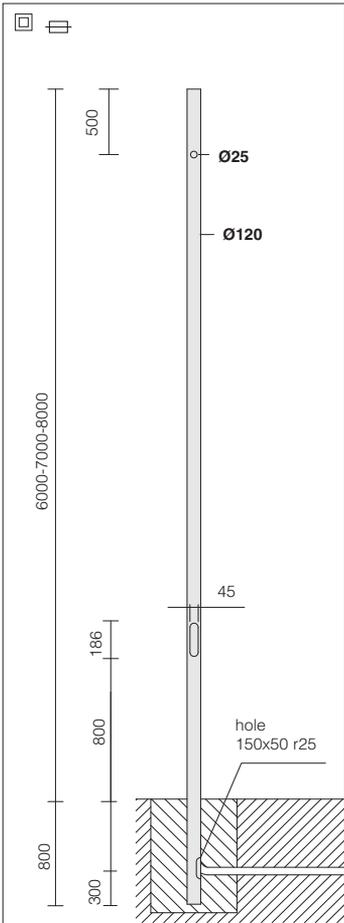
acc. 222 base pole cover

s. silver	991378-00
graphite	991381-00

In die-cast aluminium. To be used as a base pole cover acc. 1493.

NOTE. Before selecting the appropriate pole, make all necessary wind pressure resistance tests, pursuant to the Standards or Legislative Decrees in force in the countries where the pole will be mounted and based on the assumed loads specified in Standard EN 40-3-1

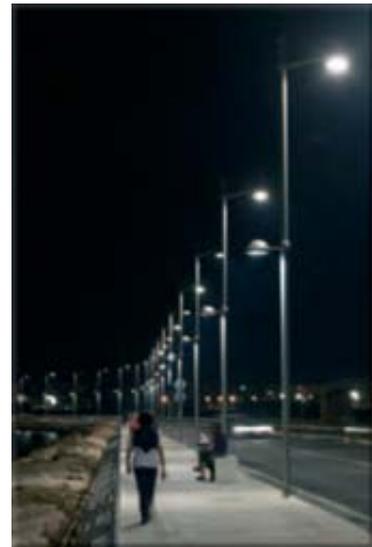




ON REQUEST
Possibility of supplying poles with the following colour paint finishes:
RAL 3003, 5011, 7026, 9011, 8015, 5002 7024, 7016, 7037, 6004, 8019, 6011, 7022, 1015, 9010.

Inspection door with easily removable terminal board for quick connection.

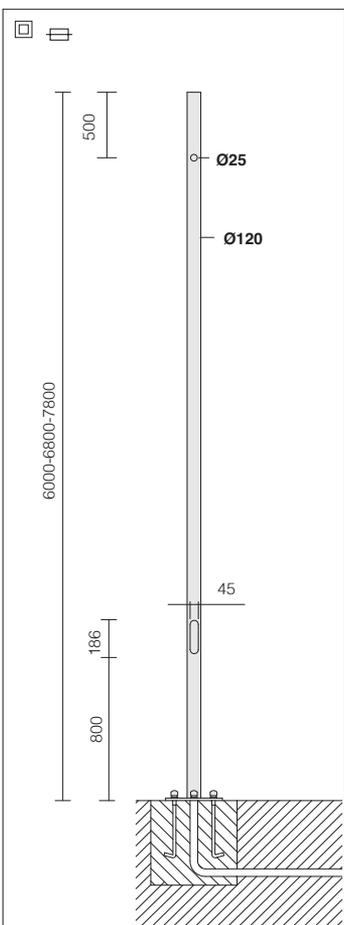
Concrete base dimensions (subject to soil variations)



acc. 1491 steel pole to be buried

colour	code							
silver	426177-00	6800	6000					
silver	426178-00	7800	7000					
silver	426179-00	8800	8000	800	800	186	45	Ø 120
graphite	426149-00	6800	6000					
graphite	426153-00	7800	7000					
graphite	426159-00	8800	8000					

Supplied with end cap and holes to let the cables through.



ON REQUEST
Possibility of supplying poles with the following colour paint finishes:
RAL 3003, 5011, 7026, 9011, 8015, 5002 7024, 7016, 7037, 6004, 8019, 6011, 7022, 1015, 9010.

Inspection door with easily removable terminal board for quick connection.

For correct installation of pole and base, the ceiling cap should be fitted as shown in the assembly drawing featured opposite.

Concrete base dimensions (subject to soil variations)

acc. 1493 steel pole with base

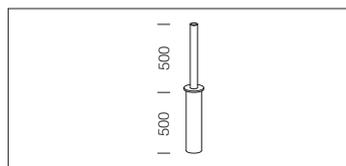
colour	code							
silver	426197-00	6000						
silver	426198-00	6800						
silver	426199-00	7800	800	186	45	Ø 120	Ø 320 hole Ø 22x30	
graphite	426187-00	6000						
graphite	426188-00	6800						
graphite	426189-00	7800						

Supplied with end cap and holes to let the cables through. **Log bolts are to be bought separately acc. 299.**



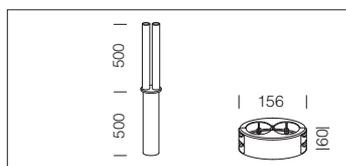
Steel pole \varnothing 120 silver-coloured. With die-cast inspection window (186x45mm), protective fuse holder, 16A fuse, 4-pole/3-way=10mm², derivation 2,5 sqmm, removable terminal block = 6 sqmm, 4 sqmm connection. With hole for insertion of power supply cable. With hole for insertion of power supply cable. For the version with base, 4 log bolts to be sunk into the ground, bolts and lids have to be purchased. Standard insulation class II. When using Insulation Class I fixtures, appropriate earthing connections should be included in the system.

NOTE. Before selecting the appropriate pole, make all necessary wind pressure resistance tests, pursuant to the Standards or Legislative Decrees in force in the countries where the pole will be mounted and based on the assumed loads specified in Standard EN 40-3-1



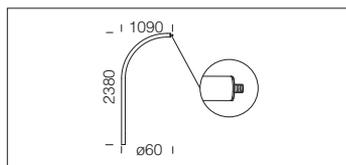
acc. 385 1-lamp connector	
s. silver	326515-00
graphite	326505-00

To be inserted in the head-pole position to create a one-lamp composition. To be used with an arm acc. 386.



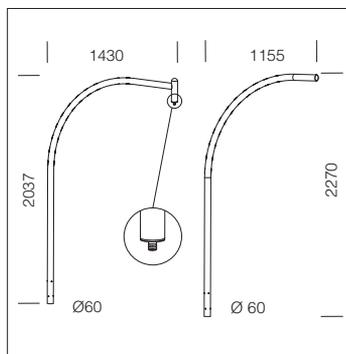
acc. 384 2-lamp connector	
s. silver	326512-00
graphite	326507-00

To be inserted in the head-pole position to create a 1-lamp composition. To be used with arm acc. 386. Supplied with a seal ring.



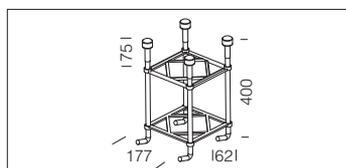
acc. 386 pole arm	
s. silver	326518-00

In steel. To be used together with acc. 384/385 for one or two lamp compositions.



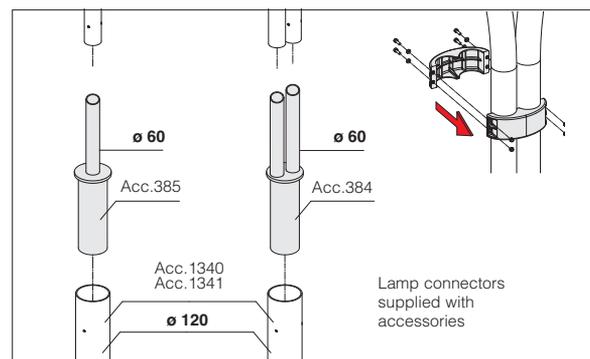
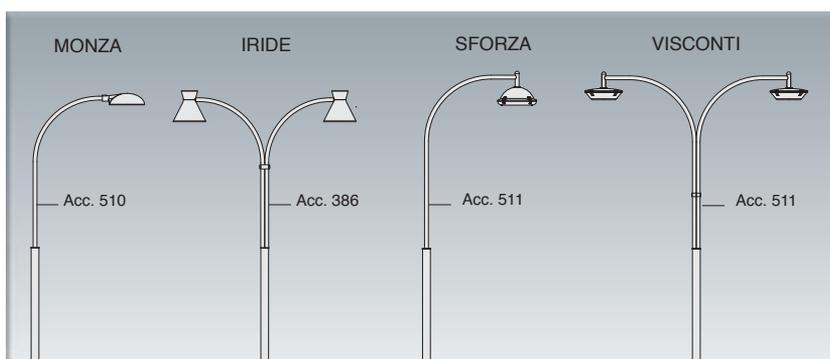
acc. 510 curved arm	
s. silver	991275-00

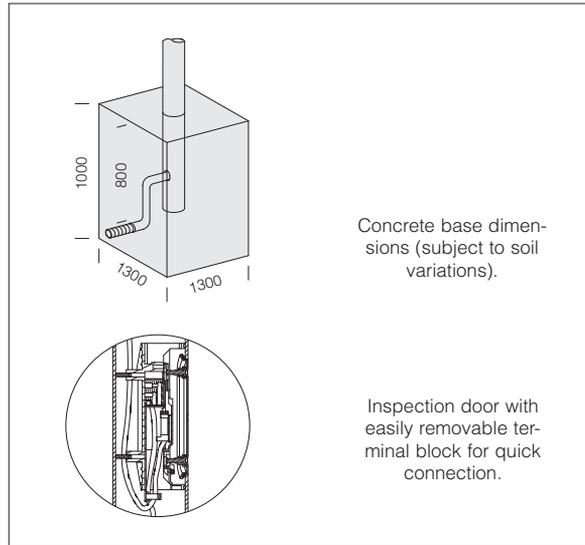
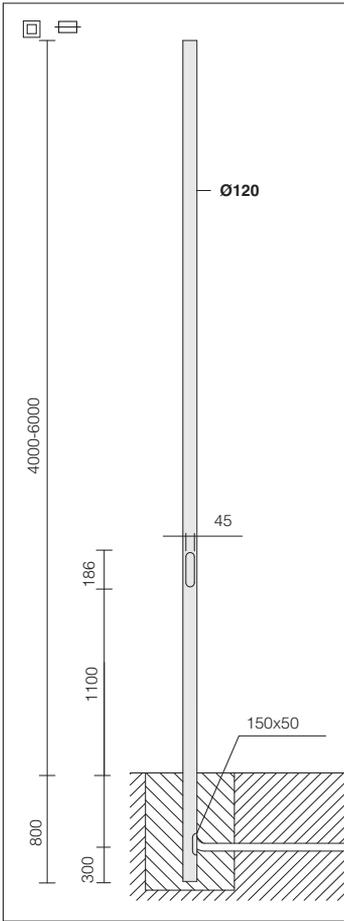
In steel. For mast-top mounting to 1340/41 pole. To be used with acc. 384/385.



acc. 299 log bolts	
	991396-00

Log bolts are to be always used with the pole 1342.





Concrete base dimensions (subject to soil variations).

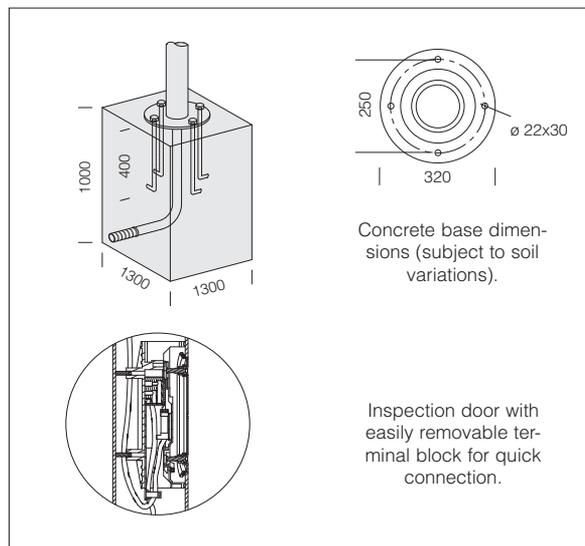
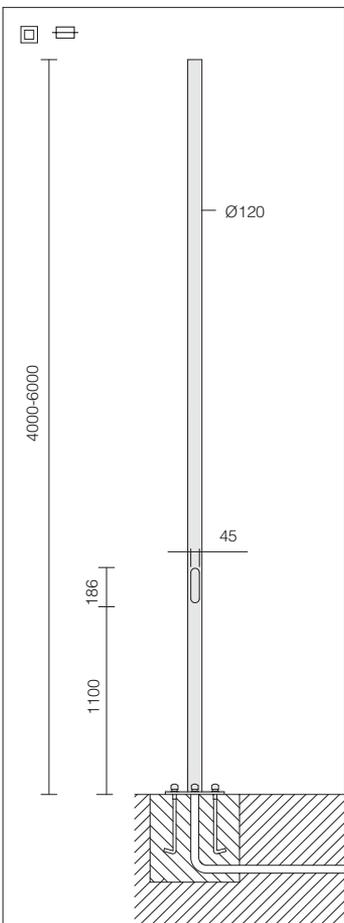
Inspection door with easily removable terminal block for quick connection.



acc. 1341 pole Ø 120 to be buried in the ground

colour	code							
s. silver	424077-00	4800	4000					
s. silver	424078-00	6800	6000					
graphite	424057-00	4800	4000	800	1100	186	45	Ø 120
graphite	424058-00	6800	6000					

To be used with acc. 384/385 + 386 or 510/511



Concrete base dimensions (subject to soil variations).

Inspection door with easily removable terminal block for quick connection.



acc. 1340 pole Ø 120 with base

colour	code						
s. silver	424075-00	4000					
s. silver	424076-00	6000					
graphite	424083-00	4000	1100	186	45	Ø 120	Ø 320 hole Ø 22x30
graphite	424084-00	6000					

Log bolts are to be bought separately acc. 299.

To be used with acc. 384/385 + 386 or 510/511

For poles: Fluted Ø120, Steel Ø120, Steel Ø120-152, Steel Ø120-193



acc. 211 Sector connector	
s. silver	426952-00
graphite	426953-00
In aluminium. To be used for pole mounting ø 120.	



ø 214
190
ø 120



Acc. 327/328
Disco
Monza
Volo
Sforza
Pordoi

ø 120



Acc. 309
Lanterna



Acc. 210
Disco
Monza
Volo
Sforza
Pordoi

ø 120



Acc. 303
Torcia
Discovery
Vista

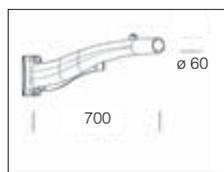


Acc. 301

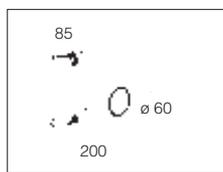
ø 120



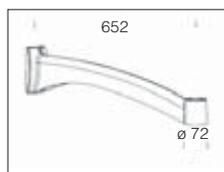
Acc. 304
Tex
Sforza
Campana
Montecarlo



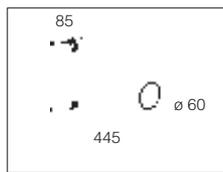
acc. 210 Sector arm	
s. silver	426950-00
graphite	426951-00
Made of aluminium. To be used with acc. 211 for pole mounting.	



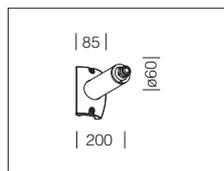
acc. 327 arm	
silver	426942-00
graphite	426943-00
Made of die-cast aluminium. To be used with acc. 211-300 for wall, or with acc. 300/211 for pole mounting.	



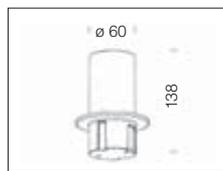
acc. 301 arm Oliva	
s. silver	426972-00
graphite	426973-00
Made of aluminium. To be used with acc. 300-303-304 for pole mounting or acc. 302/309 for wall mounting.	



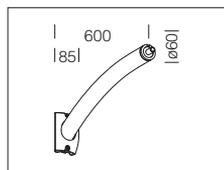
acc. 328 arm	
silver	426944-00
graphite	426945-00
Made of die-cast aluminium. To be used with acc. 302 for wall, or with acc. 300/211 for pole mounting.	



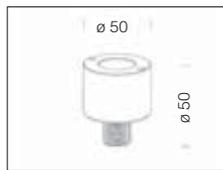
acc. 381 short arm	
s. silver	326503-00
To be used with access. 211-300 for Iride installation.	



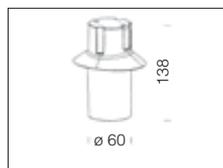
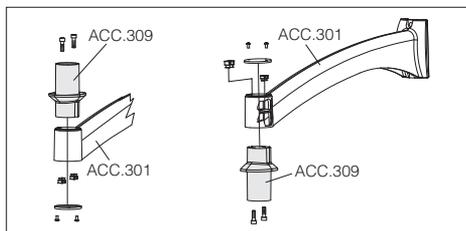
acc. 303 connection ø 60	
s. silver	426976-00
graphite	426977-00
Made of aluminium. To be always used with acc. 301 for pole arm installation of Torcia, Discovery, Vista, Polar, Clima.	



acc. 382 curved arm	
s. silver	326506-00
To be used with access. 211-300 for Iride installation.	



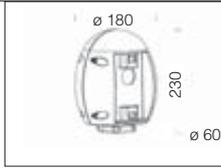
acc. 304 threaded connection	
galvan.	426978-00
Threaded connection to be used with acc. 301 for wall or pole installation of Tex, Sforza, Campana, Montecarlo, Siena.	



acc. 309 attachment ø 60	
s. silver	426993-00
graphite	426994-00
Made of aluminium. To be always used with acc. 301 when Lanterna is to be installed on a pole arm.	

For poles: Fluted Ø120, Cone-Shaped, Steel Ø120, Steel Ø120-152, Steel Ø120-193

acc. 300 Oliva connector	
s. silver	426970-00
graphite	426971-00
Made of aluminium. To be installed on ø60.	



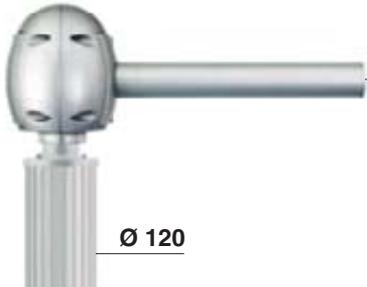
Acc. 309
Lanterna



Acc. 303
Torcia
Discovery
Vista



Acc. 304
Tex
Sforza
Campana
Montecarlo



Acc. 327/328

Disco
Monza
Volo
Sforza
Pordoi

Ø 120



Acc. 210

Disco
Monza
Volo
Sforza
Pordoi

Ø 120



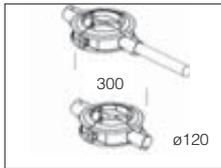
Acc. 301

Ø 120

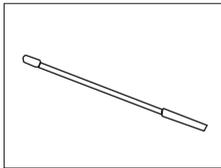
acc. 212 ring	
s. silver	426954-00
graphite	426955-00
In aluminium. To be used with acc. 214/215 for pole mounting ø 120.	



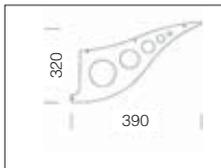
acc. 213 long banner connec.	
s. silver	426956-00
graphite	426957-00
In aluminium. To be used for pole mounting ø 120 of a flag.	



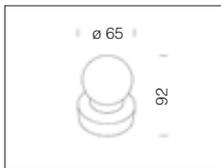
acc. 215 finishing tie rod	
	426960-00
In steel. To be used with acc. 212.	



acc. 214 small banner connec.	
s. silver	426958-00
graphite	426959-00
In aluminium. To be used with acc. 212 for pole mounting.	



acc. 305 end cap	
s. silver	426979-00
graphite	426980-00
To be used when on the acc. 210 no fixtures are installed. For an aesthetic finish.	



Acc. 1363
Visconti
Sforza
Montecarlo
Campana

Acc. 1364

Acc. 1365

\varnothing 100

Acc. 1362
Globe
Polar
Clima
Bastia

acc. 1364 Corona	
s. silver	426988-00
graphite	426926-00
Made of die-cast aluminium. For up to 6 arms acc. 1362 or 1363. Equipped with terminal block.	

acc. 1365 Corona flange	
s. silver	426989-00
graphite	426999-00
Made of die-cast aluminium. Complete with 6 arm-stop devices to reinforce the assembly.	



\varnothing 155
63

acc. 1361 wall mounting	
s. silver	426987-00-00
graphite	426961-00
Die-cast aluminium spacer and base. To install arms acc 1362 or 1363.	

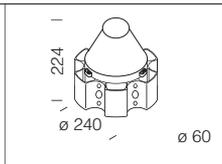
\varnothing 30
1030/1530
444

acc. 1362 upward arm \varnothing30	
1000 s. silver	426906-00
1500 s. silver	426907-00
1000 graphite	426946-00
1500 graphite	426947-00
\varnothing 60 steel.	

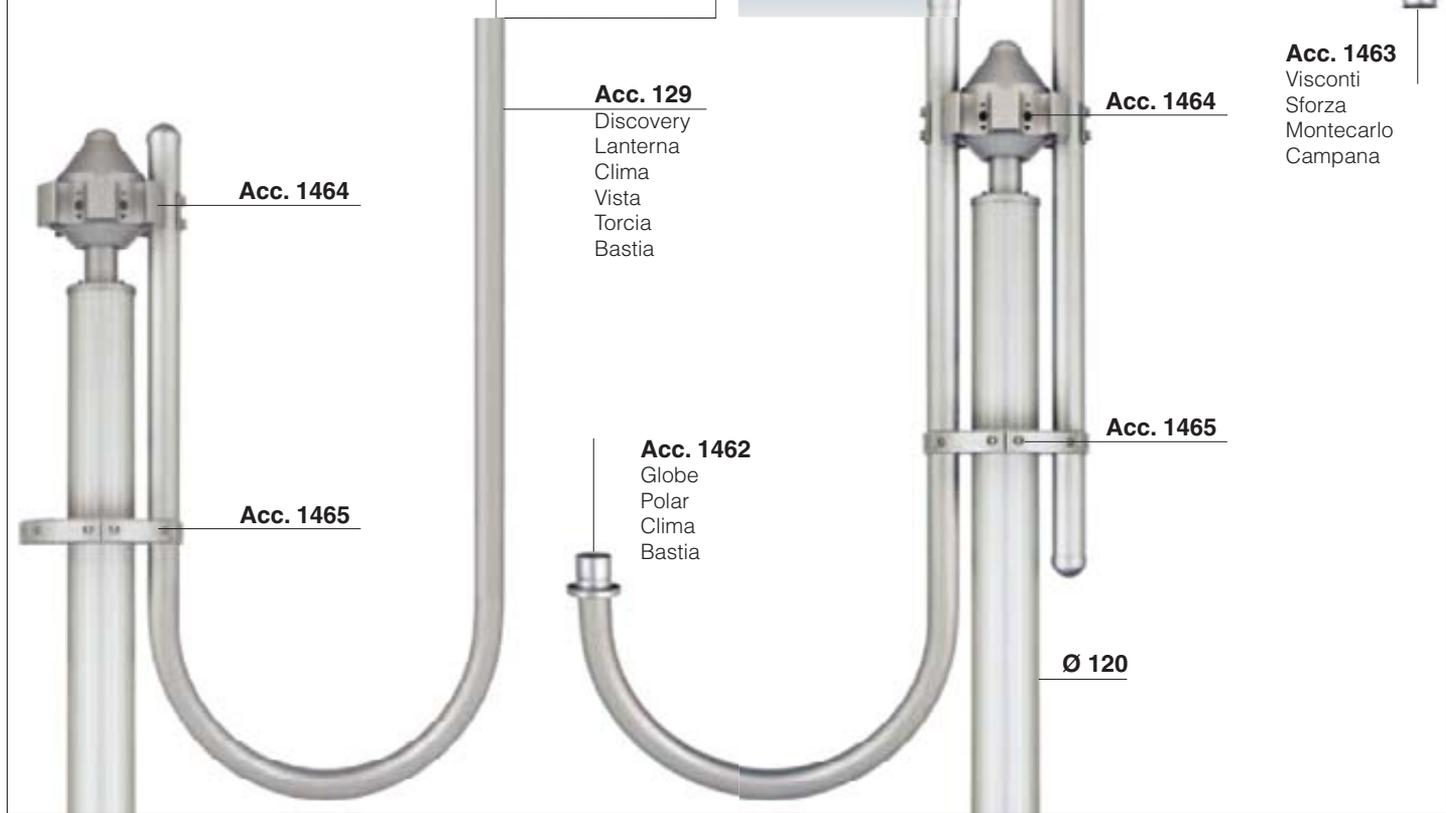
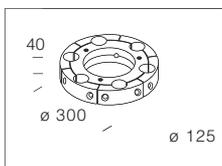
444
1630/2130
 \varnothing 30

acc. 1363 downward arm \varnothing30	
1600 s. silver	426916-00
2100 s. silver	426917-00
1600 graphite	427008-00
2100 graphite	427009-00
\varnothing 60 steel.	

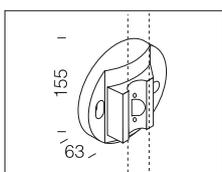
acc. 1464 Corona	
s. silver	426990-00
graphite	427000-00
Made of die-cast aluminium. For up to 6 arms acc. 1462 or 1463. Equipped with terminal block.	



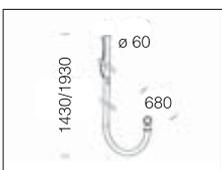
acc. 1465 Corona flange	
s. silver	426991-00
graphite	427001-00
Made of die-cast aluminium. Complete with 6 arm-stop devices to reinforce the assembly.	



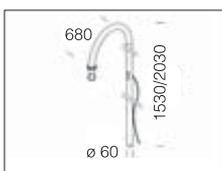
acc. 1461 wall attachment	
s. silver	426992-00
graphite	427012-00
Die-cast aluminium spacer and base. For arm mounting use acc. 1462 or 1463.	



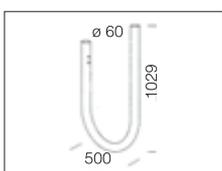
acc. 1462 upward arm ø60	
1430 s. silver	426908-00
1930 s. silver	426909-00
1430 graphite	426966-00
1930 graphite	426967-00
Ø 60 steel.	



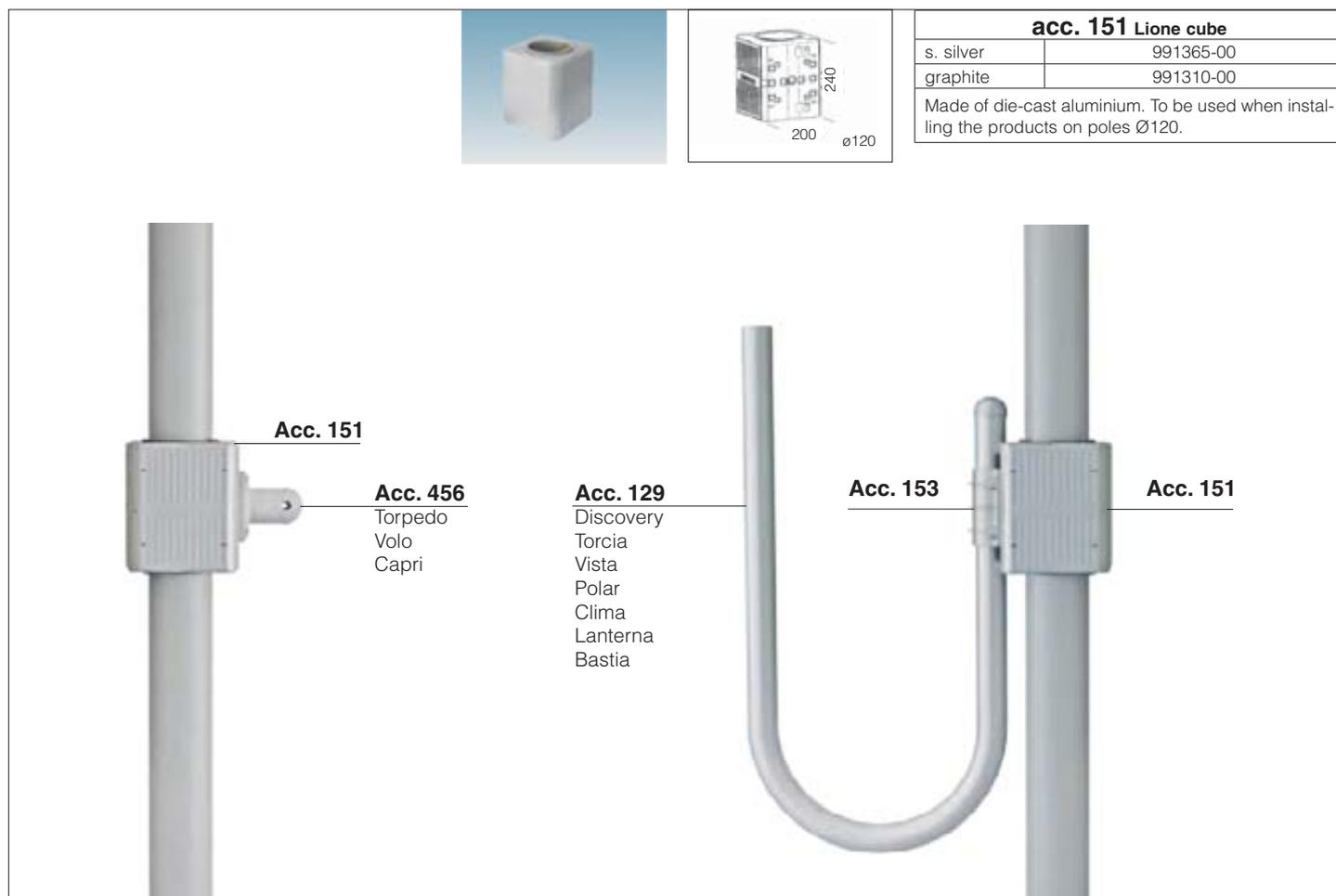
acc. 1463 downward arm ø60	
1530 s. silver	426918-00
2030 s. silver	426919-00
1530 graphite	427016-00
2030 graphite	427017-00
Ø 60 steel.	



acc. 129 curved arm	
s. silver	991329-00
graphite	991321-00
Apply to Corona Ø120 series.	

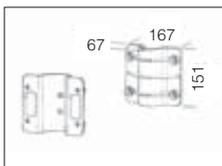


For Ø120 poles

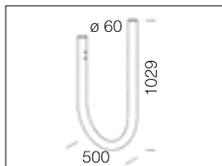


For Ø120 poles

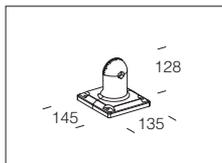
acc. 153 Arm connection	
s. silver	991359-00
Made of die-cast aluminium. To be used with acc. 151 when installing curved arms (acc. 129) on poles.	



acc. 129 bent arm	
s. silver	991329-00
graphite	991321-00
Tropicalised steel. Apply to accessories 151-153.	



acc. 456 small wall connection	
graphite	991402-00
s. silver	991403-00
To be used to install art. Capri, Volo, Torpedo on 'Lione' cube. With anti-slip rack. Adjustable connection.	



A range of Disano floodlights can also be fixed to the "Lione" cube:

- Punto
- Litio
- Indio
- Tex





MINI STELVIO



STELVIO



Mini Stelvio _____ p. 94
Stelvio _____ p. 100

ROLLE



PORDOI



Rolle _____ p. 104
Pordoi _____ p. 112

MINI BRERA



BRERA



BRERA



Mini Brera _____ p. 114
Brera _____ p. 116

VISCONTI



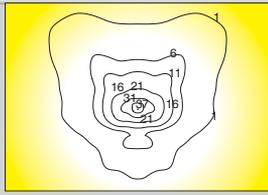
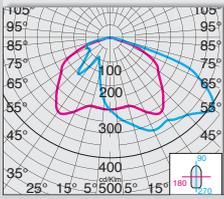
SFORZA



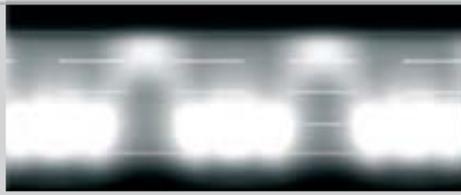
Visconti _____ p. 118
Sforza _____ p. 120



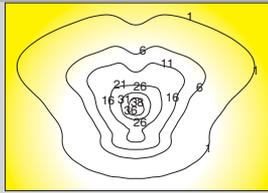
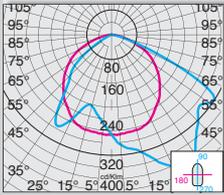
3279 Mini Stelvio Fx T4 - asymmetric



Example of project with art. 3279



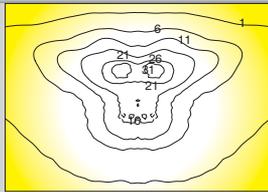
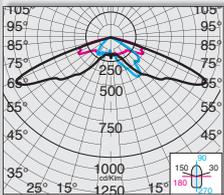
3276 Mini Stelvio plus - asymmetric



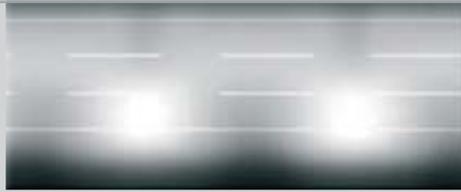
Example of project with art. 3276



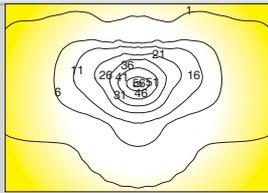
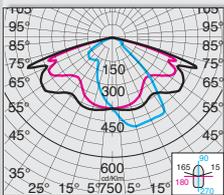
3275 Mini Stelvio plus



Example of project with art. 3275



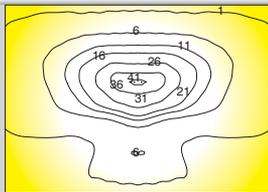
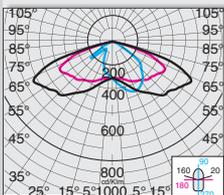
3277 Mini Stelvio Fx T2



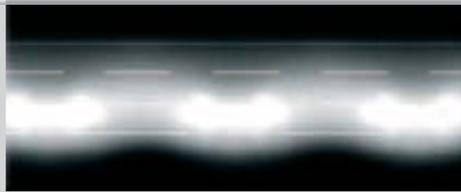
Example of project with art. 3277



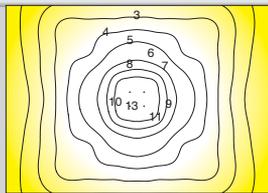
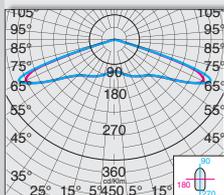
3278 Mini Stelvio Fx T3



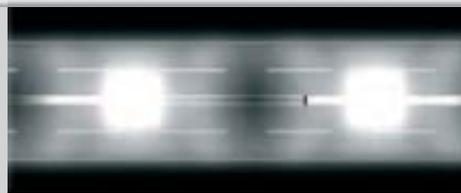
Example of project with art. 3278



3269 Mini Stelvio Fx T5



Example of project with art. 3269



Housing and cover: in die-cast aluminium and designed with a very small surface exposed to wind. Cooling fins are integrated into the cover.

Pole connection: in die-cast aluminium and with gaskets to secure the frame according to different inclinations. Adjustable ranges: between 0° and 15° for side mount; and between 0° and 10° for mast-top mounting. Inclination pace: 5°. Suited for poles with a diameter

Diffuser: clear, tempered glass, 4 mm thick, resistant to thermal shock and impacts (UNI-EN 12150-1 : 2001)

Coating: polyester resin for powder coating, resistant to corrosion and saline environments.

Standard supply: Automatic temperature control inside the device with automatic resetting. Safety diode to protect against voltage peaks compliant with EN 61547. With dedicated electronic device to protect the LED module.

Equipment: complete with IP67 airtight connector for mains connection.

Supplied with double insulation switch that cuts off electricity when the cover is opened.

Energy-saving: the possibility to choose the correct drive current for LEDs will allow you to have the right power under specific design conditions, and also help you deal with maintenance and retrofitting problems. Using a lower current will improve the efficiency of fixtures and therefore increase energy savings, whilst a higher current will result in a higher light flux so that you can reduce the number of fixtures.

Table for the various options for managing the supply point

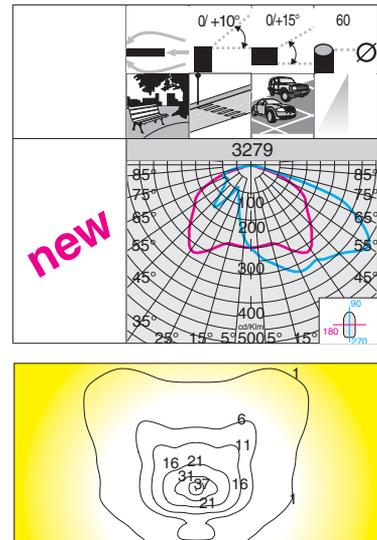
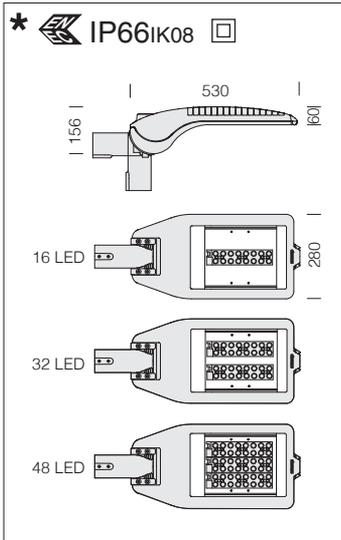
1-10V dimming	Virtual midnight	PLC remote control	Wi-Fi remote control (to be agreed upon)
Adjustment range from 10%-100% with 1-10V	Stand alone system with reduction of luminous flux	Point-to-point and system management and diagnosis system	Point-to-point and system management and diagnosis system with Wi-Fi system
Ordered with sub-code -12	Ordered with sub-code -30	Ordered with sub-code -0078	on request

Optical system: the modularity of the optical system, the solutions used for the electronic circuit design and the optimal control of operating temperatures, make the Stelvio line a highly professional, flexible and reliable product, capable of guaranteeing huge application advantages in several situations

Photometric performance: designed with an optical system capable of controlling the potential glare created by the growing light intensity of LEDs while achieving high photometric performance. This allows the application in street lighting schemes where there is a significant distance between the poles. In these cases, greater light control is reached with the optics equipped with auxiliary lens.

Heat sink: the heat dissipation system is specially designed and made to allow the operation of the LED lights with temperatures ensuring excellent performance/efficiency and durability.





Optics: in PMMA, highly resistant to temperature and UV radiation.

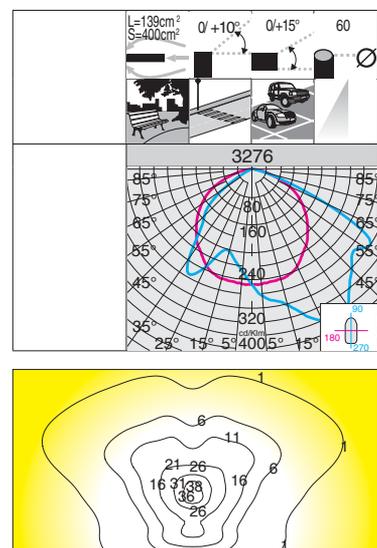
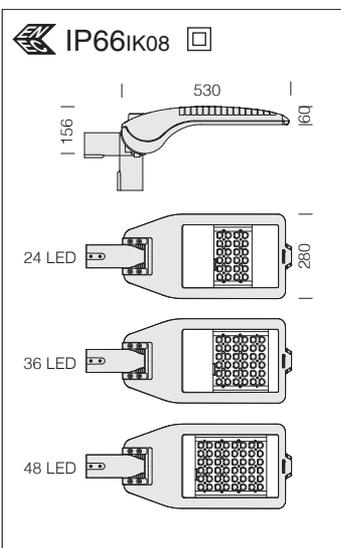
LED: Luminous flux maintenance 70% >50000h (L70B50). Power factor ≥ 0.9

3279 Mini Stelvio Fx T4 - asymmetric

		CLD CELL			LED (Tj=25°C)	
wattage 700mA	colour	weight	code	W	K - ϕ lm 700mA - CRI	
LED	anthrac.	7.60	330450-00	31	4000K - 4274lm - CRI ≥ 70	
LED	anthrac.	8.00	330451-00	63	4000K - 8544lm - CRI ≥ 70	
LED	anthrac.	8.10	330453-00	94	4000K - 12480lm - CRI ≥ 70	

On request, possibility for the various options for managing the supply point (see table on p. 95).

	Electrical Power	n.LED	W	ϕ lm
On request	350mA	16	15	2290
		32	31	4548
		48	46	6864
On request	530mA	16	23	3410
		32	47	6816
		48	70	10224



Optics: in PMMA, highly resistant to temperature and UV radiation.

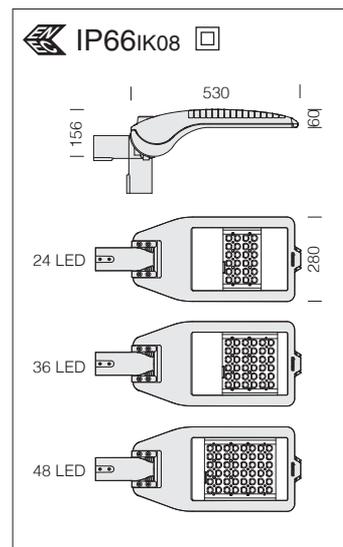
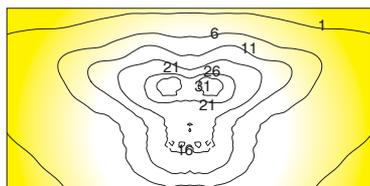
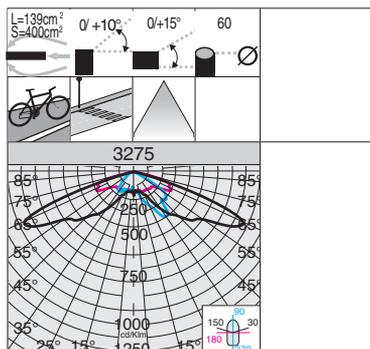
LED: Luminous flux maintenance 70% 60000h (L70B20). Power factor ≥ 0.9

3276 Mini Stelvio plus L - asymmetric

		CLD CELL			LED (Tj=25°C)	
wattage 700mA	colour	weight	code	W	K - ϕ lm 700mA - CRI	
LED	anthrac.	7.60	330370-00	47	4000K - 6410lm - CRI ≥ 70	
LED	anthrac.	8.00	330371-00	70	4000K - 9600lm - CRI ≥ 70	
LED	anthrac.	8.10	330372-00	94	4000K - 12800lm - CRI ≥ 70	

On request, possibility for the various options for managing the supply point (see table on p. 95).

	Electrical Power	n.LED	W	ϕ lm
On request	350mA	24	23	3430 lm
		36	34	5150 lm
		48	46	6860 lm
Standard	700mA	24	47	6410 lm
		36	70	9600 lm
		48	94	12800 lm



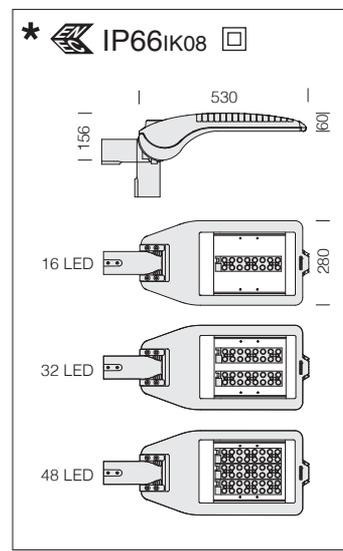
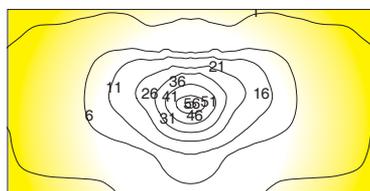
3275 Mini Stelvio plus - Power LED					
		CLD CELL		LED (Tj=25°C)	
wattage 700mA	colour	weight	code	W	K - ølm 700mA - CRI
LED	anthracite	7.60	330360-00	47	4000K - 6410lm - CRI≥70
LED	anthracite	8.00	330361-00	70	4000K - 9600lm - CRI≥70
LED	anthracite	8.10	330362-00	94	4000K - 12800lm - CRI≥70

On request, possibility for the various options for managing the supply point (see table on p. 95).

	Electrical Power	n.LED	W	ølm
On request	350mA	24	23	3430 lm
		36	34	5150 lm
		48	46	6860 lm
Standard	700mA	24	47	6410 lm
		36	70	9600 lm
		48	94	12800 lm

Optics: in PMMA, highly resistant to temperature and UV radiation.

LED: Luminous flux maintenance 70% 60000h (L70B20)
Power factor ≥0.9



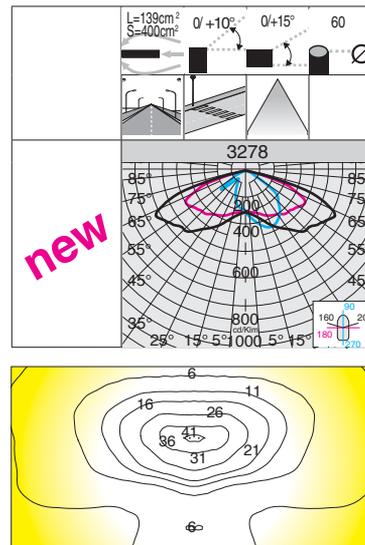
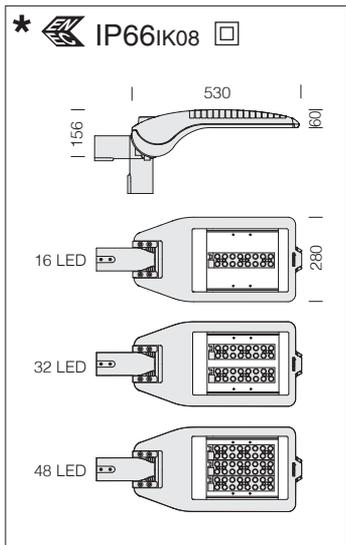
3277 Mini Stelvio Fx T2					
		CLD CELL		LED (Tj=25°C)	
wattage 700mA	colour	weight	code	W	K - ølm 700mA - CRI
LED	anthracite	7.60	330380-00	31	4000K - 4274lm - CRI≥70
LED	anthracite	8.00	330381-00	63	4000K - 8544lm - CRI≥70
LED	anthracite	8.10	330383-00	94	4000K - 12480lm - CRI≥70

On request, possibility for the various options for managing the supply point (see table on p. 95).

	Electrical Power	n.LED	W	ølm
On request	350mA	16	15	2290
		32	31	4548
		48	46	6864
On request	530mA	16	23	3410
		32	47	6816
		48	70	10224

Optics: in PMMA, highly resistant to temperature and UV radiation.

LED: Luminous flux maintenance 70%: >50000h (L70B50).
Power factor ≥0.9



Optics: in PMMA, highly resistant to temperature and UV radiation.

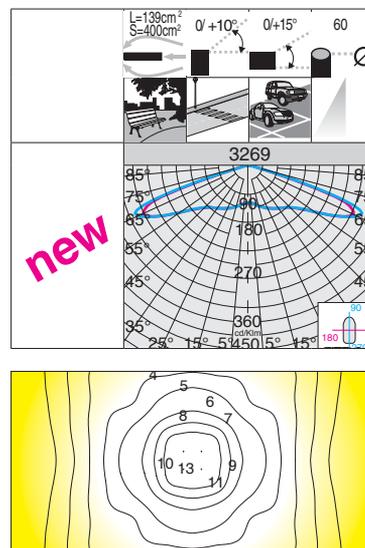
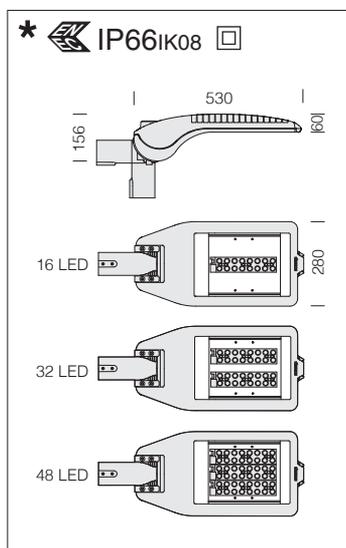
LED: Luminous flux maintenance 70%: >50000h (L70B50). Power factor ≥0.9

3278 Mini Stelvio Fx T3

		CLD CELL		LED (Tj=25°C)	
wattage 700mA	colour	weight	code	W	K - ølm 700mA - CRI
LED	anthracite	7.60	330390-00	31	4000K - 4274lm - CRI≥70
LED	anthracite	8.00	330391-00	63	4000K - 8544lm - CRI≥70
LED	anthracite	8.10	330393-00	94	4000K - 12480lm - CRI≥70

On request, possibility for the various options for managing the supply point (see table on p. 95).

	Electrical Power	n.LED	W	ølm
On request	350mA	16	15	2290
		32	31	4548
		48	46	6864
On request	530mA	16	23	3410
		32	47	6816
		48	70	10224



Optics: in PMMA, highly resistant to temperature and UV radiation.

LED: Luminous flux maintenance 70%: >50000h (L70B50). Power factor ≥0.9

3269 Mini Stelvio Fx T5

		CLD CELL		LED (Tj=25°C)	
wattage 700mA	colour	weight	code	W	K - ølm 700mA - CRI
LED	anthracite	7.60	330460-00	31	4000K - 4274lm - CRI≥70
LED	anthracite	8.00	330461-00	63	4000K - 8544lm - CRI≥70
LED	anthracite	8.10	330463-00	94	4000K - 12480lm - CRI≥70

On request, possibility for the various options for managing the supply point (see table on p. 95).

	Electrical Power	n.LED	W	ølm
On request	350mA	16	15	2290
		32	31	4548
		48	46	6864
On request	530mA	16	23	3410
		32	47	6816
		48	70	10224





Housing and cover: in die-cast aluminium and designed with a very small surface exposed to wind. Cooling fins are integrated into the cover.

Pole connection: in die-cast aluminium and with gaskets to secure the frame according to different inclinations. Adjustable ranges: between 0° and 15° for side mount; and between 0° and 10° for mast-top mounting. Inclination pace: 5°. Suited for poles with a diameter

Diffuser: clear, tempered glass, 4 mm thick, resistant to thermal shock and impacts (UNI-EN 12150-1 : 2001)

Coating: polyester resin for powder coating, resistant to corrosion and saline environments.

Standard supply: Automatic temperature control inside the device with automatic resetting. Safety diode to protect against voltage peaks compliant with EN 61547. With dedicated electronic device to protect the LED module.

Equipment: complete with IP67 airtight connector for mains connection. Supplied with double insulation switch that cuts off electricity when the cover is opened.

Energy-saving: the possibility to choose the correct drive current for LEDs will allow you to have the right power under specific design conditions, and also help you deal with maintenance and retrofitting problems. Using a lower current will improve the efficiency of fixtures and therefore increase energy savings, whilst a higher current will result in a higher light flux so that you can reduce the number of fixtures.



Table for the various options for managing the supply point

1-10V dimming	Virtual midnight	PLC remote control	Wi-Fi remote control (to be agreed upon)
Adjustment range from 10%-100% with 1-10V	Stand alone system with reduction of luminous flux	Point-to-point and system management and diagnosis system	Point-to-point and system management and diagnosis system with Wi-Fi system
Ordered with sub-code -12	Ordered with sub-code -30	Ordered with sub-code -0078	on request

Optical system: the modularity of the optical system, the solutions used for the electronic circuit design and the optimal control of operating temperatures, make the Stelvio line a highly professional, flexible and reliable product, capable of guaranteeing huge application advantages in several situations

Photometric performance: designed with an optical system capable of controlling the potential glare created by the growing light intensity of LEDs while achieving high photometric performance. This allows the application in street lighting schemes where there is a significant distance between the poles. In these cases, greater light control is reached with the optics equipped with auxiliary lens.

Heat sink: the heat dissipation system is specially designed and made to allow the operation of the LED lights with temperatures ensuring excellent performance/efficiency and durability.



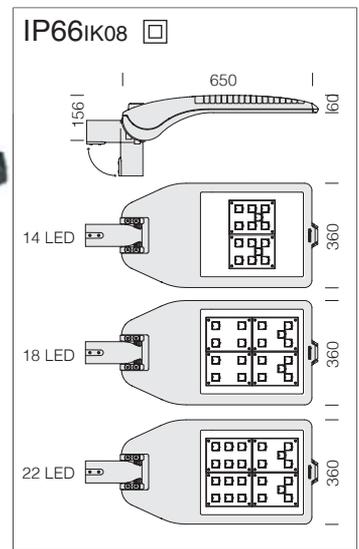
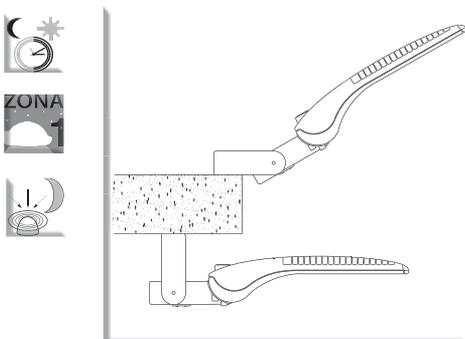
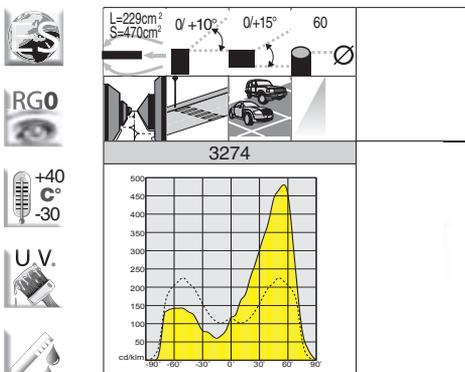
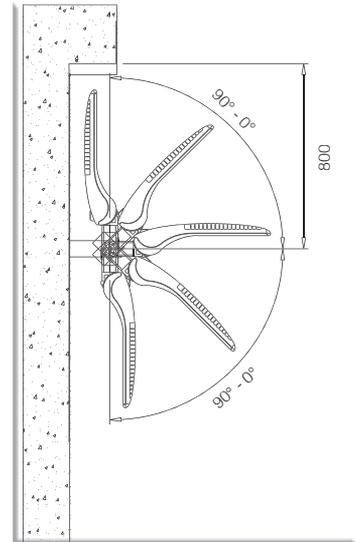
Optics: in PMMA, highly resistant to temperature and UV radiation.

LED: Luminous flux maintenance 70%: 50000h (L70B20)

Power factor ≥ 0.9

Photobiological safety class: exempt group

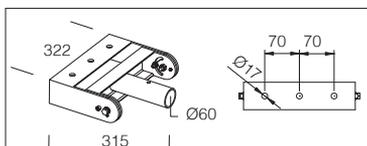
Allowable ambient temperature -30°C to + 40°C



3274 - Stelvio 2 plus - Power LED asymmetric

wattage 700mA	colour	weight	CLD CELL		LED (Tj=85°C)	
			code	W	K - ølm 700mA - CRI	LED
LED	anthrac.	11.30	320360-00	110	4000K - 13720lm - CRI \geq 70	
LED	anthrac.	11.40	320361-00	141	4000K - 17640lm - CRI \geq 70	
LED	anthrac.	12.80	320363-00	173	4000K - 21560lm - CRI \geq 70	

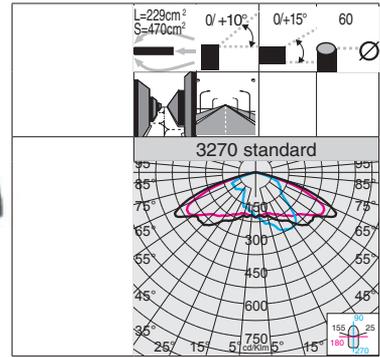
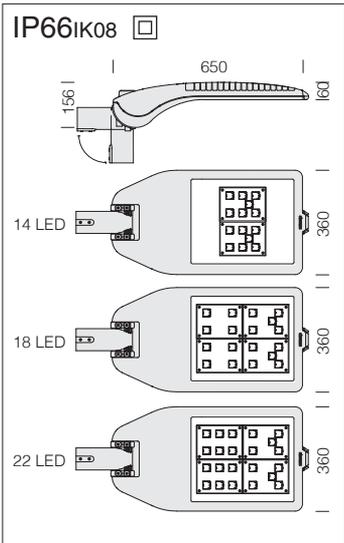
On request, possibility for the various options for managing the supply point (see table on p. 101).



acc. 578 adjustable bracket
anthrac. 997709-00
Adjustable bracket for wall mounting or for use on the towers.

	Electrical Power	n.LED	W	ølm
On request	350mA	14	53	7560 lm
		18	69	9720 lm
		22	84	11880 lm

On request	530mA	14	82	10290 lm
		18	105	13230 lm
		22	129	16170 lm



Optics: in PMMA, highly resistant to temperature and UV radiation.

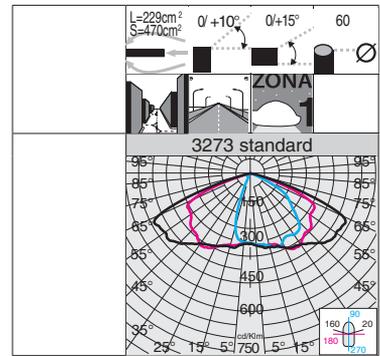
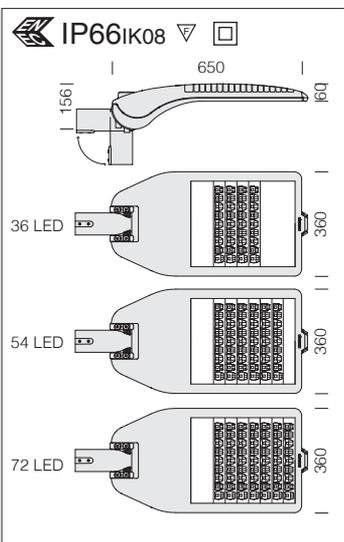
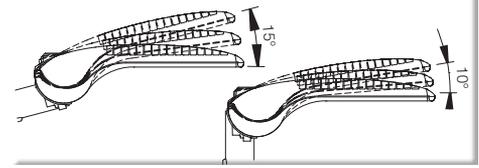
LED: Luminous flux maintenance 70%: 50000h (L70B20)
Power factor >0.9

3270 - Stelvio 1 plus - Power LED						
		CLD CELL		CLD CELL bipower system		LED (Tj=25°C)
wattage 700mA	colour	weight	code	code	W	K - ølm 700mA - CRI
LED	anthracite	10.50	330342-00	330342-30	110	4000K - 13720lm - CRI 70
LED	anthracite	11.00	330348-00	330348-30	141	4000K - 17640lm - CRI 70
LED	anthracite	13.00	330343-00	330343-30	173	4000K - 21560lm - CRI 70

On request, possibility for the various options for managing the supply point (see table on p. 101).

	Electrical Power	n.LED	W	ølm
On request	350mA	14	53	7560 lm
		18	69	9720 lm
		22	84	11880 lm
On request	530mA	14	82	10290 lm
		18	105	13230 lm
		22	129	16170 lm

Adjustable housing



Optics: in PMMA, highly resistant to temperature and UV radiation.

LED: Luminous flux maintenance 70%: 60000h (L70B20)
Power factor ≥0.9

3273 - Stelvio 1 plus S - Power LED						
		CLD CTL		CLD CTL bipower system		LED (Tj=25°C)
wattage 700mA	colour	weight	code	code	W	K - ølm 700mA
LED	anthrac.	10.00	330344-00	330344-30	70	4000K - 9612lm
LED	anthrac.	11.00	330345-00	330345-30	105	4000K - 14418lm
LED	anthrac.	12.00	330347-00	330347-30	140	4000K - 19224lm

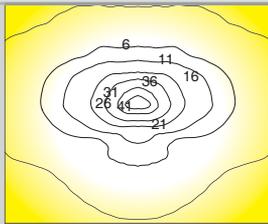
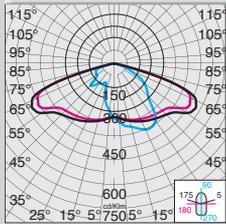




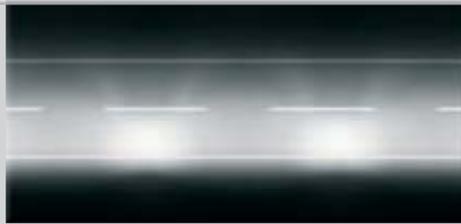
STREET LIGHTING



3280 Rolle - T1



Example of project with art. 3280



Housing and cover: in die-cast aluminium and designed with a very small surface exposed to wind. Cooling fins are integrated into the cover.

Pole connection: in die-cast aluminium and with gaskets to secure the frame according to different inclinations. Adjustable ranges: between 0° and 20° for side mount; and between 0° and 15° for mast-top mounting. Inclination pace: 5°. Suited for poles with a diameter 46-76.

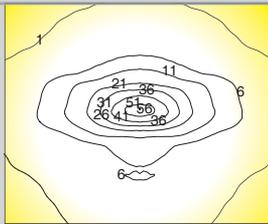
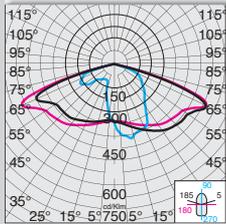
Diffuser: clear, tempered glass, 4 mm thick, resistant to thermal shock and impacts (UNI-EN 12150-1 : 2001)

Coating: polyester resin for powder coating, resistant to corrosion and saline environments.

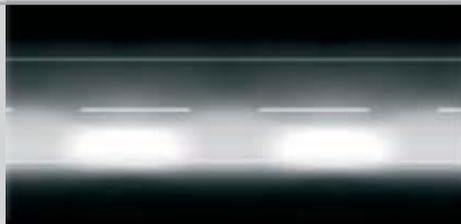
Standard supply: Automatic temperature control inside the device with automatic resetting. Safety diode to protect against voltage peaks compliant with EN 61547. With dedicated electronic device to protect the LED module.

Energy-saving: the possibility to choose the correct drive current for LEDs will allow you to have the right power under specific design conditions, and also help you deal with maintenance and retrofitting problems. Using a lower current will improve the efficiency of fixtures and therefore increase energy savings, whilst a higher current will result in a higher light flux so that you can reduce the number of fixtures.

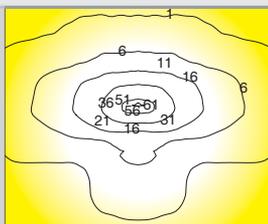
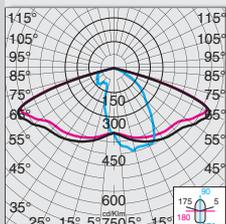
3281 Rolle - T2



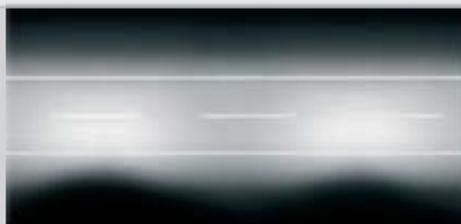
Example of project with art. 3281



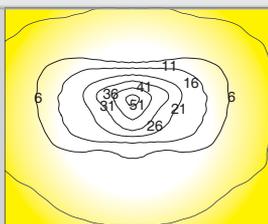
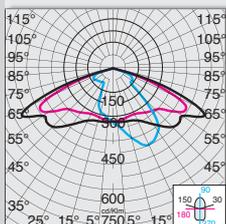
3282 Rolle - T3



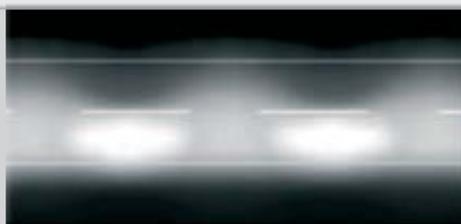
Example of project with art. 3282



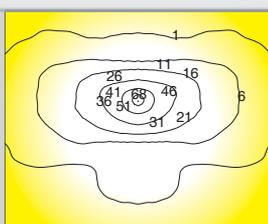
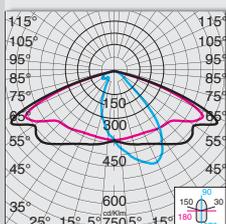
3283 Rolle - T4



Example of project with art. 3283



3284 Rolle - T5



Example of project with art. 3284

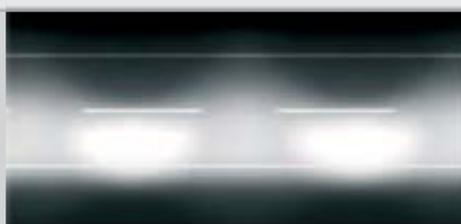


Table for the various options for managing the supply point

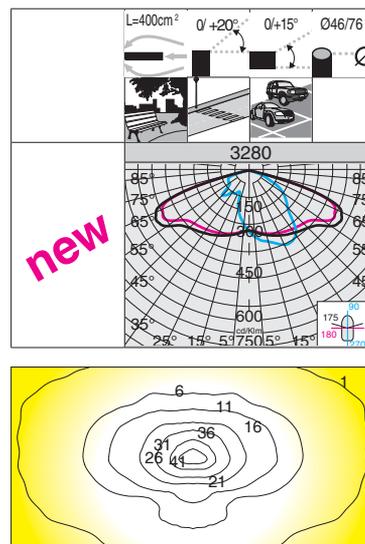
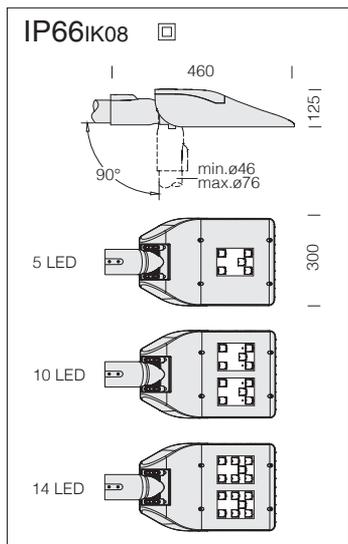
1-10V dimming	Virtual midnight	PLC remote control	Wi-Fi remote control (to be agreed upon)
Adjustment range from 10%-100% with 1-10V	Stand alone system with reduction of luminous flux	Point-to-point and system management and diagnosis system	Point-to-point and system management and diagnosis system with Wi-Fi system
Ordered with sub-code -12	Ordered with sub-code -30	Ordered with sub-code -0078	on request

Optical system: the modularity of the optical system, the solutions used for the electronic circuit design and the optimal control of operating temperatures, make the Rolle line a highly professional, flexible and reliable product, capable of guaranteeing huge application advantages in several situations

Photometric performance: designed with an optical system capable of controlling the potential glare created by the growing light intensity of LEDs while achieving high photometric performance. This allows the application in street lighting schemes where there is a significant distance between the poles. In these cases, greater light control is reached with the optics equipped with auxiliary lens.

Heat sink: the heat dissipation system is specially designed and made to allow the operation of the LED lights with temperatures ensuring excellent performance/efficiency and durability.





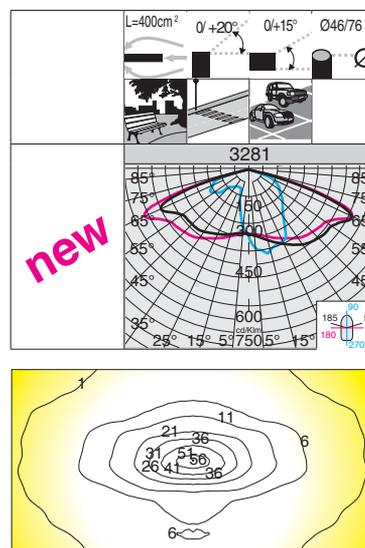
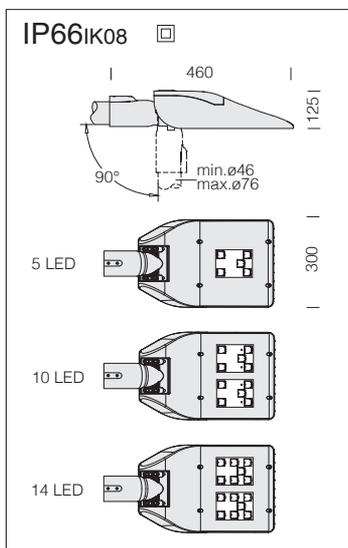
Optics: in PMMA, highly resistant to temperature and UV radiation.

LED: Luminous flux maintenance 80% 50.000h (L80B20)
Power factor ≥ 0.9

3280 Rolle - T1					
		CLD CELL		LED (Tj=25°C)	
wattage 700mA	colour	weight	code	W	K - ølm 700mA - CRI
LED	s. silver	10.50	330400-00	39	4000K - 4900lm - CRI 80
LED	s. silver	11.00	330401-00	78	4000K - 9800lm - CRI 80
LED	s. silver	13.00	330402-00	110	4000K - 13720lm - CRI 80

On request, possibility for the various options for managing the supply point (see table on p. 107).

	Electrical Power	n.LED	W	ølm
On request	350mA	5	19	2700 lm
		10	39	5400 lm
		14	53	7560 lm
On request	530mA	5	29	3675 lm
		10	58	7350 lm
		14	82	10290 lm



Optics: in PMMA, highly resistant to temperature and UV radiation.

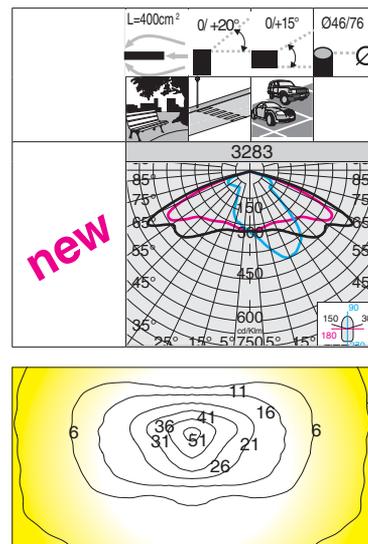
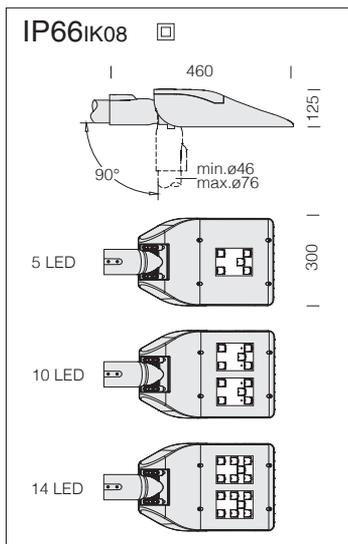
LED: Luminous flux maintenance 80% 50.000h (L80B20)
Power factor ≥ 0.9

3281 Rolle - T2					
		CLD CELL		LED (Tj=25°C)	
wattage 700mA	colour	weight	code	W	K - ølm 700mA - CRI
LED	s. silver	10.50	330410-00	39	4000K - 4900lm - CRI 80
LED	s. silver	11.00	330411-00	78	4000K - 9800lm - CRI 80
LED	s. silver	13.00	330412-00	110	4000K - 13720lm - CRI 80

On request, possibility for the various options for managing the supply point (see table on p. 107).

	Electrical Power	n.LED	W	ølm
On request	350mA	5	19	2700 lm
		10	39	5400 lm
		14	53	7560 lm
On request	530mA	5	29	3675 lm
		10	58	7350 lm
		14	82	10290 lm





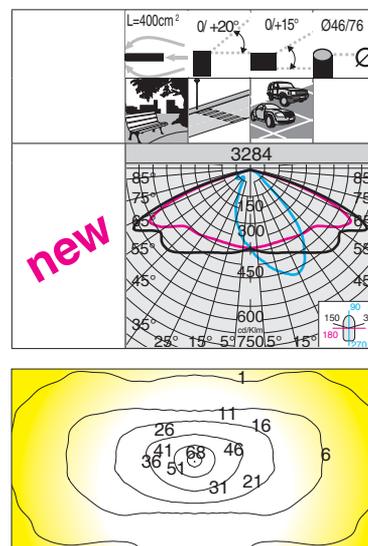
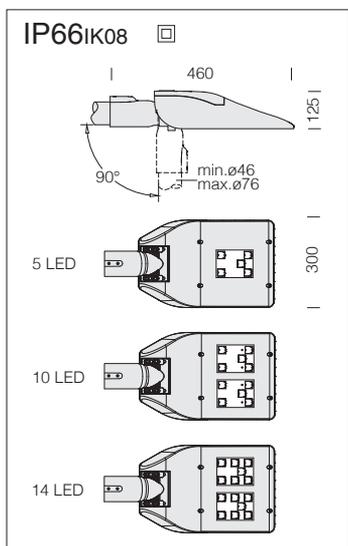
Optics: in PMMA, highly resistant to temperature and UV radiation.

LED: Luminous flux maintenance 80% 50.000h (L80B20)
Power factor ≥ 0.9

3283 Rolle - T4					
		CLD CELL		LED (Tj=25°C)	
wattage 700mA	colour	weight	code	W	K - ølm 700mA - CRI
LED	s. silver	10.50	330430-00	39	4000K - 4900lm - CRI 80
LED	s. silver	11.00	330431-00	78	4000K - 9800lm - CRI 80
LED	s. silver	13.00	330432-00	110	4000K - 13720lm - CRI 80

On request, possibility for the various options for managing the supply point (see table on p. 107).

	Electrical Power	n.LED	W	ølm
On request	350mA	5	19	2700 lm
		10	39	5400 lm
		14	53	7560 lm
On request	530mA	5	29	3675 lm
		10	58	7350 lm
		14	82	10290 lm



Optics: in PMMA, highly resistant to temperature and UV radiation.

LED: Luminous flux maintenance 80% 50.000h (L80B20)
Power factor ≥ 0.9

3284 Rolle - T5					
		CLD CELL		LED (Tj=25°C)	
wattage 700mA	colour	weight	code	W	K - ølm 700mA - CRI
LED	s. silver	10.50	330440-00	39	4000K - 4900lm - CRI 80
LED	s. silver	11.00	330441-00	78	4000K - 9800lm - CRI 80
LED	s. silver	13.00	330442-00	110	4000K - 13720lm - CRI 80

On request, possibility for the various options for managing the supply point (see table on p. 107).

	Electrical Power	n.LED	W	ølm
On request	350mA	5	19	2700 lm
		10	39	5400 lm
		14	53	7560 lm
On request	530mA	5	29	3675 lm
		10	58	7350 lm
		14	82	10290 lm





Housing: in die-cast aluminium with latch.

Diffuser: tempered glass, 4 mm thick, resistant to thermal shock and impact (UNI En 12150-1/2001).

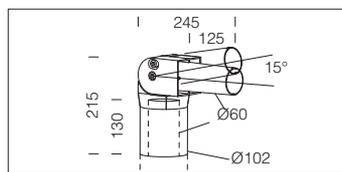
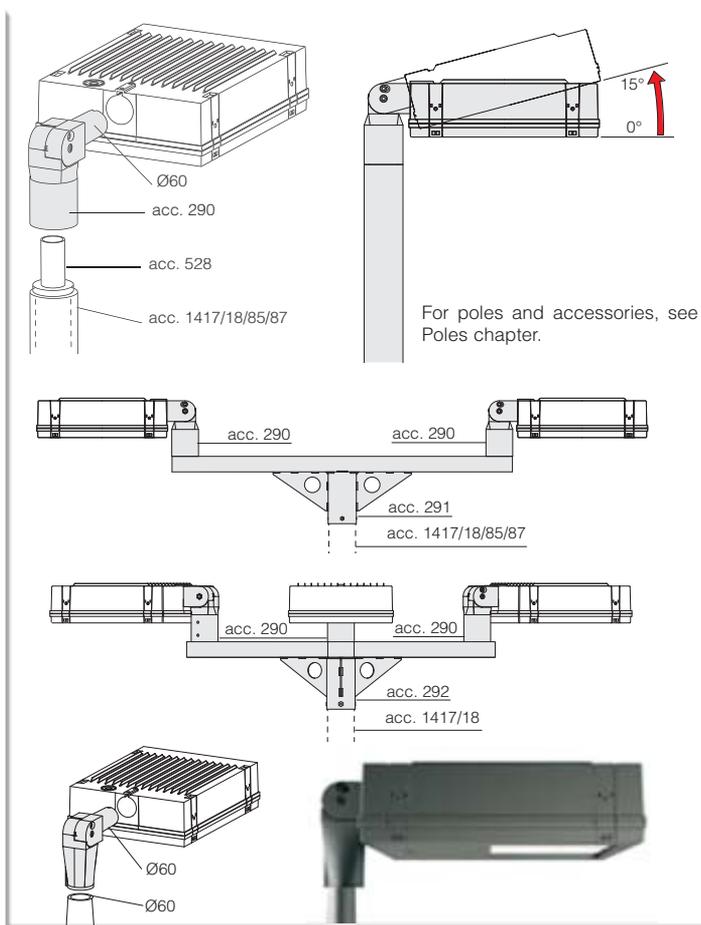
Optics: in PMMA, highly resistant to temperature and UV radiation

Coating: multi-stage process. Stage 1: grey epoxy cationic electrocoating, resistant to corrosion and saline environments. Stage 2: UV-stabilising priming. Stage 3: gray graphite acrylic finishing.

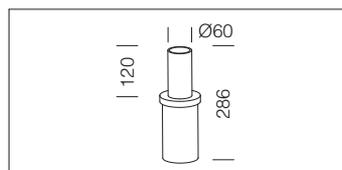
Equipment: automatic temperature control device. In the event of an unexpected temperature rise caused by particular weather conditions or LED malfunctioning, the system will reduce the drive current as the LED gets warmer, reducing the lamp's operating temperature and guaranteeing proper operation. Supplied with a safety diode to protect against peak loads.

LED: -Luminous flux maintenance 70% 60000h (L70B20)
Power factor ≥0.9

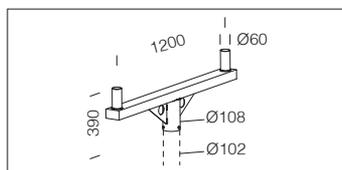
Accessories Pordoi



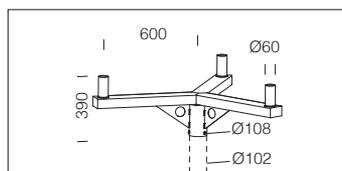
acc. 290 joint	
graphite	991442-00
Always use for application with poles with acc. 1417/18 (see section on "Poles")	



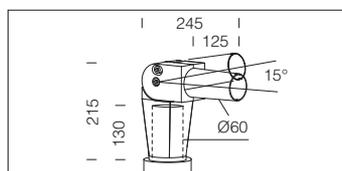
acc. 528 mast-top connection	
graphite	991463-00
In steel. To be used as a mast-top connection	



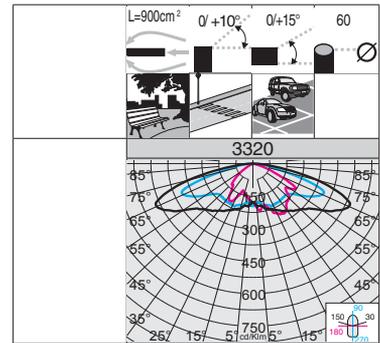
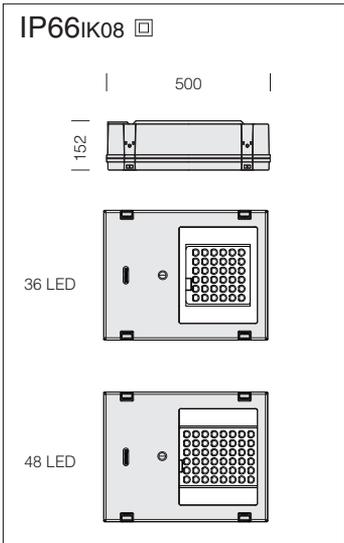
acc. 291 dual arm	
graphite	991444-00
Always use with 2 acc. 290 for mounting on dual arm. We recommend using poles acc. 1417/18/85/87 (see section on "Poles")	



acc. 292 triple arm	
graphite	991443-00
Always use with 3 acc. 290 for mounting on triple arm. We recommend using poles acc. 1485/1487 (see section on "Poles")	

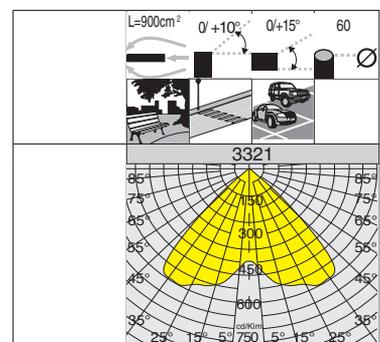
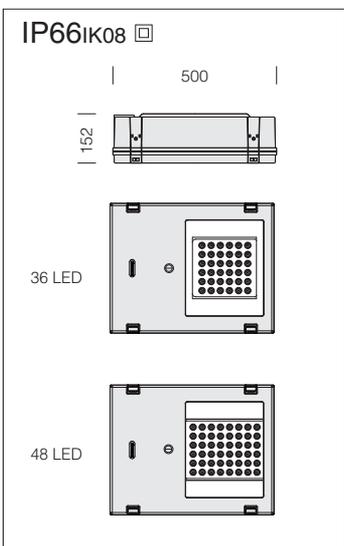


acc. 290 joint	
graphite	991439-00
To be used for installation on poles with Ø60.	



3320 - Pordoi 4 - Power LED - street lighting					
		CLD CELL		LED (Tj=25°C)	
wattage 530mA	colour	weight	code	W	K - ølm 530mA - CRI
LED	graphite	10.00	328150-00	54	4000K - 7668lm - CRI>70
LED	graphite	10.00	328151-00	72	4000K - 10224lm - CRI>70

On request, possibility for the various options for managing the supply point (see table on p. XVII).

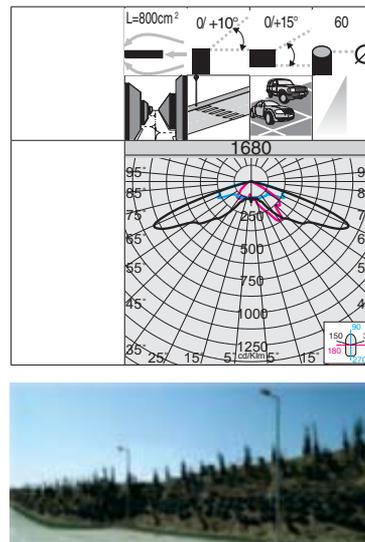
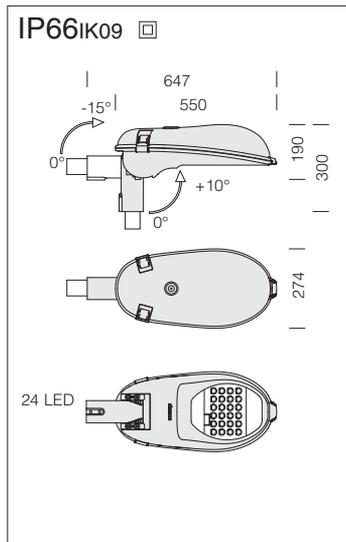


3321 - Pordoi 5 - Power LED - wide beam					
		CLD CELL		LED (Tj=25°C)	
wattage 530mA	colour	weight	code	W	K - ølm 530mA - CRI
LED	graphite	10.00	328160-00	54	4000K - 7668lm - CRI>70
LED	graphite	10.00	328161-00	72	4000K - 10224lm - CRI>70

On request, possibility for the various options for managing the supply point (see table on p. XVII).





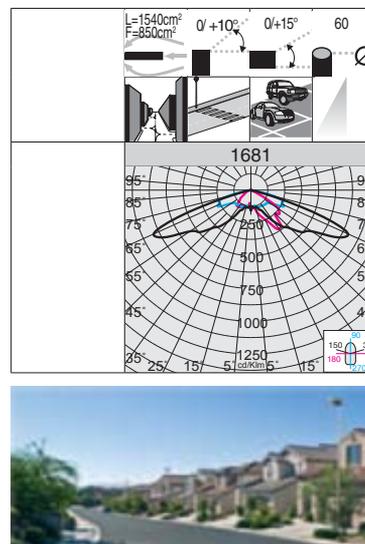
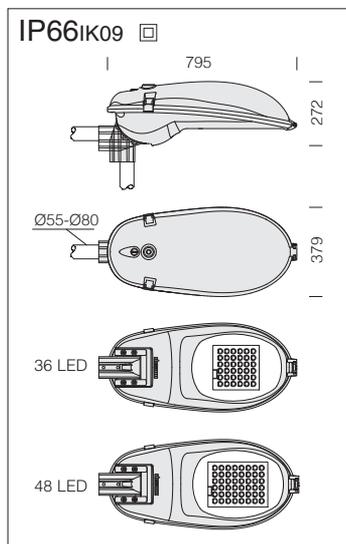


Housing: in die-cast aluminium.
Cover: in die-cast aluminium, tool-free hinge opening. With sealing latches and stainless steel safety device against accidental closure.
Optiques: en PMMA à haute résistance aux températures et aux rayons U.V.
Diffuser: tempered glass, 5 mm thick, resistant to thermal shock and impacts (UNI EN 12150-1:2001 tests).
Optics: in PMMA, highly resistant to temperature and UV radiation.
LED: Luminous flux maintenance 70% 60000h (L70B20)
 Power factor ≥ 0.9

1680 - MiniBrera 1 - Power LED - street lighting					
		CLD CELL			LED (Tj=25°C)
wattage 530mA	colour	weight	code	W	K - ø1m 530mA - CRI
LED	graphite	5.40	325350-00	36	4000K - 5112lm - CRI>70

On request, possibility for the various options for managing the supply point (see table on p. XVII).

Equipment: automatic temperature control device.
 In the event of an unexpected temperature rise caused by particular weather conditions or LED malfunctioning, the system will reduce the drive current as the LED gets warmer, reducing the lamp's operating temperature and guaranteeing proper operation. Supplied with a safety diode to protect against peak loads.



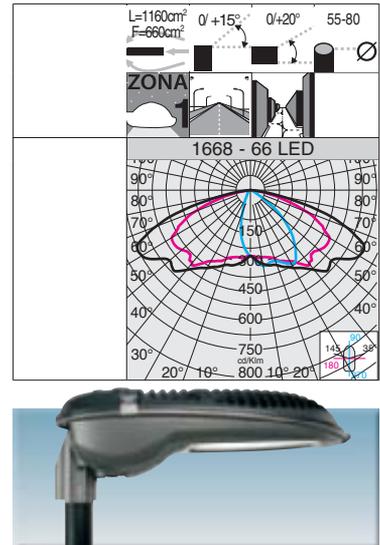
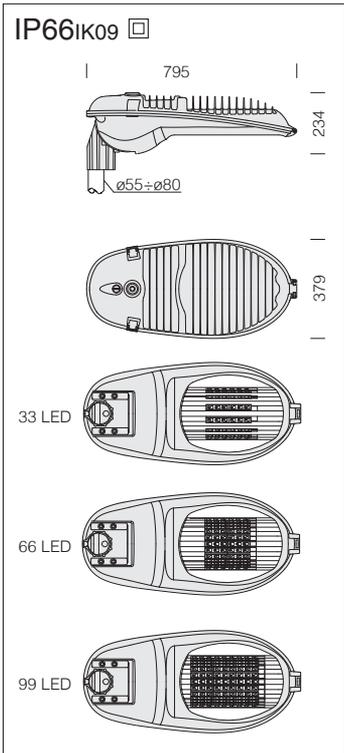
LED: Luminous flux maintenance 70% 60000h (L70B20)
 Power factor ≥ 0.9

1681 - Brera 1 - Power LED - street lighting					
		CLD CELL			LED (Tj=25°C)
wattage 530mA	colour	weight	code	W	K - ø1m 530mA - CRI
LED	graphite	12.70	325370-00	54	4000K - 7668lm - CRI>70
LED	graphite	13.00	325371-00	72	4000K - 10224lm - CRI>70

On request, possibility for the various options for managing the supply point (see table on p. XVII).







1668 Brera - Power LED					
		CLD CELL		LED (T _j =25°)	
wattage (700mA)	colour	weight	code	W	K - ølm(700mA) - CRI
LED	graph. + anthrac.	13.90	324330-00	82	6000K - 7920lm - CRI>70
LED	graph. + anthrac.	14.90	324331-00	150	6000K - 14520lm - CRI>70
LED	graph. + anthrac.	16.90	324332-00	225	6000K - 21780lm - CRI>70

On request: 4000K LED. Possibility for the various options for managing the supply point (see table on p. XVII).

Housing: in die-cast aluminium.

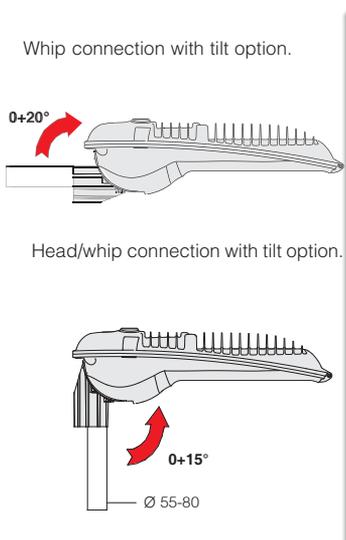
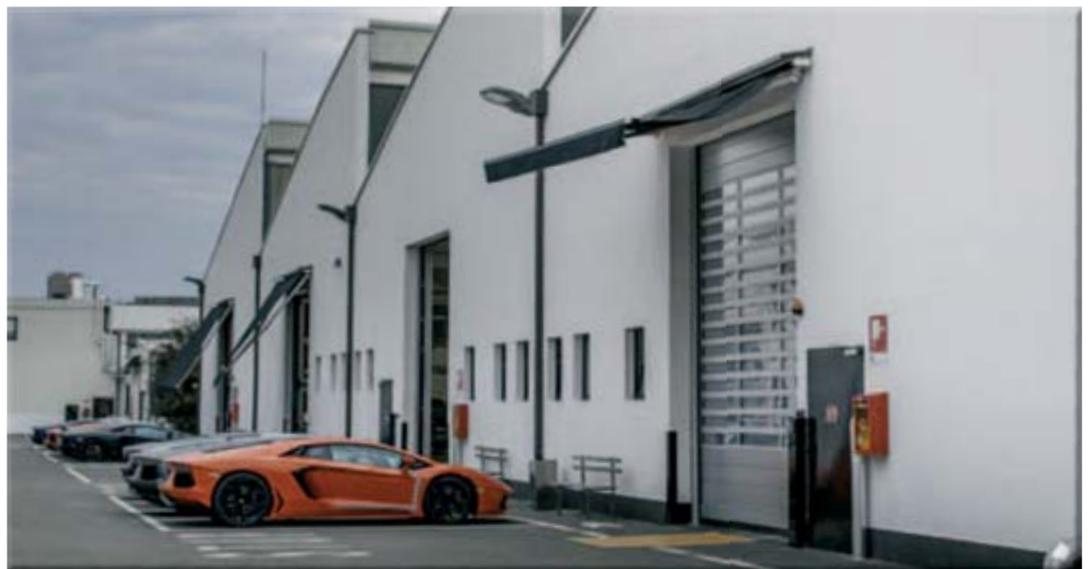
Optics: in metallized polycarbonate.

Cover/heat sink: in die-cast aluminium, tool-free hinge opening. With sealing latches and stainless steel safety device against accidental closure.

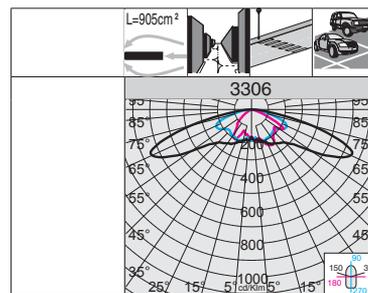
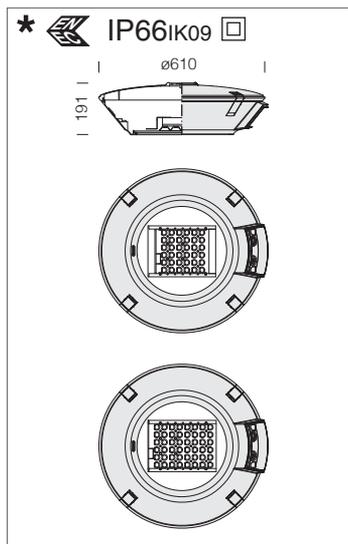
Diffuser: tempered glass, 5 mm thick, resistant to thermal shock and impacts (UNI EN 12150-1:2001 tests)

Equipment: temperature control inside the device with automatic resetting. Safety diode to protect against voltage peaks compliant with EN 61547.

LED:
Luminous flux maintenance 70% 60000h (L70B20)
Power factor ≥0.9







Housing: in die-cast aluminium. Closing hooks are made of die-cast aluminium with retractable safety screws and AISI 304 stainless steel springs.

Diffusers: in tempered glass, 5 mm thick, resistant to thermal and mechanical shock (UNI EN 12150-1/2001).

Equipment: temperature control inside the device with automatic resetting. Safety diode to protect against voltage peaks compliant with EN 61547. With dedicated electronic device to protect the LED module.

Optics: in PMMA, highly resistant to temperature and UV radiation.

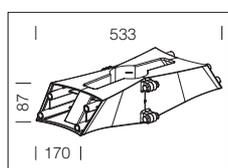
LED: Luminous flux maintenance 70% 60000h (L70B20)
Power factor ≥ 0.9

3306 - Visconti 7 - Power LED - street lighting					
		CLD CELL		W	LED (Tj=25°C)
wattage 530mA	colour	weight	code		K - ϕ lm 530mA - CRI
LED	graphite	10.60	328070-00	54	4000K - 7668lm - CRI>70
LED	graphite	10.60	328071-00	72	4000K - 10224lm - CRI>70

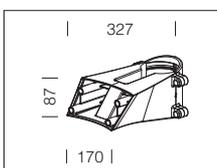
On request, possibility for the various options for managing the supply point (see table on p. XVII).

	Electrical Power	n.LED	W	ϕ lm
On request	350mA	36	34	4788 lm
		48	46	6384 lm
Standard	530mA	36	54	7668 lm
		48	72	10224 lm

Energy-saving: the possibility to choose the correct drive current for LEDs will allow you to have the right power under specific design conditions, and also help you deal with maintenance and retrofitting problems. Using a lower current will improve the efficiency of fixtures and therefore increase energy savings, whilst a higher current will result in a higher light flux so that you can reduce the number of fixtures.

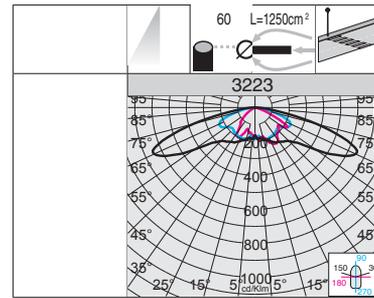
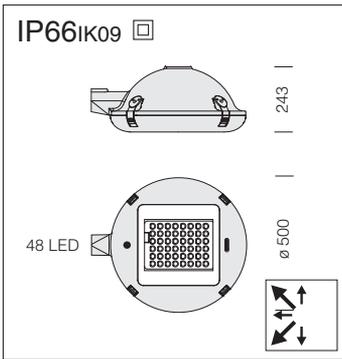


acc. 282 dual pole mounting arm	
graphite	991434-00
In die-cast aluminium. We recommend using poles acc. 1485/87 - 1417/18	



acc. 281 single pole mounting arm	
graphite	991432-00
In die-cast aluminium. We recommend using poles acc. 1485/87 - 1417/18	





Housing: made of die-cast aluminium.

Diffuser: tempered glass, 5 mm thick, thermal shock and impact resistant (UNI EN 12150 tests 1/2001).

Equipment: temperature control inside the device with automatic resetting. Safety diode to protect against voltage peaks compliant with EN 61547.

Ópticas: en PMMA con alta resistencia a las temperatura y a los rayos U.V.

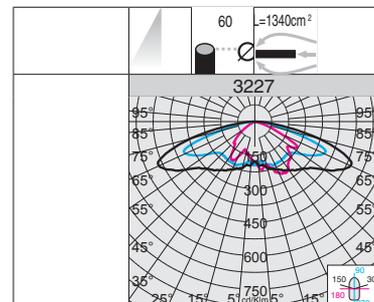
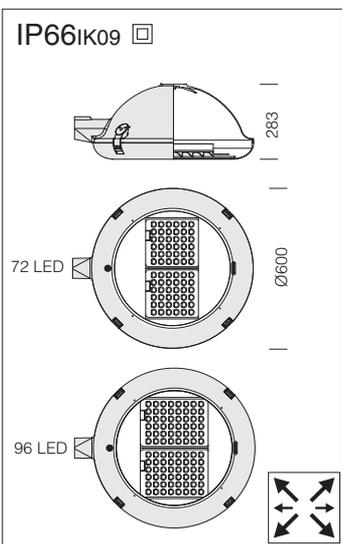
LED: Power factor ≥ 0.9
Luminous flux maintenance 70%
60000h (L70B20)

3223 Sforza - Power LED with mast-top - asymmetric

		CLD CELL		CLD CELL bipower version	W	LED (Tj=25°C)
wattage (530mA)	colour	weight	code	code		K - ϕ lm 530mA - CRI
LED	silv.+graph.	12.00	327111-00	327111-30	72	4000K - 10224lm CRI \geq 70

On request, possibility for the various options for managing the supply point (see table on p. XVII).

	Electrical Power	n.LED	W	ϕ lm
On request	350mA	48	46	6864 lm
Standard	530mA	48	72	10224 lm

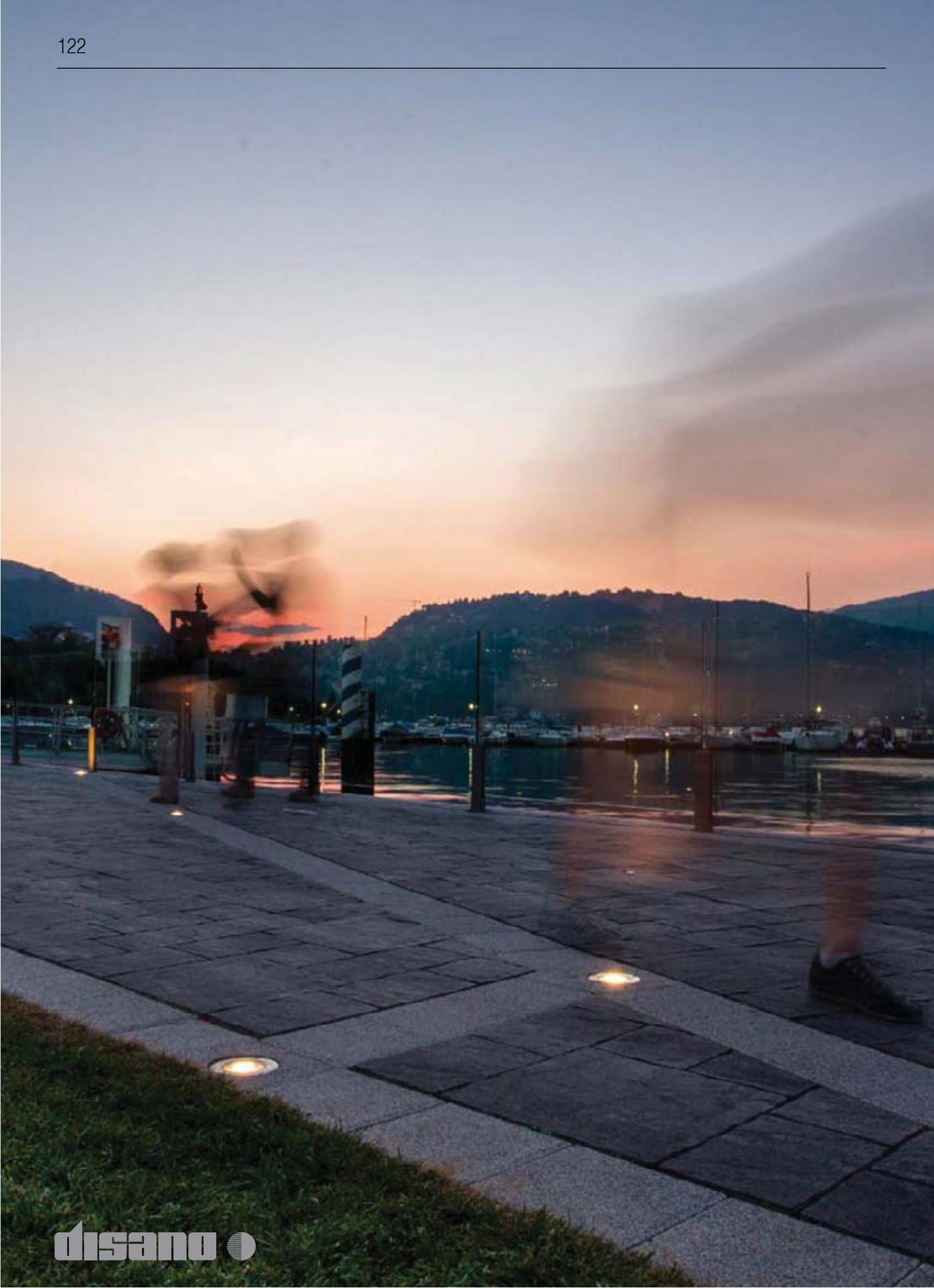


3227 Sforza - Power LED mast top

		CLD CELL		W	LED (Tj=25°C)
wattage (530mA)	colour	weight	code		K - ϕ lm 530mA - CRI
LED	silv.+graph.	10.60	327150-00	108	4000K - 15336lm - CRI \geq 70
LED	silv.+graph.	10.60	327151-00	144	4000K - 20448lm - CRI \geq 70

On request, possibility for the various options for managing the supply point (see table on p. XVII).

	Electrical Power	n.LED	W	ϕ lm
On request	350mA	72	68	10296 lm
		96	91	13728 lm
Standard	530mA	72	108	15336 lm
		96	144	20448 lm





Bitta p. 124
 Expo p. 126
 Faro p. 128
 Faro 3 p. 129
 Faro 4 p. 129
 Faro 2 p. 130
 Olbia p. 131



Cilindro p. 132
 Musa p. 134
 Clessidra p. 136
 Onda p. 138



Meridiana p. 139
 Lord p. 140
 Orione p. 141



Vega p. 141
 Koala p. 142
 Elfo p. 144



Mini p. 146
 Starled p. 147
 Microfloor p. 148
 Midifloor p. 151



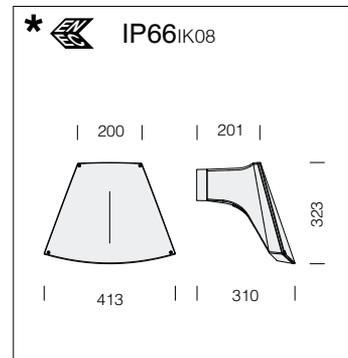
Minifloor p. 152
 Floor p. 154
 Starled p. 156
 Fonte p. 160



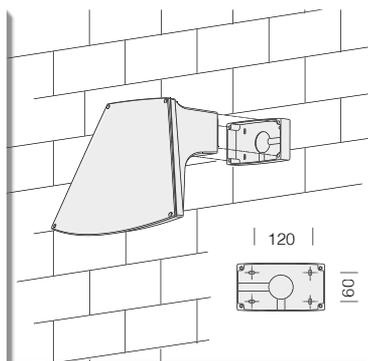
Mini p. 161
 Spy p. 162
 Box p. 164
 Sicura p. 168



Miniquadro p. 170
 Quadro p. 172
 Mininomade/Nomade p. 174

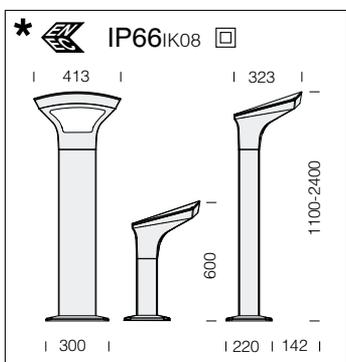


Housing: in die-cast aluminium.
Reflector: in cast aluminium, matt-finished and polished.
Diffuser: in opal, V2 polycarbonate, shatterproof and self-extinguishing, UV-stabilised.



1841 Bitta 2 wall version - LED					
		CLD CELL		W	LED (T _j =25°C)
wattage (110mA)	colour	weight	code		K - ølm 110mA - CRI
LED	s. silver	3,20	511440-00	10	4000K - 936lm - CRI 80
LED	graphite	3,20	511441-00		
LED	anthracite	3,20	511442-00		
LED	corten	3,20	511440-2191		

Comes with mounting connection.



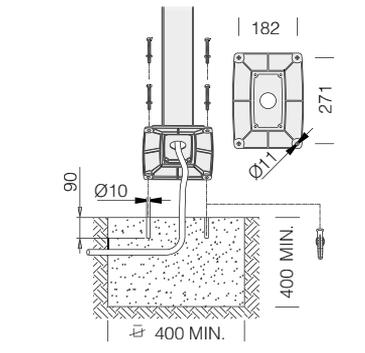
Housing/Base: in die-cast aluminium.

Column: in extruded aluminium.

Standard supply: the column version is equipped with anchors and socket-plug connector for quick installation.

1840 Bitta 1- LED

wattage (110mA)	colour	CLD CELL			W	LED (Tj=25°C) K - ølm 110mA - CRI
		weight	code	h		
LED	s. silver	6.20	511430-00	600	10	4000K - 936lm - CRI 80
LED	graphite	6.20	511432-00			
LED	anthracite	6.20	511433-00			
LED	corten	6.20	511430-2191	1100	10	4000K - 936lm - CRI 80
LED	s. silver	8.20	511435-00			
LED	graphite	8.20	511436-00			
LED	anthracite	8.20	511437-00			
LED	corten	8.20	511435-2191	2400	24	(350 mA) 4000K - 3120lm - CRI 80
LED	s. silver	13.00	511443-00			
LED	graphite	13.00	511444-00			
LED	anthracite	13.00	511445-00			
LED	corten	13.00	511443-2191			





Optical compartment housing: in die-cast aluminium.

Column: in extruded aluminium.

Base: in die-cast aluminium with internal reinforcement ribs.

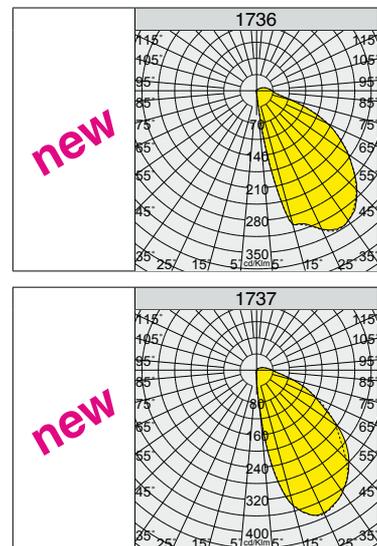
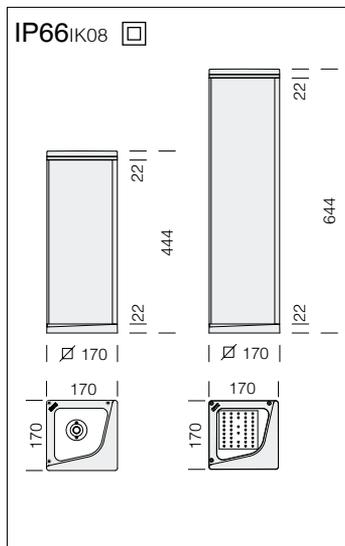
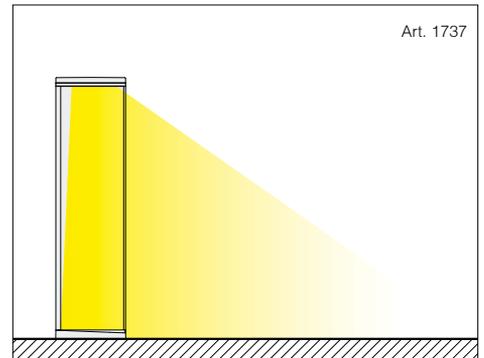
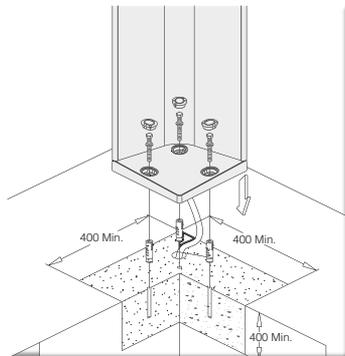
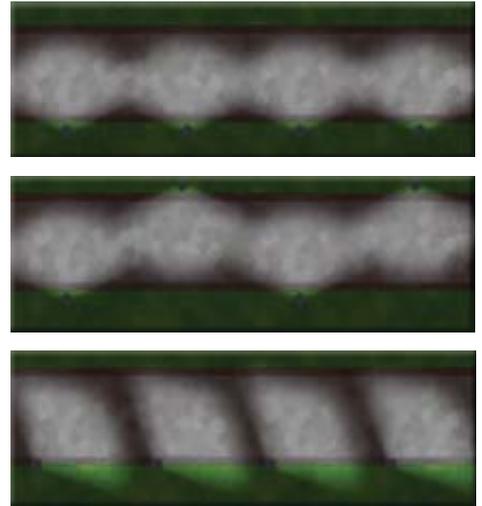
Diffuser: wide-beam, in high-efficiency V0 transparent polycarbonate with internal micro-prismatic surface.

Coating: frame coating is done in several stages. The first stage consists of epoxy cationic electro-coating to improve resistance to corrosion and saline environments. The frame is then coated with eco-friendly, UV-stabilised acrylic resin finish.

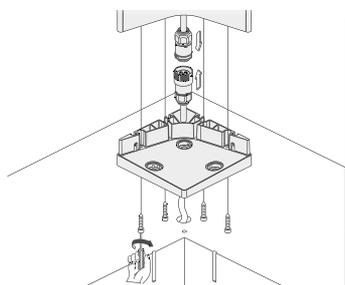
Equipment: complete with IP67 watertight connector for line connection. Easy and quick to install.



Installation example

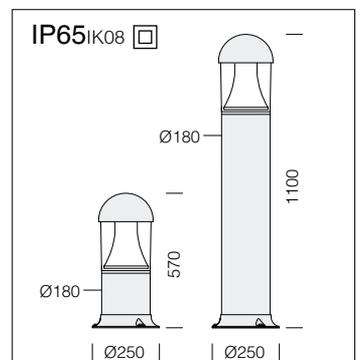
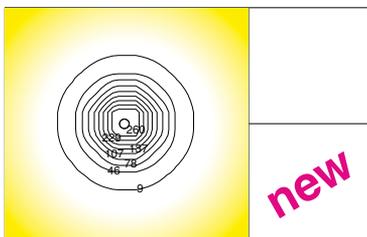


LED: Power factor >0,92
Luminous flux maintenance
70%: 50000h (L70B20)



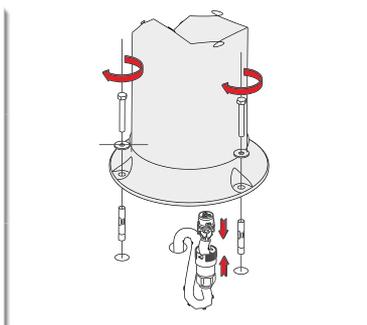
1736 Expo LED - short version						
			CLD CELL		LED (Tj=25°C)	
wattage (230V)	colour	h	weight	code	W	K - ølm 230V - CRI
LED	s. silver	444	5.00	511120-00	7	4000K - 800lm - CRI80
LED	graphite		5.00	511121-00		
LED	s. silver+graph.		5.00	511122-00		

1737 Expo LED - tall version							
			CLD CELL		LED (Tj=25°C)		
wattage (350mA)	colour	h	weight	code	W	K - ølm 350mA - CRI	
LED	s. silver	644	6.00	511123-00	13	4000K - 1700lm - CRI80	
LED	graphite		6.00	511124-00			
LED	s. silver+graph.		6.00	511125-00			
wattage (700mA)							K - ølm 700mA - CRI
LED	s. silver		644	6.00	511130-00	15	4000K - 2160lm - CRI80
LED	graphite			6.00	511131-00		
LED	s. silver+graph.	6.00		511132-00			



Housing: in extruded aluminium, cylindrical section.

Standard supply: complete with base and anchors.

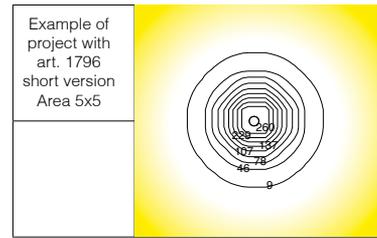
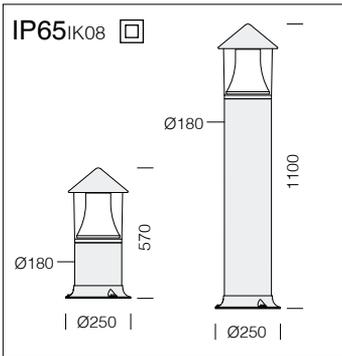


1798 Faro 4 LED - short version

		CLD CELL		W	LED (Tj=25°C)
wattage (110mA)	colour	weight	code	10	K - ølm 110mA - CRI
LED	graphite	4.80	510600-00		4000K - 900lm - CRI 80
LED	corten	4.80	510600-2191		

1798 Faro 4 LED - tall version

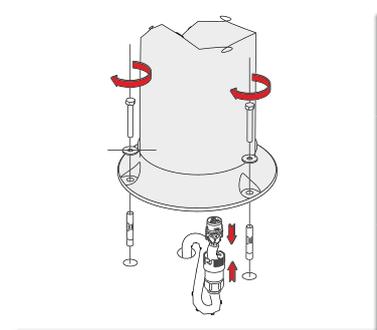
		CLD CELL		W	LED (Tj=25°C)
wattage (110mA)	colour	weight	code	10	K - ølm 110mA - CRI
LED	graphite	7.10	510610-00		4000K - 900lm - CRI 80
LED	corten	7.10	510610-2191		



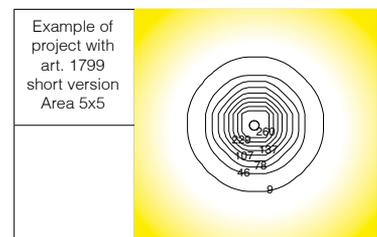
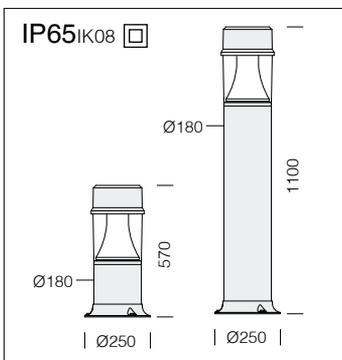
Housing: in extruded aluminium, cylindrical section.

Standard supply: complete with base and anchors.

1797 Faro 3 LED - short version					
		CLD CELL		W	LED (Tj=25°C)
wattage (110mA)	colour	weight	code	10	K - ølm 110mA - CRI
LED	graphite	4.30	510015-00		4000K - 900lm - CRI 80
LED	corten	4.30	510015-2191		



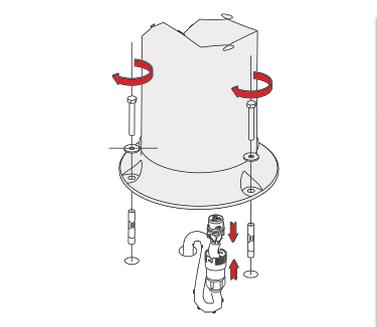
1796 Faro 3 LED - tall version					
		CLD CELL		W	LED (Tj=25°C)
wattage (110mA)	colour	weight	code	10	K - ølm 110mA - CRI
LED	graphite	6.70	510025-00		4000K - 900lm - CRI 80
LED	corten	6.70	510025-2191		



Housing: in extruded aluminium, cylindrical section.

Standard supply: complete with base and anchors.

1799 Faro 4 LED - short version					
		CLD CELL		W	LED (Tj=25°C)
wattage (110mA)	colour	weight	code	10	K - ølm 110mA - CRI
LED	graphite	4.80	511015-00		4000K - 900lm - CRI 80
LED	corten	4.80	511015-2191		

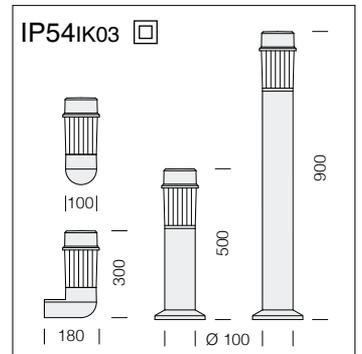
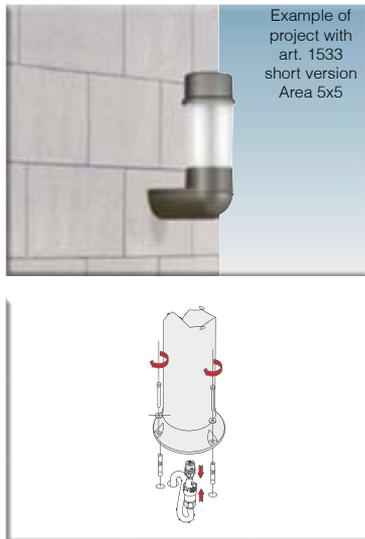


1798 Faro 4 LED - tall version					
		CLD CELL		W	LED (Tj=25°C)
wattage (110mA)	colour	weight	code	10	K - ølm 110mA - CRI
LED	graphite	7.10	511025-00		4000K - 900lm - CRI 80
LED	corten	7.10	511025-2191		





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Housing: in extruded aluminium, cylindrical section.

Standard supply: complete with base and anchors and cable plug and socket.

1533 Faro 2 LED - short version

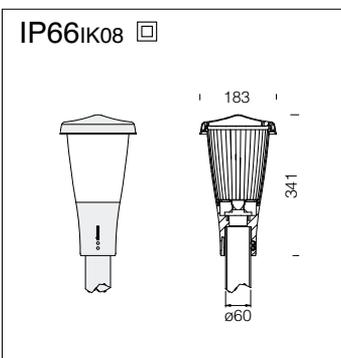
		CLD CELL		W	LED (Tj=25°C)
wattage (24V)	colour	weight	code	10	K - ølm (125mA) - CRI
LED	graphite	2,20	510260-00		4000K - 684lm - CRI 80
LED	corten	2,20	510260-2191		

1531 Faro 2 LED - tall version

		CLD CELL		W	LED (Tj=25°C)
wattage (24V)	colour	weight	code	10	K - ølm (125mA) - CRI
LED	graphite	2,90	510060-00		4000K - 684lm - CRI 80
LED	corten	2,90	510060-2191		

1533 Faro 2 LED - wall version

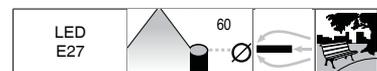
		CLD CELL		W	LED (Tj=25°C)
wattage (24V)	colour	weight	code	10	K - ølm (125mA) - CRI
LED	graphite	1,60	510460-00		4000K - 684lm - CRI 80
LED	corten	1,60	510460-2191		



Housing/ Cap: in die-cast aluminium.

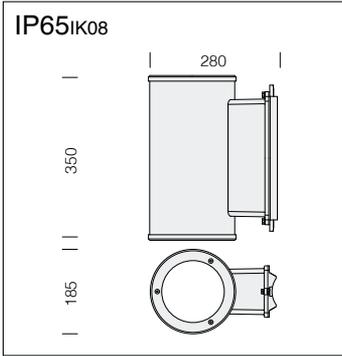
Diffuser: in shatterproof and self-extinguishing V2 polycarbonate.

Standard supply: equipped with cable plug and socket.

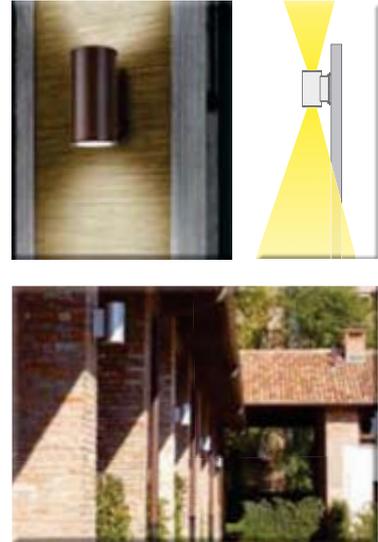


1759 Olbia 2 - LED					
		CLD S+L		LED (Tj=25°C)	
wattage	colour	weight	code	W	K - ølm - CRI
LED	silver	1,40	424220-00	10	3000K - 860lm - CRI 80
LED	graphite	1,40	424221-00		
LED	green	1,40	424222-00		



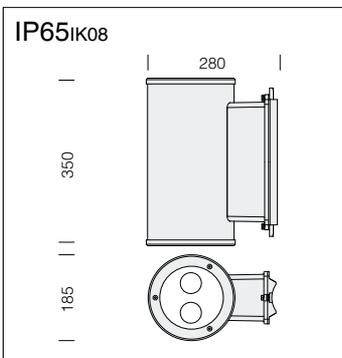


Housing: die-cast aluminium.
Diffuser: tempered glass, 4 mm thick, shock and heat resistant.
LED: Power factor ≥ 0.9
 Luminous flux maintenance 70%
 50000h (L70B50).

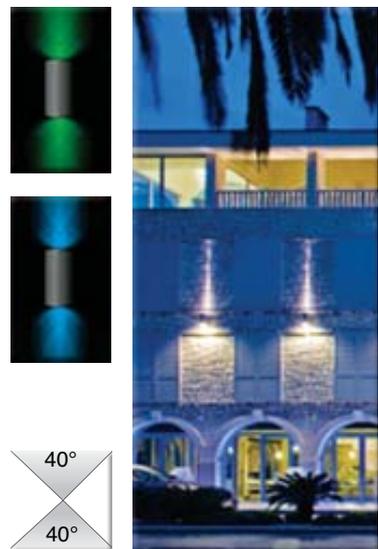


1293 Cilindro 4 - LED					
		CLD CELL		W	LED (T _p =25°C)
wattage 700mA	colour	weight	code	39	K - ølm 700mA
LED	s. silver	6.90	420410-00		4000K - 3000+1700lm - FM+FM
LED	s. silver	6.90	420427-00		4000K - 3000+1700lm - FS+FM
Standard version includes double switching.					

new

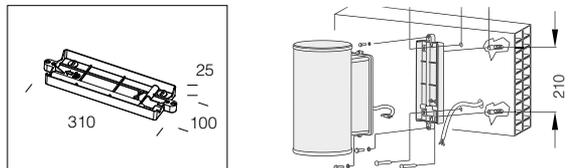


Housing: die-cast aluminium.
Diffuser: tempered glass, 4 mm thick, shock and heat resistant.



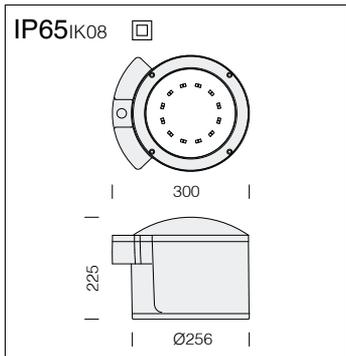
1288 Cilindro - Power LED RGB					
		CLD CELL		W	LED (T _j =25°C)
wattage (350mA)	colour	weight	code	4x3,3	ølm 350mA - degrees
2x3,3W sup. + 2x3,3W inf.	s. silver	4.00	420411-00		R=40x2 - G=90x2 - B=30x2 - 40°+40°
	corten	4.00	420411-2191		

acc. 401 wall mounting	
s. silver	420450-00
corten	420450-2191
For Cilindro.	



acc. 65 Remote Control for LED RGB	
black	986507-00
On-off function, mixing and colour transition.	



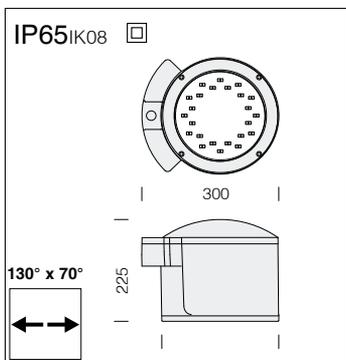
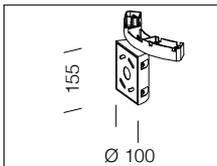


Housing: die-cast aluminium.
Diffuser: resistant to thermal shock and impact 4 mm thick tempered glass.(test UNI EN 12150-1: 2001).

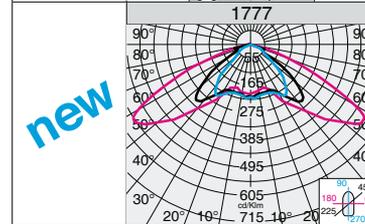


1779 Musa - LED				
		CLD CELL		LED (Tj=25°C)
wattage (350mA)	colour	weight	code	K - ølm 350mA - CRI
LED	silver + graph.	4.50	423555-00	4000K - 1716lm - CRI70
Incorporated power supply 220-240V 50/60 Hz.				

acc. 364 single pole connector
 graphite 998020
 In die-cast aluminium. For installation on a dia. 60 lighting pole in the single lamp version.



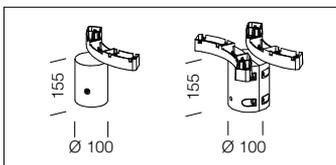
W



1777 Musa - Power LED - pedestrian					
		CLD CELL			LED (Tj=25°C)
wattage (350mA)	colour	weight	code	Beam angle	W
LED	silver + graph.	4.50	423550-00	130° x 70°	23
					K - ølm 350mA - CRI
					4000K - 3432lm - CRI70

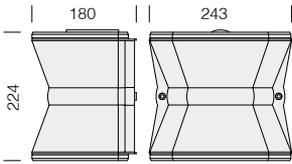
acc. 366 wall connection
 graphite 998024
 In die-cast aluminium. for wall mounting.

acc. 365 double pole connector
 graphite 998022
 In die-cast aluminium. For installation on a dia. 60 lighting pole in the two-lamp version.

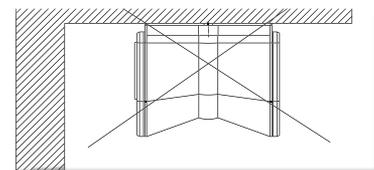
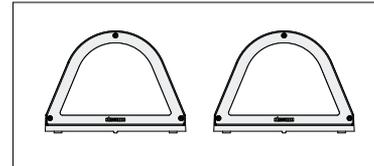




IP65IK07



Housing: die-cast aluminium.
Diffuser: tempered shock and heat resistant glass.

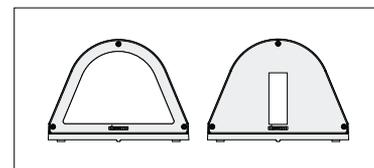
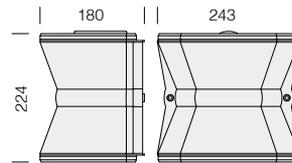


1550 Clessidra 4 - Power LED direct /indirect

wattage	colour	CLD CELL		W	LED (Tj=25°C) K - ølm - CRI
		weight	code		
LED	s. silver	2.70	420590-00	35	4000K - 2 x 1340lm - CRI 80
LED	graphite	2.70	420592-00		
LED	corten	2.70	420590-2191		



IP65IK07



1554 Clessidra 5 - Power LED direct /indirect

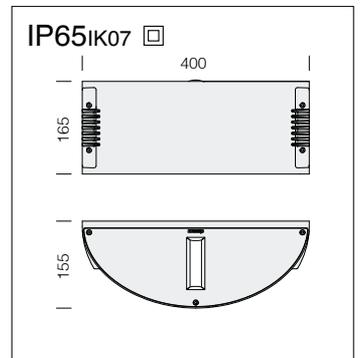
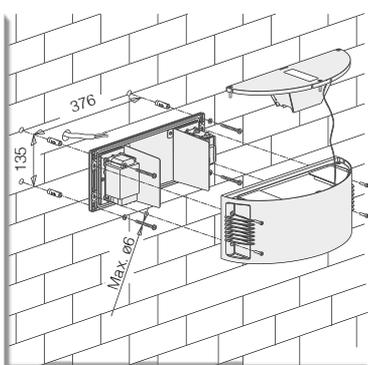
wattage	colour	CLD CELL		W	LED (Tj=25°C) K - ølm - CRI
		weight	code		
LED	graphite	2.70	420598-00	20	4000K - 1300dir. + 240ind. lm - CRI 80
LED	s. silver	2.70	420599-00		
LED	corten	2.70	420598-2191		





Housing/Frame: in die-cast aluminium.

Diffuser: in tempered glass, 8 mm thick, thermal shock and impact resistant.



LED: Power factor ≥ 0.9

1279 Onda - Power LED - direct/indirect light					
wattage (700mA)	colour	CLD CELL		W	LED (T _j =25°C)
		weight	code		K - ø1m 700mA
LED	white	3.60	420322-00	15,4	4000K - 240lm + 1440lm - CRI \geq 70
LED	s. silver	3.60	420324-00		
LED	graphite	3.60	420325-00		
LED	corten	3.60	420322-2191		

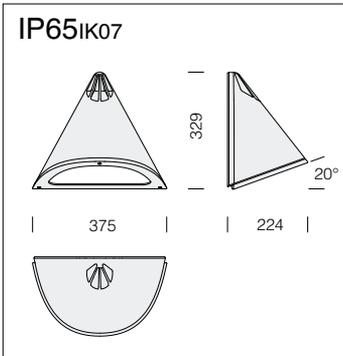
Incorporated power supply 220-240V 50/60 Hz.

Housing/Frame: in die-cast aluminium.

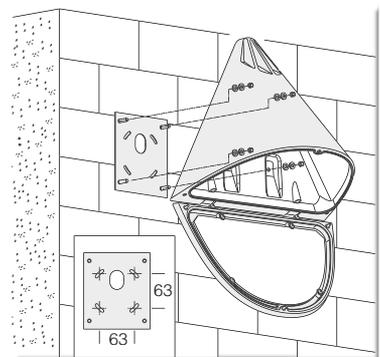
Diffuser: in tempered glass, 8 mm thick, thermal shock and impact resistant.

Possibility for indirect lighting.

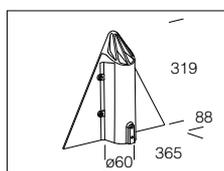
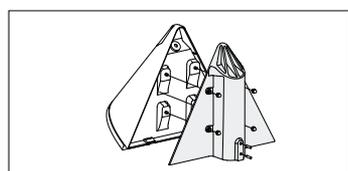
Supplied with plate for wall installation.



LED: Power factor ≥ 0.9

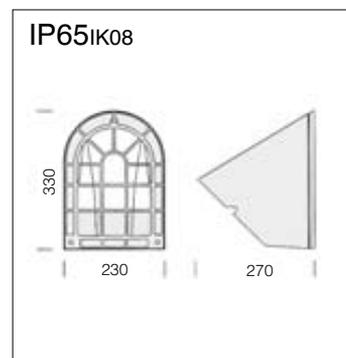


1282 Meridiana LED					
		CLD CELL		W	LED (Tj=25°C)
wattage (350mA)	colour	weight	code		K - ϕ lm 350mA
LED	s. silver	4.00	423095-00	17	4000K - 2000lm - CRI \geq 80
LED	graphite	4.00	423096-00		



acc. 96 Pole connection ϕ 60	
s. silver	991217-00
graphite	991218-00

In die-cast aluminium. To be used for fixing Meridiana on pole ϕ 60.



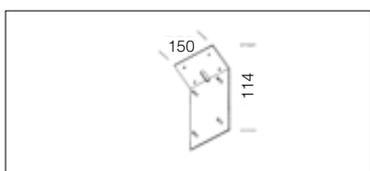
Housing/frame: in die-cast aluminium.

Reflector: in high-grade 99.85 aluminium.

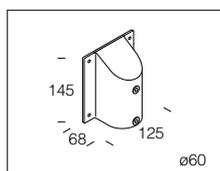
Diffuser: tempered glass, resistant to impact and thermal shock.

LED: 10W = 60 INC, 15.000 hours

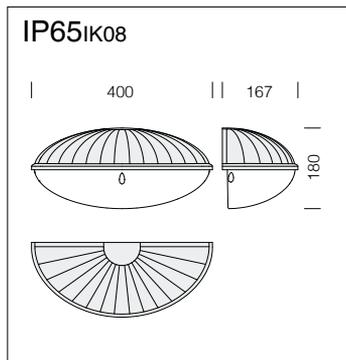
1757 Lord - LED BULB					
		CLD S+L		W	LED (Tj=25°C)
wattage	colour	weight	code		K - ølm - CRI
LED	graphite	3.50	421181-00	10	3000K - 860lm - CRI≥80
LED	white	3.50	421180-00		



acc. 85 plate angled at 45°
 graphite 991210-00
 Made of steel. To install art. Wall mounted Lord with the front glass parallel to the ground.



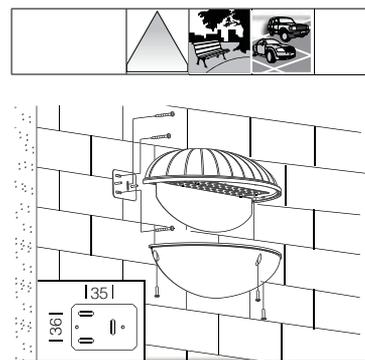
acc. 89 pole attachment Ø 60
 graphite 991214-00
 Die-cast aluminium painted by cationic electrocoating. Adapter for attachment Lord on Ø 60 pole.



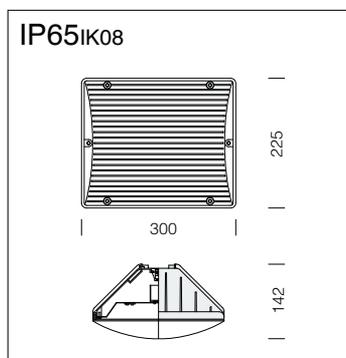
Housing: in UV-stabilised engineering plastic.

Reflector: in pre-anodised aluminium.

Diffuser: in polycarbonate opal, shatterproof and self-extinguishing, UV-stabilised



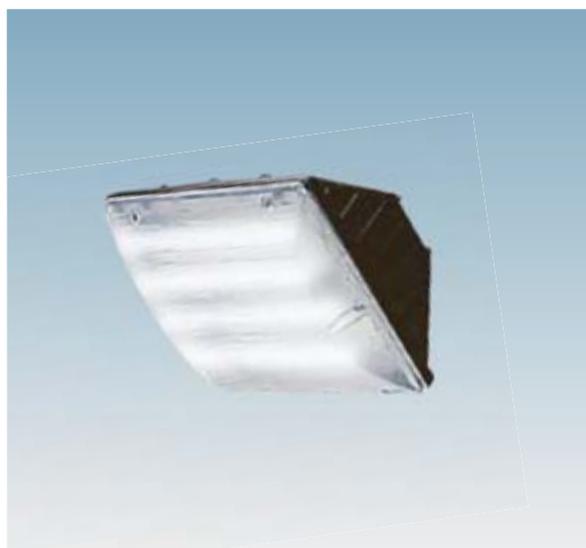
1265 Orione LED					
		CLD CELL		W	LED (Tj=25°C)
wattage (350mA)	colour	weight	code		K ølm - 350mA
LED	graphite	1.50	420672-00	17	4000K - 2000lm - CRI≥80
LED	s. silver	1.50	420673-00		



Housing: in nylon UV-stabilised.

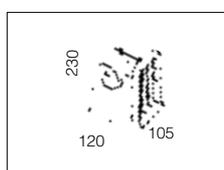
Reflector: hammered aluminium.

Diffuser: anti-glare, vandal resistant, V2 self-extinguishing, UV-stabilised matt polycarbonate.



1264 Vega LED						
		CLD CELL		CLD CELL-E	W	LED (Tj=25°C)
wattage (350mA)	colour	weight	code	code		K ølm - 350mA
LED	black.	1.50	420665-00	420665-07	17	4000K - 2000lm - CRI≥80
LED	s. silver	1.50	420666-00	420666-07		

acc. 1266 joint	
black	420915-00
s. silver	420916-00
1-lamp adjustable support in nylon. For Ø 60 poles.	



Self adhesive pictograms available:

995111 995112 995113 995114 995115 995116 995117 995118





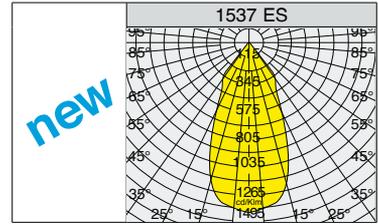


Housing/frame: in die-cast aluminium with wide cooling fins for heat dissipation.

Base: in vandal resistant fibreglass nylon.

Diffuser: silk-screen printed, tempered.

LED:
Luminous flux maintenance 70%
50000h (L70B50).
Power factor ≥ 0.95

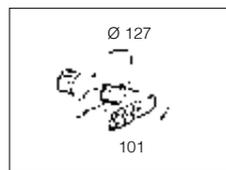


1537 Koala - ES						
CLD CELL				W	LED (Tp=25°C)	
wattage (350mA)	colour	weight	code		K - Ølm 350mA - CRI - degrees	
LED	m. silver	0.80	431828-00	13	3000K - 1600lm - CRI \geq 80 - 46°	
LED	graphite	0.80	431829-00			
LED	corten	0.80	431828-2191			

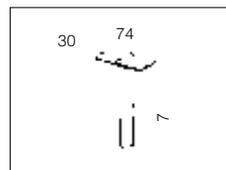
On request: 4000K.



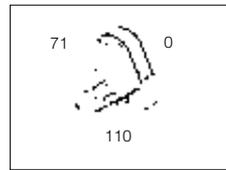
Accessories for Koala



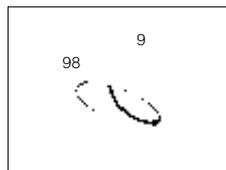
acc. 118 clamp	
black	991334-00
In fiber glass nylon. Enables Koala to be installed on different surfaces without the need to fix it definitively. Clamp opening between 20mm (min) and 60mm (max).	



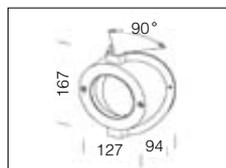
acc. 119 spike	
black	991335-00
In fiber glass nylon. For planting Koala into the ground.	



acc. 120 pole support	
black	991336-00
In fibreglass nylon. To apply Koala on any Ø 60 pole in any position.	



acc. 114 conveyor	
m. silver	991330-00
In aluminium. To direct the light beam in one direction. Only for art. Koala.	



acc. 116 corner support	
black	991332-00
In fibreglass nylon. To install Koala on a corner.	



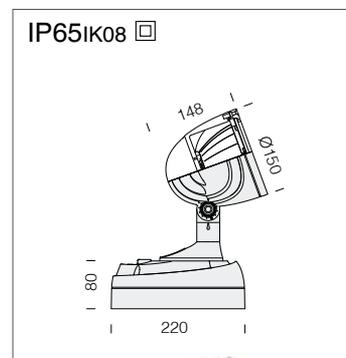
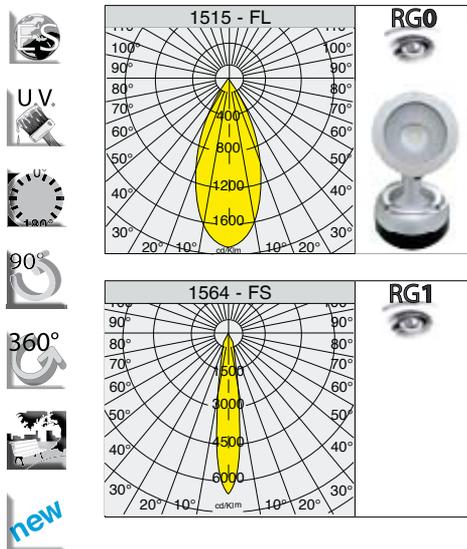


Housing: die-cast aluminium with cooling fins.

Diffuser: tempered glass 4 mm thermal shock and impact resistant.

Coating: in several stages. First stage: epoxy cationic electrocoating, resistant to corrosive and saline environments. Second stage: UV stabilising priming; final stage: a rough finish with frosted silver or graphite grey paint.

LED:
Luminous flux maintenance 70%
50000h (L70B50)
Power factor ≥ 0.9



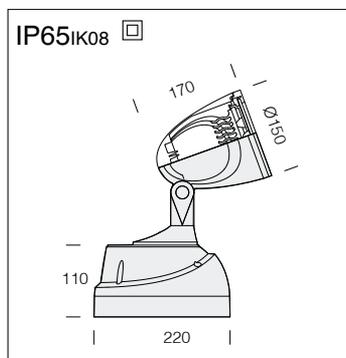
acc. 189 coloured filter	
blue	995749-00
red	995750-00
green	995751-00
yellow	995752-00
We recommend use with art. 1564.	

1515 Elfo Power LED - COB System - wide beam						
		CLD CELL		LED (Tp=25°C)		
wattage	colour	weight	code	W	K - ølm 1050mA - CRI	K - ølm 700mA - CRI
LED	s. silver	2.60	422390-00	40	4000K - 5000lm - CRI ≥ 80 - 40°	
LED	graphite	2.60	422391-00			
LED	s. silver	2.60	422392-00	25		4000K - 3000lm - CRI ≥ 80 - 40°
LED	graphite	2.60	422393-00			

1564 Elfo Power LED - COB System - narrow beam						
		CLD CELL		LED (Tp=25°C)		
wattage	colour	weight	code	W	K - ølm 1050mA - CRI	K - ølm 700mA - CRI
LED	s. silver	2.60	422394-00	40	4000K - 5000lm - CRI ≥ 80 - 15°	
LED	graphite	2.60	422395-00			
LED	s. silver	2.60	422396-00	25		4000K - 3000lm - CRI ≥ 80 - 15°
LED	graphite	2.60	422397-00			



RESIDENTIAL AMENITIES



acc. 116 corner support	
black	991332-00
In fibreglass nylon. To install Elfo on a corner.	

1539 Elfo - ESALED Fullcolour RGB					
		CLD CELL		LED (Tj=85°C)	
wattage (350mA)	colour	weight	code	W	ølm 350mA - gradi
ESALED Fullcolor	s. silver	3.60	432834-00	14	R=35 - G=57 - B=13 - 60°

acc. 119 spike	
black	991335-00
In fiber glass nylon. For planting Elfo into the ground.	

IP65 box for DMX control	
white	986557-00
DMX controller with internal memory IP 65 VERSION (stand-alone function). It enables to operate DMX interfaces and integrated DMX controlled lighting fixtures. Option to save settings internally. PC connection through USB port during the programming phase using a dedicated software (included in the kit).	

DOP Controller	
986563-00	
DMX controller for installation in standard recessed box, 503. One dmx channel + 4 channels, 1-10V. Option to save settings internally. Monochrome display screen and on-board operation without the use of a PC.	

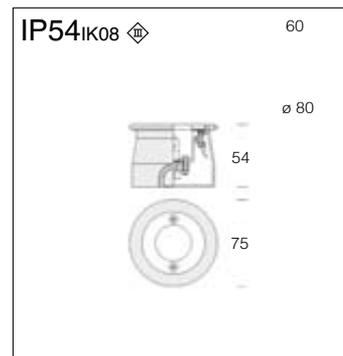


Acc. 179
MIN 1W - MAX 17W
(max 26 spotlights)

WIRE SECTION
up to 50m with P=17W

N.B: Maintain parallel connection

Versions with colored LEDs, on request.



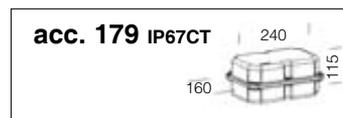
Housing: vandal resistant fibre-glass nylon.

Diffuser: impact and thermal shock resistant tempered glass.

1618 Mini - wall version					
		CLD S+L		LED (Tj=25°C)	
wattage (24V)	colour	weight	code	W	K - ølm 24V - CRI
LED	s. silver	0.10	530674-00	0,6	4000K - 30lm CRI≥80

Code	VOLTAGE in	CURRENT V _{DC} out	min. no. spotlig.	max no. spotlig.	W tot.
997660-00	220-240V 50/60Hz	24V	1	26	17

Transformer, code 997660, **should be purchased if the luminaire is used without a watertight box.**



Code	VOLTAGE in	CURRENT V _{DC} out	min. no. spotlig.	max no. spotlig.	W tot.
997663-00	220-240V 50/60Hz	24V	1	26	17

Waterproof box containing the ballast.

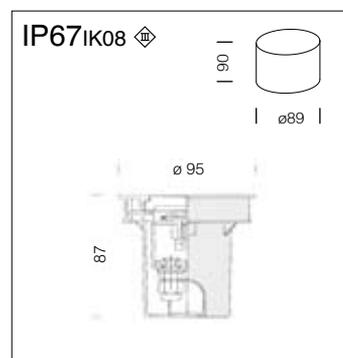


Acc. 179
MIN 1W - MAX 17W
(max 26 spotlights)

WIRE SECTION
up to 50m with P=17W

N.B: Maintain parallel connection

Versions with colored LEDs, on request.



Housing: vandal resistant fibre-glass nylon.

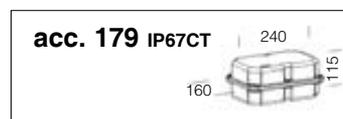
Frame: die-cast aluminium

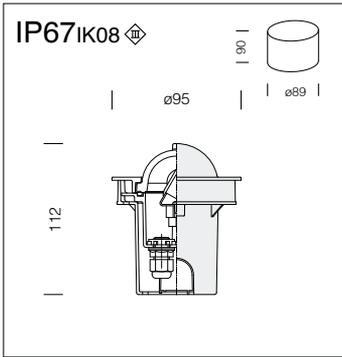
Diffuser: impact and thermal shock resistant tempered glass.

1622 Starled - wall and floor version									
		CLD S+L		temperature and load				LED (Tj=25°C)	
wattage 24V	colour	weight	code	Max T. on glass ta 15°	max kg load	can be walked on	can bear vehicle loads	W	K - ølm 24V - CRI
LED	s. silver	0.25	530690-00	30°	2000	OK	OK	0,6	4000K - 30lm - CRI≥80
LED	graphite	0.25	530691-00	30°	2000	OK	OK		

Code	VOLTAGE in	CURRENT V _{DC} out	min. no. spotlig.	max no. spotlig.	W
997663-00	220-240V 50/60Hz	24V	1	26	17

Waterproof box containing the ballast.





Housing: Vandal resistant fibre-glass nylon.

Frame: in die-cast aluminium.

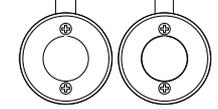
Diffuser: tempered glass, resistant to thermal shock and impact.



Acc. 179:
MIN 1W - MAX 17W
(max 12 spotlights)

WIRE SECTION
P = 17W - 1,5mm²
max 50m

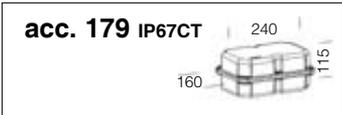
N.B: Maintain series connection



Versions with colored LEDs, on request.

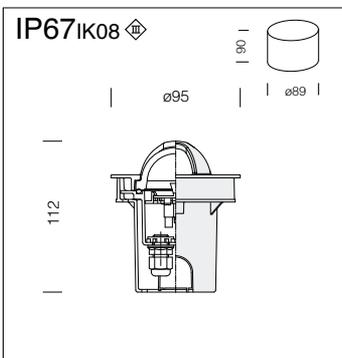


1637 Starled - Power LED wall eyelid screen version					
		CLD S+L		LED (T _j =25°C)	
wattage (350mA)	colour	weight	code	W	K - ølm 350mA - CRI
LED	s. silver	0.25	530770-00	1,1	4000K - 130lm - CRI 75
LED	graphite	0.25	530771-00		
LED	corten	0.25	530770-2191		



Code	VOLTAGE in	CURRENT V _{DC} out	min. no. spotlig.	max no. spotlig.	W tot.
997665-00	220-240V 50/60Hz	350mA	1	12	17

Waterproof box containing the ballast.



Housing: Vandal resistant fibre-glass nylon.

Frame: in die-cast aluminium.

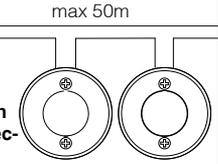
Diffuser: tempered glass, resistant to thermal shock and impact.



Acc. 179:
MIN 1W - MAX 17W
(max 12 spotlights)

WIRE SECTION
P = 17W - 1,5mm²
max 50m

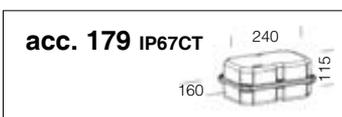
N.B: Maintain series connection



Versions with colored LEDs, on request.

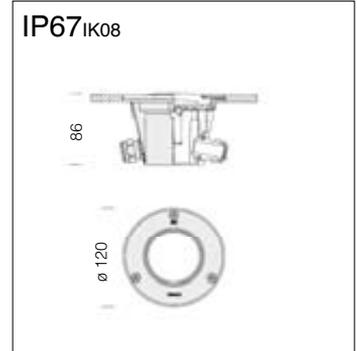
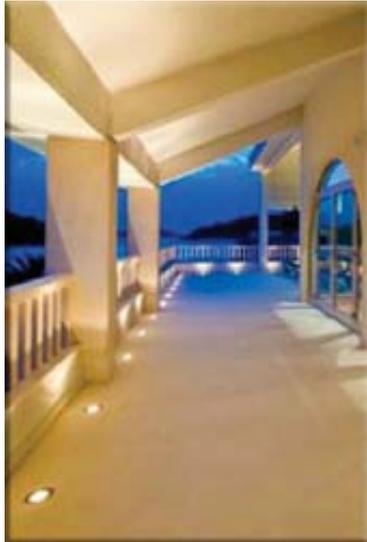


1638 Starled Power LED - wall/floor cross eyelid version									
		CLD S+L		temperature and load				LED (T _j =25°C)	
wattage (350mA)	colour	weight	code	Max T. on glass ta 15°	max kg load	can be walked on	can bear vehicle loads	W	K - ølm 350mA - CRI
LED	s. silver	0.16	530870-00	30°	2000	OK	OK	1,1	4000K - 130lm - CRI 75
LED	graphite	0.16	530871-00	30°	2000	OK	OK		



Code	VOLTAGE in	CURRENT V _{DC} out	min. no. spotlig.	max no. spotlig.	W
997665-00	220-240V 50/60Hz	350mA	1	12	17

Waterproof box containing the ballast.

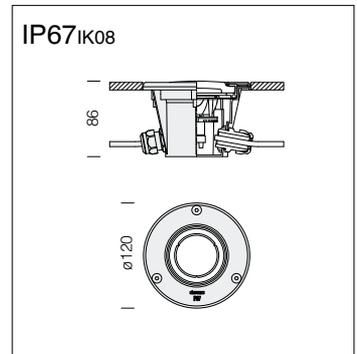


Housing: in fibreglass aluminium and stainless steel AISI 316 frame.

Diffuser: in tempered glass, resistant to thermal shock and impacts.

1661 Microfloor - LED 230V									
		CLD CELL		temperature and load				LED (Tj=25°C)	
wattage (230V)	colour	weight	code	Max T. on glass ta 15°	max kg load	can be walked on	can bear vehicle loads	W	K - ølm 230V
LED	s. steel	0.40	530816-00	30°	2000	OK	OK	0,6	4000K - 30lm

Complete with power supply.

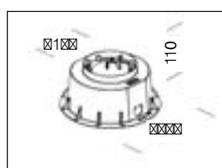


Housing: in fibreglass aluminium and stainless steel AISI 316 frame.

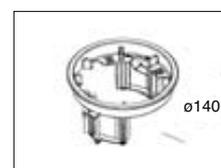
Diffuser: in tempered glass, resistant to thermal shock and impacts.

1670 Microfloor - MasterLED - 230V									
		CLD S+L		temperature and load				LED (Tj=25°C)	
wattage (230V)	colour	weight	code	T. max on glass	max load kg	can be walked on	can bear vehicle loads	W	K - cd/lm - degrees - CRI
LED	s. steel	0.40	530710-00	35°	2.000	ok	ok	3	3000K - 850/130 - 25° - CRI≥80

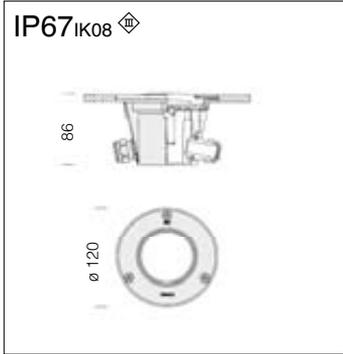
Operating voltage 220-240V/50-60HZ, not require power supplies.



acc. 313 - outer shell
993925-00
To install Microfloor into the ground.



acc. 314 - chassis
993926-00
To install Microfloor on the wall.



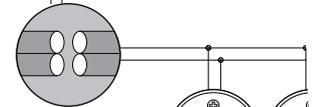
Housing: in fibreglass aluminium and stainless steel AISI 316 frame.

Diffuser: in tempered glass, resistant to thermal shock and impacts.



MIN 1W - MAX 17W
(max 26 spotlights)

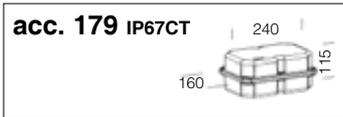
WIRE SECTION
up to 50m with P=17W



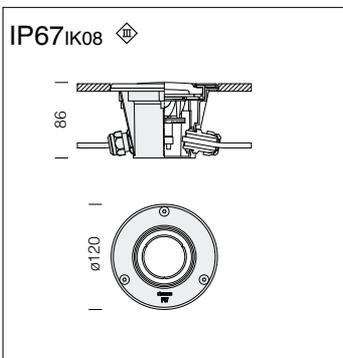
N.B: Maintain parallel connection



1650 Microfloor - LED									
		CLD S+L		temperature and load				LED (Tj=25°C)	
wattage 24V	colour	weight	code	T. max on glass ta 15°	max kg load	can be walked on	can bear vehicle loads	W	K - 0lm 24V
LED	s. steel	0.40	530810-00	30°	2000	OK	OK	0,6	4000K - 30lm



CODE	VOLTAGE in	CURRENT V _{DC} out	min. no. spotlig.	max no. spotlig.	W
997663-00	220-240V 50/60Hz	24V	1	26	17
Waterproof box containing the ballast.					
997660-00	220-240V 50/60Hz	24V	1	26	17
Transformer, code 997660, should be purchased if the luminaire is used without a watertight box.					



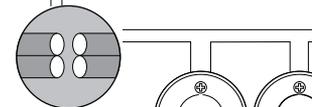
Housing: in fibreglass aluminium and stainless steel AISI 316 frame.

Diffuser: in tempered glass, resistant to thermal shock and impacts.



MIN 1W - MAX 10W
(max 5 spotlights)

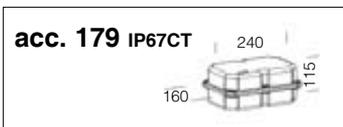
WIRE SECTION
up to 50m with P=10W



N.B: Maintain parallel connection



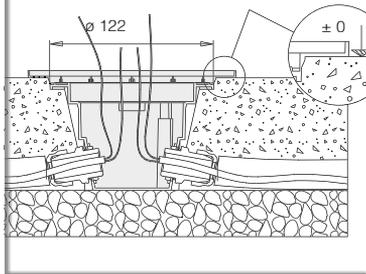
1634 Microfloor - Power LED									
		CLD S+L		temperature and load				LED (Tj=25°C)	
wattage (350mA)	colour	weight	code	T. max on glass ta 15°	T. max on glass ta 15°	max kg load	can be walked on	W	K - 0lm 350mA - degrees
LED	s. steel	0.40	530815-00	30°	2000	OK	OK	3,3	4000K - 300lm - 20°



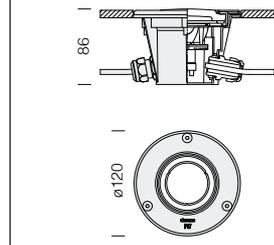
CODE	VOLTAGE in	CURRENT V _{DC} out	min. no. spotlig.	max no. spotlig.	W
997665-00	220-240V 50/60Hz	350mA	1	5	17
Watertight box containing the ballast.					



It is advised to install Starled according to the following information.



IP67IK08



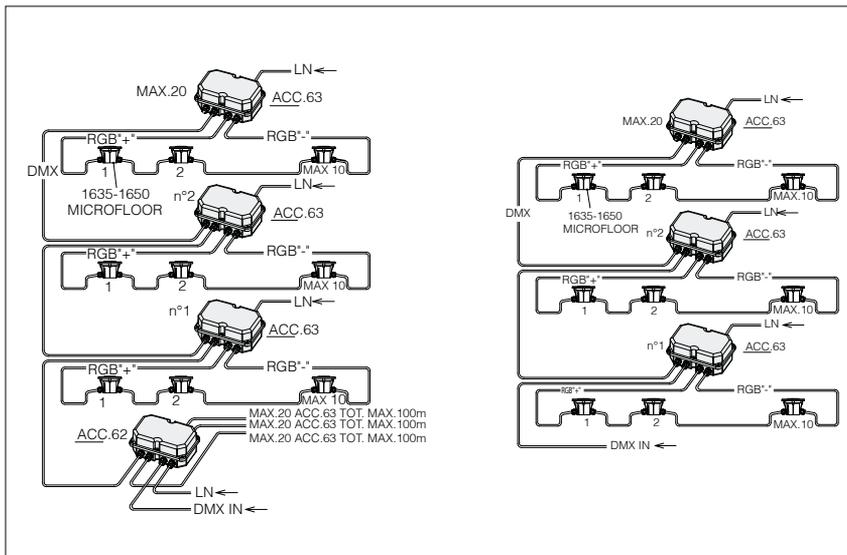
Housing: fibreglass nylon with stainless steel AISI 316 frame.

Diffuser: tempered shock and heat resistant glass.

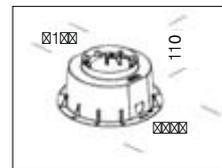
1635 Microfloor - Power LED RGB Fullcolor									
		CLD S+L		temperature and load				LED (Tj=25°C)	
wattage (350mA)	colour	weight	code	T. max	max load kg	can be walked on	can bear vehicle loads	W	ølm 350mA
LED Fullcolor	s. steel	0.40	530800-00	40°	2000	ok	ok	4,5	105lm

The system offers the possibility to adjust the light beam. Power LED RGB: LEDs with high light density, small light source with multi-colour optics allowing excellent colour mixing performance.

Example of installation



acc. 314 - chassis
993926-00
To install Microfloor on the wall.



acc. 313 outer shell
993925-00
To install Microfloor into the ground.

IP65 box for DMX controller	
white	986557-00

DMX controller with internal memory IP 65 VERSION (stand-alone function). It enables to operate DMX interfaces and integrated DMX controlled lighting fixtures. Option to save settings internally. PC connection through USB port during the programming phase using a dedicated software (included in the kit).

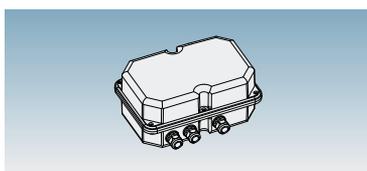


acc. 65 Remote control LED RGB	
black	986507-00

On-Off function, mixing and colour transition.

Acc. 62 DMX signal regenerator	
20W	986513-00

DMX signal regenerator in waterproof gear box with 24V, 20W power supply. Supplied with in-out wire connection (one going in, four going out) to DMX terminal. To be used after 20 acc. 61 or distance greater than 200mt.

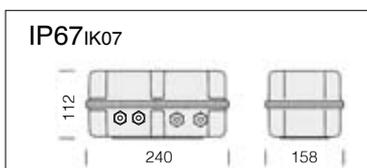


acc. 61 Waterproof box IP 65	
7W/channel	986512-00

Waterproof box IP67, supplied with power supply and control module. One box is recommended for use with up to 5 Microfloor/RGB lamps, 7W/channel. Connection for up to 19 Slave devices.

DMX Controller	
white	986562-00

DMX controller with internal memory (stand-alone function). It enables to operate DMX interfaces and integrated DMX controlled lighting fixtures. Option to save settings internally. PC connection through USB port during the programming phase through a dedicated software (included in the kit).

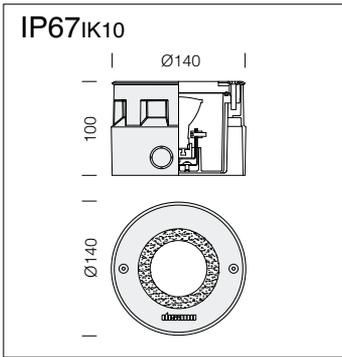


acc. 63 LED RGB power supply and DMX interface	
60W	986511-00

IP67 box with 48V 60W power supply for Power LED - max 9 Microfloor Fullcolor. Supplied with electronic card and controller / DMX interface

DOP Controller	
	986563-00

DMX controller for installation in standard recessed box, 503. One dmx channel + 4 channels, 1-10V. Option to save settings internally. Monochrome display screen and on-board operation without the use of a PC.



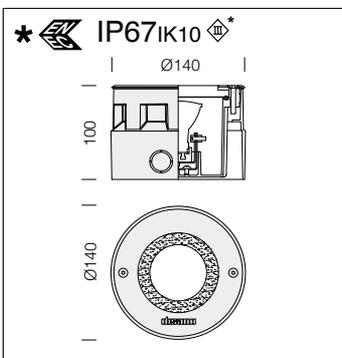
Housing: fibreglass nylon with stainless steel AISI 316 frame.

Diffuser: tempered shock and heat resistant glass.



1871 Midifloor adjustable - Power LED RGB Fullcolor									
		CLD S+L		temperature and load				LED (Tj=25°C)	
wattage (350mA)	colour	weight	code	T. max	max load kg	can be walked on	can bear vehicle loads	W	ølm 350mA
LED Fullcolor	s. steel	0.50	530790-00	40°	3000	ok	ok	4,5	105lm

The system offers the possibility to adjust the light beam. Power LED RGB: LEDs with high light, small light source with multi-colour optics allowing excellent colour mixing performance. not suited for underwater installation



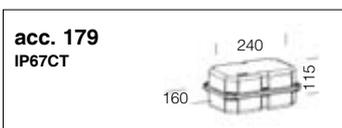
Housing: fibreglass nylon with stainless steel AISI 316 frame.

Diffuser: tempered shock and heat resistant glass.



1872 Midifloor adjustable									
		CLD S+L		temperature and load				LED (Tj=25°C)	
wattage (350mA)	colour	weight	code	T. max	max load kg	can be walked on	can bear vehicle loads	W	K - ølm 350mA - degrees - CRI
MASTERLED (230V)	s. steel	0.50	530791-00	45°	3000	OK	OK	6	2700K - 320lm - 25° - CRI≥80
MASTERLED*	s. steel	0.50	530792-00	45°	3000	OK	OK	4	2700K - 700cd - 25° - CRI≥80
1872 Midifloor									
LED*	s. steel	0.50	530793-00	40°	3000	OK	OK	14	3000K - 1290lm - 25° - CRI≥80

LED 14W: version does not adjustable; also available with a beam angle of: 13°, 48° and 55°.



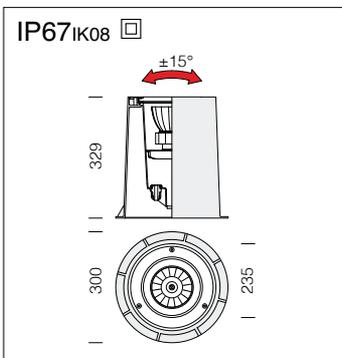
Code	VOLTAGE in	CURRENT V _{DC} out	min. no. spotlig.	max no. spotlig.
997661-00	220-240V 50/60Hz	530792-00	1	7
997666-00	220-240V 50/60Hz	530793-00	1	3

Waterproof box containing the ballast.



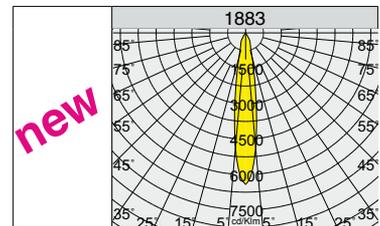


RESIDENTIAL AMENITIES



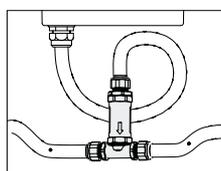
Housing: fibreglass nylon with AISI 316.

Diffuser: impact and thermal shock resistant tempered glass.

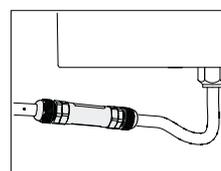


1883 Minifloor ESALED adjustable									
		CLD CELL		temperature and load				LED (Tj=25°C)	
wattage (350mA)	colour	weight	code	T. max on glass ta 15°	max load kg	can be walked on	can bear vehicle loads	W	K - lm (350mA) - degrees - CRI
LED	s. steel	5.10	530785-00	25°	2000	OK	OK	13	3000K - 1300lm - 15° - CRI 80
LED	s. steel	5.10	530786-00	25°	2000	OK	OK		4000K - 1300lm - 15° - CRI 80

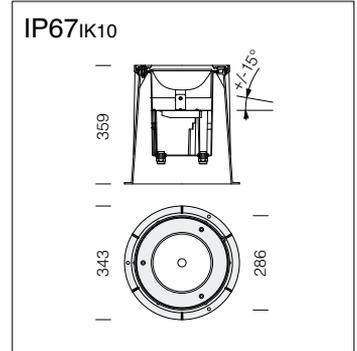
On request: version with IP68 protection with gel watertight system at the bottom of the fixture (not suited for underwater installation) -0093.



acc. 399 - Conn. for continuous line
993837-00
Connector for solid line to be used with acc 369 for continuous lines.

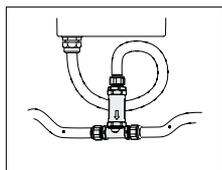


acc. 369 - Connector
993838-00
To be used for continuous lines and to achieve waterproof connection.

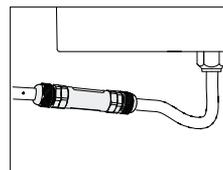


IP67IK10
Housing/Frame: in die-cast aluminium.
Adjustable LED plate.
Upon request: version with **IP68** protection with gel watertight system at the bottom of the fixture (not suited for underwater installation) -0093.

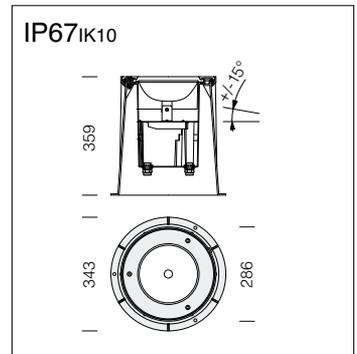
1620 Floor - adjustable Power LED - COB System										
wattage (500mA)	colour	CLD CELL		temperature and load				W	LED (Tp=25°C)	
		weight	code	T. max on glass		max load kg	can be walked on		can bear vehicle loads	degrees
LED	graph.	5.70	530503-00	ta 25°	ta 15°			4000		



acc. 399 - Conn. for continuous line
 993837-00
 Connector for solid line to be used with acc 369 for continuous lines. For Floor range.



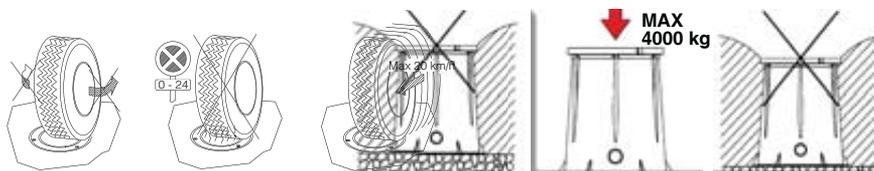
acc. 369 - Connector
 998038-00
 To be used for continuous lines and to achieve waterproof connection.



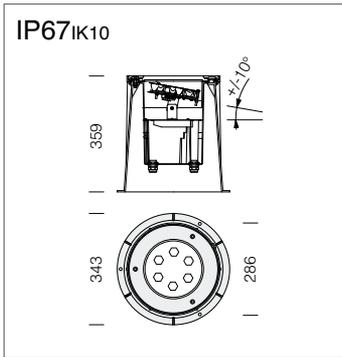
IP67IK10
Housing: in die-cast aluminium. Frame in stainless steel AISI316L
Reflector: adjustable to +/- 15°, in aluminium 99.85, anodically oxidised and polished. **On request:** version with **IP68** protection with gel watertight system (not suited for underwater installation) -0093.

1678 Floor inox - adjustable Power LED - COB System										
wattage (500mA)	colour	CLD CELL		temperature and load				W	LED (Tp=25°C)	
		weight	code	T. max on glass		max load kg	can be walked on		can bear vehicle loads	degrees
LED	s. steel	5.70	530517-00	ta 25°	ta 15°			4000		

The luminaire can be walked on and can bear vehicle loads.



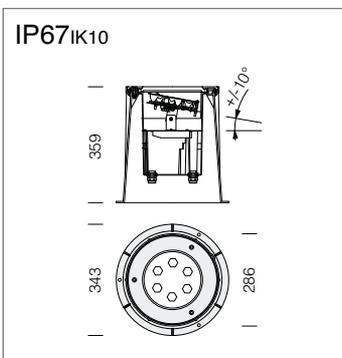
The masonry must be able to support a load of 4000 kg without strain. As the bottom is open to allow for draining, a gravel bed should be prepared at the time of installation. The electric gear is inside the luminaire.



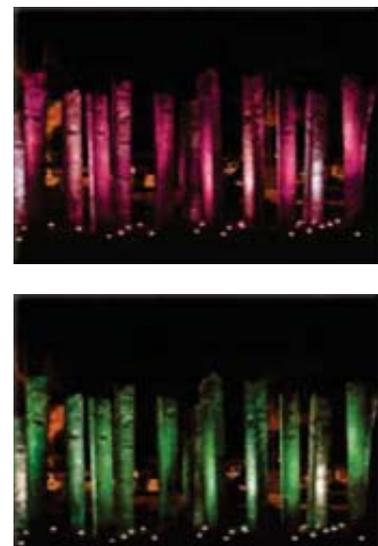
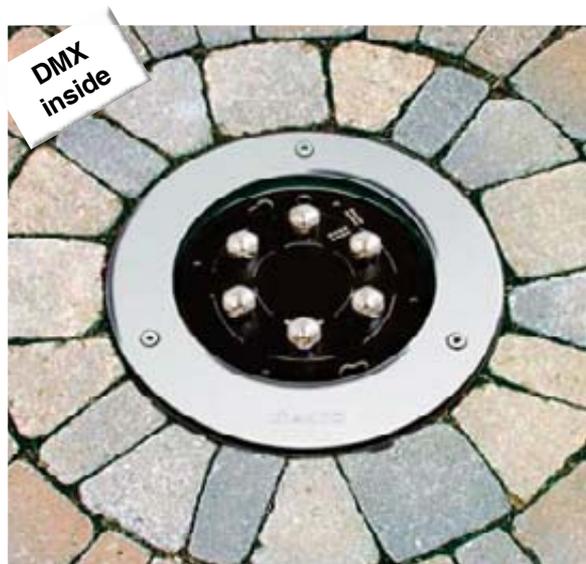
Housing/frame: in die-cast aluminium.
Diffuser: resistant to thermal shock, impact 5 mm thick tempered glass. end static load.
Adjustable LED plate.



1677 Floor - adjustable Power LED RGBW DMX									
		CLD CELL		temperature and load				LED (Tj=85°C)	
wattage (350mA)	colour	weight	code	T. max on glass		max load kg	can be walked on	can bear vehicle loads	ølm 350mA - degrees
				ta 25°	ta 15°				
Fullcolor RGBW	graph.	6.00	530515-00	40°	30°	4000	OK	OK	1900lm - 40°



Housing/frame: in die-cast aluminium.
Diffuser: resistant to thermal shock, impact 5 mm thick tempered glass. end static load.
Adjustable LED plate.

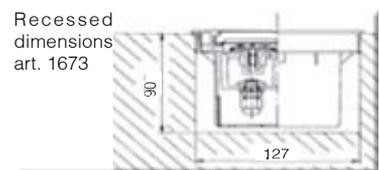
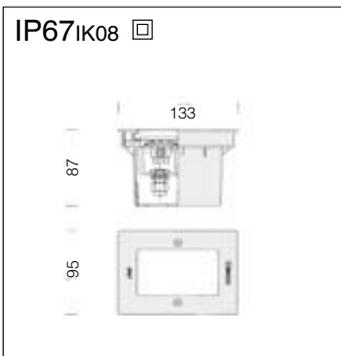


1679 Floor inox - adjustable Power LED RGBW DMX									
		CLD CELL		temperature and load				LED (Tj=85°C)	
wattage (350mA)	colour	weight	code	T. max on glass		max load kg	can be walked on	can bear vehicle loads	ølm 350mA - degrees
				ta 25°	ta 15°				
Fullcolor RGBW	s. steel	6.00	530518-00	40°	30°	4000	OK	OK	1900lm - 40°

DOP Controller
986563-00
DMX controller for installation in standard recessed box, 503. One dmx channel + 4 channels, 1-10V. Option to save settings internally. Monochrome display screen and on-board operation without the use of a PC.

IP65 box for DMX control	
white	986557-00
DMX controller with internal memory IP 65 VERSION (stand-alone function). It enables to operate DMX interfaces and integrated DMX controlled lighting fixtures. Option to save settings internally. PC connection through USB port during the programming phase using a dedicated software (included in the kit).	





Housing: vandal resistant fibre-glass nylon.

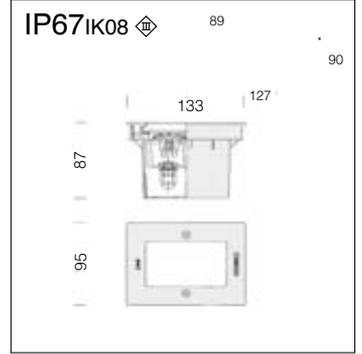
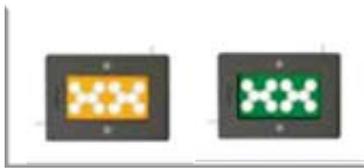
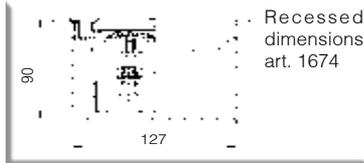
Frame: die-cast aluminium.

Diffuser: frosted glass, resistant to impact and thermal shock.

1673 Starled - LED 230V

		CLD CELL		temperature and load				LED (Tj=25°C)	
wattage (230V)	colour	weight	code	T. max on glass ta 15°	max kg load	can be walked on	can bear vehicle loads	W	K - ølm 230V - degrees - CRI
	graph.	0,41	530696-00	30°	2000Kg	OK	OK	1,2	4000K - 60lm - 120° - CRI≥80
	s. silver	0,41	530697-00	30°	2000Kg	OK	OK		

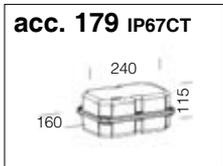
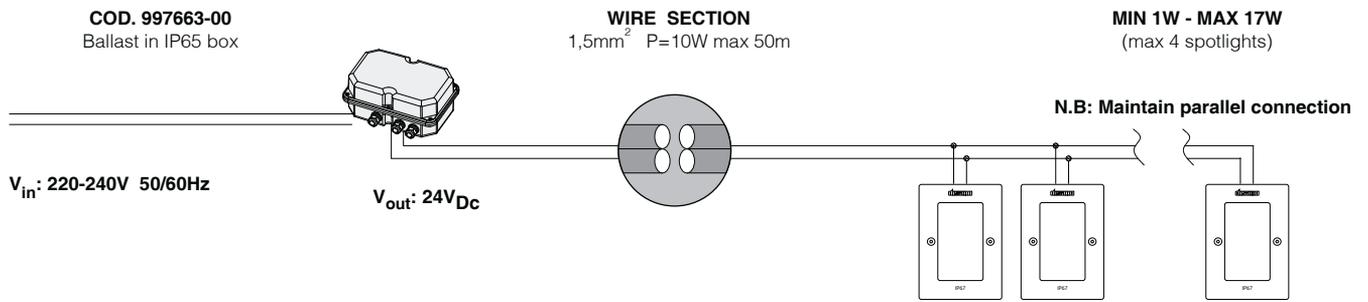
Incorporated power supply 220-240V 50/60 Hz.



Housing: vandal resistant fibre-glass nylon.
Frame: die-cast aluminium.
Diffuser: frosted glass, resistant to impact and thermal shock.

1674 Starled - LED								
		CLD S+L		load				LED (Tj=25°C)
wattage 24V	colour	weight	code	max kg load	can be walked	can bear vehicle loads	W	K - ølm 24V - CRI
LED	s. silver	0.30	530692-00	2000Kg	OK	OK	1,2	4000K - 60lm - CRI≥80
LED	graph.	0.30	530693-00	2000Kg	OK	OK		
LED	corten	0.30	530692-2191	2000Kg	OK	OK		

ELECTRIC GEAR

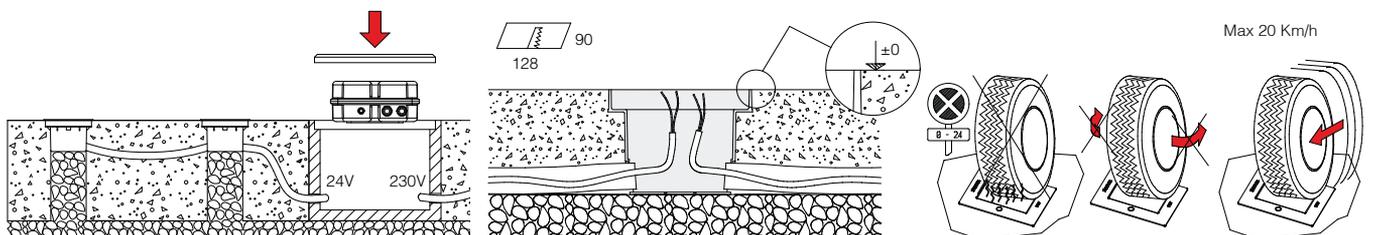


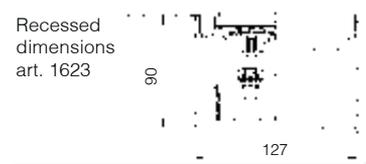
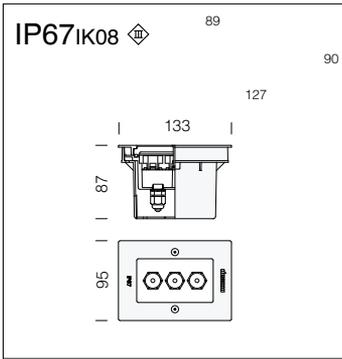
CODE	VOLTAGE in	CURRENT V _{DC} out	min. no. spotlights	max. no. spotlights	W
997663-00	220-240V 50/60Hz	24V	1	13	17

Watertight nylon box containing the electronic ballast. Transformer, code 997660-00, should be purchased when the watertight box is not used.

INSTALLATION EXAMPLE

It is advised to install Starled according to the instructions:





Housing: vandal resistant fibre-glass nylon.

Frame: die-cast aluminium.

Diffuser: tempered resistant to thermal shock and impact glass.

		1623 Starled - Power LED							
		CLD S+L		temperature and load				LED (Tj=25°C)	
wattage (350mA)	colour	weight	code	T. max on glass ta 15°	max kg load	can be walked on	can bear vehicle loads	W	K - ølm 350mA - degrees - CRI
LED	graph.	0.30	530694-00	30°	2000Kg	OK	OK	3,5	4000 K - 300lm - 30° - CRI70
LED	s. silver	0.30	530695-00	30°	2000Kg	OK	OK		
LED	corten	0.30	530694-2191	30°	2000Kg	OK	OK		

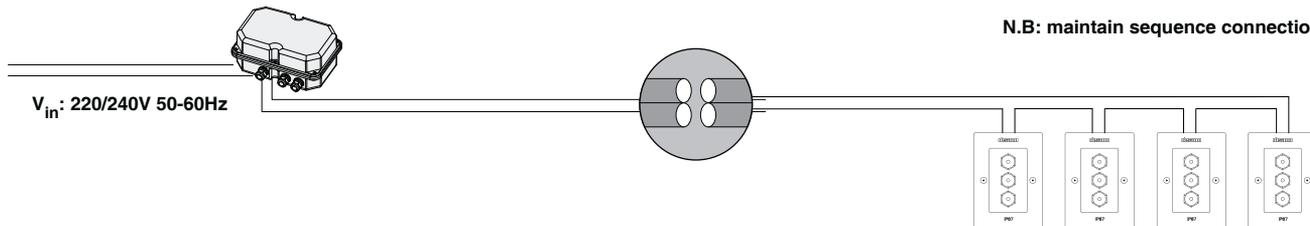
ELECTRIC GEAR

CODE 997665-00
Ballast in IP65 box

WIRE SECTION
P = 17W - 1,5mm² - max 50m

MIN 1W - MAX 17W
(max 4 spotlights)

N.B: maintain sequence connection

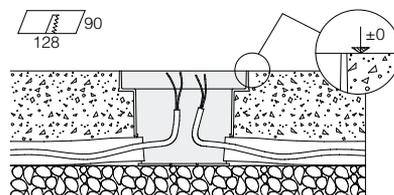
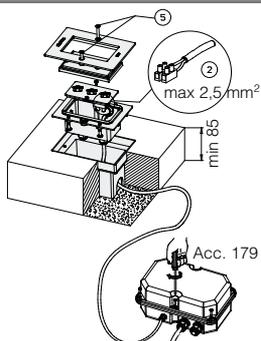


acc. 179 IP67CT

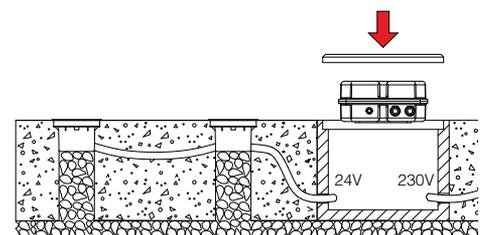


CODE	VOLTAGE in	CURRENT V _{DC} out	min. no. spotlights	max no. spotlights	W
997665-00	220-240V 50/60Hz	350mA	1	4	17

INSTALLATION EXAMPLE



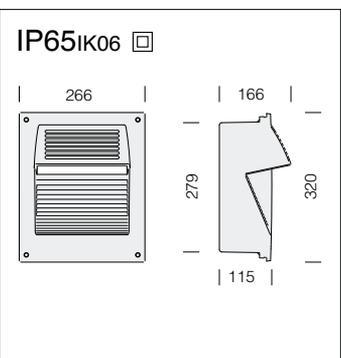
It is advised to install Starled according to the following information.





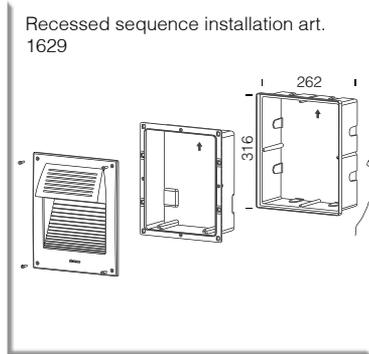
262x316

new



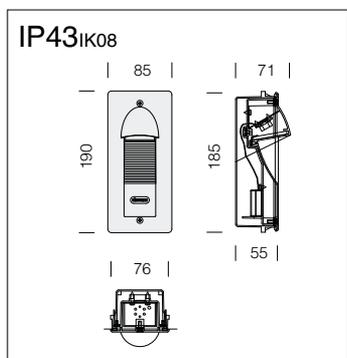
Housing: in fibreglass nylon, UV stabilized.

Front frame: in die-cast aluminium.



1629 Fonte - LED - recessed (2)					
		CLD CELL		W	LED (Tj=25°C)
wattage (116mA)	colour	weight	code	4,5	K - ølm 116mA - CRI
LED	s. silver	2.20	431752-00		4000K - 480lm - CRI≥80
LED	corten	2.20	431752-2191		

1624 Fonte - LED - semi-recessed (1)					
		CLD CELL		W	LED (Tj=25°C)
wattage (116mA)	colour	weight	code	4,5	K - ølm 116mA - CRI
LED	s. silver	2.20	431745-00		4000K - 480lm - CRI≥80
LED	corten	2.20	431745-2191		

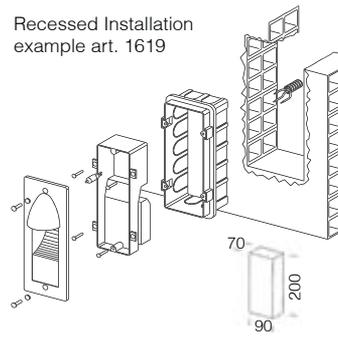


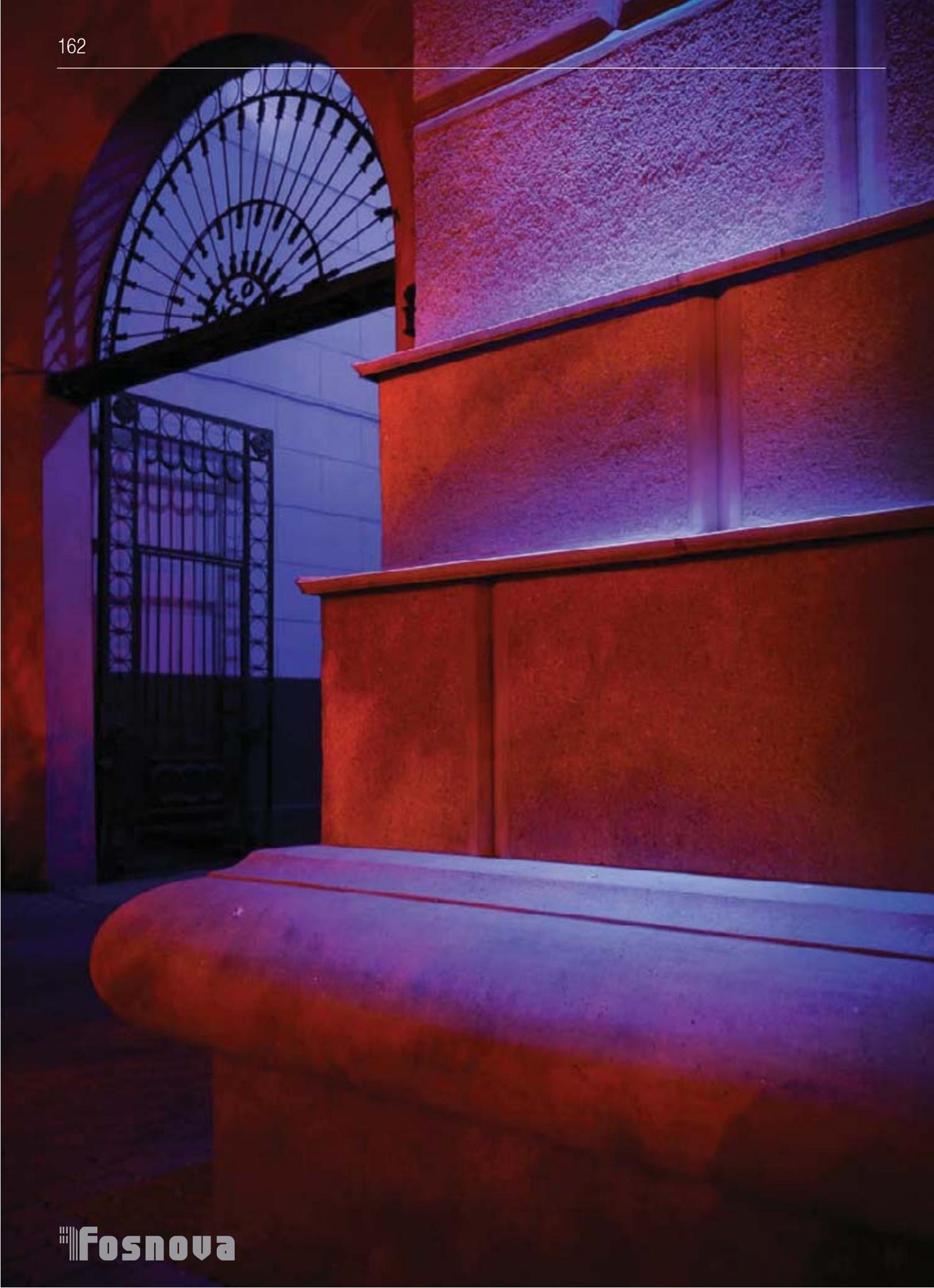
Housing/Frame: in die-cast aluminium.

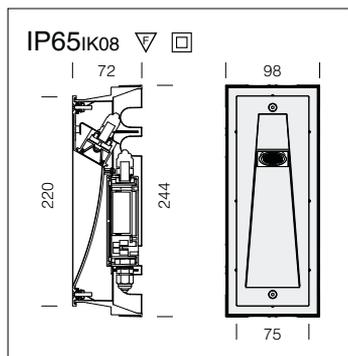
Diffuser: tempered glass, resistant to thermal shock and impact.



1619 Mini - Power LED					
		CLD CELL		W	LED (Tj=25°C)
wattage (350mA)	colour	weight	code		K - ølm 350mA - CRI
LED	s. silver	0.30	530675-00	1,15	4000K - 87lm - CRI70
LED	corten	0.30	530675-2191		



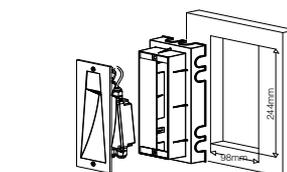
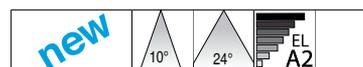




A power supply pack to insert in the IP65 box at the top of the circuit is supplied separately:

- code 22090832-00 - 350mA - 4W max n. 3 Spy 1,2W max n. 1 Spy x 2,6W
- code 22090837-00 - 350mA - 17W max n. 12 Spy 1,2W max n. 6 Spy x 2,6W
- code 22090835-00 - 700mA - 10W max n. 3 Spy 2,6W

LED: Luminous flux maintenance L70B50: 25.000h.



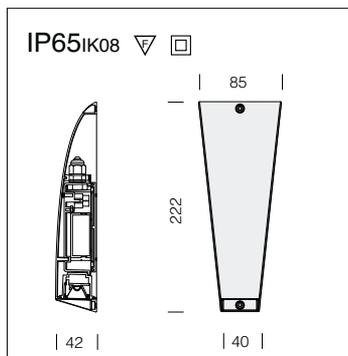
Wall recessed sequence with box



Wall recessed sequence with no box



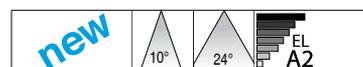
Spy 2 - LED					
		CLD CELL			LED (Ta=25°C)
wattage (350mA)	colour	weight	code	W	K - ølm 350mA - CRI - degrees
LED 1,2W	m. silver	0.50	22084271-00	1,2	3200 K - 100lm - CRI90 - 10°
LED 1,2W	m. silver	0.50	22084272-00	1,2	6000 K - 100lm - 24°
LED 1,2W	corten	0.50	22084272-0091	1,2	6000 K - 100lm - 24°
Spy 2 - LED					
		CLD CELL			LED (Ta=25°C)
wattage (700mA)	colour	weight	code	W	K - ølm 700mA - CRI - degrees
LED 2,6W	m. silver	0.50	22084273-00	2,6	3200 K - 145lm - CRI90 - 10°
LED 2,6W	m. silver	0.50	22084274-00	2,6	6000 K - 170lm - 24°
Spy 2 - RGB					
		CLD S+L			LED (Ta=25°C)
wattage	colour	weight	code	W	ølm 350mA
LED RGB 3,2W	m. silver	0.50	22084375-00	3,2	R=30 G=40 B=9



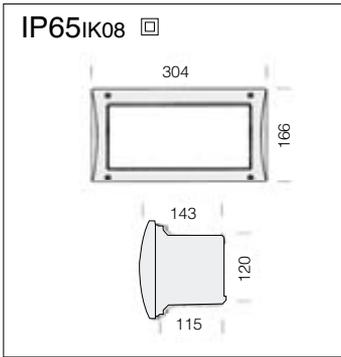
A power supply pack to insert in the IP65 box at the top of the circuit is supplied separately:

- code 22090832-00 - 350mA - 4W max n. 3 Spy 1,2W max n. 1 Spy x 2,6W
- code 22090837-00 - 350mA - 17W max n. 12 Spy 1,2W max n. 6 Spy x 2,6W
- code 22090835-00 - 700mA - 10W max n. 3 Spy 2,6W

LED: Luminous flux maintenance L70B50: 25.000h.



Spy 1 - LED					
		CLD CELL			LED (Ta=25°C)
wattage (350mA)	colour	weight	code	W	K - ølm 350mA - CRI - degrees
LED 1,2W	m. silver	0.30	22084071-00	1,2	3200 K - 100lm - CRI90 - 10°
LED 1,2W	m. silver	0.30	22084072-00	1,2	6000 K - 100lm - 24°
LED 1,2W	corten	0.30	22084072-0091	1,2	6000 K - 100lm - 24°
Spy 1 - LED					
		CLD CELL			LED (Ta=25°C)
wattage (700mA)	colour	weight	code	W	K - ølm 700mA - CRI - degrees
LED 2,6W	m. silver	0.30	22084073-00	2,6	3200 K - 145lm - CRI90 - 10°
LED 2,6W	m. silver	0.30	22084074-00	2,6	6000 K - 170lm - 10°
Spy 1 - RGB					
		CLD S+L			LED (Ta=25°C)
wattage	colour	weight	code	W	ølm 350mA
LED RGB 3,2W	m. silver	0.30	22084175-00	3,2	R=30 G=40 B=9



Housing: in f.g. nylon, RAL 7035 grey, shatterproof and UV-stabilised.

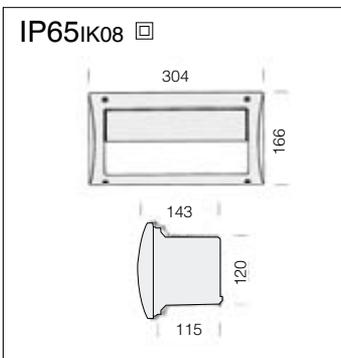
Frame: in thermoplastic material (designed for outdoor installation) UV-stabilized, in RAL 7045 grey

Diffuser: in scored, matt-finished, V2 polycarbonate, shatterproof, self-extinguishing, UV-stabilised.

Equipment: rubber gasket. With polycarbonate gear tray.



1606 Box - LED strip					
		CLD CELL		W	LED (Tj=25°C)
wattage (116mA)	colour	weight	code		K - ølm 116mA - CRI
LED	grey	0.80	431635-00	4,5	4000 K - 480lm - CRI≥80



Housing: rectangular in f.g. nylon, grey (RAL 7035), vandal resistant, UV-stabilised.

Frame: in thermoplastic material (adapted for exteriors) UV stabilised, RAL 7045 grey colour.

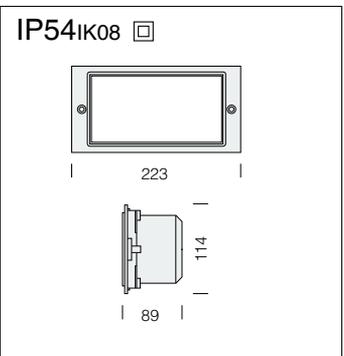


1607 Box - LED strip					
		CLD CELL		W	LED (Tj=25°C)
wattage (116mA)	colour	weight	code		K - ølm 116mA - CRI
LED	grey	1.00	431735-00	4,5	4000 K - 480lm - CRI≥80





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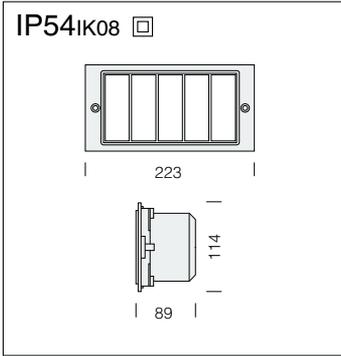


Housing: vandal resistant nylon, UV-stabilised.

Frame: die-cast aluminium.

Diffuser: in glass.

1209 Box - LED with diffuser					
		CLD CELL		LED (Tj=25°C)	
wattage (110mA)	colour	weight	code	W	K - ølm 110mA - CRI
LED	graph.	0.50	431002-00	2,2	4000K - 280lm - CRI80

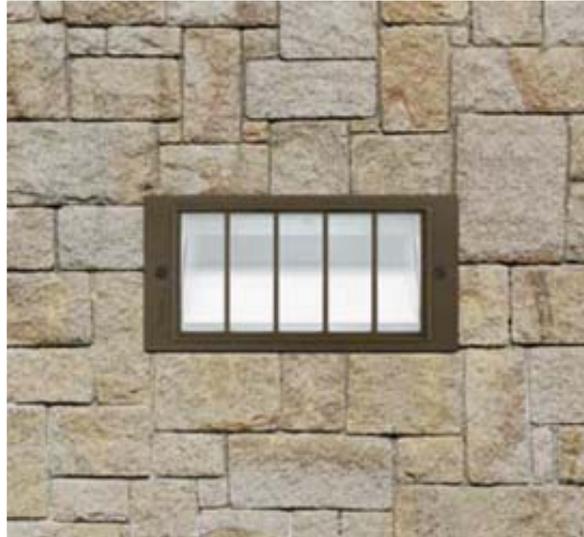


Housing: vandal resistant nylon, UV-stabilised.

Frame: die-cast aluminium.

Diffuser: in glass.

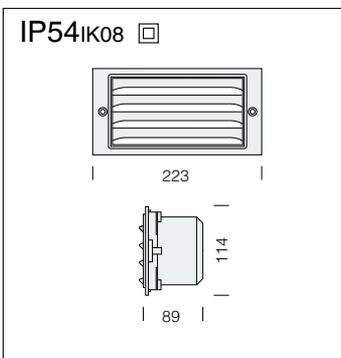
Standard supply: grid with louvres.



215x110

1210 Box - LED with vertical screen					
		CLD CELL		W	LED (Tj=25°C)
wattage (110mA)	colour	weight	code		K - ølm 110mA - CRI
LED	graph.	0.50	431502-00	2,2	4000K - 280lm - CRI80

On request: colored LEDs version.



Housing: vandal resistant nylon, UV-stabilised.

Frame: die-cast aluminium.

Diffuser: in glass.

Standard supply: grid with louvres.



215x110



1211 Box - LED with horizontal screen					
		CLD CELL		W	LED (Tj=25°C)
wattage (110mA)	colour	weight	code		K - ølm 110mA - CRI
LED	graph.	0.50	431602-00	2,2	4000K - 280lm - CRI80



Housing: extruded aluminium suitable for continuous row.

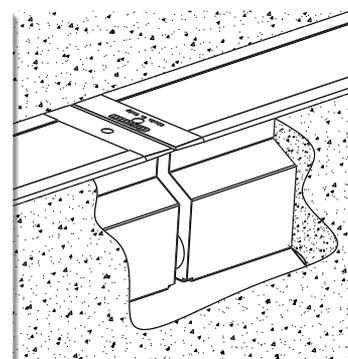
Diffuser: tempered shock, resistant to impacts, thermal shocks and loads (max 2000 kg) 8 mm thick glass.

Coating: housing oxide and caps in polyester resin for powder coating, resistant to corrosion and saline environments.

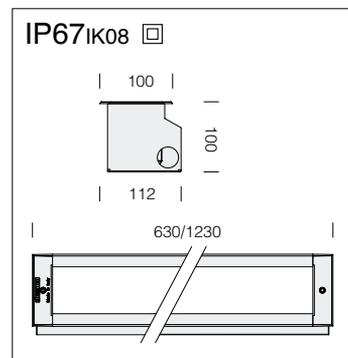
On request: complete with IP68 airtight connector for mains connection.

On request: IP68 version with sub-code -0093.

On request: Possibility of continuous lines.

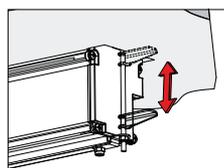


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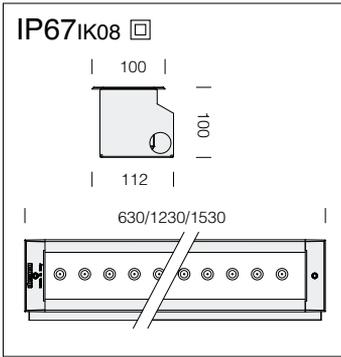


LED: Luminous flux maintenance 80% 50000h (L80B20). Power factor >0.9

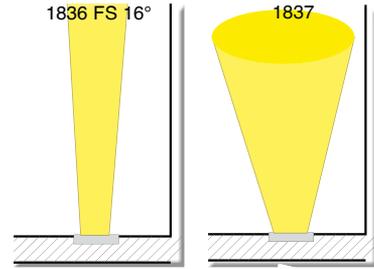
1748 Sicura - wide beam LED											
wattage	colour	L	CLD CELL		temperature and load					LED (Tj=25°C)	
			weight	code	T. max on glass		max load	can be walked on	can bear vehicle loads	W	K - ølm - CRI
					ta 15°	ta 25°					
LED	oxy.n.	630	5.20	414252-00	30°	40°	2000	OK	OK	12	4000K - 1620lm - CRI≥80
LED	oxy.n.	630	5.20	414254-00	30°	40°	2000	OK	OK	25	4000K - 3240lm - CRI≥80
LED	oxy.n.	1230	7.20	414258-00	30°	40°	2000	OK	OK	22	4000K - 2840lm - CRI≥80
LED	oxy.n.	1230	7.20	414259-00	30°	40°	2000	OK	OK	44	4000K - 5870lm - CRI≥80



acc. 905 bracket
 acero 998013-00
 Support for ceiling mounting. Packet containing 2 brackets.

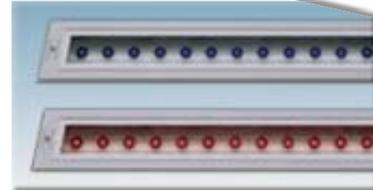


LED: Luminous flux maintenance 80% 50000h (L80B20). Power factor >0.9



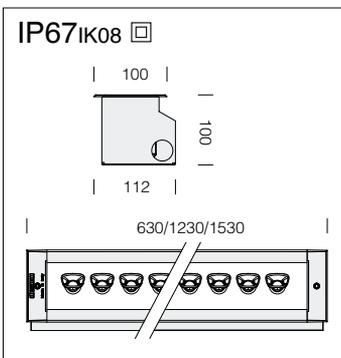
On request: version Power LED RGB fullcolor Equipped with DMX control.

DMX inside

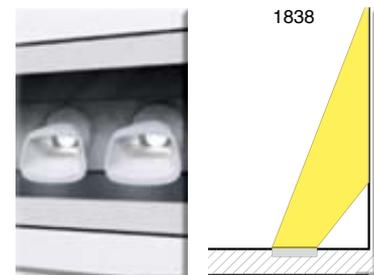
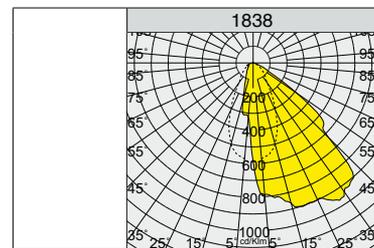
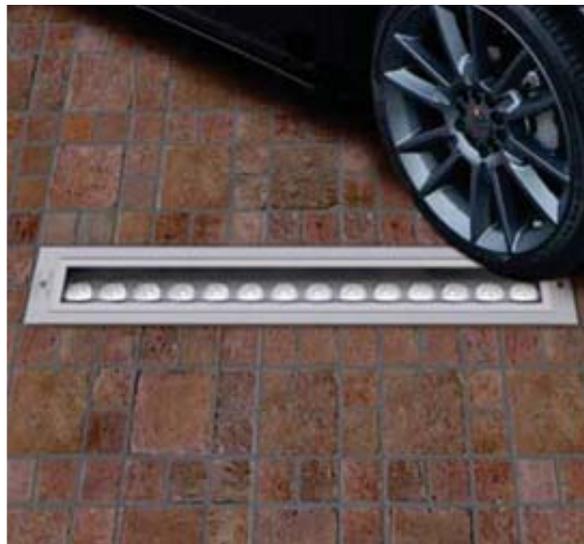


1836 Sicura symmetric FS - Power LED											
wattage	colour	L	CLD CELL		temperature and load					LED (Tj=25°C)	
			weight	code	T. max on glass		max load	can be walked on	can bear vehicle load	W	K - ølm - CRI - degrees
					ta 15°	ta 25°					
LED	oxy.n.	630	5.20	414260-00	30°	40°	2000	OK	OK	28	4000K - 3500lm - CRI≥70 - 16°
LED	oxy.n.	1230	6.20	414261-00	30°	40°	2000	OK	OK	56	4000K - 7000lm - CRI≥70 - 16°
LED	oxy.n.	1530	7.20	414268-00	30°	40°	2000	OK	OK	76	4000K - 9000lm - CRI≥70 - 16°

1837 Sicura elliptic - Power LED											
wattage	colour	L	CLD CELL		temperature and load					LED (Tj=25°C)	
			weight	code	T. max on glass		max load	can be walked on	can bear vehicle load	W	K - ølm - CRI - degrees
					ta 15°	ta 25°					
LED	oxy.n.	630	5.20	414270-00	30°	40°	2000	OK	OK	28	4000K - 3500lm - CRI≥70 - 16°
LED	oxy.n.	1230	6.20	414271-00	30°	40°	2000	OK	OK	56	4000K - 7000lm - CRI≥70 - 16°
LED	oxy.n.	1530	7.20	414278-00	30°	40°	2000	OK	OK	76	4000K - 9000lm - CRI≥70 - 16°

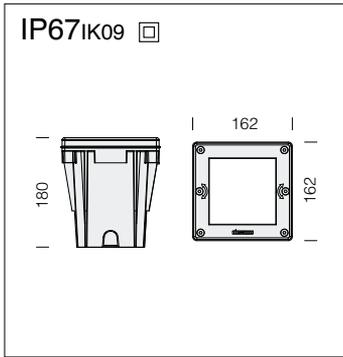


LED: Luminous flux maintenance 80% 50000h (L80B20). Power factor >0.9



1838 Sicura asymmetric - Power LED											
wattage	colour	L	CLD CELL		temperature and load					LED (Tj=25°C)	
			weight	code	T. max on glass		max load	can be walked on	can bear vehicle loads	W	K - ølm - CRI
					ta 15°	ta 25°					
LED	oxy.n.	630	5.20	414280-00	30°	40°	2000	OK	OK	28	4000K - 3500lm - CRI≥70
LED	oxy.n.	1230	6.20	414281-00	30°	40°	2000	OK	OK	56	4000K - 7000lm - CRI≥70
LED	oxy.n.	1530	7.20	414282-00	30°	40°	2000	OK	OK	76	4000K - 9000lm - CRI≥70

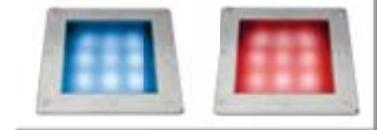




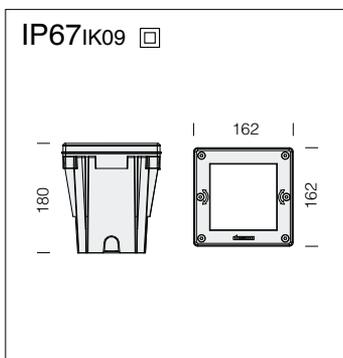
Housing: made of nylon.
Frame: in AISI 304 stainless steel.
Outer casing: nylon outer casing.
Diffuser: tempered glass, 12mm thick, resistant to thermal shock, and mechanical stress up to 2000 Kg.



On request: different colour version.



1822 Miniquadro - LED										
		CLD CELL		temperature and load				LED (Tj=25°C)		
wattage (24V)	colour	weight	code	T. max on glass		max load	can be walked on	can bear vehicle loads	W	K - ølm 24V - CRI
LED	inox			ta 25°	ta 15°					
		1.70	530420-00	30°	20°	2000	OK	OK	3	4000K - 135lm - CRI80

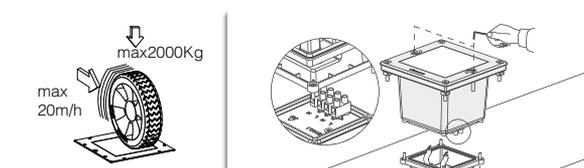


LED: Power factor >0.9
 Luminous flux maintenance 80%
 50000h (L80B50).

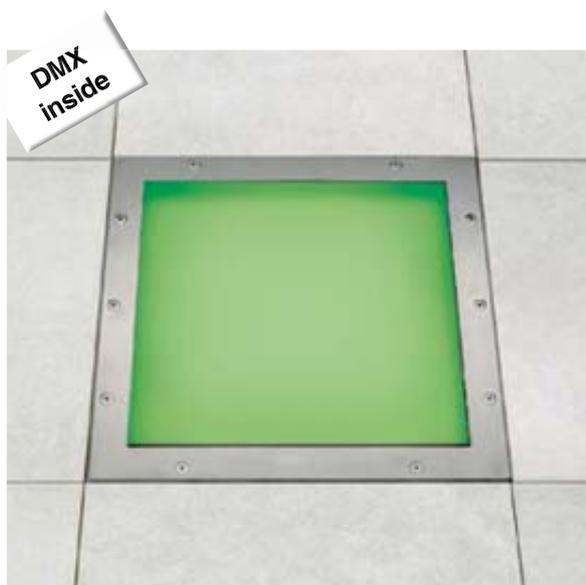
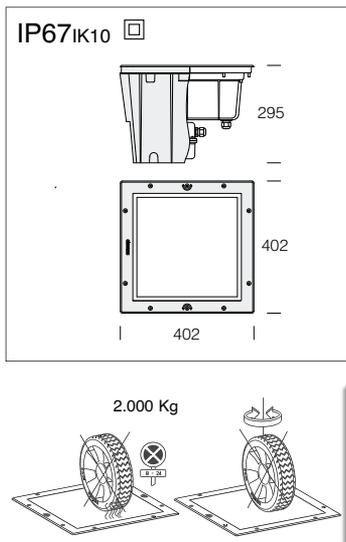


1823 - Miniquadro										
		CLD CELL		temperature and load				LED (Tj=25°C)		
wattage (300mA)	colour	weight	code	T. max on glass		max load	can be walked on	can bear vehicle loads	W	K - ølm 300mA - CRI
LED	inox			ta 25°	ta 15°					
		1.70	530425-00	40°	30°	2000	OK	OK	11	4000K - 1400lm - CRI80

LED: Power factor >0.9
 Luminous flux maintenance 80%
 50000h (L80B50).

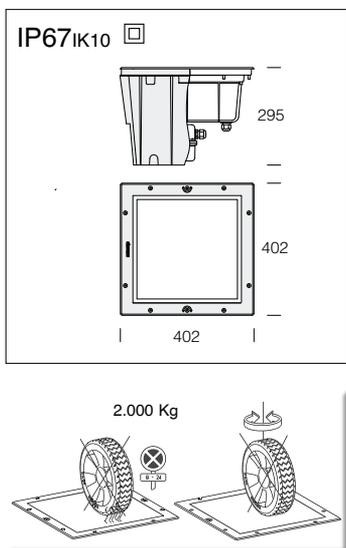






1832 Quadro di luce LED - LED RGB										
		CLD CELL		temperature and load					LED (Tj=25°C)	
wattage (24V)	colour	weight	code	T. max on glass		max load	can be walked on	can bear vehicle loads	W	ølm 24V
				ta 25°	ta 15°					
LED Fullcolor	Inox	13.00	530991-00	30°	20°	2000	OK	OK	32	8 x105lm

LED RGB: with DMX integrated high density bright LED; small source with multicolor optics.



1819 Quadro di luce - LED										
		CLD CELL		temperature and load					LED (Tj=25°C)	
wattage (116mA)	colour	weight	code	T. max on glass		max load	can be walked on	can bear vehicle loads	W	K - ølm 116mA - CRI
				ta 25°	ta 15°					
LED	Inox	13.00	530990-00	30°	20°	2000	OK	OK	26	4000 K - 2448lm - CRI80

Best suited for installation as lighted floor.



We created small casings for Quadro and Miniquadro lamps, for outdoor and indoor applications. They are flexible for lighting public spaces, nightclubs, bars, restaurants, hotels, temporary exhibitions and shopping centres. Also available in a smaller version for private, residential applications, such as gardens, porticos and terraces. The name "Nomad Lamp" defines and highlights the peculiar nature of the product, i.e., flexibility and total freedom of use.

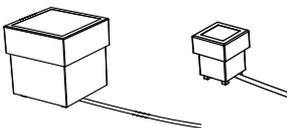
1824 Mini Nomade - for art. Miniquadro		
versions	weight	code
Corten Steel	1.80	991500-00
Natural black waxed plate	1.80	991501-00
Paint corten	1.80	991502-00

Use together with art. 1822/1823 Miniquadro.

1825 Nomade - for art. Quadro		
versions	weight	code
Corten Steel	10.00	991510-00
Natural black waxed plate	10.00	991511-00
Paint corten	10.00	991512-00

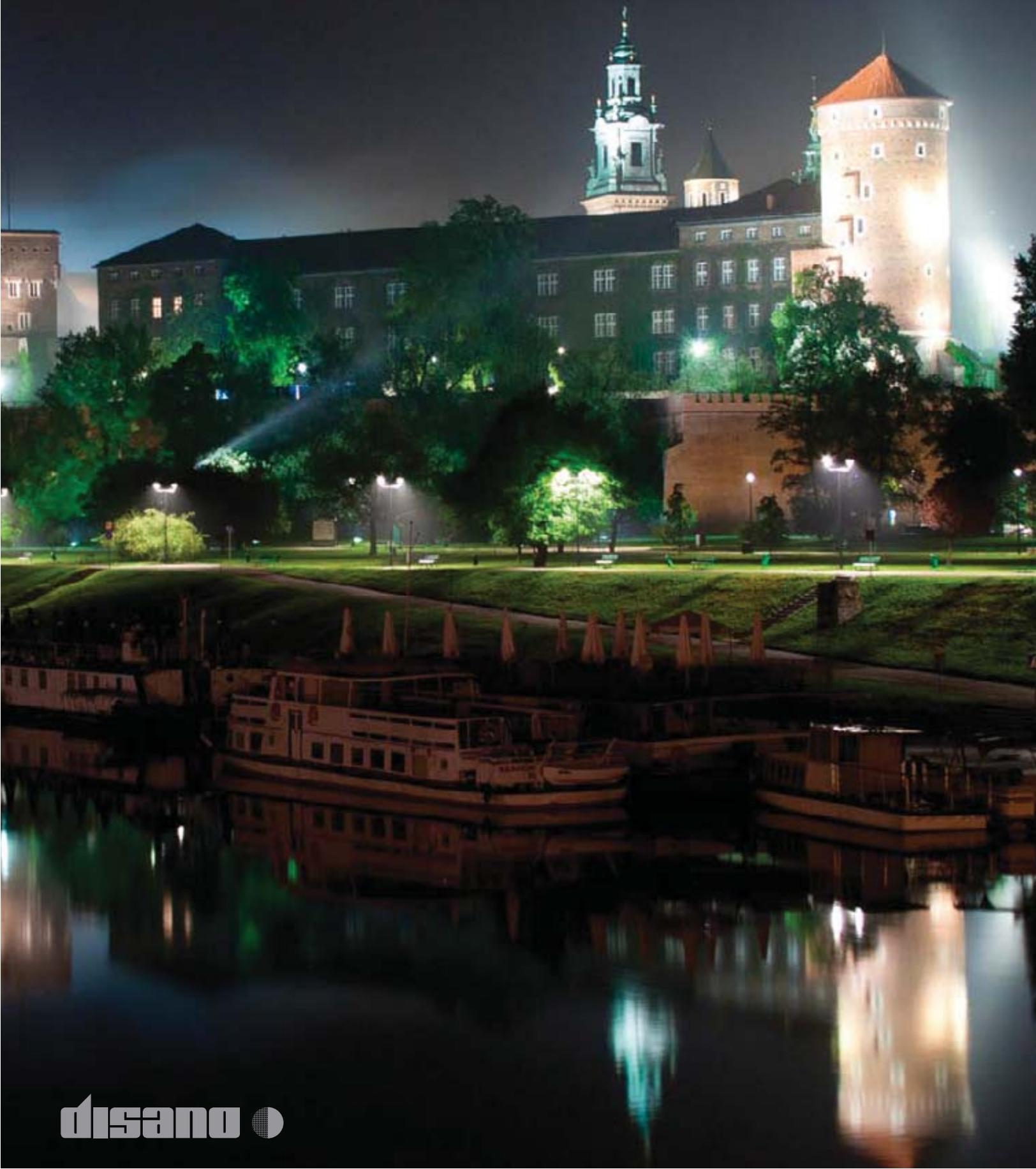
Use together with art. 1814/1819/1832 Quadro.





The finishes designed for the entire range are:
 (a) Corten Steel;
 (b) Natural black waxed plate;
 (c) Corten painted;
 Special coatings upon request

Square section, shaped like a luminous cube
 Falls into the category of ground floodlights.



CRIPTO



Cripto _____ p.178

PUNTO



LITIO



INDIO



Punto _____ p.182

Litio _____ p.183

Indio _____ p.183

TEX



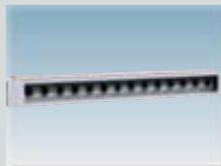
ASTRO



Tex _____ p.184

Astro _____ p.186

SICURA



MODELED



Sicura _____ p.188

Modoled _____ p.190





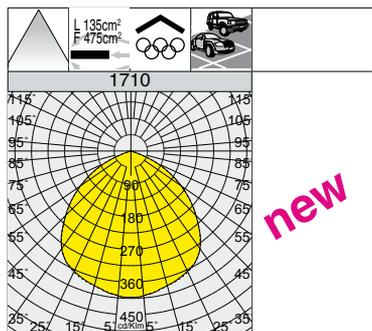
Housing: in die-cast aluminium with cooling fins.

Diffuser: tempered glass, 4 mm thick, resistant to thermal shock and impacts.

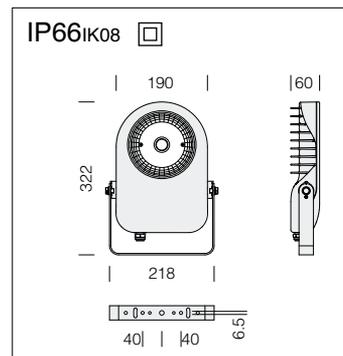
Coating: the first stage includes grey epoxy e-coating, resistant to corrosion and saline environments. Then the fixture is coated with an acrylic based UV-stabilised resin.

Standard Supply: complete with galvanised and coated bracket. Device for automatic temperature control.

Upon request: with dimmable power supply 1-10V.



new



Reflector: in pre-anodised aluminium.

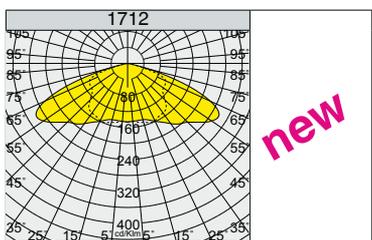
LED: Power factor: $\geq 0,9$.
Luminous flux maintenance 70%:
50000h (L70B50).

1710 Cripto small - wide beam

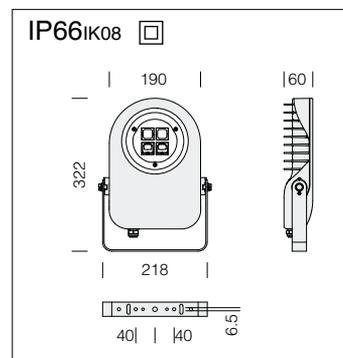
		CLD CELL		W	LED (T _p =25°C)
wattage (700mA)	colour	weight	code		K - ølm 700mA - CRI
LED COB	graphite	4.00	413000-00	25	4000K - 3000lm - CRI \geq 80
LED COB	s. silver	4.00	413001-00		
					K - ølm 1050mA - CRI
wattage (1050mA)				38	4000K - 4700lm - CRI \geq 80
LED COB	graphite	4.00	413050-00		
LED COB	s. silver	4.00	413051-00		



new



new



Optics: in PMMA, highly resistant to temperature and UV radiation. Flow recovery in V0 polycarbonate.

LED: Power factor: $\geq 0,9$.
Luminous flux maintenance 70%:
50000h (L70B20).

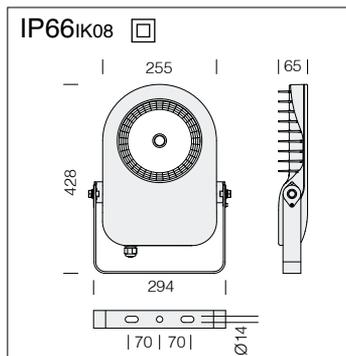
1711 Cripto small - asymmetric

		CLD CELL		W	LED (T _j =85°C)
wattage (700mA)	colour	weight	code		K - ølm 700mA - CRI
LED	graphite	4.00	413010-00	31	4000K - 3720lm - CRI $>$ 80
LED	s. silver	4.00	413011-00	31	4000K - 3720lm - CRI $>$ 80

1712 Cripto small - symmetric

		CLD CELL		W	LED (T _j =85°C)
wattage (700mA)	colour	weight	code		K - ølm 700mA - CRI
LED	graphite	4.00	413020-00	31	4000K - 3720lm - CRI $>$ 80
LED	s. silver	4.00	413021-00	31	4000K - 3720lm - CRI $>$ 80

	Power supply	W	ølm
On request	530mA	23	2800



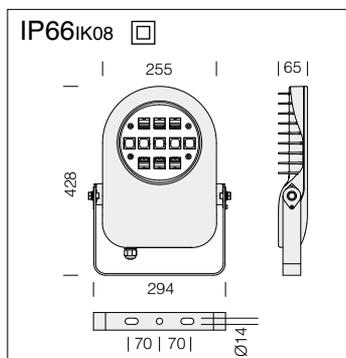
Reflector: in pre-anodised aluminium.

LED: Power factor: $\geq 0,9$.
Luminous flux maintenance 70%:
50000h (L70B50).



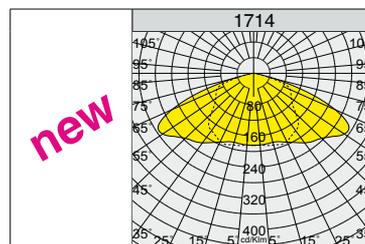
new

1715 Cripto medium - wide beam					
		CLD CELL		LED (Tj=85°C)	
wattage (1400mA)	colour	weight	code	W	K - ølm 1400mA - CRI
LED COB	graphite	5.50	413060-00	52	4000K - 6300lm - CRI 80
LED COB	s. silver	5.50	413061-00	52	4000K - 6300lm - CRI 80



Optics: in PMMA, highly resistant to temperature and UV radiation. Flow recovery in V0 polycarbonate.

LED: Power factor: $\geq 0,9$.
Luminous flux maintenance 70%:
50000h (L70B20).



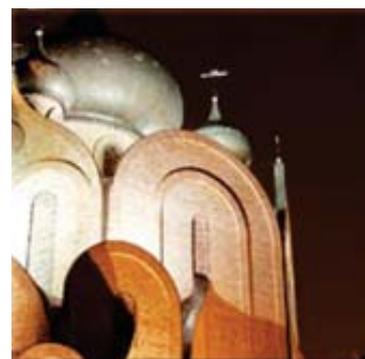
new

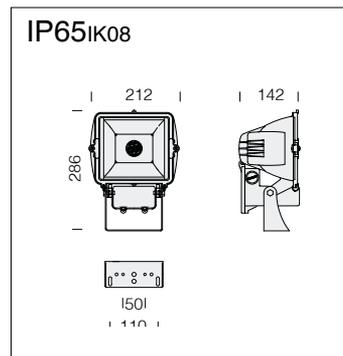
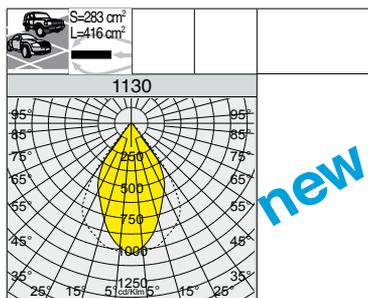
new

1713 Cripto medium - asymmetric					
		CLD CELL		LED (Tj=85°C)	
wattage (700mA)	colour	weight	code	W	K - ølm 700mA - CRI
LED	graphite	5.50	413030-00	88	4000K - 10200lm - CRI 80
LED	s. silver	5.50	413031-00	88	4000K - 10200lm - CRI 80

1714 Cripto medium - symmetric					
		CLD CELL		LED (Tj=85°C)	
wattage (700mA)	colour	weight	code	W	K - ølm 700mA - CRI
LED	graphite	5.50	413040-00	88	4000K - 10200lm - CRI 80
LED	s. silver	5.50	413041-00	88	4000K - 10200lm - CRI 80

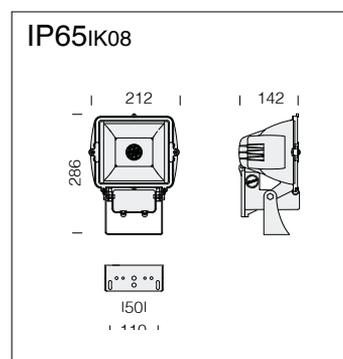
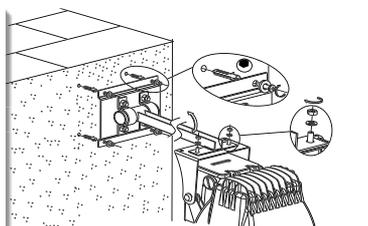
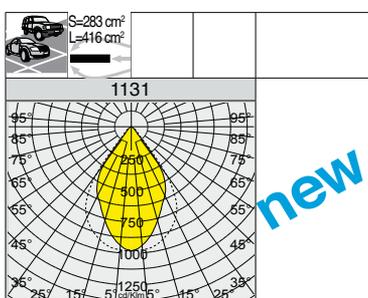
	Power supply	W	ølm
On request	530mA	64	7700





Housing: in die-cast aluminium.
Reflector: in high-grade 99,99 hammered aluminium with PVD treatment.
Diffuser: tempered glass, resistant to impact and thermal shock.
LED: Luminous flux maintenance 70%: 50000h (L70B50)
 Power factor ≥ 0.9

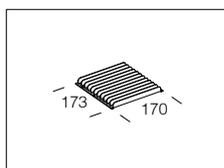
1130 Punto - Power LED - COB System					
		CLD CELL		LED (Tp=25°C)	
wattage/W	colour	weight	code	W	K - ϕ lm- CRI
LED	s. silver	1.80	413751-00	25	4000K - 3000lm - CRI ≥ 80
LED	graphite	1.80	413750-00		



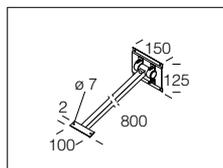
LED: Luminous flux maintenance 70%: 50000h (L70B50)
 Power factor ≥ 0.9

1131 Punto - Power LED - COB System					
		CLD CELL		LED (Tp=25°C)	
wattage/W	colour	weight	code	W	K - ϕ lm- CRI
LED	s. silver	1.80	413753-00	37	4000K - 4700lm - CRI ≥ 80
LED	graphite	1.80	413752-00		

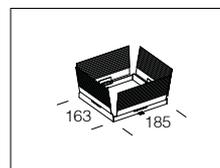
acc. 1134 louvre
 black | 413605-00
 Made of steel. To reduce glare effect and improve light control. Made of powder-coated steel.

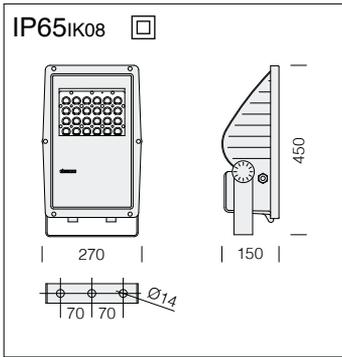


acc. 41 arm
 graphite | 995506-00
 s. silver | 995507-00
 Adjustable-angle arm galvanized steel.



acc. 1133 shutter
 black | 413604-00
 Made of powder-coated steel. To direct the light beam.



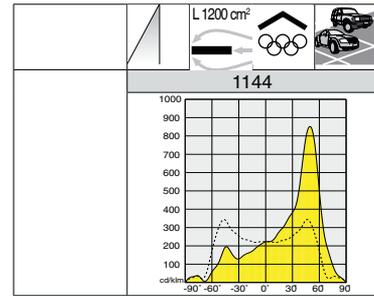


Housing/Frame: in die-cast aluminium, with cooling fins

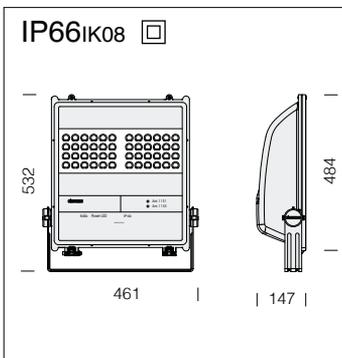
Diffuser: in tempered glass, 5 mm thick, resistant to thermal shock and impacts.

Optics: in PMMA, highly resistant to temperature and UV radiation

LED: Luminous flux maintenance 80% 50000h (L80B20)
Power factor ≥ 0.9



1144 Litio - Power LED asymmetric					
		CLD CELL		W	LED (Tj=25°C)
wattage (700mA)	colour	weight	code		K - ϕ lm 700mA - CRI
LED	graphite	4.90	313369-00	47	4000K - 6408lm - CRI \geq 70

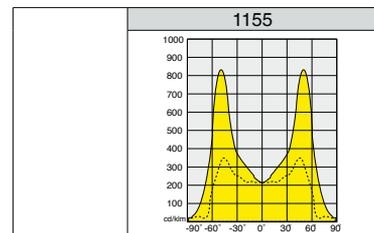
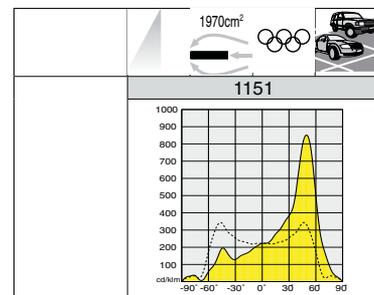


Housing/Frame: in die-cast aluminium, with cooling fins

Diffuser: in tempered glass, 5 mm thick, resistant to thermal shock and impacts.

Optics: in PMMA, highly resistant to temperature and UV radiation

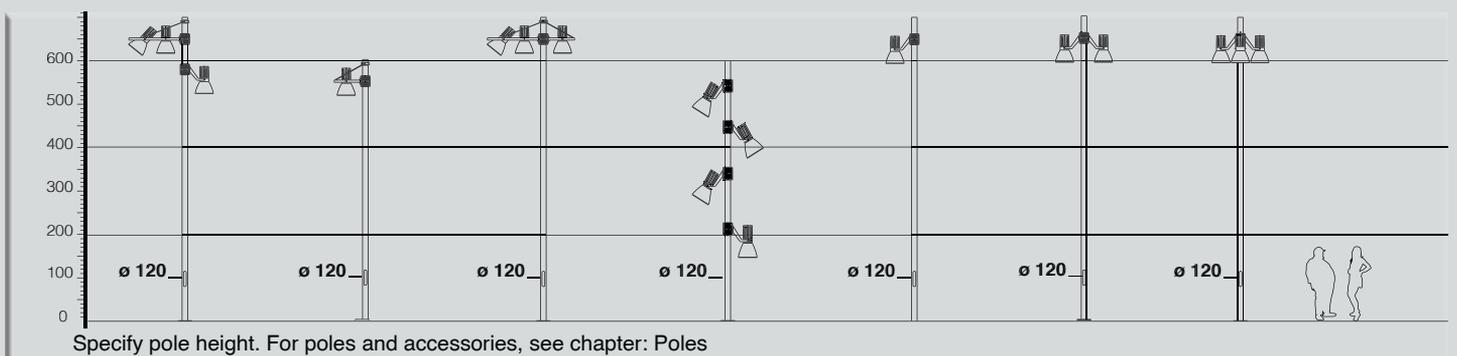
LED: Luminous flux maintenance 80% 50000h (L80B20)
Power factor ≥ 0.9

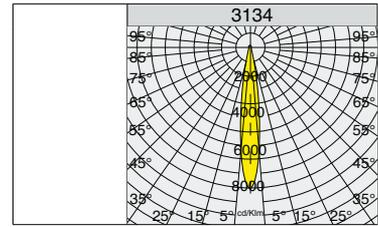
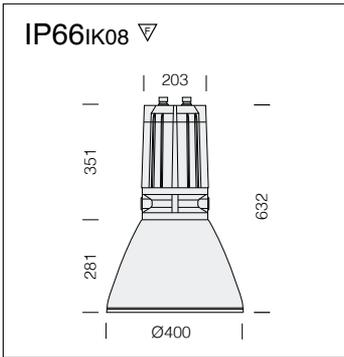


1151 Indio - Power LED asymmetric					
		CLD CELL		W	LED (Tj=25°C)
wattage (700mA)	colour	weight	code		K - ϕ lm 700mA - CRI
LED	graphite	9.40	413821-00	94	4000K - 12820lm - CRI \geq 70

1155 Indio - Power LED symmetric					
		CLD CELL		W	LED (Tj=25°C)
wattage (700mA)	colour	weight	code		K - ϕ lm 700mA - CRI
LED	graphite	9.40	413822-00	94	4000K - 12820lm - CRI \geq 70







Housing/Frame and outside reflector: die-cast aluminium with wide cooling fins.

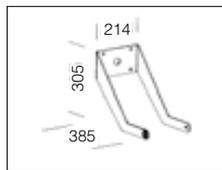
Reflector: in polished 99,85 aluminium with glass protection.

Diffuser: tempered glass, 5 mm thick, resistant to thermal shocks and impacts.

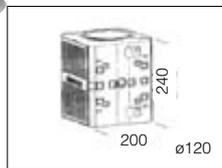
Coating: In several stages. First stage: grey epoxy-cationic electro-coating, resistant to corrosive and saline environments. Second stage: UV stabilising priming; final stage: rough finish with frosted acrylic paint.

LED: Luminous flux maintenance 80% 50000h (L80B20)
Power factor ≥ 0.9

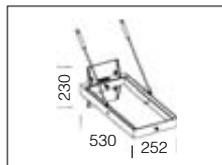
3134 Tex - Power LED					
		CLD CELL		LED (Tj=25°C)	
wattage (530mA)	colour	weight	code	W	K - ϕ lm 530mA - CRI - degrees
LED	s.silv. +graph.	15.00	326060-00	56	4000K - 6624lm - CRI70 - 25°



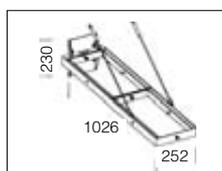
acc. 332 bracket for frame	
s. silver	998066-00
graph.	998067-00
In steel sheet. For the installation to wall or ground.	



acc. 151 Lione cube	
graphite	991310-00
s. silver	991365-00
Made of die-cast aluminium. To be used when installing the products on poles $\phi 120$.	



acc. 330 single frame	
silver	998062-00
graphite	998063-00
In tropicalized steel. For the pole installation. To be used with acc. 151.	



acc. 331 double frame	
silver	998064-00
graphite	998065-00
In tropicalized steel. For the pole installation. To be used with acc. 151.	





Housing/Frame: in die-cast aluminium with cooling fins integrated into the cover and designed with a very small surface exposed to wind.

Diffuser: tempered glass, 4 mm thick, resistant to thermal shocks and impacts (UNI-EN 12150-1: 2001).

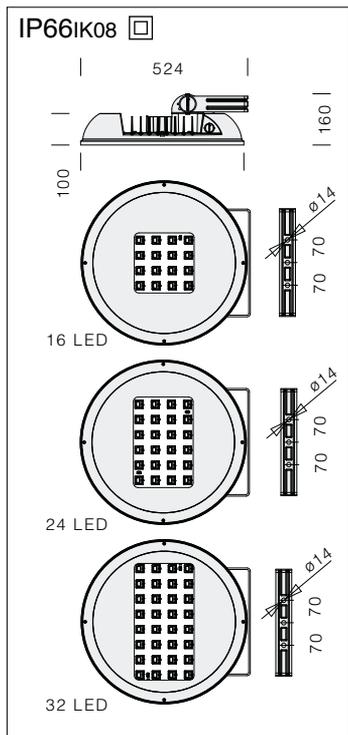
Coating: polyester resin for powder coating, resistant to corrosion and saline environments.

Standard supply: Automatic temperature control inside the device with automatic resetting. In the event of an unexpected LED temperature rise caused by particular weather conditions or a LED failure, the system will reduce the luminous flux to lower the working temperature and guarantee proper operation. Safety diode to protect against voltage peaks compliant with EN 61547.

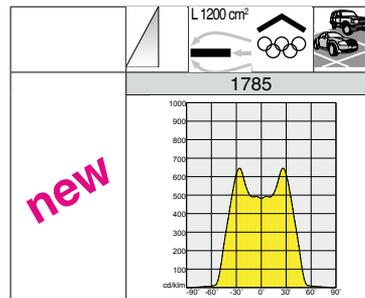
LED: Optics made of PMMA with high temperature resistance and UV rays. Flow recovery in V0 polycarbonate, metallized high yield.

On request: 24 LED version: 1000mA - 33000lm.





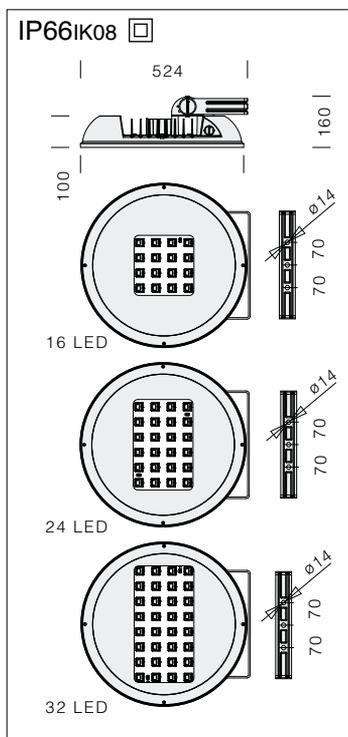
LED: Luminous flux maintenance 70%: 50000h (L70B20)
Power factor ≥ 0.9



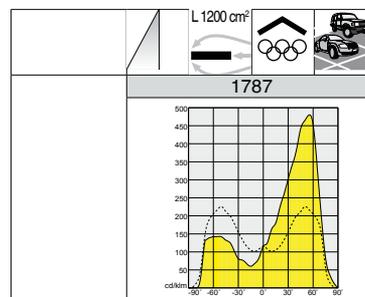
1785 Astro - Power LED symmetric

wattage 700mA	colour	CLD CELL-D		W	LED (Tj=85°C)
		weight	code		K - ølm 700mA - CRI - degrees
LED	s. silver	11.35	330054-00	127	4000K - 15680lm - CRI 80 - 60°
LED	graphite	11.35	330055-00		4000K - 15680lm - CRI 80 - 60°
LED	s. silver	11.50	330050-00	188	4000K - 23520lm - CRI 80 - 60°
LED	graphite	11.50	330052-00		4000K - 23520lm - CRI 80 - 60°
LED	s. silver	11.65	330051-00	251	4000K - 31360lm - CRI 80 - 60°
LED	graphite	11.65	330053-00		4000K - 31360lm - CRI 80 - 60°

On request: possibility for the various options for managing the supply point (see table on p. XVII).



LED: Luminous flux maintenance 70%: 50000h (L70B20)
Power factor ≥ 0.9



1787 Astro - Power LED asymmetric

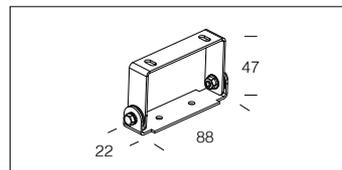
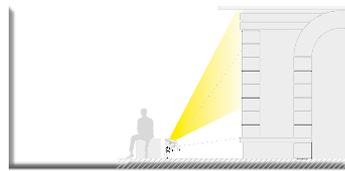
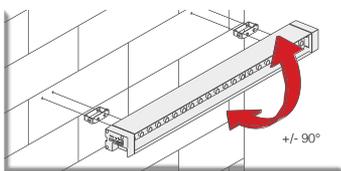
wattage 700mA	colour	CLD CELL-D		W	LED (Tj=85°C)
		weight	code		K - ølm 700mA - CRI - degrees
LED	s. silver	11.35	330074-00	127	4000K - 15680lm - CRI 80 - 60°
LED	graphite	11.35	330075-00		4000K - 15680lm - CRI 80 - 60°
LED	s. silver	11.50	330070-00	188	4000K - 23520lm - CRI 80 - 60°
LED	graphite	11.50	330072-00		4000K - 23520lm - CRI 80 - 60°
LED	s. silver	11.65	330071-00	251	4000K - 31360lm - CRI 80 - 60°
LED	graphite	11.65	330073-00		4000K - 31360lm - CRI 80 - 60°

On request: possibility for the various options for managing the supply point (see table on p. XVII).

-
-
- RG0**
-
- +40
-30
-
- U.V.**
-
- A1**
- DIMM**
-
- ZONA**
-
- 90°**
-
- 180°**
-

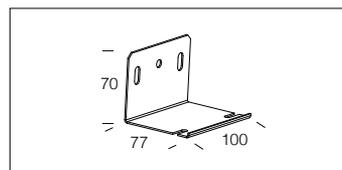
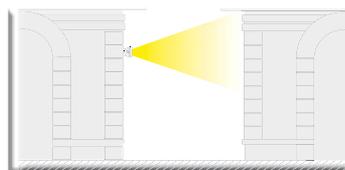
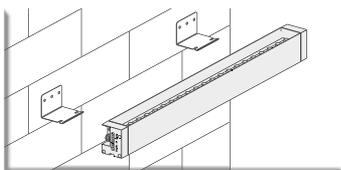


Accessories



acc. 535 adjustable connection
stainless steel | 993970-00

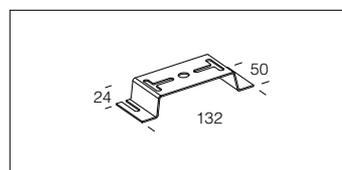
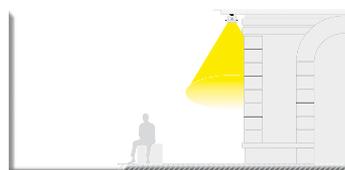
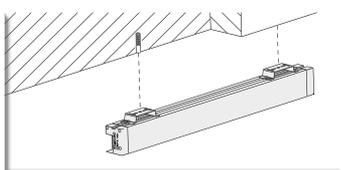
Use the installation directly on the ceiling. Capacity: 6 Kg. **2 for pack.**



acc. 536 bracket

stainless steel | 993972-00

To install Sicura permanently on walls/floors. **2 for pack.**

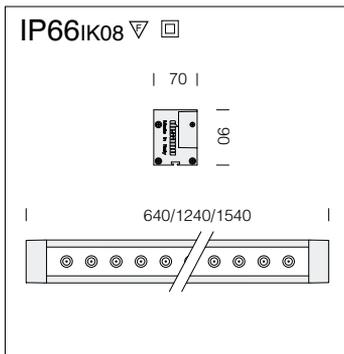


acc. 376 ceiling moun. unit

galvanized | 145151-00

For direct ceiling installation. Only for equipment with direct light. **2 for pack.**





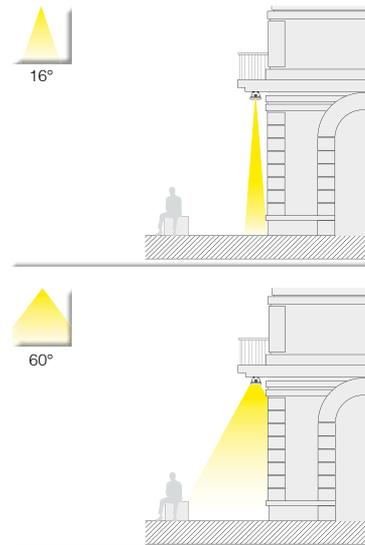
Housing: complete with graphite aluminium frame with die-cast aluminium end caps.

Diffuser: 8 mm frosted and tempered glass, resistant to thermal shock.

Coating: housing oxide and caps in polyester resin for powder coating, resistant to corrosion and saline environments.

Equipment: complete with IP68 airtight connector for mains connection.

LED: Luminous flux maintenance 70% 60000h (L70B20)
Power factor ≥ 0.9

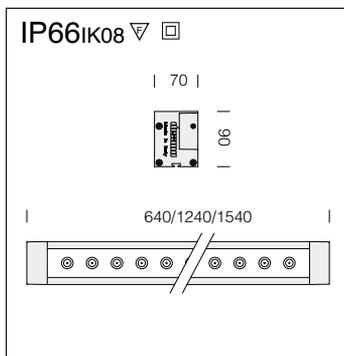


1768 Sicura symmetric FS - Power LED

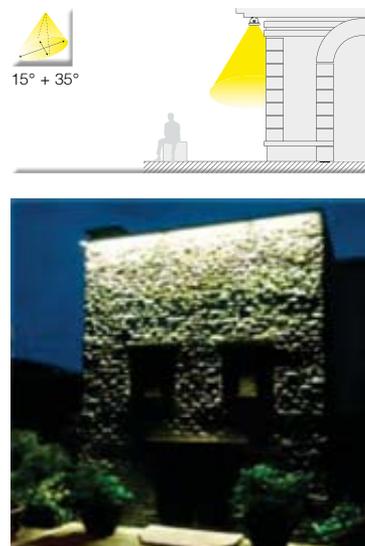
wattage	colour	L	CLD CELL		LED (Tj=25°C)	
			weight	code	W	K - ølm - CRI - degrees
LED	n. oxy.	640	3.00	414242-00	28	4000K - 3500lm - CRI \geq 70 - 16°
LED	n. oxy.	1240	3.50	414243-00	56	4000K - 7000lm - CRI \geq 70 - 16°
LED	n. oxy.	1540	4.00	414244-00	76	4000K - 9000lm - CRI \geq 70 - 16°

1769 Sicura symmetric FL - Power LED

wattage	colour	L	CLD CELL		LED (Tj=25°C)	
			weight	code	W	K - ølm - CRI - degrees
LED	n. oxy.	640	3.00	414262-00	28	4000K - 3500lm - CRI \geq 70 - 60°
LED	n. oxy.	1240	3.50	414263-00	56	4000K - 7000lm - CRI \geq 70 - 60°
LED	n. oxy.	1540	4.00	414264-00	76	4000K - 9000lm - CRI \geq 70 - 60°



LED: Luminous flux maintenance 70% 60000h (L70B20)
Power factor ≥ 0.9



1775 Sicura elliptic - Power LED

puissance	colour	L	CLD CELL		LED (Tj=25°C)	
			weight	code	W	K - ølm - CRI
LED	n. oxy.	640	3.00	414236-00	28	4000K - 3500lm - CRI \geq 70
LED	n. oxy.	1240	3.50	414237-00	56	4000K - 7000lm - CRI \geq 70
LED	n. oxy.	1540	4.00	414238-00	76	4000K - 9000lm - CRI \geq 70

On request: RGBW version.





Housing: In extruded aluminum with built-in dissipator

Diffuser: clear, tempered glass, 4 mm thick, resistant to thermal shock and impacts (UNI-EN 12150-1 : 2001).

Optics: in PMMA, highly resistant to temperature and UV radiation

Standard supply: Automatic temperature control inside the device with automatic resetting. Safety diode to protect against voltage peaks compliant with EN 61547.

Heat sink: the heat dissipation system is specially designed and made to allow the operation of the LED lights with temperatures ensuring excellent performance/efficiency and durability.

LED:
Luminous flux maintenance 70%
50000h (L70B20)
Power factor ≥ 0.9



RG0

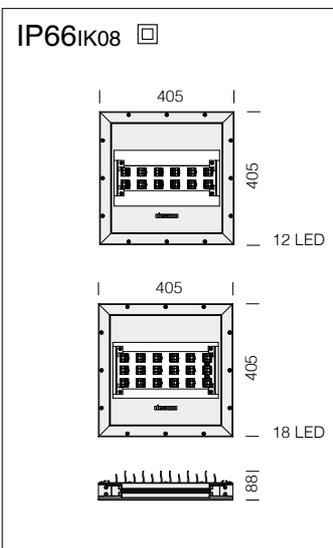
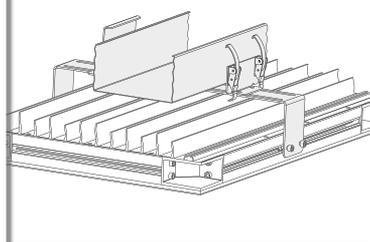
-40
C
-30



ZONA 1



On request: Can be secured to cable track.



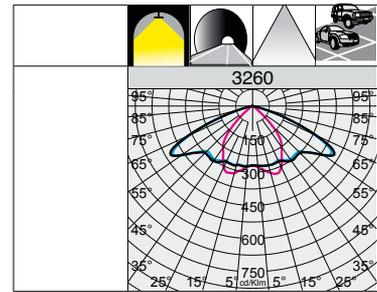
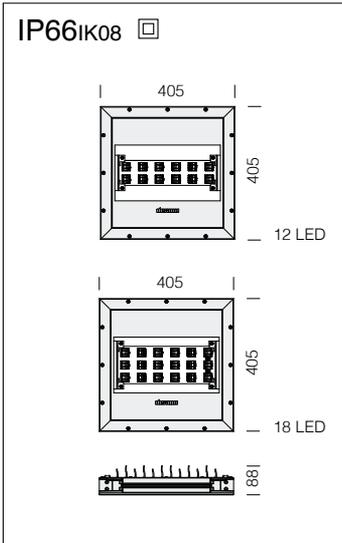
3264 Modoled - Power LED - Counter-flow lighting

		CLD CELL		W	LED (T _j =85°C)
wattage (700mA)	colour	weight	code		K - ølm 700mA - CRI
LED	oxy. nat.	9,80	330333-00	94	4000K - 11760lm - CRI \geq 70
LED	oxy. nat.	9,80	330334-00	141	4000K - 17640lm - CRI \geq 70

On request: possibility for the various options for managing the supply point (see table on p. XVII).

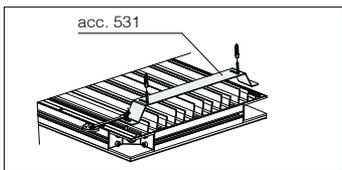
Counter-flow lighting

In the counter-flow lighting technique the light is aimed in the direction opposite to the flow of traffic. This helps observers to perceive the objects on the roadway as vividly highlighted against the background. Additionally, aiming the light mostly towards observers results in higher luminous efficacy on the roadway.

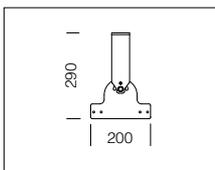


3260 Modoled - Power LED					
		CLD CELL		W	LED (Tj=85°C)
wattage (700mA)	colour	weight	code		K - ølm 700mA - CRI
LED	oxy. nat.	9.80	330303-00	94	4000K - 11760lm - CRI≥70
LED	oxy. nat.	9.80	330304-00	141	4000K - 17640lm - CRI≥70

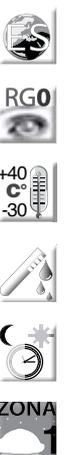
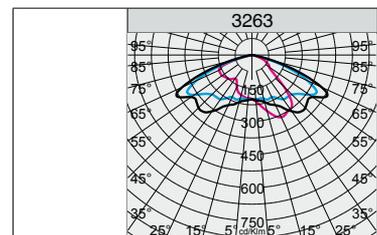
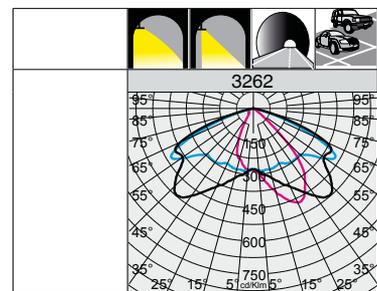
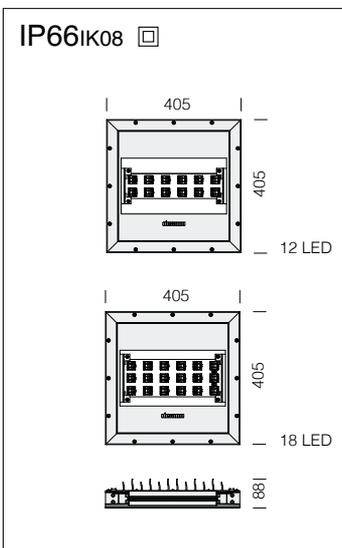
On request: possibility for the various options for managing the supply point (see table on p. XVII).



acc. 531 fixed bracket
Inox 998100-00
In stainless steel. Can be hanged at the ceiling. Contains 2 pieces.

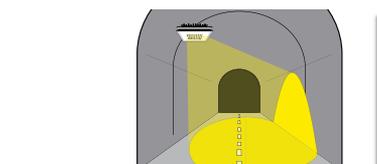


acc. 530 adjustable bracket
Inox 998099-00
In stainless steel. Can be hanged and rotated. Can be ceiling or wall-mounted.



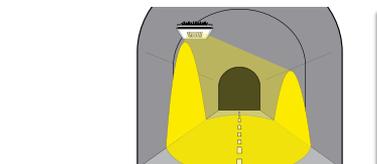
3262 Modoled - Power LED asymmetric (1)					
		CLD CELL		W	LED (Tj=85°C)
wattage (700mA)	colour	weight	code		K - ølm 700mA - CRI
LED	oxy. nat.	9.80	330323-00	94	4000K - 11760lm - CRI≥70
LED	oxy. nat.	9.80	330324-00	141	4000K - 17640lm - CRI≥70

On request: possibility for the various options for managing the supply point (see table on p. XVII).



3263 Modoled - Power LED mixed (2)					
		CLD CELL		W	LED (Tj=85°C)
wattage (700mA)	colour	weight	code		K - ølm 700mA - CRI
LED	oxy. nat.	9.80	330326-00	94	4000K - 11760lm - CRI≥70
LED	oxy. nat.	9.80	330327-00	141	4000K - 17640lm - CRI≥70

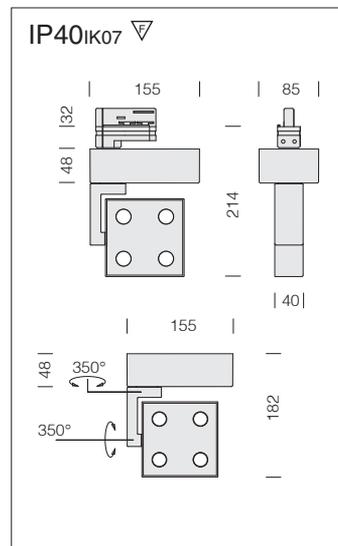
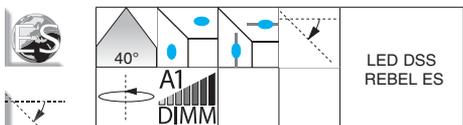
On request: possibility for the various options for managing the supply point (see table on p. XVII).







Matrix Spot	p.194
Matrix	p.196
Leo	p.198
Kim 2	p.200
Jolly	p.201
Krypton	p.202
Gi Otto	p.204
Trial One	p.206
Ghotam	p.207
Q45	p.208
M45	p.208
M60	p.210
Milano Small	p.212
Janus	p.213
Deimos	p.213
Stella	p.214
Logan	p.215
Low Glare	p.216
iSpot	p.222
Sun	p.224
Luthor	p.226
KF Retrofit Famil	p.228
Office	p.230
Lex Family	p.236
Euro 14	p.237
Energy	p.238
Velvet	p.240
Milano	p.242
Store	p.244
Minicomfort	p.246
LED Panel	p.250
Delta Market	p.254
King	p.254
Trial LED	p.255
Snow	p.256
Boxy	p.257
Cometa	p.258
Oblò	p.260
Globò	p.261
Riquadro	p.262
Cubo	p.263
Orma	p.263
Cilindro LED	p.264
Liset	p.266
Micro Liset indoor	p.268
Minilinea	p.270
Slim	p.272
Pannello Luminoso	p.274
Rigo LED	p.276
Safety Flag	p.277
Emergency	p.278



Matrix 4 Spot - universal adapter						
		CLD CELL		CLD CELL-D	W	LED (Ta=25°C)
wattage/W (1A)	colour	weight	code	code		K - ølm (1A) - CRI
LED 4x3W	white	1,80	22101414-00	22101414-12	14	4000K - 1240lm - CRI 80
LED 4x3W	black	1,80	22101434-00	22101434-12		
LED 4x3W	m. silver	1,80	22101474-00	22101474-12		

Matrix 4 Spot - base					
		CLD CELL-D		W	LED (Ta=25°C)
wattage/W (1A)	colour	weight	code		K - ølm (1A) - CRI
LED 4x3W	white	1,80	22201414-00	14	4000K - 1240lm - CRI 80
LED 4x3W	black	1,80	22201434-00		
LED 4x3W	m. silver	1,80	22201474-00		

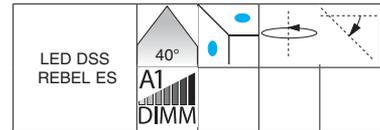
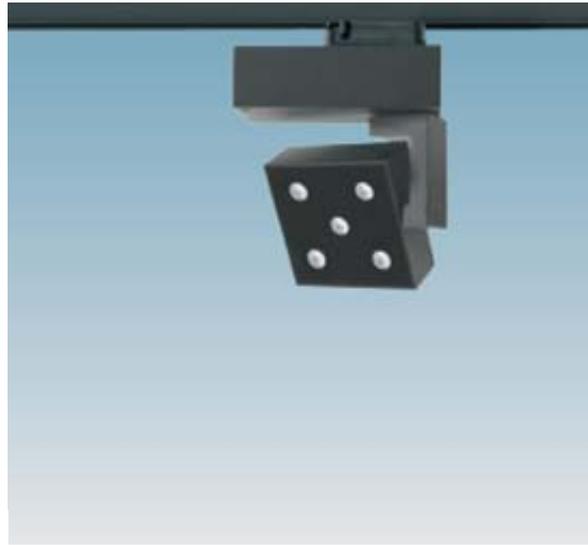
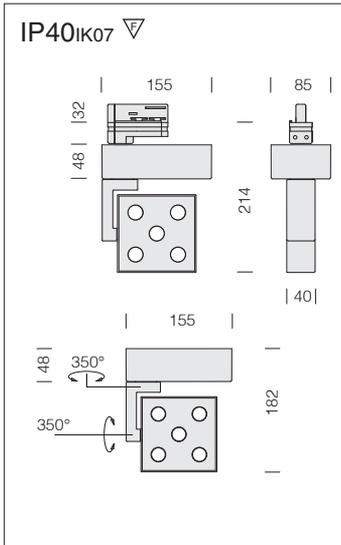
Housing: in die-cast aluminium.

Reflector: in die-cast aluminium with anodised heat sink. Front in black, white or transparent polycarbonate material.

Equipment: supplied with universal adapter in track mounted versions. Complete with electronic power supply unit separated from the LEDs. Possibility to select the drive current (350, 500, 700mA) using a switch inside the driver.

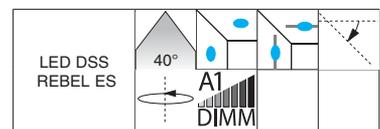
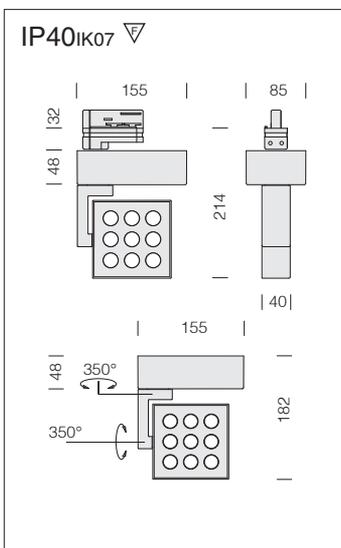
Upon request: 20° or 60° beam angle.

LED: Luminous flux maintenance L70B50: 50.000h. Power factor >0.9



Matrix 5 Spot - universal adapter				
		CLD CELL		LED (Ta=25°C)
wattage/W (1A)	colour	weight	code	W
LED 5x3W	white	1,80	222101416-00	17
LED 5x3W	black	1,80	222101436-00	
LED 5x3W	m. silver	1,80	222101476-00	
				K - ølm (1A) - CRI
4000K - 1550lm - CRI 80				

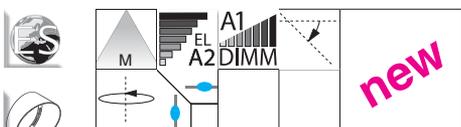
Matrix 5 Spot - base				
		CLD CELL-D		LED (Ta=25°C)
wattage/W (1A)	colour	weight	code	W
LED 5x3W	white	1,80	22201416-00	17
LED 5x3W	black	1,80	22201436-00	
LED 5x3W	m. silver	1,80	22201476-00	
				K - ølm (1A) - CRI
4000K - 1550lm - CRI 80				



Matrix 9 Spot - universal adapter				
		CLD CELL		LED (Ta=25°C)
wattage/W (1A)	colour	weight	code	W
LED 9x3W	white	1,80	222101410-00	30
LED 9x3W	black	1,80	222101430-00	
LED 9x3W	m. silver	1,80	222101470-00	
				K - ølm (1A) - CRI
4000K - 2900lm - CRI 80				

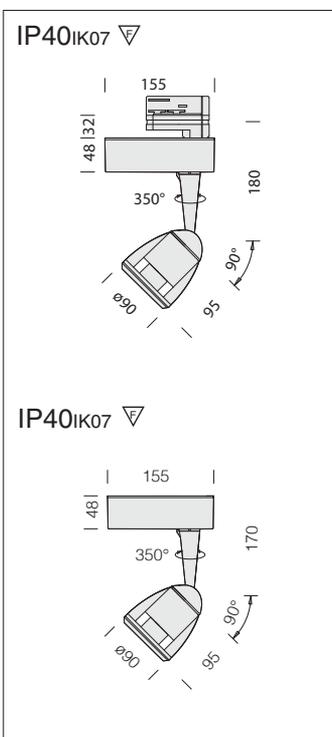
Matrix 9 Spot - base				
		CLD CELL-D		LED (Ta=25°C)
wattage/W (1A)	colour	weight	code	W
LED 9x3W	white	1,80	22201410-00	30
LED 9x3W	black	1,80	22201430-00	
LED 9x3W	m. silver	1,80	22201470-00	
				K - ølm (1A) - CRI
4000K - 2900lm - CRI 80				



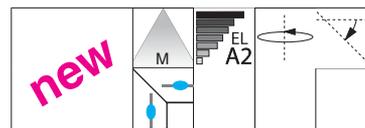
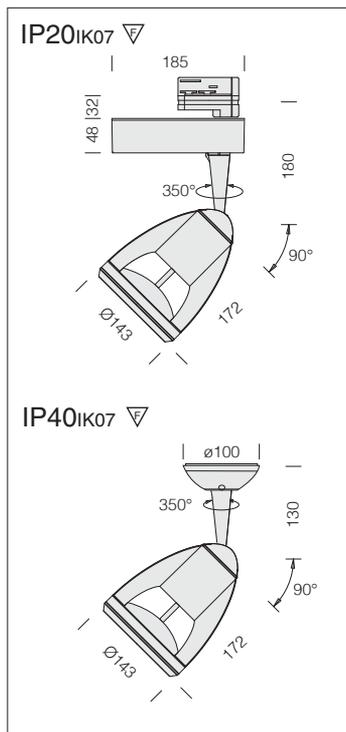


Matrix A2 - LED 111 - universal adapter					
		CLD CELL		W	LED (Ta=25°C)
wattage/W	colour	weight	code		Kelvin - ølm - CRI - degrees
LED 111	m. silver	1,00	22100172-00	11	3000K - 920lm - CRI 83 - 40°

Matrix A2 - LED - Base					
		CLD CELL		W	LED (Ta=25°C)
wattage/W	colour	weight	code		Kelvin - ølm - CRI - degrees
LED 111	m. silver	1,00	22200172-00	11	3000K - 920lm - CRI 83 - 40°



Housing: In die-cast aluminium with central shaft to carry cables.
Reflector: Polished anodised aluminium.
Standard supply: Supplied with universal adapter in track mounted versions.
LED: Luminous flux maintenance L70B50: 50.000h.
 Power factor >0.9

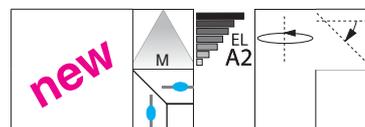
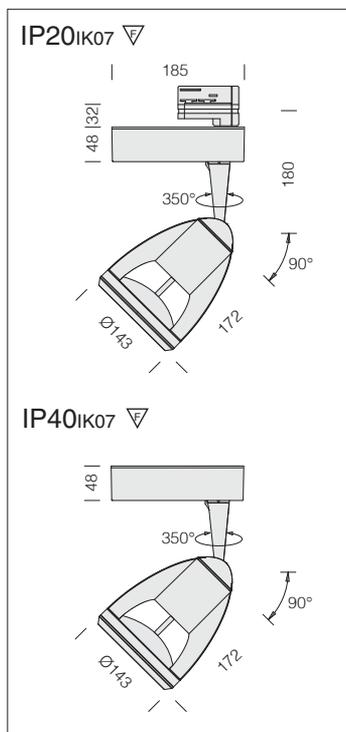


Standard supply: Supplied with universal adapter in track mounted versions.

LED: Luminous flux maintenance L70B50: 35.000h. Power factor >0.9

Matrix B5 - LED 111 - universal adapter					
		CLD CELL		W	LED (Ta=25°C)
wattage/W	colour	weight	code		Kelvin - ølm - CRI - degrees
LED 111	white	1,70	22100810-00	22	3000K - 1800lm - CRI 80 - 24°
LED 111	black	1,70	22100830-00		
LED 111	m. silver	1,70	22100870-00		

Matrix B5 - LED 111- base					
		CLD CELL		W	LED (Ta=25°C)
wattage/W	colour	weight	code		Kelvin - ølm - CRI - degrees
LED 111	white	1,70	22200810-00	22	3000K - 1800lm - CRI 80 - 24°
LED 111	black	1,70	22200830-00		
LED 111	m. silver	1,70	22200870-00		

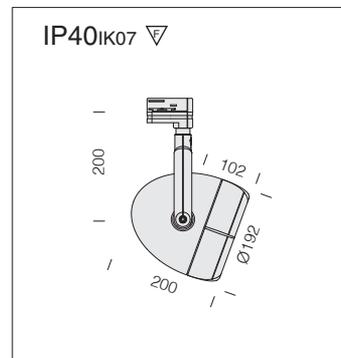
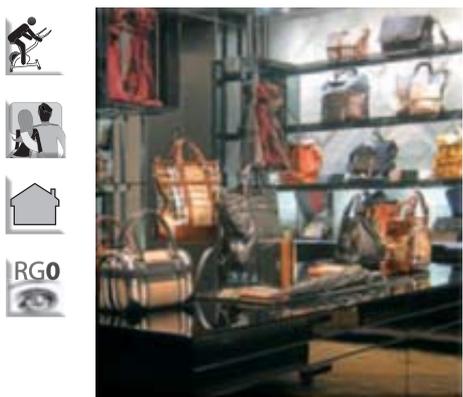
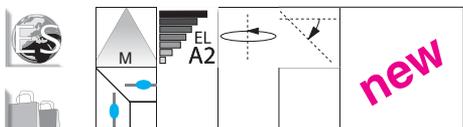


Standard supply: Supplied with universal adapter in track mounted versions.

LED: Luminous flux maintenance L70B50: 50.000h. Power factor >0.95

Matrix B6 - LED 111 - universal adapter					
		CLD CELL		W	LED (Ta=25°C)
wattage/W	colour	weight	code		Kelvin - ølm - CRI - degrees
LED 111	white	1,70	22100411-00	33	3000K - 2740lm - CRI 83 - 40°
LED 111	black	1,70	22100431-00		
LED 111	m. silver	1,70	22100471-00		

Matrix B6 - LED 111- base					
		CLD CELL		W	LED (Ta=25°C)
wattage/W	colour	weight	code		Kelvin - ølm - CRI - degrees
LED 111	white	1,70	22200411-00	33	3000K - 2740lm - CRI 83 - 40°
LED 111	black	1,70	22200431-00		
LED 111	m. silver	1,70	22200471-00		



Housing: Die-cast aluminium with accessible frame designed with bayonet coupling to allow easy lamp maintenance.

Reflector: Mirror-finish, faceted aluminium for the ceramic versions.

Coating: Acrylic resin based UV resistant powder paint.

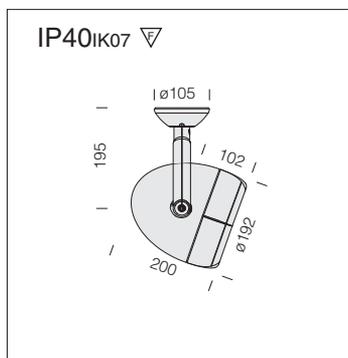
Equipment: supplied with universal adapter in track mounted versions. Supplied with adjustable bracket (on vertical axis with 355° rotation) in die-cast aluminium providing internal passage for wires.

Standards: Products comply with EN 60598-1-CEI 34.21 standards, with level of protection in accordance with EN 60529 standards.

LED: Luminous flux maintenance L70B50: 50.000h. Power factor >0.95

Leo 9 - LED 111 - universal adapter

wattage/W	colour	CLD CELL		W	LED (Ta=25°C)
		weight	code		Kelvin - ølm - CRI - degrees
LED 111	white	1,70	22710110-00	33	3000K - 2740lm - CRI 83 - 24°
LED 111	m. silver	1,70	22710170-00		
LED 111	white	1,70	22710115-00	33	4000K - 2900lm - CRI 83 - 24°
LED 111	m. silver	1,70	22710175-00		



Housing: Die-cast aluminium with accessible frame designed with bayonet coupling to allow easy lamp maintenance.

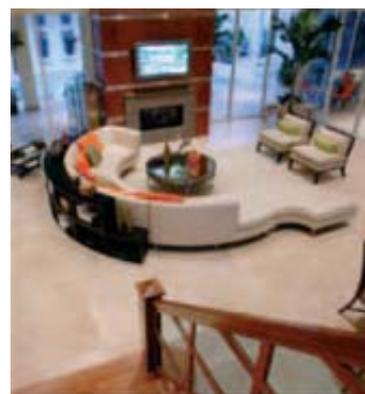
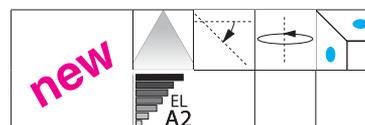
Reflector: Mirror-finish, faceted aluminium for the ceramic versions.

Coating: Acrylic resin based UV resistant powder paint.

Equipment: supplied with adjustable bracket (on vertical axis with 355° rotation) in die-cast aluminium providing internal passage for wires.

Standards: Products comply with EN 60598-1-CEI 34.21 standards, with level of protection in accordance with EN 60529 standards.

LED: Luminous flux maintenance L70B50: 50.000h. Power factor >0.95



Leo 9 - LED 111- Base					
		CLD CELL		LED (Ta=25°C)	
wattage/W	colour	weight	code	W	Kelvin - ølm - CRI - degrees
LED 111	white	1,70	22810110-00	33	3000K - 2740lm - CRI 83 - 24°
LED 111	m. silver	1,70	22810170-00		
LED 111	white	1,70	22810115-00	33	
LED 111	m. silver	1,70	22810175-00		4000K - 2900lm - CRI 83 - 24°



Lighting of objects requires carefully balanced light/shadow and luminous effects, bringing to life the area to be illuminated. The new line of Kim2 spotlights, with its clean outline and modern design, is ideal when creating just the kind of contrast and ambience we have in mind.

Housing: High-temperature resistant techno-polymer.

Standard supply: Supplied with Universal adapter in track mounted versions.

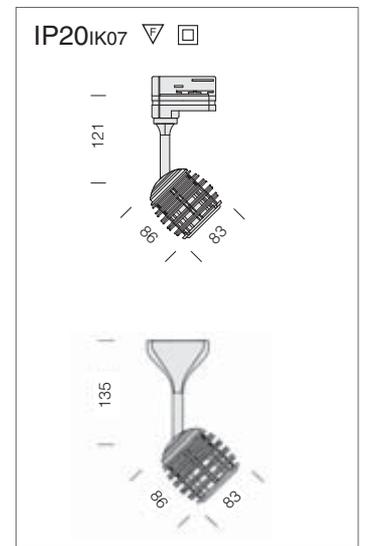
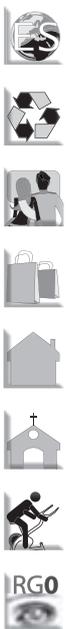
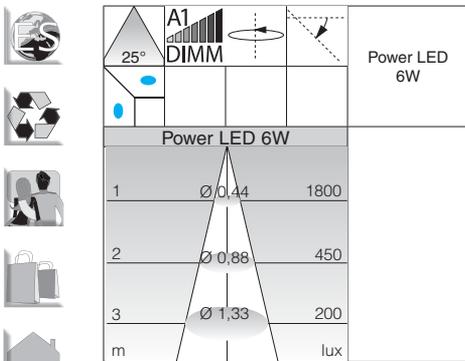
Regulations: Manufactured in accordance with EN 60598-1-CEI 34.21 standards. Degrees of protection in accordance with EN60529 standards.

LED: Luminous flux maintenance L70B50: 25.000h. Power factor <0,8

Standard: with universal adapter.

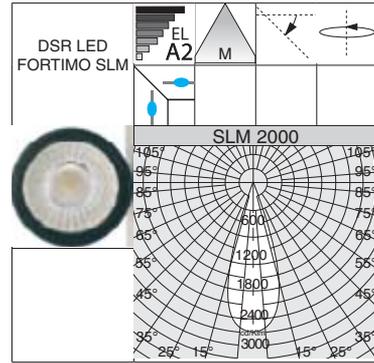
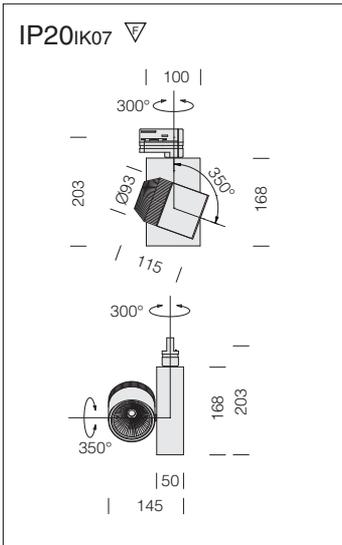


Universal accessories for Universal adapters: they enable the installations of recessed or suspended spotlights.



Kim 2					
		CLD CELL		W	LED (Ta=25°C)
wattage/W	colour	weight	code		K - ølm - CRI - degrees
LED	white	0,40	22031910-00	6	3000K - 450lm - CRI80 - 37°
LED	black	0,40	22031930-00		
LED	m. silver	0,40	22031970-00		

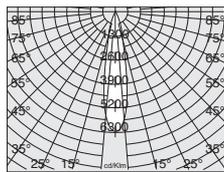
Kim 2 - base					
		CLD CELL		W	LED (Ta=25°C)
wattage/W	colour	weight	code		K - ølm - CRI - degrees
LED	white	0,30	22041011-00	6	3000K - 450lm - CRI80 - 37°
LED	black	0,30	22041031-00		
LED	m. silver	0,30	22041071-00		



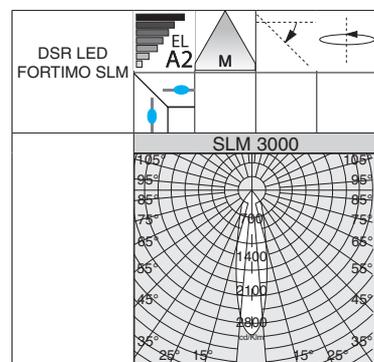
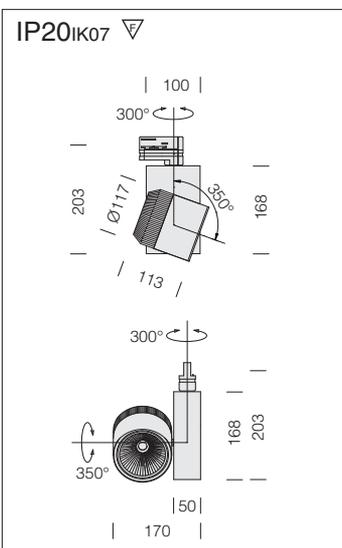
Jolly 1 - SLM 2000					
		CLD CELL		W	LED (Ta=25°C)
wattage/W	colour	weight	code		Kelvin - ølm - CRI
SLM 2000 19W	white	1,10	22102110-00	22	3000K - 2000lm - CRI80
SLM 2000 18W	white	1,10	22102111-00	21	4000K - 2000lm - CRI80

medium beam angle standard

LED: Luminous flux maintenance L70B50: 50.000h.
Power factor >0.95



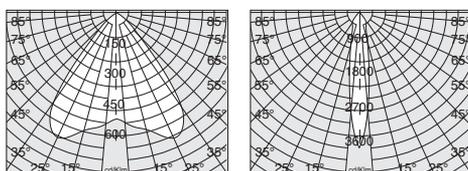
On request: narrow or wide beam angle.



Jolly 2 - SLM 3000					
		CLD CELL		W	LED (Ta=25°C)
wattage/W	colour	weight	code		Kelvin - ølm - CRI
SLM 3000 28W	white	1,80	22102313-00	32	3000K - 3000lm - CRI85
SLM 3000 26W	white	1,80	22102314-00	30	4000K - 3000lm - CRI85

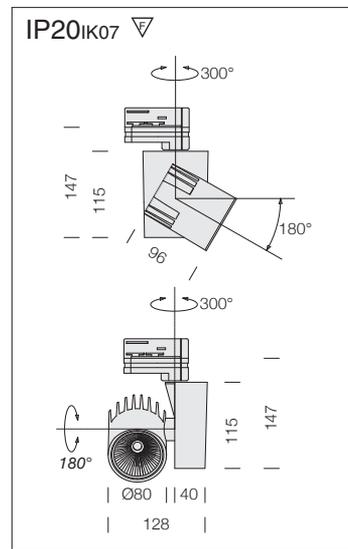
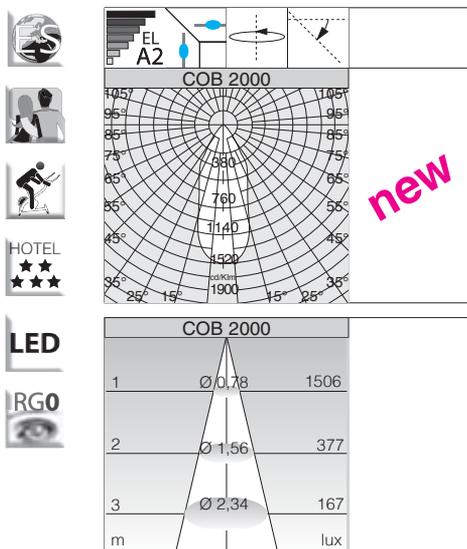
medium beam angle standard

LED: Luminous flux maintenance L70B50: 50.000h.
Power factor >0.97



On request: narrow or wide beam angle.





Krypton 1					
		CLD CELL		LED (Ta=25°C)	
wattage/W	colour	weight	code	W	Kelvin - ølm - CRI
COB 2000	white	1,10	22104010-00	21	3000K - 2000lm - CRI 80
COB 2000	black	1,10	22104030-00	21	3000K - 2000lm - CRI 80
COB 2000	white	1,10	22104011-00	20	4000K - 2000lm - CRI 80
COB 2000	black	1,10	22104031-00	20	4000K - 2000lm - CRI 80

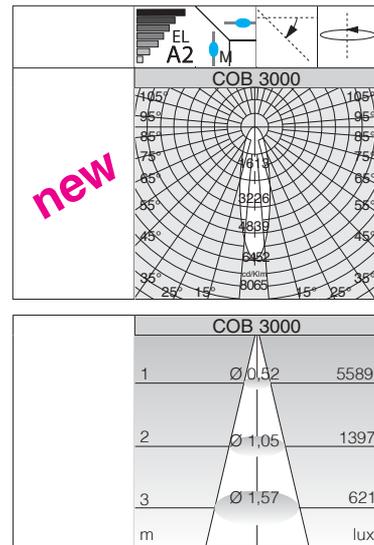
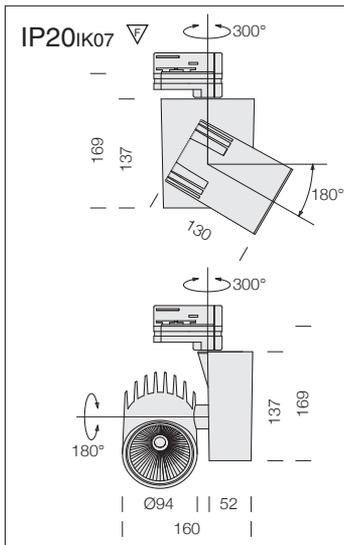
Housing: Die-cast aluminium.

Standard supply: Supplied with universal adapter in track mounted versions.

Regulations: Manufactured in accordance with EN 60598-1-CEI 34.21 standards. Degrees of protection in accordance with EN60529 standards.

Standard: with universal adapter.

LED: Luminous flux maintenance L70B50: 50.000h.

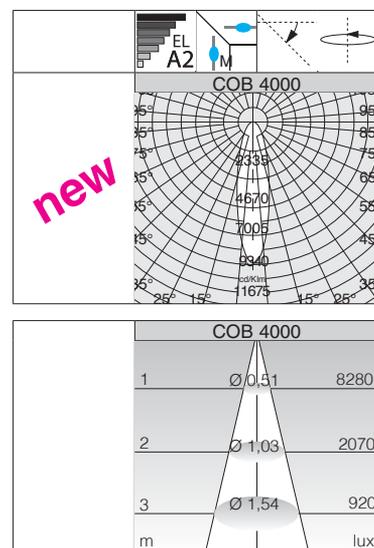
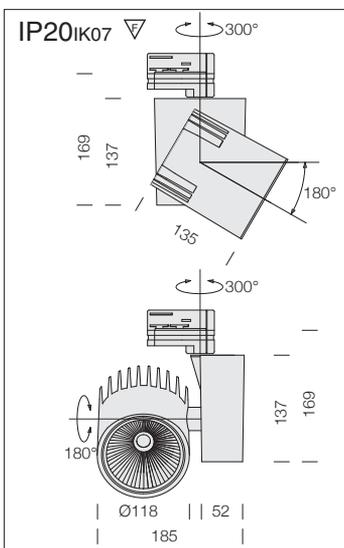


LED

RG0

Krypton 2					
		CLD CELL		LED (Ta=25°C)	
wattage/W	colour	weight	code	W	Kelvin - ølm - CRI
COB 3000	white	1,10	22104110-00	28	3000K - 3000lm - CRI 80
COB 3000	black	1,10	22104130-00	28	3000K - 3000lm - CRI 80
COB 3000	white	1,10	22104111-00	27	4000K - 3000lm - CRI 80
COB 3000	black	1,10	22104131-00	27	4000K - 3000lm - CRI 80

Universal accessories for universal adapters: they enable the installations of recessed or suspended spotlights.

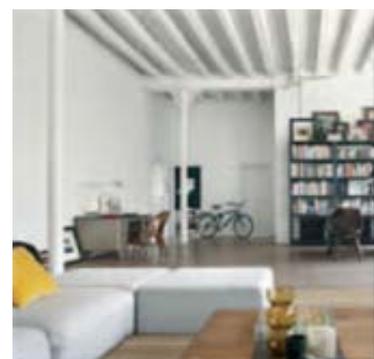


HOTEL
★★★

LED

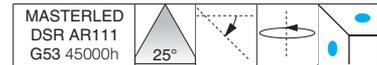
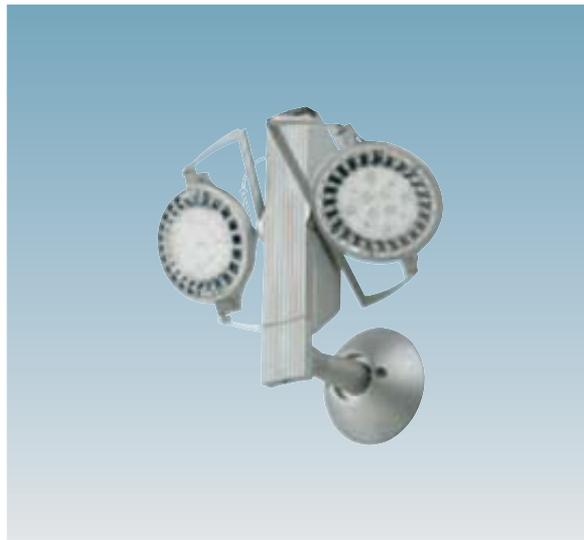
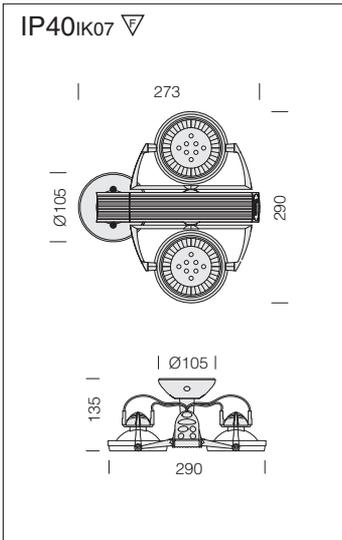
RG0

Krypton 3					
		CLD CELL		LED (Ta=25°C)	
wattage/W	colour	weight	code	W	Kelvin - ølm - CRI
COB 4000	white	1,80	22104210-00	41	3000K - 3900lm - CRI 80
COB 4000	black	1,80	22104230-00	41	3000K - 3900lm - CRI 80
COB 4000	white	1,80	22104211-00	40	4000K - 4000lm - CRI 80
COB 4000	black	1,80	22104231-00	40	4000K - 4000lm - CRI 80



INTERIORS





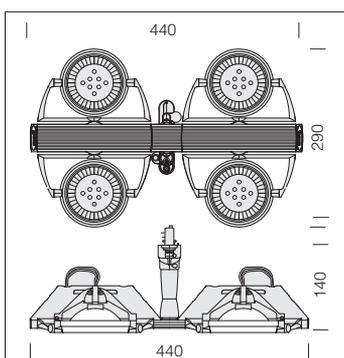
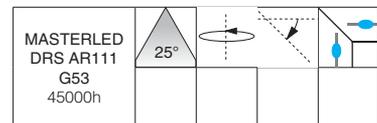
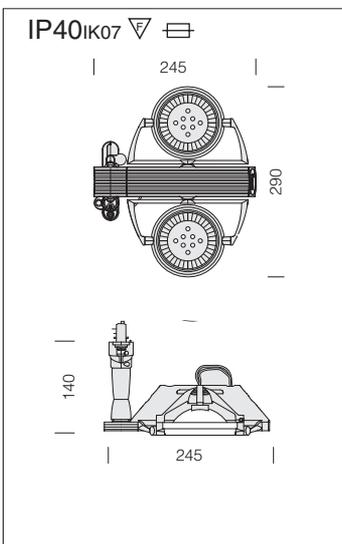
Housing: Die-cast zamak, with adjustable-angle bows and lamp-holders.

Coating: Fluid-coated with a UV-stabilised acrylic-resin paint, after a phosphochromate treatment.

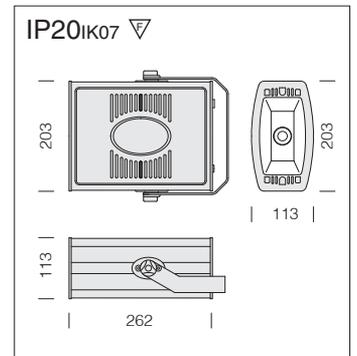
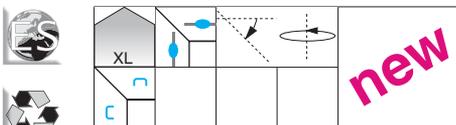
Regulations: Manufactured in accordance with EN60598-CEI 34-21 standards. Degree of protection in accordance with EN60529 standards.

LED: Luminous flux maintenance L70B50: 40.000h.

		Gi Otto - MASTERLED AR111				
		CLD CELL			LED (Ta=25°C)	
wattage/W (700mA)	colour	weight	code	W	K - cd - ølm(700mA) - CRI - degrees	
MASTERLED 2xAR111 10W	m. silver	1,50	22072077-00	21	3000K - 2x3370cd - 2x578lm - CRI82 - 25°	
MASTERLED 2xAR111 15W	m. silver	1,50	22078672-00	31	3000K - 2x4240cd - 2x745lm - CRI82 - 25°	



		Gi Otto - MASTERLED AR111				
		CLD CELL-F			LED (Ta=25°C)	
wattage/W	colour	weight	code	W	K - cd - ølm - CRI - degrees	
MASTERLED 2xAR111 10W	m. silver	1,50	22078576-00	21	3000K - 2x3370cd - 2x578lm - CRI82 - 25°	
MASTERLED 2xAR111 15W	m. silver	1,50	22078670-00	31	3000K - 2x4240cd - 2x745lm - CRI82 - 25°	
MASTERLED 4xAR111 10W	m. silver	2,60	22078570-00	42	3000K - 4x3370cd - 4x578lm - CRI82 - 25°	
MASTERLED 4xAR111 15W	m. silver	2,60	22078671-00	62	3000K - 4x4240cd - 4x745lm - CRI82 - 25°	



Housing: Die-cast aluminium with wide cooling fins.
Coating: Power-coated with a UV-resistant polyester epoxy paint.
LED: Luminous flux maintenance L70B50: 50.000h. Power factor >0.95



Trial-One - COB SYSTEM - ENERGY SAVING

		CLD CELL		LED (Ta=25°C)	
wattage/W (1A)	colour	weight	code	W	K - olm (1A) - CRI - beam angle
LED COB 53W	white	2,80	22347610-00	57	4000K - 6000lm - CRI 80 - XL
LED COB 53W	m. silver	2,80	22347670-00		
LED COB 42W	white	2,80	22347510-00	48	4000K - 5000lm - CRI 80 - XL
LED COB 42W	m. silver	2,80	22347570-00		
LED COB 37W	white	2,80	22347410-00	43	3000K - 4450lm - CRI 80 - XL
LED COB 37W	m. silver	2,80	22347470-00		
SLM Crisp	white	2,80	22347310-00	33	3000K - 3000lm - CRI>90 - XL
SLM Crisp	m. silver	2,80	22347370-00		

Version supplied with bracket only. Ceiling installation on track, together with acc. 22025305-00/10/31; wall installation on track together with acc. 22093315-00/71/34 or directly on the wall with base acc. 22091410-00/30/70.

Housing: Die-cast aluminium with wide cooling fins.

Coating: Power-coated with a UV-resistant polyester epoxy paint.

Version supplied with bracket and power cable only. To be used with power adapter plus mechanical connection acc. 22093371/93315/93334-00 for track mounting.



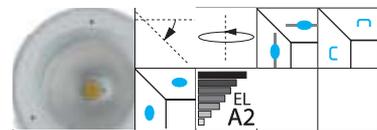
SLM Crisp (50,000 hrs L70/B50)
LED sources for shop lighting. SLM Crisp reproduces exactly the colours of the clothes on display, allowing whites to appear pure and bright and colours more vivid and intense.

3000K ideal for colors + **4000K** ideal for white

SLM Crisp: single LED light source with a unique combination of both colour temperatures.

IP20IK07 ▽

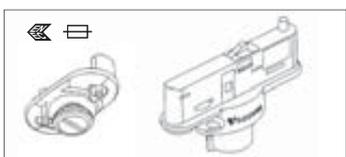
LED: Power factor >0.95



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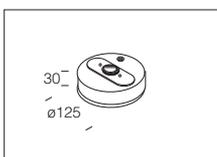
Universal adapter	
colour	code
white	22093415-00
grey	22093475-00

Gotham - COB SYSTEM - ENERGY SAVING					
		CLD CELL		W	LED (Ta=25°C)
wattage/W	colour	weight	code		K - ølm- CRI
LED COB	m. silver	2,90	22260573-00	43	3000K - 4450lm - CRI 80
LED COB	m. silver	2,90	22260574-00	57	3000K - 4200lm - CRI 90
SLM Crisp	m. silver	2,90	22260571-00	46	3000K - 3700lm - CRI 90



Mechanical + Power Adapter	
white	22093315-00
grey	22093371-00
black	22093334-00

To be used for track installation.



Base	
white	22091410-00
black	22091430-00
m. silver	22091470-00

Base for wall or ceiling installation.



POWER LED CONNECTIONS 350mA

POWER LED CONNECTIONS 700mA

**CODE 22090832-00
350mA - 4W**

Power supply LED 1x1,2W
(to be inserted in IP65 box)



**CODE 22090837-00
350mA - 15W**

Power supply LED 1x1,2W
(to be inserted in IP65 box)



Acquire separately a power supply dc 350mA cod 22090832-00 to be inserted in IP65 box to supply up to max 3 spotlights; or utilize power supply cod 22090837-00 to supply max 12 spotlights.

**CODE 22090835-00
700mA - 9W**

Power supply LED 1x2,6W
(to be inserted in IP65 box)



Acquire separately a power supply dc 700mA cod 22090835-00 to be inserted in IP65 box to supply up to max 3 spotlights.

22090832-00	22090837-12	22090837-00
220-240V 50/60Hz		
min. no. spotlights 1	min. no. spotlights 1	min. no. spotlights 1
max. no. spotlights 3	max. no. spotlights 12	max. no. spotlights 12
4W	15W	15W

22090835-00	22090834-00
220-240V 50/60Hz	DIMM 1-10V
min. no. spotlights 1	min. no. spotlights 1
max. no. spotlights 3	max. no. spotlights 6
9W	18W

RGB CONNECTIONS

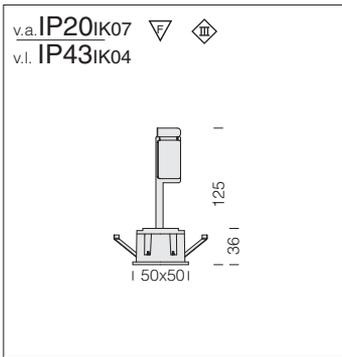
Use power supply code 22090870-00, to power up to 9 RGB spotlights.

To supply other 9 spotlights RGB in sync with MASTER, acquire SLAVE code 22090871-00.

In case of installation in a control board, the following are supplied separately:
 - KIT1, code 22090872-00, powers up to 5 spotlights in synchronised mode;
 - KIT2, code 22090873-00, powers up to 10 spotlights in synchronised mode.

For 22098070/71-00 and KIT1-2 Remote control code 22099020-00 is supplied separately.

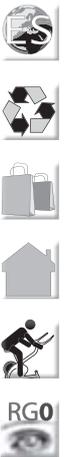
Possibility of DMX System code 22090876-00.



Housing: in die-cast zamak.
Upon request: Option to choose the beam aperture (10° - 40°).
LED: Luminous flux maintenance L70B50: 25.000h.

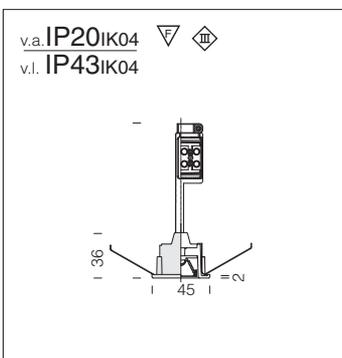


Equipment: Standard version supplied with band springs for suspended ceilings more than 5 mm thick; use flush-finish springs for suspended ceilings with a thickness from 1 to 5 mm.

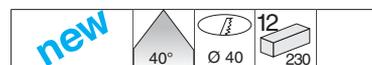


Q45 - Home				
		CLD S+L		LED (Ta=45°C)
wattage/W (350mA)	colour	weight	code	W
LED	white	0,20	22064510-00	1,2 K - ø1m350mA - CRI - degrees 3200K - 100lm - CRI90 - 24°
LED	m. silver	0,20	22064571-00	
LED	chrome	0,20	22064562-00	

Q45 - Professional				
		CLD S+L		LED (Ta=45°C)
wattage/W (700mA)	colour	weight	code	W
LED	white	0,20	22064511-00	2,6 K - ø1m 700mA - CRI - Gradi 3200K - 145lm - CRI90 - 24°
LED	m. silver	0,20	22064572-00	
LED	chrome	0,20	22064563-00	



Housing: in die-cast zamak.
Upon request: Option to choose the beam aperture (10° - 40°).
Equipment: Standard version supplied with band springs for suspended ceilings more than 5 mm thick; use flush-finish springs for suspended ceilings with a thickness from 1 to 5 mm.
LED: Luminous flux maintenance L70B50: 25.000h.

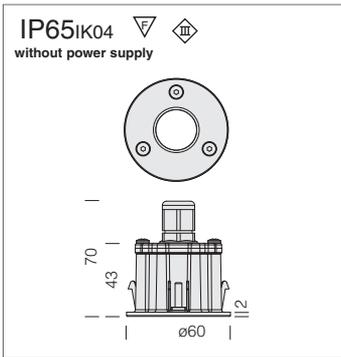


M45 - Home				
		CLD S+L		LED (Ta=25°C)
wattage/W (350mA)	colour	weight	code	W
LED	white	0,10	22062613-00	1,2 K - ø1m 350mA - CRI - degrees 3200K - 100lm - CRI90 - 24°
LED	m. silver	0,10	22062672-00	
LED	chrome	0,10	22062664-00	

M45 - Professional				
		CLD S+L		LED (Ta=25°C)
wattage/W (700mA)	colour	weight	code	W
LED	white	0,10	22062612-00	2,6 K - ø1m 700mA - CRI - degrees 3200K - 145lm - CRI90 - 24°
LED	m. silver	0,10	22062673-00	
LED	chrome	0,10	22062665-00	

M45 - FULLCOLOUR RGB - Professional				
		CLD S+L		LED (Ta=25°C)
wattage/W	colour	weight	code	ø1m - degrees
LED RGB 3,2W	white	0,20	22062616-00	R 30lm - G 40lm - B 9lm - 40°
LED RGB 3,2W	m. silver	0,20	22062675-00	
LED RGB 3,2W	chrome	0,20	22062667-00	





IP65IK04
without power supply

Housing: turned aluminium.
Possibility of choice of beam lens angle (10° - 40°).
Standard supply: brackets for installation on plasterboard 10mm thick.
IP66 on request: M60 with clear polycarbonate.
LED: Luminous flux maintenance L70B50: 25.000h.



new

M60 - Home					
		CLD S+L		LED (Ta=25°C)	
wattage W (350mA)	colour	weight	code	W	K - ølm 350mA - CRI - degrees
LED	white	0,20	22061511-00	1,2	3200K - 100lm - CRI90 - 24°
LED	s. silver	0,20	22061570-00		
LED	chrome	0,20	22061562-00		

M60 - Professional					
		CLD S+L		LED (Ta=25°C)	
wattage W (700mA)	colour	weight	code	W	K - ølm 700mA - CRI - degrees
LED	white	0,20	22061512-00	2,6	3200K - 145lm - CRI90 - 24°
LED	s. silver	0,20	22061571-00		
LED	chrome	0,20	22061563-00		

POWER LED CONNECTIONS 350mA

POWER LED CONNECTIONS 700mA

CODE 22090832-00
350mA - 4W
Power supply LED 1x1,2W
(to be inserted in IP65 box)

Acquire separately a power supply dc 350mA cod 22090832-00 to be inserted in IP65 box to supply up to max 3 spotlights; or utilize power supply cod 22090837-00 to supply max 12 spotlights.

CODE 22090835-00
700mA - 9W
Power supply LED 1x2,6W
(to be inserted in IP65 box)

Acquire separately a power supply dc 700mA cod 22090835-00 to be inserted in IP65 box to supply up to max 3 spotlights.



CODE 22090837-00
350mA - 15W
Power supply LED 1x1,2W
(to be inserted in IP65 box)

22090832-00	22090837-00
220-240V 50/60Hz	
min. no. spotlights 1	min. no. spotlights 1
max. no. spotlights 3	max. no. spotlights 12
4W	15W

22090835-00
220-240V 50/60Hz
min. no. spotlights 1
max. no. spotlights 3
9W

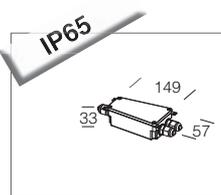
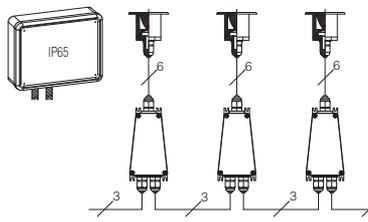
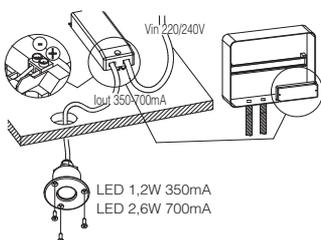


IP65 CONNECTIONS

To realize M60 connection with LED monochromatic 1,1W-350mA/3W-700mA it's necessary to insert LED power supply (CODE 22090832/90837/90835-00) in a IP65 box as indicated in the figure.

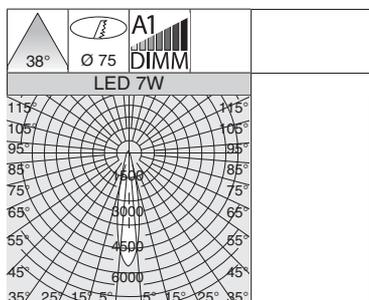
Using acc. 22092031-00 it's possible to perform an electric connection IP65 in parallel to M60 1x1,2W -350mA with monochromatic LED, inserting POWER LED supply inside the derivating box.

Using acc. 22092033-00 it's possible to perform an electric connection IP65 in parallel to M60 1x3W -700mA with monochromatic LED, inserting POWER LED supply inside the derivating box.

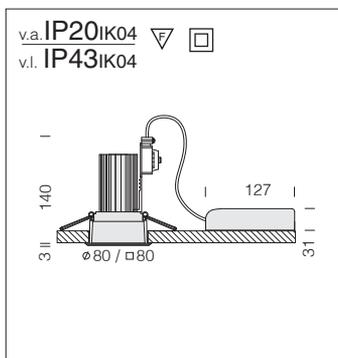


Gear box IP65 x M60	
LED 1W-350m	22092031-00
LED 3W-700mA	22092033-00
Complete with series with 3 cable gland IP65 for wire with section Max. 7mm and LED power supply. Allows electrical monochromatic M60.	

On request:
v.a. IP20
v.l. IP54



LED 7W:
Flexibility and light quality.
Different colour temperatures
Long service life (50,000 hours)
and excellent luminous flux maintenance



LED: Power factor >0.92
On request 2750K and 4000K.

Milano Small T - DIMM - COMFORT LED - Professional

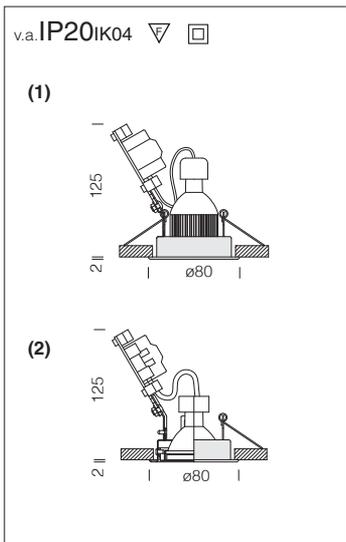
		CLD CELL-D		W	LED (Ta=25°C)
wattage/W	colour	weight	code		K - ølm - CRI - degrees
LED Sharp 7W	white	0,90	22083114-00	11	3000K - 700lm - CRI>80 - 38°
LED Sharp 7W	chrome	0,90	22083164-00		
LED Sharp 7W	matt	0,90	22083174-00		

Dimmable version phase cutting IGBT dimming.

Milano Small Q - DIMM - COMFORT LED - Professional

		CLD CELL-D		W	LED (Ta=25°C)
wattage/W	colour	weight	code		K - ølm - CRI - degrees
LED Sharp 7W	white	0,90	22083214-00	11	3000K - 700lm - CRI>80 - 38°
LED Sharp 7W	chrome	0,90	22083264-00		
LED Sharp 7W	matt	0,90	22083274-00		

Dimmable version phase cutting IGBT dimming.



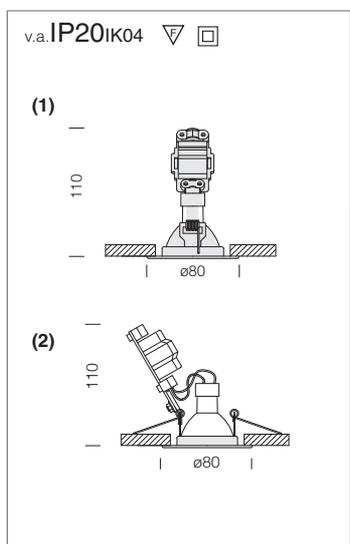
LED DRR GU10	30°	Ø 70	A1 DIMM
LED 7W			
25.000h	1	Ø 0,44	1800
	2	Ø 0,88	450
	3	Ø 1,33	200
	m		lux



Janus - DIMM						
		CLD CELL-D		W	LED (Ta=25°C) K - lm - degrees	
wattage/W	colour	weight	code	8	3000K - 470lm - 30°	
LED 7W	white	0,25	22063212-00			
LED 7W	m. silver	0,25	22063271-00			
LED 7W	black	0,25	22063233-00			
LED 7W	chrome	0,25	22063264-00			
LED 7W	brass	0,25	22063291-00			

Dimmable version phase cutting IGBT dimming.

Eco Janus (2)						
		CLD CELL		W	LED (Ta=25°C) K - lm - CRI - degrees	
wattage/W	colour	weight	code	6	3000K - 450lm - CRI 80 - 36°	
LED 6W	white	0,25	22068110-00			



LED DR GU10	M	Ø 60	A1 DIMM
LED Sharp 7W			
25.000h	1	Ø 0,44	1800
	2	Ø 0,88	450
	3	Ø 1,33	200
	m		lux

Main characteristics LED 7W

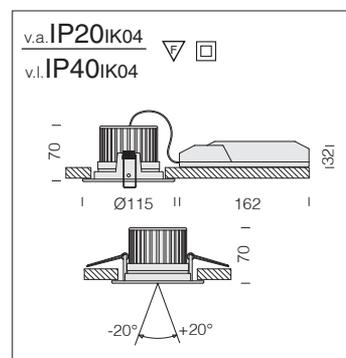
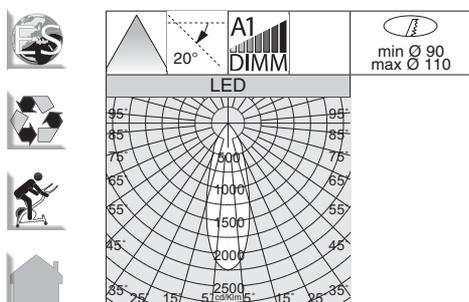
- High light output
- Lower lamp wattages means greater economy, more than 80% saving
- Compatible with the most common dimming devices (for example, with halogen lights)
- Fully assembled and ready to be installed

Deimos - DIMM - Home (1)						
		CLD CELL-D		W	LED (Ta=25°C) K - ølm - degrees	
wattage/W	colour	weight	code	8	3000K - 470lm - 30°	
LED 7W	white	0,20	22064010-00			
LED 7W	m. silver	0,20	22064077-00			
LED 7W	black	0,20	22064035-00			
LED 7W	chrome	0,20	22064063-00			
LED 7W	brass	0,20	22064092-00			

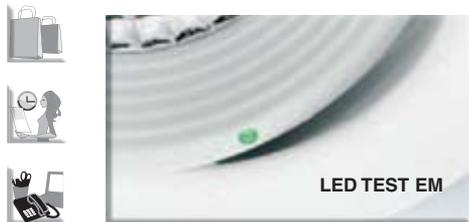
Dimmable version phase cutting IGBT dimming.

Eco Deimos (2)						
		CLD CELL		W	LED (Ta=25°C) K - ølm - CRI - degrees	
wattage/W	colour	weight	code	6	3000K - 450lm - CRI 80 - 36°	
LED 6W	white	0,25	22068310-00			



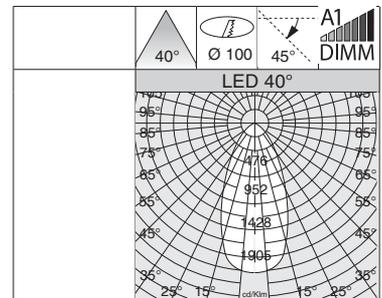
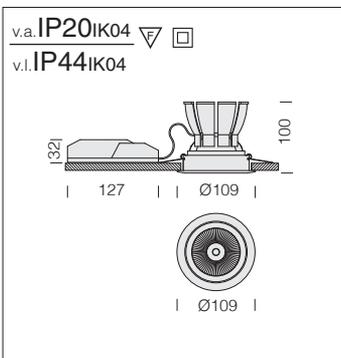


Housing: Adjustable angle, made of die-cast aluminium.
Reflector: high-efficiency prismatic and polished aluminium.
LED: Luminous flux maintenance L70B50: 50.000h. Power factor >0.9



Stella - DARK OFFICE 65°							
		CLD CELL-D		CLD CELL-E		LED (Ta=25°C)	
wattage/W (310mA)	colour	weight	code	weight	code	K - lm (310mA) - CRI	
LED	white	0,45	22067610-00	0,45	22067610-09	14	4000K - 1000lm - CRI≥80

Ideal for offices with VDUs.
1.5h-3h Emergency version ideal for hotels.



Housing: Adjustable angle, made of die-cast aluminium.
Reflector: high-efficiency prismatic and polished aluminium.
LED: Luminous flux maintenance L70B50: 50.000h.
 Power factor >0.9

Logan - COB SYSTEM - DIMM

		CLD CELL-D			LED (Ta=25°C)	
wattage/W (350mA)	colour	weight	code	W	K - ølm - CRI - degrees	
LED 12W	white	0,35	22067810-00	15	3000K - 1150 lm - CRI 80 - 40°	
LED 12W	white	0,35	22067811-00		4000K - 1170 lm - CRI 80 - 40°	

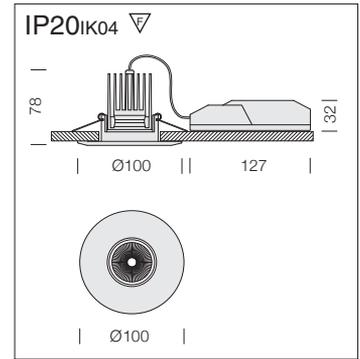
On request: DIMM DALI version.



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INTERIORS





Housing: made in aluminum adjustable with springs.

LED: Luminous flux maintenance L70B50: 40.000h. Power factor >0.9

Low Glare 9 - with ring - DIMM					
		CLD CELL-D		W	LED (Ta=25°C)
wattage/W	color	weight	code		K - ølm - CRI - degrees
LED 7W	white	0,40	22067110-00	9	3000K - 800lm - CRI83 - 38°
LED 7W	m. silver	0,40	22067170-00		
LED 7W	chrome	0,40	22067160-00		
LED 7W	bronze	0,40	22067180-00		



Frame with hole	
transparent	22090410-00

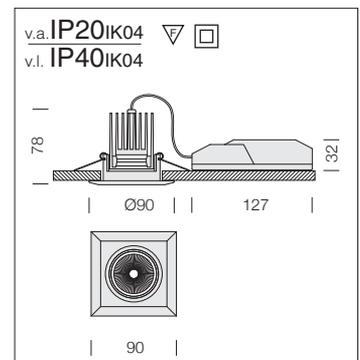
Protective ring frame with central hole to enable beam adjustment.



Closed frame	
transparent	22090420-00

Closed protective ring frame, giving Low Glare 9 a IP54 protection rating.

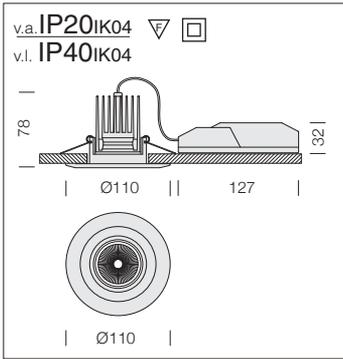


Housing: made in aluminum adjustable with springs.

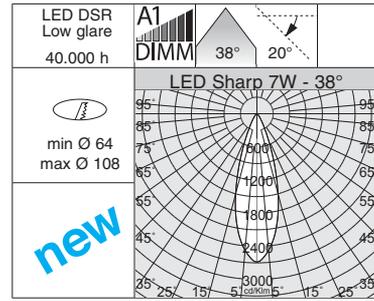
LED: Luminous flux maintenance L70B50: 40.000h. Power factor >0.9

Low Glare 3 - cuadrado - DIMM					
		CLD CELL-D		W	LED (Ta=25°C)
wattage/W	color	weight	code		K - ølm - CRI - degrees
LED 7W	white	0,40	22066811-00	9	3000K - 800lm - CRI83 - 38°
LED 7W	alu. sat. nat.	0,40	22066871-00		



Housing: made in aluminum adjustable with springs.

LED: Luminous flux maintenance L70B50: 40.000h. Power factor >0.9

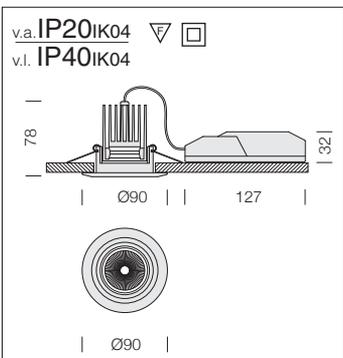


Low Glare 1: equipped with ring adapter to ensure better sealing



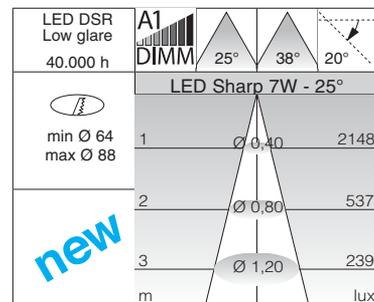
Low Glare 1 - DIMM							
wattage/W	color	CLD CELL-D		CLD CELL-D	W	LED (Ta=25°C)	
		weight	code	code		K - ølm - CRI - degrees	
LED 7W	alu. sat. nat.	0,30	22061475-00	22061475-09	9	2750K - 800lm - CRI83 - 38°	
LED 7W	white	0,30	22061415-00	22061415-09		3000K - 800lm - CRI83 - 38°	
LED 7W	alu. sat. nat.	0,30	22061470-00	22061470-09		4000K - 800lm - CRI83 - 38°	
LED 7W	white	0,30	22061410-00	22061410-09			
LED 7W	alu. sat. nat.	0,30	22061474-00	22061474-09			
LED 7W	white	0,30	22061414-00	22061414-09			

25°: with sub-code -0031
60°: with sub-code -0032



Housing: made in aluminum adjustable with springs.

LED: Luminous flux maintenance L70B50: 40.000h. Power factor >0.9

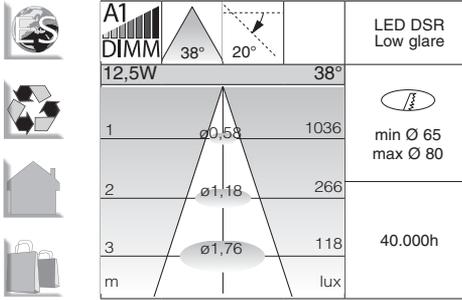


3h emergency version.



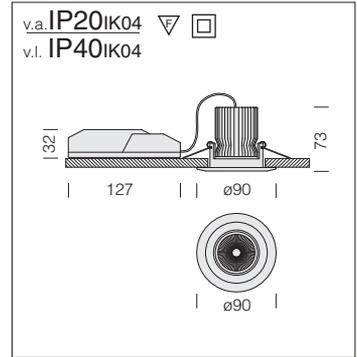
Low Glare 2 - DIMM							
wattage/W	color	CLD CELL-D		CLD CELL-D	W	LED (Ta=25°C)	
		weight	code	code		K - ølm - CRI - degrees	
LED 7W	alu. sat. nat.	0,30	22061472-00	22061472-09	9	2750K - 800lm - CRI83 - 25°	
LED 7W	white	0,30	22061412-00	22061412-09		3000K - 800lm - CRI83 - 25°	
LED 7W	alu. sat. nat.	0,30	22061477-00	22061477-09		3000K - 800lm - CRI83 - 38°	
LED 7W	white	0,30	22061417-00	22061417-09			
LED 7W	alu. sat. nat.	0,30	22066777-00	22066777-09			
LED 7W	white	0,30	22066717-00	22066717-09			
LED 7W	alu. sat. nat.	0,30	22061479-00	22061479-09			
LED 7W	white	0,30	22061419-00	22061419-09			

38°: with sub-code -0089
60°: with sub-code -0032



HOTEL
★★★★

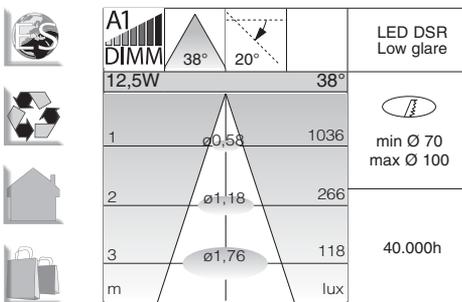
RG0



Housing: made in aluminum adjustable with springs.

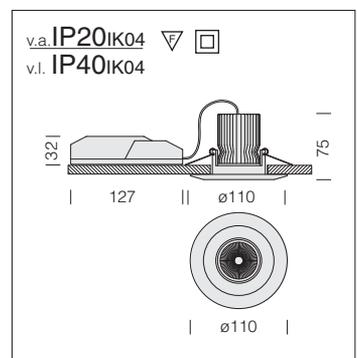
LED: Luminous flux maintenance L70B50: 40.000h.
Power factor >0.9

Low Glare 4 - DIMM					
		CLD CELL-D		LED (Ta=25°C)	
wattage/W	colour	weight	code	W	K - lm - CRI - degrees
LED 12,5W	white	0,30	22066710-00	15	3000K - 1000lm - CRI>80 - 38°
LED 12,5W	alu. sat. nat.	0,30	22066770-00	15	3000K - 1000lm - CRI>80 - 38°



HOTEL
★★★★

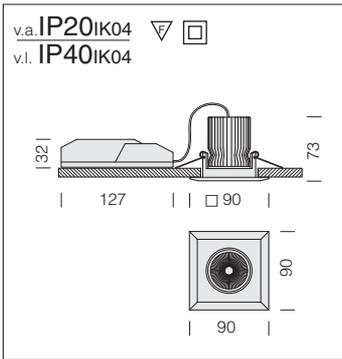
RG0



Housing: made in aluminum adjustable with springs.

LED: Luminous flux maintenance L70B50: 40.000h.
Power factor >0.9

Low Glare 5 - DIMM					
		CLD CELL-D		LED (Ta=25°C)	
wattage/W	colour	weight	code	W	K - lm - CRI - degrees
LED 12,5W	white	0,40	22066711-00	15	3000K - 1000lm - CRI>80 - 38°
LED 12,5W	alu. sat. nat.	0,40	22066771-00	15	3000K - 1000lm - CRI>80 - 38°



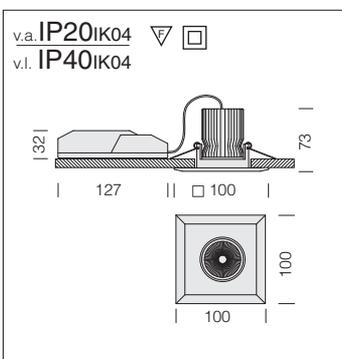
Housing: made in aluminum adjustable with springs.

LED: Luminous flux maintenance L70B50: 40.000h.
Power factor >0.9

LED DSR Low glare	A1	DIMM	38°	20°
	12,5W			38°
min Ø 65 max Ø 80	1	Ø0,58		1036
	2	Ø1,18		266
40.000h	3	Ø1,76		118
	m			lux



Low Glare 6 - square - DIMM					
		CLD CELL-D		LED (Ta=25°C)	
wattage/W	colour	weight	code	W	K - lm - CRI - degrees
LED 12,5W	white	0,30	22066810-00	15	3000K - 1000lm - CRI>80 - 38°
LED 12,5W	alu. sat. nat.	0,30	22066870-00		



Housing: made in aluminum adjustable with springs.

LED: Luminous flux maintenance L70B50: 40.000h.
Power factor >0.9

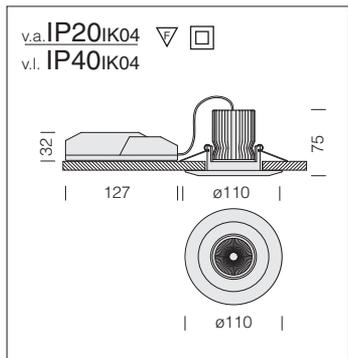
LED DSR Low glare	A1	DIMM	38°	20°
	12,5W			38°
min Ø 65 max Ø 90	1	Ø0,58		1036
	2	Ø1,18		266
40.000h	3	Ø1,76		118
	m			lux



Low Glare 7 - square - DIMM					
		CLD CELL-D		LED (Ta=25°C)	
wattage/W	colour	weight	code	W	K - lm - CRI - degrees
LED 12,5W	white	0,40	22066813-00	15	3000K - 1000lm - CRI>80 - 38°
LED 12,5W	alu. sat. nat.	0,40	22066873-00		

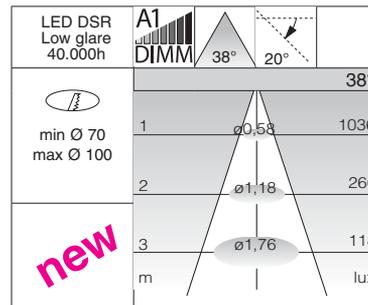




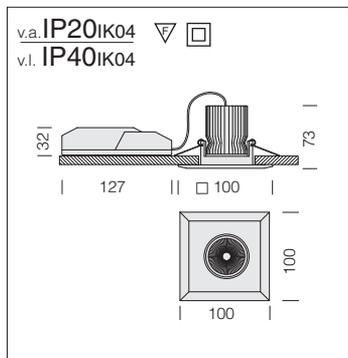


Best suited for the illumination of objects with highly reflective surfaces like crystals, diamonds, precious gems, etc.

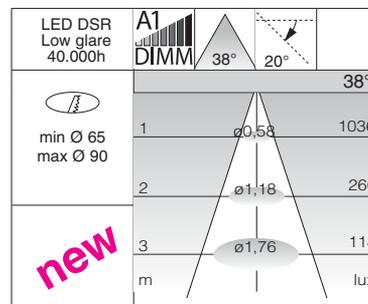
Housing: made in aluminum adjustable with springs.



Low Glare 10 - DIMM					
		CLD CELL-D		LED (Ta=25°C)	
wattage/W	colour	weight	code	W	K - lm - degrees
LED	white	0,40	22066719-00	11	10000K - 1000lm - 38°
LED	alu. sat. nat.	0,40	22066779-00		



Housing: made in aluminum adjustable with springs.



Low Glare 10 - square - DIMM					
		CLD CELL-D		LED (Ta=25°C)	
wattage/W	colour	weight	code	W	K - lm - degrees
LED	white	0,40	22066819-00	11	10000K - 1000lm - 38°
LED	alu. sat. nat.	0,40	22066879-00		

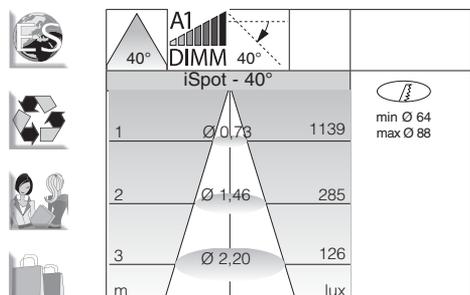




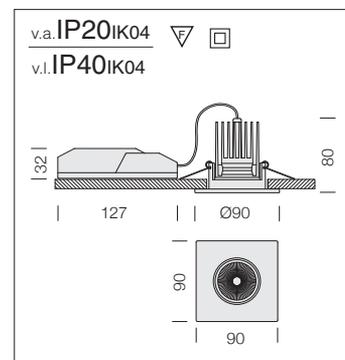
Housing: Adjustable angle, made of die-cast aluminium.

Reflector: high-efficiency metalised polycarbonate. Universally applicable, suitable to replace downlights with cut out diameters ranging from 70mm to 100mm

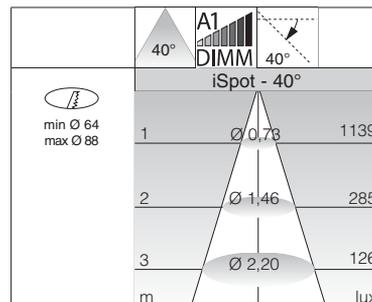
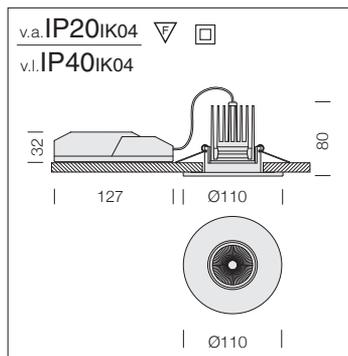
LED: Luminous flux maintenance L70B50: 50.000h. Power factor >0.9



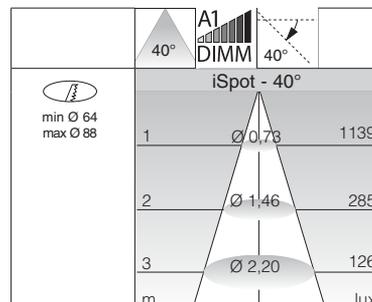
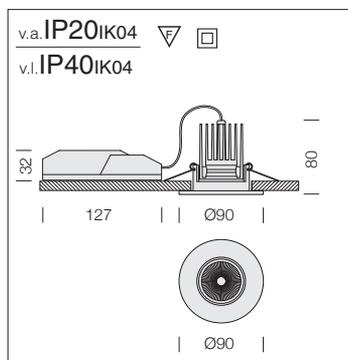
- HOTEL
- ★★★
- RG0



iSpot 3 - square - DIMM					
		CLD CELL-D		LED (Ta=25°C)	
wattage/W	colour	weight	code	W	K - ølm - CRI - degrees
LED 10W	chrome	0,20	22067460-00	12	3000K - 800 lm - CRI 80 - 40°



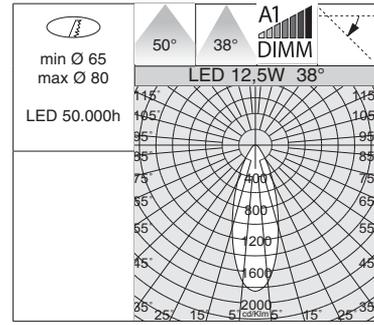
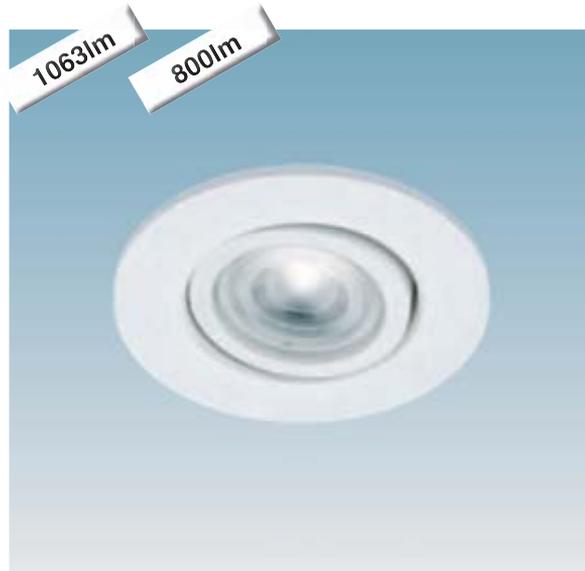
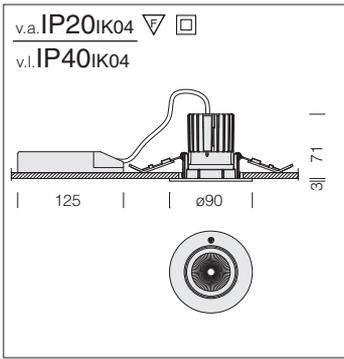
iSpot 1 - DIMM					
		CLD CELL-D		W	LED (Ta=25°C)
wattage/W	colour	weight	code		K - ølm - CRI - degrees
LED 10W	white	0,20	22067310-00	12	3000K - 800 lm - CRI 80 - 40°
LED 10W	s. silver	0,20	22067370-00		



iSpot 2 - DIMM					
		CLD CELL-D		W	LED (Ta=25°C)
wattage/W	colour	weight	code		K - ølm - CRI - degrees
LED 10W	white	0,20	22067210-00	12	3000K - 800 lm - CRI 80 - 40°
LED 10W	s. silver	0,20	22067270-00		
LED 10W	chrome	0,20	22067260-00		







On request	
W	ølm
9W	832 lm

On request	
W	ølm
17 W	1270 lm

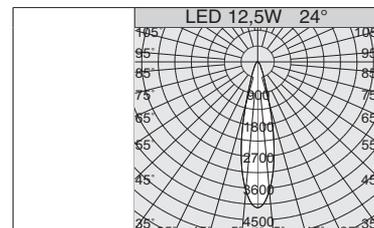
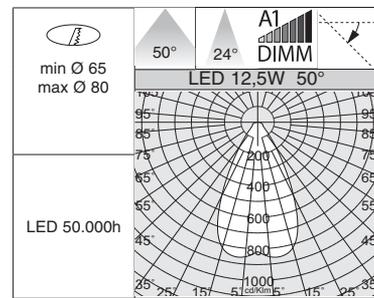
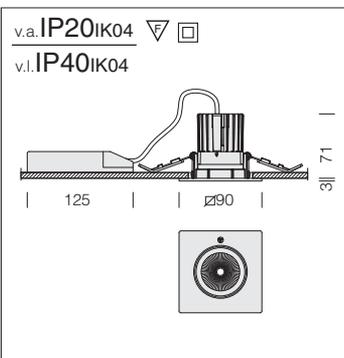
Housing: in die-cast aluminium.
Heat sink: passive, pressed in die-cast aluminium with lateral outputs allowing for greater circulation of heat to ensure an extended life of the LED module.
Lens: injection moulded PMMA with high efficiency output and very low glare rate

LED: Luminous flux maintenance L70B50: 50.000h.
 Power factor >0.9

Sun T - DIMM							
		CLD CELL-D (IGBT)		CLD CELL-D (1-10V PUSH)		LED (Ta=25°C)	
wattage/W	color	weight	code	weight	code	W	K - ølm (700mA) - CRI - degrees
LED 12,5W	white	0,30	22066311-00	0,30	22066311-12	15	3000K - 1063lm - CRI 80 - 38°
LED 12,5W	white	0,30	22066312-00	0,30	22066312-12		3000K - 1063lm - CRI 80 - 50°
LED 12,5W	silver	0,30	22066361-00	0,30	22066361-12		3000K - 1063lm - CRI 80 - 38°
LED 12,5W	silver	0,30	22066362-00	0,30	22066362-12		3000K - 1063lm - CRI 80 - 50°

On request: beam angle 24°.

		CLD CELL-D (IGBT)		CLD CELL-D (1-10V PUSH)		LED (Ta=25°C)	
wattage/W	color	weight	code	weight	code	W	K - ølm (350mA) - CRI - degrees
LED 11W	white	0,30	22066314-00	0,30	22066314-12	12	3000K - 800lm - CRI 80 - 38°
LED 11W	white	0,30	22066315-00	0,30	22066315-12		3000K - 800lm - CRI 80 - 50°



LED: Luminous flux maintenance L70B50: 50.000h.
 Power factor >0.9

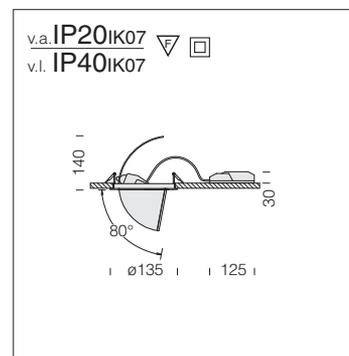
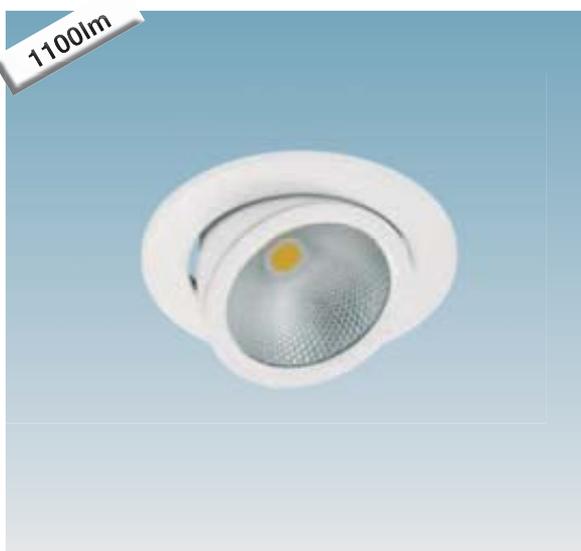
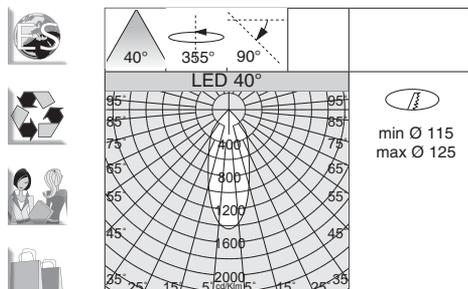
On request	
W	ølm
9W	832 lm

On request	
W	ølm
17 W	1270 lm

Sun Q - DIMM							
		CLD CELL-D (IGBT)		CLD CELL-D (IGBT)		LED (Ta=25°C)	
wattage/W	color	weight	code	weight	code	W	K - ølm (700mA) - CRI - degrees
LED 12,5W	white	0,30	22066610-00	0,30	22066610-12	12	3000K - 1063lm - CRI 80 - 24°
LED 12,5W	white	0,30	22066612-00	0,30	22066612-12		3000K - 1063lm - CRI 80 - 50°
LED 12,5W	silver	0,30	22066660-00	0,30	22066660-12		3000K - 1063lm - CRI 80 - 24°
LED 12,5W	silver	0,30	22066662-00	0,30	22066662-12		3000K - 1063lm - CRI 80 - 50°

On request: beam angle 38°.

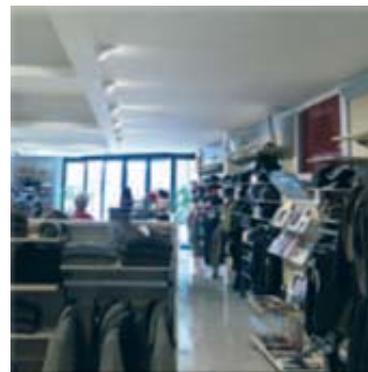
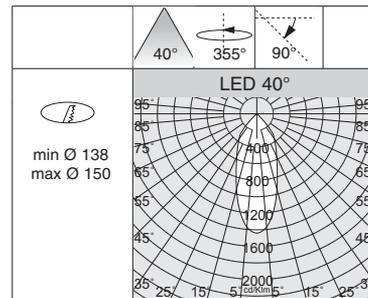
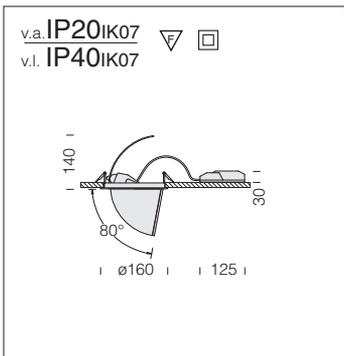




Housing: Adjustable angle, made of die-cast aluminium.
Reflector: high-efficiency prismatic and polished aluminium.
LED: Luminous flux maintenance L70B50: 50.000h.
 Power factor >0.95

Luthor Small - Professional

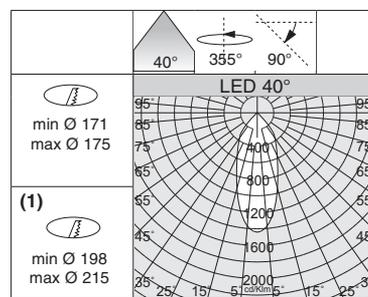
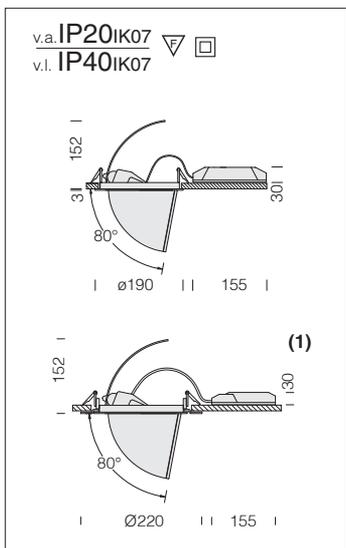
		CLD CELL		LED (Ta=25°C)	
wattage/W	colour	weight	code	W	K - ølm - CRI
LED 12W	white	1.00	22087818-00	15	3000K - 1100lm - CRI>80 - 40°
LED 12W	m. silver	1.00	22087878-00		



Housing: Adjustable angle, made of die-cast aluminium.
Reflector: high-efficiency prismatic and polished aluminium.
LED: Luminous flux maintenance L70B50: 50.000h.
 Power factor >0.95

Luthor Medium - Professional

		CLD CELL		W	LED (Ta=25°C)
wattage/W	colour	weight	code		K - ølm - CRI - degrees
LED COB 18W	white	1.00	22087816-00	20	3000K - 2000lm - CRI>80 - 40°
LED COB 18W	m. silver	1.00	22087876-00		



Luthor Big - COB SYSTEM - Professional

		CLD CELL		CLD CELL - with wide ring (1)	W	LED (Ta=25°C)
wattage/W	colour	weight	code	code		K - ølm - CRI - degrees
LED COB 26W	white	1.40	22087815-00	22087815-0049	30	3000K - 3000lm - CRI>80 - 40°
LED COB 26W	m. silver	1.40	22087875-00	22087875-0049		
LED COB 26W	white	1.40	22087814-00	22087814-0049		
LED COB 26W	m. silver	1.40	22087874-00	22087874-0049		
LED COB 26W	white	1.40	22087817-00	22087817-0049		
LED COB 26W	m. silver	1.40	22087877-00	22087877-0049		
LED COB 45W	white	1.40	22088810-00	22088810-0049	51	3000K - 4500lm - CRI>80 - 40°
LED COB 45W	m. silver	1.40	22088870-00	22088870-0049		
LED COB 43W	white	1.40	22088811-00	22088811-0049	48	4000K - 4500lm - CRI>80 - 40°
LED COB 43W	m. silver	1.40	22088871-00	22088871-0049		



A1
18°
DIMM
KF1

LED
50.000h

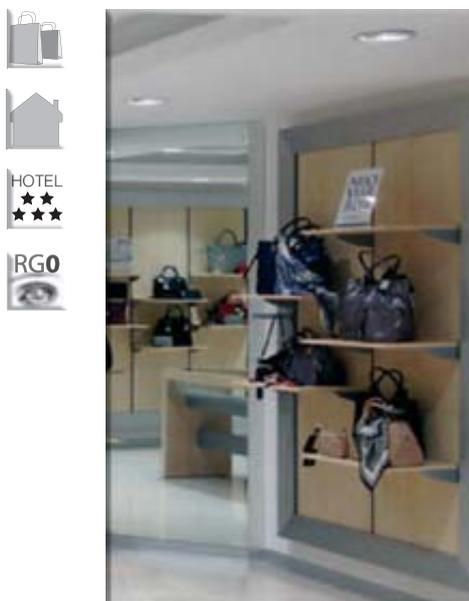
min Ø 100
max Ø 110



v.a. IP20IK04

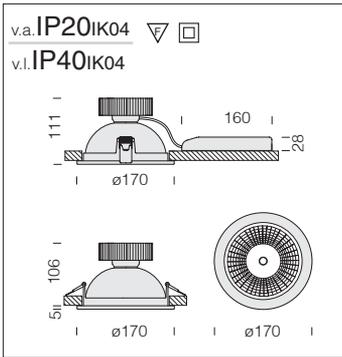
v.l. IP40IK04

Housing: aluminum.
Reflector: dark light optics in high gloss, anti-glare aluminium.
LED: Luminous flux maintenance L70B50: 50.000h. Power factor >0.93



KF 1 - Comfort LED - DIMM					
		CLD CELL-D		LED (Ta=25°C)	
wattage	colour	weight	code	W	K - ølm - CRI - degrees
LED 11W	white	0,20	22174611-08	13	4000K - 1200lm - CRI>80 - 36°

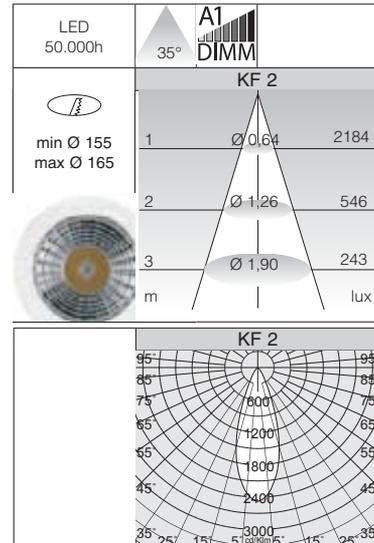
Also available emergency version with subcode -09.
 Well-suited to cover pre-existing holes without the need of further interventions in plasterboard false-ceiling



Housing: aluminum.

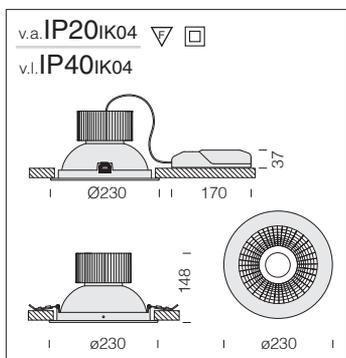
Reflector: dark light optics in high gloss, anti-glare aluminium.

LED: Luminous flux maintenance L70B50: 50.000h.
Power factor >0.93



KF 2 - Comfort LED - DIMM					
		CLD CELL-D		LED (Ta=25°C)	
wattage	colour	weight	code	W	K - Ølm - CRI - degrees
LED 18W	white	0,30	22174613-08	23	4000K - 1800lm - CRI>80 - 35°

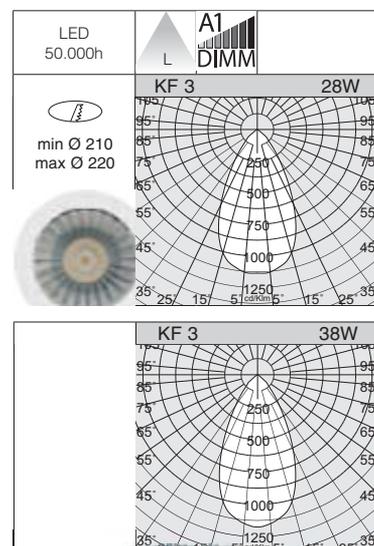
Also available emergency version with subcode -09.
Well-suited to cover pre-existing holes without the need of further interventions in plasterboard false-ceiling



Housing: aluminum.

Reflector: dark light optics in high gloss, anti-glare aluminium.

LED: Luminous flux maintenance L70B50: 50.000h.
Power factor >0.97



KF 3 - Comfort LED - DIMM					
		CLD CELL-D		LED (Ta=25°C)	
wattage/W	colour	weight	code	W	K - Ølm - CRI - degrees
LED 24W	white	0,40	22174615-08	28	4000K - 2400lm - CRI>80 - 54°
LED 34W	white	0,50	22174617-08	38	4000K - 3000lm - CRI>80 - 54°

Also available emergency version with subcode -09.
Well-suited to cover pre-existing holes without the need of further interventions in plasterboard false-ceiling



On request:
higher energy savings are possible by integrating a presence detector





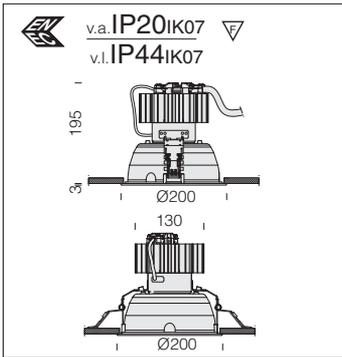
MARAZZI

Triennale

(pietra di brasa)

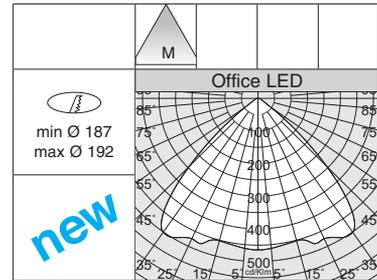
70

60

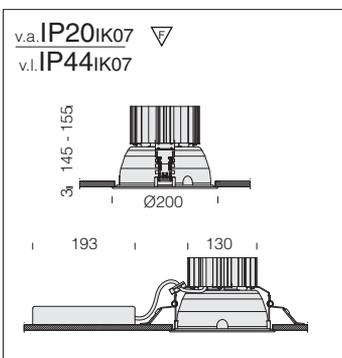


Housing/reflector: in V2 shatterproof, self-extinguishing polycarbonate, coated with high-performance aluminium powder and equipped with anti-reflection and anti-glare optics. Support bracket in galvanised steel. Shielding at 65°. Supplied with internal silk-screen printed diffuser.

LED: Luminous flux maintenance L70B50: 50.000h. Power factor >0.95

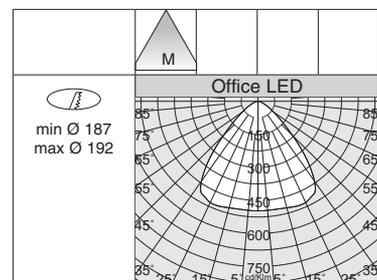


Office 1 - DLM - IP44					
		CLD CELL		W	LED (Ta=25°C)
wattage/W	colour	weight	code		K - ølm - CRI
DLM 2000	aluminum	1.10	22152318-00	21	3000K - 2000lm - CRI 80
DLM 2000	aluminum	1.10	22152319-00	19	4000K - 2000lm - CRI 80



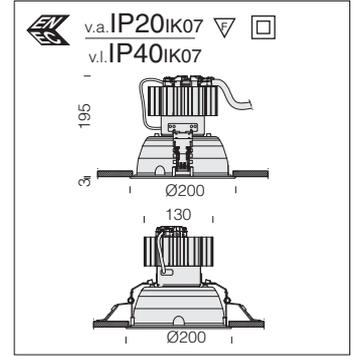
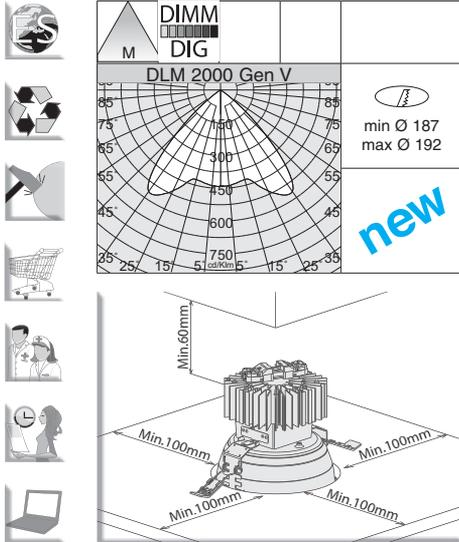
Supplied with silk-screen printed diffuser.

LED: Luminous flux maintenance L70B50: 50.000h. Power factor >0.95



Office 1 - SLM GEN III					
		CLD CELL		W	LED (Ta=25°C)
wattage/W	colour	weight	code		K - ølm - CRI
LED	aluminum	1.10	22152418-00	25	3000K - 2500lm - CRI 80
LED	aluminum	1.10	22152419-00		4000K - 2500lm - CRI 90

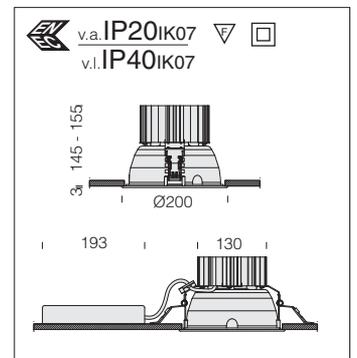
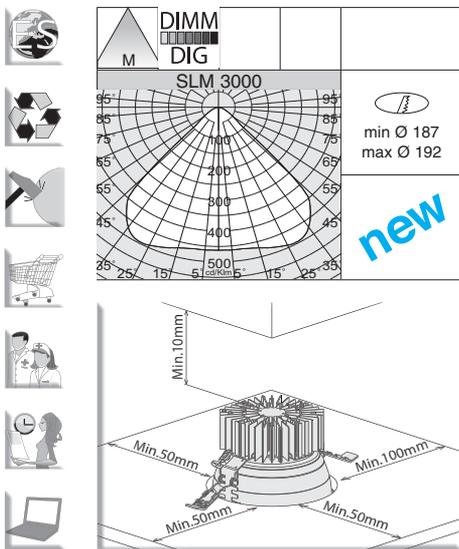




LED: Luminous flux maintenance L70B50: 50.000h.
Power factor >0.95
RG0 (1m)

Office 1 - DARK - DLM - GEN V

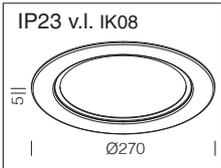
wattage/W	colour	CLD CELL	CLD CELL-E	CLD CELLD-DIG (Dali)	CLD CELLD-DIG-E (Dali)	W	LED (Ta=25°C)
		code	code	code	code		K - ølm - CRI
DLM 2000	alum.	22152371-00	22152371-09	22152371-1241	22152371-9441	21	3000K - 2000lm - CRI 80
DLM 2000	alum.	22152375-00	22152375-09	22152375-1241	22152375-9441	19	4000K - 2000lm - CRI 80
DLM 3000	alum.	22152372-00	22152372-09	22152372-1241	22152372-9441	32	3000K - 3000lm - CRI 80
DLM 3000	alum.	22152374-00	22152374-09	22152374-1241	22152374-9441	29	4000K - 3000lm - CRI 80



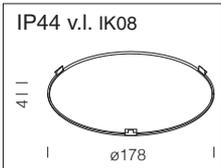
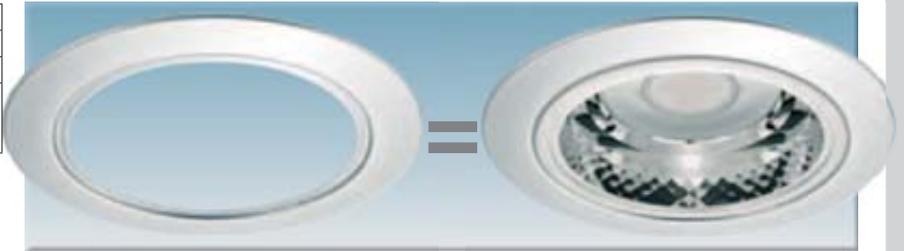
LED: Luminous flux maintenance L70B50: 50.000h.
Power factor >0.95
RG0 (1,2m)

Office 1 - MATT

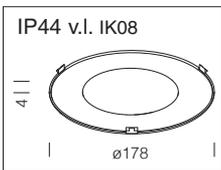
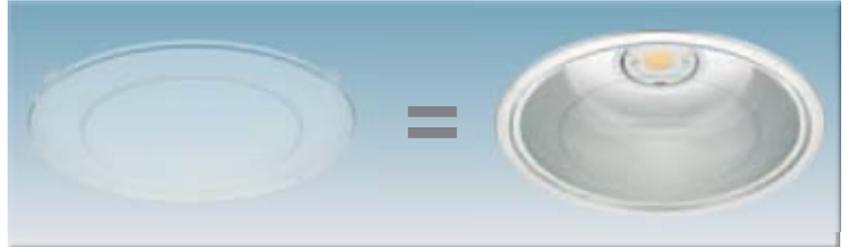
wattage/W	colour	CLD CELL		CLD CELLD-DIG (Dali)		W	LED (Ta=25°C)
		weight	code	code	code		K - ølm - CRI
COB 2500	matt	1,10	22152415-00	22152415-1241	22	3000K - 2500lm - CRI 80	
COB 2500	matt	1,10	22152414-00	22152414-1241	22	4000K - 2500lm - CRI 80	
COB 3000	matt	1,10	22152413-00	22152413-1241	28	3000K - 3000lm - CRI 80	
COB 3000	matt	1,10	22152410-00	22152410-1241	27	4000K - 3000lm - CRI 80	
SLM 4500 GEN IV	matt	1,10	22152416-00		44	3000K - 4500lm - CRI 80	
SLM 4500 GEN IV	matt	1,10	22152417-00		43	4000K - 4500lm - CRI 80	
COB 5000 LG	matt	1,10	22152411-00		51	3000K - 5450lm - CRI 80	
COB Sharp XFC	matt	1,10	22152412-00		51	4000K - 4500lm - CRI 92	



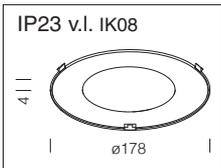
External frame	
white	22092216-00
silver	22092276-00
External ring for pre-existing holes with a diameter ranging between min 210 and max 260 mm.	



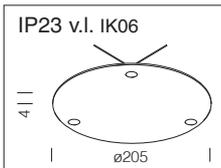
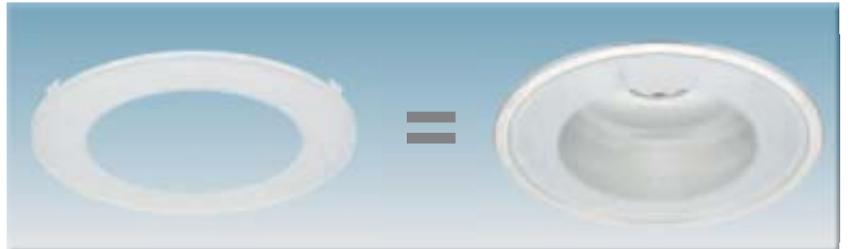
Clear diffuser	
22092210-00	
In polycarbonate.	



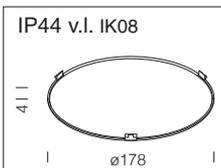
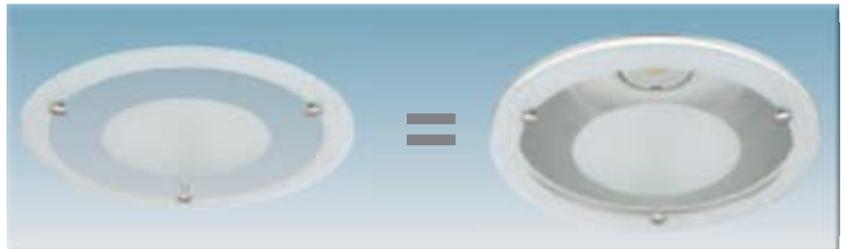
Internal silk-screen printed diffuser	
22092213-00	
In polycarbonate, silk-screen printed in the middle, anti-glare.	



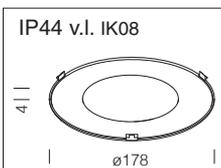
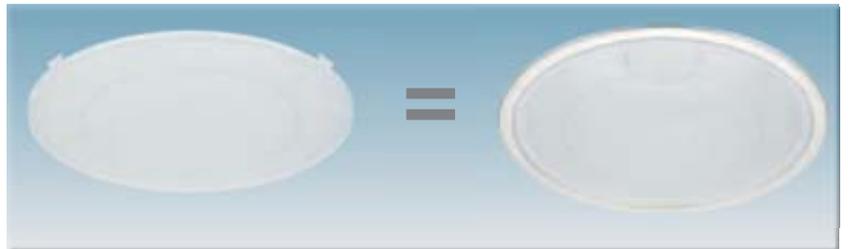
Silk-screen printed diffuser with central hole	
22092214-00	
In polycarbonate, silk-screen printed along the edges, central hole for decorative effect and to allow air circulation.	



Silk-screen printed glass	
22092215-00	



Silk-screen printed diffuser	
22092211-00	
In anti-glare silk-screen printed polycarbonate.	



External silk-screen printed diffuser	
22092212-00	
In polycarbonate, silk-screen printed along the edges for side light control.	





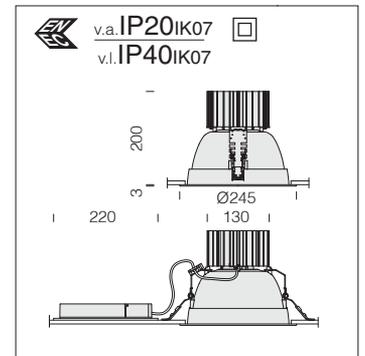
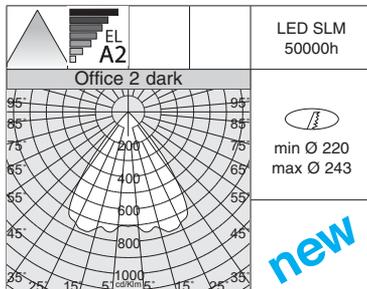
Housing: Vandal-resistant, V2 self-extinguishing, UV-stabilized, anti-yellowing polycarbonate.

Reflector: V2 self-extinguishing polycarbonate; matt aluminium powder coated through a C.V.D. hard-vacuum process for greater light control and efficiency.

LED: Power factor >0.95. Luminous flux maintenance 70%: 50.000 h (L70B50). RG0 (1,2m).



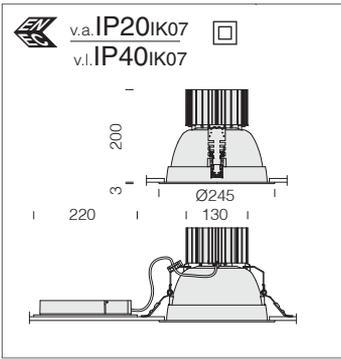
Presence and light detector: on request ceiling presence and light detector.



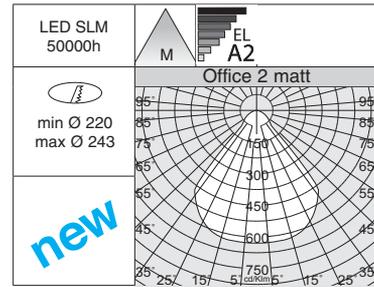
Dark light reflector: V2 self-extinguishing polycarbonate; metalized aluminium powder coated through a C.V.D. hard-vacuum process for greater light control and efficiency.

Office 2 - DARK

		Office 2 - DARK				
wattage/W	colour	CLD CELL		CLD CELLD-DIG (Dali)	W	LED (Ta=25°C)
		weight	code	code		K - ølm - CRI
SLM 3000 Gen IV	aluminium	1,20	22152510-00	22152510-1241	27	3000K - 3000lm - CRI 80
SLM 3000 Gen IV	aluminium	1,20	22152572-00	22152572-1241	26	4000K - 3000lm - CRI 80
SLM 4500 Gen IV	aluminium	1,20	22152511-00	22152511-1241	44	3000K - 4500lm - CRI 80
SLM 4500 Gen IV	aluminium	1,20	22152573-00	22152573-1241	43	4000K - 4500lm - CRI 80
COB 3000	aluminium	1,20	22152570-00		25	4000K - 3000lm - CRI 80
COB 4700	aluminium	1,20	22152571-00		46	4000K - 4700lm - CRI 80
COB 5000 LG	aluminium	1,20	22152574-00	22152574-1241	51	4000K - 5450lm - CRI 80
COB 6000 LG	aluminium	1,20	22152575-00	22152575-1241	52	4000K - 6000lm - CRI 80



Reflector: V2 self-extinguishing polycarbonate; matt aluminium powder coated through a C.V.D. hard-vacuum process for greater light control and efficiency.

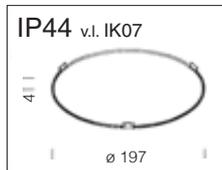


Supplied with sun shielding and anti-glare cover (not mounted).

Office 2 - MATT							
		CLD CELL		CLD CELLD-DIG (Dali)		LED (Ta=25°C)	
wattage/W	colour	weight	code	code	W	K - ølm - CRI	
SLM 3000 Gen IV	matt	1,20	22152512-00	22152512-1241	27	3000K - 3000lm	- CRI 80
SLM 4500 Gen IV	matt	1,20	22152513-00	22152513-1241	44	3000K - 4500lm	- CRI 80
COB Sharp XFC	matt	1,10	22152515-00		51	4000K - 4500lm	- CRI 92
COB 3000 LG	matt	1,20	22152517-00		25	3000K - 3000lm	- CRI 80
COB 4700	matt	1,20	22152519-00		46	3000K - 4700lm	- CRI 80



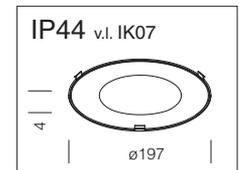
Office 2 diffuser	
polycarb. transparent	22091860-00



When used Office 2 becomes IP44.



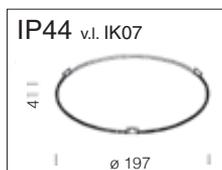
Internal silk-screen printed diffuser	
polycarb. - silk. internal	22091863-00



Internal: silk-screen printed in the middle, anti-glare.



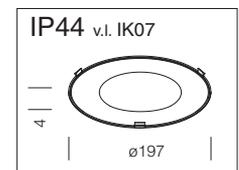
Office 2 diffuser	
polycarb. opal	22091861-00



When used Office 2 becomes IP44.



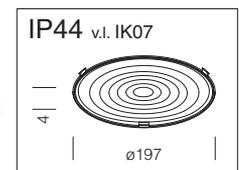
External silk-screen printed diffuser	
polycarb. - silk. external	22091864-00



External: silk-screen printed along the edges for side light control.



Silk-screen diffuser	
polycarbonate	22091862-00



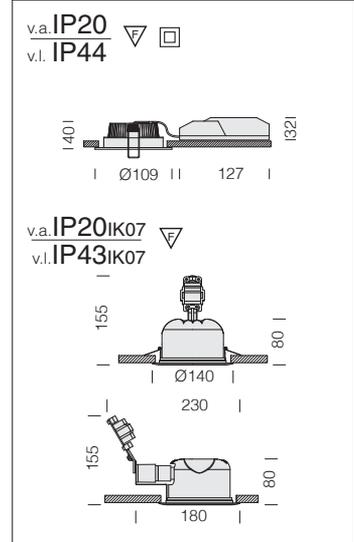
Polycarbonate diffuser with concentric circles.



			L70B50 35.000h
	min Ø 95 max Ø 105	min Ø 118 max Ø 138	



IP44

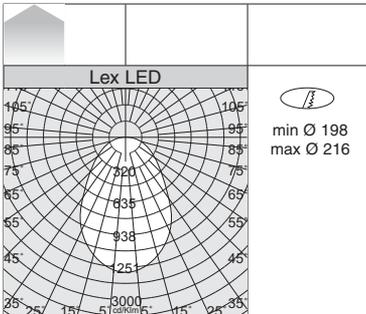


		CLD CELL		W	LED (Ta=25°C)
wattage/W	colour	weight	code	W	K - ølm - CRI
LED	white	0,30	22173210-00	12	4000K - 900lm - CRI 80

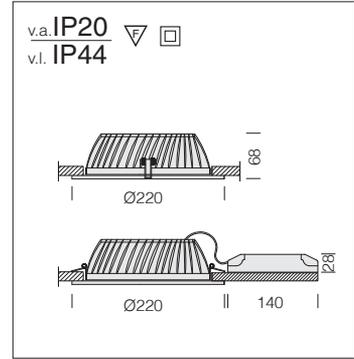
LED Bulb 10W: (15000h)
Very well-suited for the general lighting of public and reception spaces, especially lobbies, corridors or stairways, where lights stay on all day.



		CLD CELL		W	LED (Ta=25°C)
wattage/W	colour	weight	code	W	K - ølm - CRI
LED Bulb	white	0,60	22172011-00	10	3000K - 806lm - CRI 80
LED Bulb	m. silver	0,60	22172071-00		



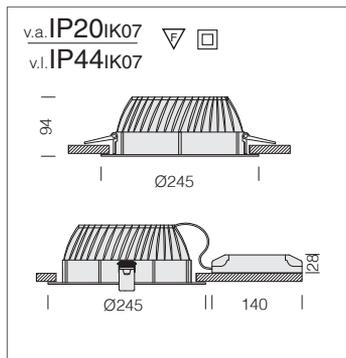
IP44



Housing: in die-cast aluminium.
LED: Luminous flux maintenance L70B50: 50.000h.
Power factor >0.9

		CLD CELL		W	LED (Ta=25°C)
wattage/W	colour	weight	code	W	K - ølm - CRI
LED	white	0,75	22173415-00	20	4000K - 2024lm - CRI 80
LED	white	0,75	22173416-00	20	3000K - 2024lm - CRI 80

The shield consists of a laser-cut slab that serves as a lens for its effect of concentrating circles. These decorations create a pattern with variable distances; the closer they get to the centre, the closer they come together, thereby achieving excellent visual comfort without glare.
Dimmable version phase cutting IGBT dimming.



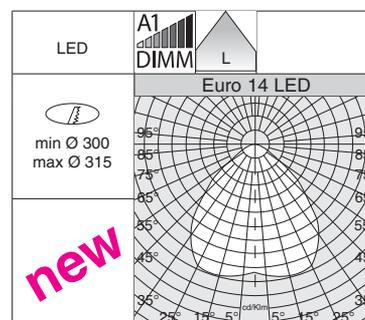
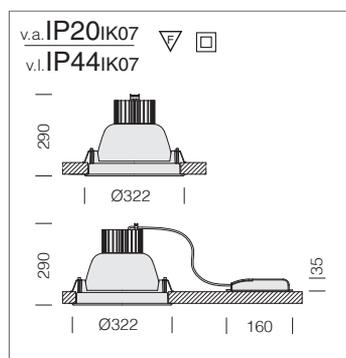
 min Ø 215 max Ø 235	A1 DIMM	M		



Housing: in die-cast aluminium.
Diffuser: panel in PMMA, with laser silk-screening suitably dimensioned based on the power level of the LED. With shielded.
LED: Luminous flux maintenance L70B50: 50.000h. Power factor >0.9

Lex LED - shield - DIMM					
		CLD CELL-D		LED (Ta=25°C)	
wattage/W	colour	weight	code	W	K - ølm (700mA) - CRI
LED	white	1,00	22173413-00	20	4000K - 2024lm - CRI 80

Dimmable version phase cutting IGBT dimming.



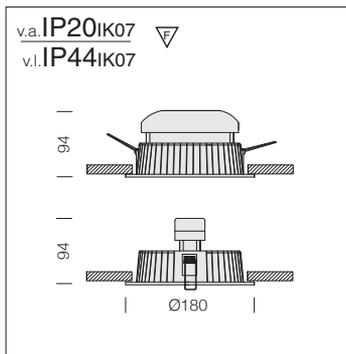
Housing: in die cast aluminium.
Diffuser: panel in PMMA, 6 mm thick, with laser silk-screening suitably dimensioned based on the power level of the LED.
LED: Luminous flux maintenance L70B50: 50.000h. Power factor >0.92

Euro LED 14					
		CLD CELL		LED (Ta=25°C)	
wattage/W (1750mA)	colour	weight	code	W	K - ølm (1750mA) - CRI
LED COB 65W	white	1.00	22089710-00	72	4000K - 8000lm - CRI > 80



Presence and light detector: on request ceiling presence and light detector.



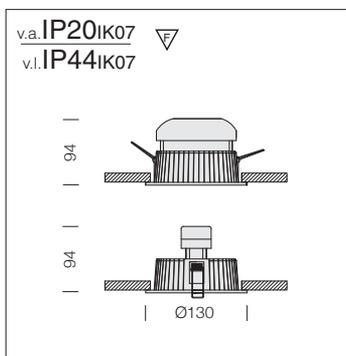


Housing: in die cast aluminium.
Diffuser: panel in PMMA, 6 mm thick, with laser silk-screening suitably dimensioned based on the power level of the LED.
LED: Luminous flux maintenance L70B50: 50.000h. Power factor >0.9



Energy 2180 - DIMM						
		CLD CELL-D		W	LED (Ta=25°C)	
wattage/W	colour	weight	code		K - ølm - CRI	
LED	white	1.00	22172513-00	18	3000K - 1215lm - CRI > 80	
LED	white	1.00	22172510-00		4000K - 1350lm - CRI > 80	

Version dimmable gradable par coupure de phase IGBT.



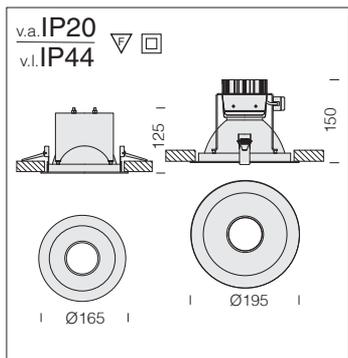
Housing: in die cast aluminium.
Diffuser: panel in PMMA, 6 mm thick, with laser silk-screening suitably dimensioned based on the power level of the LED.
LED: Luminous flux maintenance L70B50: 50.000h. Power factor >0.9



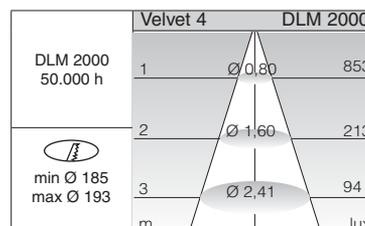
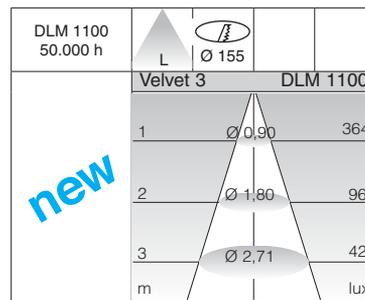
Energy 2130 - DIMM						
		CLD CELL-D		W	LED (Ta=25°C)	
wattage/W	colour	weight	code		K - ølm - CRI	
LED	white	1.00	22172310-00	12	3000K - 810lm - CRI > 80	
LED	white	1.00	22172313-00		4000K - 900lm - CRI > 80	

Version dimmable gradable par coupure de phase IGBT.



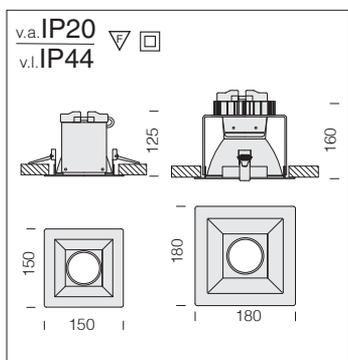


Housing: in die cast aluminium.
Reflector: oxidised and polished aluminium.
Diffuser: temperad glass.
LED: Luminous flux maintenance 70% 50000h (L70B50).
 Power factor >0.9

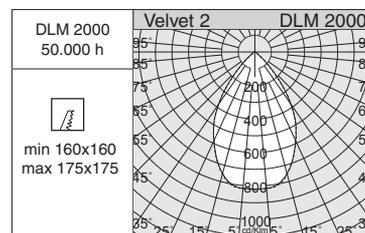
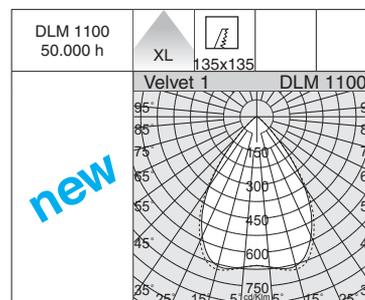
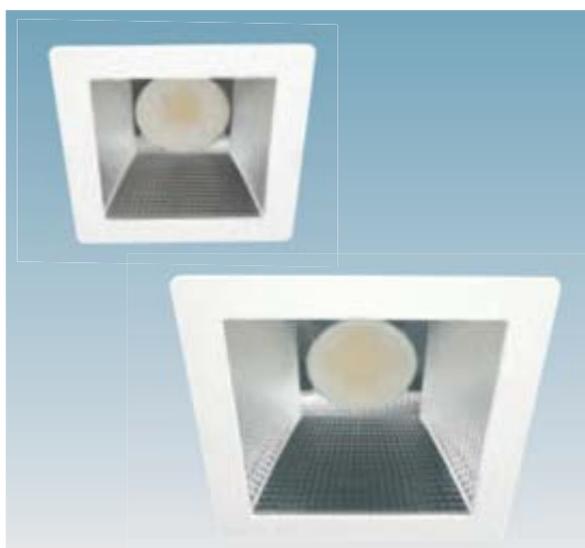


Velvet 3 - DLM 1100					
		CLD CELL		LED (Tc=85°C)	
wattage/W	colour	weight	code	W	K - ølm - CRI - degrees
DLM 1100	blanc	1,00	22160313-00	11	3000K - 1100lm - CRI>80 - 49°
DLM 1100	blanc	1,00	22160314-00	10	4000K - 1100lm - CRI>80 - 49°

Velvet 4 - DLM 2000					
		CLD CELL		LED (Tc=85°C)	
wattage/W	colour	weight	code	W	K - ølm - CRI - degrees
DLM 2000	blanc	1,10	22160413-00	21	3000K - 2000lm - CRI>80 - 44°
DLM 2000	blanc	1,10	22160414-00	19	4000K - 2000lm - CRI>80 - 44°



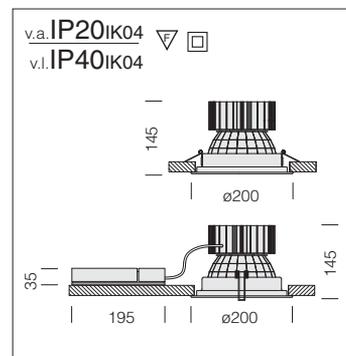
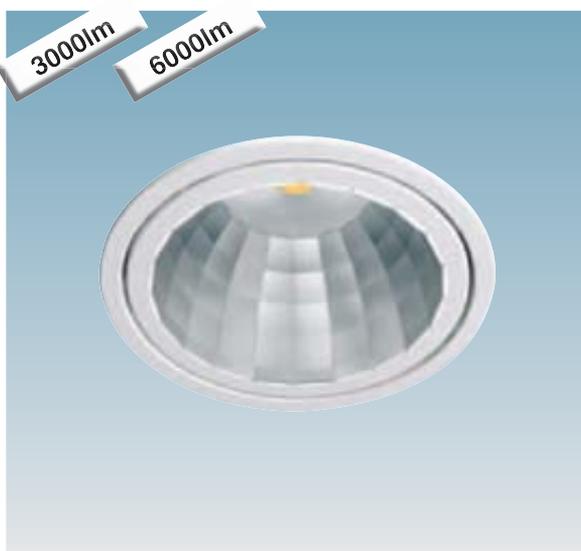
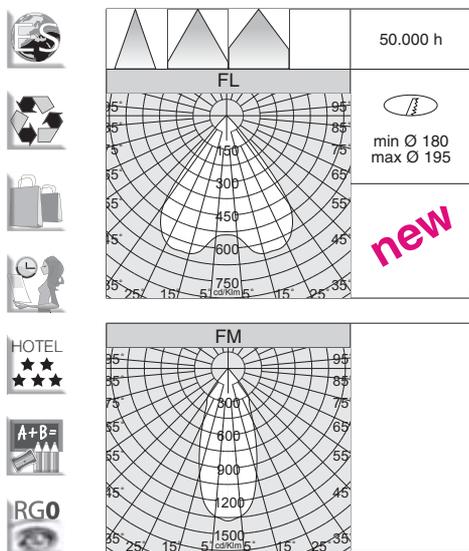
Housing: in die cast aluminium.
Reflector: V2 self-extinguishing polycarbonate.
Diffuser: temperad glass.
LED: Luminous flux maintenance 70% 50000h (L70B50).
 Power factor >0.9



Velvet 1 - DLM 1100					
		CLD CELL		LED (Tc=85°C)	
wattage/W	colour	weight	code	W	K - ølm - CRI - degrees
DLM 1100	blanc	1,00	22160113-00	11	3000K - 1100lm - CRI>80 - 78°
DLM 1100	blanc	1,00	22160114-00	10	4000K - 1100lm - CRI>80 - 78°

Velvet 2 - DLM 2000					
		CLD CELL		LED (Tc=85°C)	
wattage/W	colour	weight	code	W	K - ølm - CRI - degrees
DLM 2000	blanc	1,10	22160213-00	21	3000K - 2000lm - CRI>80 - 70°
DLM 2000	blanc	1,10	22160214-00	19	4000K - 2000lm - CRI>80 - 70°





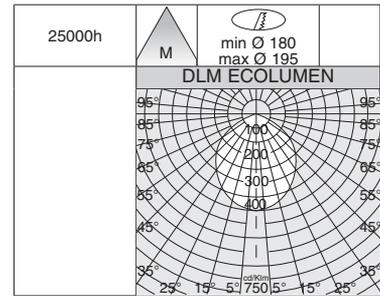
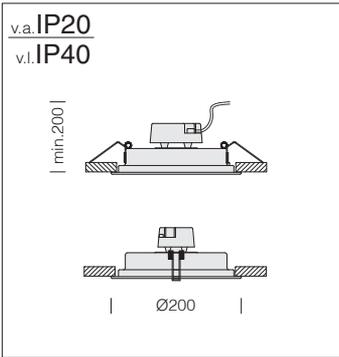
Housing: made in steel.
Reflector: in V2 shatterproof, self-extinguishing polycarbonate, coated with high-performance aluminium powder.
LED: Luminous flux maintenance L70B50: 50.000h. Power factor >0.95



Milano - GEN III - wide beam					
		CLD CELL		W	LED (Ta=25°C)
wattage/W	color	weight	code		K - ølm - CRI
COB 3000	matt	1,20	22081363-00	32	3000K - 3000lm - CRI 80
COB 3000	matt	1,20	22081364-00	40	4000K - 3000lm - CRI 90
COB 6000	matt	1,20	22081362-00	52	4000K - 6000lm - CRI 80

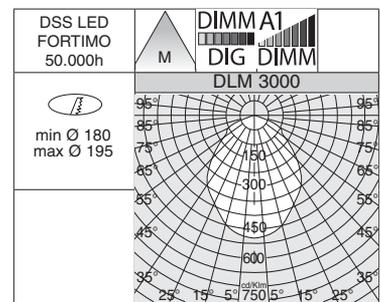
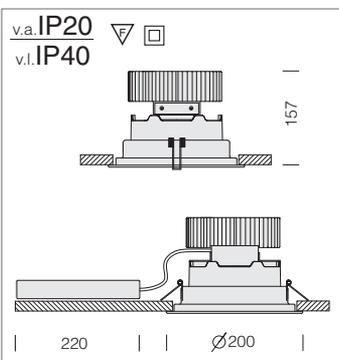


Milano - GEN III - medium beam					
		CLD CELL		W	LED (Ta=25°C)
wattage/W	color	weight	code		K - ølm - CRI
COB 3000	metall.	1,20	22081361-00	32	3000K - 3000lm - CRI 80
COB 3000	metall.	1,20	22081366-00	40	4000K - 3000lm - CRI 90
COB 6000	metall.	1,20	22081365-00	52	4000K - 6000lm - CRI 80



Housing: made in steel.
Reflector: painted white aluminium.
LED: Luminous flux maintenance L70B50: 25.000h.
Power factor >0.95

Milano - ECOLUMEN					
		CLD CELL		LED (Ta=25°C)	
	colour + colour refl.	weight	code	W	K - ølm - CRI
LED	white + white	1,50	22083910-00	27	3000K - 2000lm - CRI 80
LED	white + white	1,50	22083911-00	26	4000K - 2000lm - CRI 80



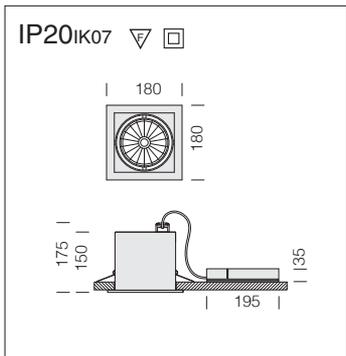
On request: $\frac{\text{v.a. IP20}}{\text{v.l. IP44}}$

Housing: made in steel.
Reflector: in V2 shatterproof, self-extinguishing polycarbonate, coated with high-performance aluminium powder.
LED: Luminous flux maintenance L70B50: 50.000h.
Power factor >0.95

Milano - DLM 3000 GEN IV							
		CLD CELL		CLD CELL-DIG (dali)		LED (Ta=25°C)	
wattage/W	colour	weight	code	code	W	K - ølm - CRI	
DLM 3000	white + metal.	1,20	22083067-00	22083067-1241	34	3000K - 3000lm - CRI 80	
DLM 3000	white + metal.	1,20	22083069-00	22083069-1241	32	4000K - 3000lm - CRI 80	

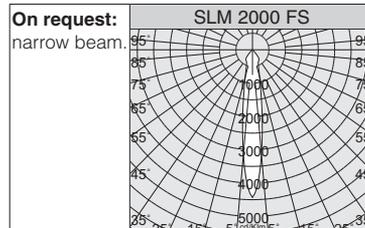
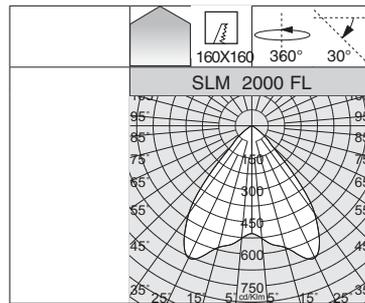
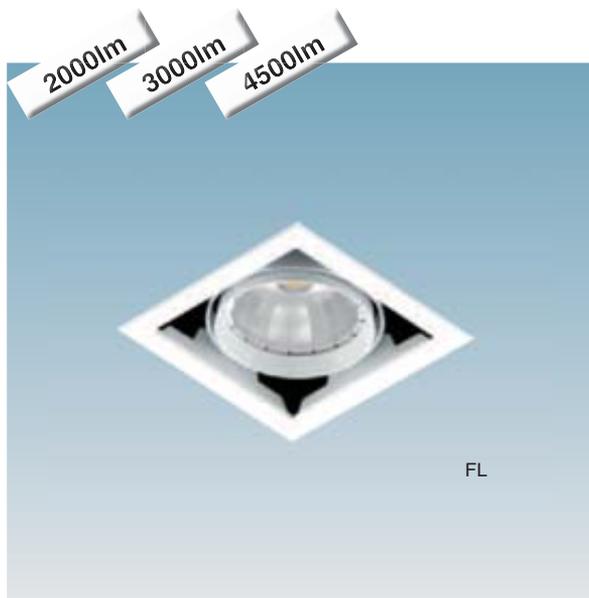






Housing: does not emit heat in the front and maintains the luminous efficiency ensuring considerable energy savings.

LED: Luminous flux maintenance L70B50: 50.000h. Power factor >0.95

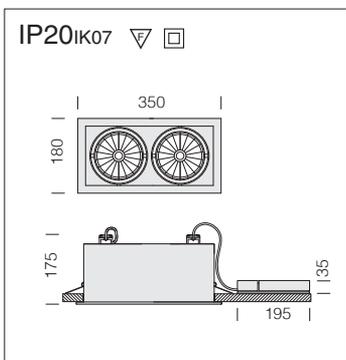


Store 1 - SLM GEN III					
		CLD CELL		W	LED (Ta=25°C)
wattage/W	colour	weight	code		K - ølm - CRI
SLM 2000 GEN III 19W	white	1,10	22186210-00	22	3000K - 2000lm - CRI 80
SLM 3000 GEN III 28W	white	1,10	22186310-00	32	3000K - 3000lm - CRI 80
SLM 4500 GEN III 45W	white	1,10	22186613-00	51	3000K - 4500lm - CRI 80
SLM 4500 GEN III 43W	white	1,10	22186614-00	49	4000K - 4500lm - CRI 80



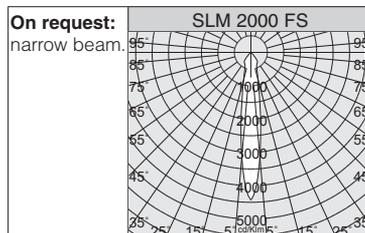
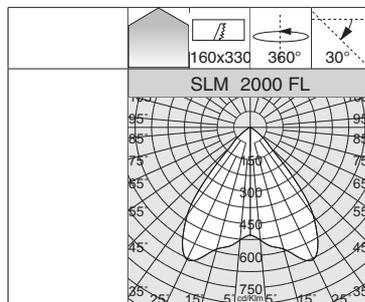
Store 1 - MASTERLED AR111					
		CLD CELL		W	LED (Ta=25°C)
wattage/W	colour	weight	code		h - K - cd/ølm - CRI - degrees
MASTERLED AR111 15W	white	0,90	22180510-00	16	45000h - 3000K - 4240cd - 745lm - CRI 82 - 24°
MASTERLED AR111 15W	m. silver	0,90	22180570-00	16	

Luminous flux maintenance L70B50: 40.000h.



Housing: does not emit heat in the front and maintains the luminous efficiency ensuring considerable energy savings.

LED: Luminous flux maintenance L70B50: 50.000h. Power factor >0.95



Store 2 - SLM GEN III					
		CLD CELL		W	LED (Ta=25°C)
wattage/W	colour	weight	code		K - ølm - CRI
SLM 2000 GEN III 38W	white	2,20	22186410-00	88	3000K - 2x2000lm - CRI 80
SLM 3000 GEN III 56W	white	2,20	22186510-00	128	3000K - 2x3000lm - CRI 80
SLM 4500 GEN III 90W	white	2,20	22186713-00	102	3000K - 2x4500lm - CRI 80
SLM 4500 GEN III 86W	white	2,20	22186714-00	98	4000K - 2x4500lm - CRI 80



Store 2 - MASTERLED AR111					
		CLD CELL		W	LED (Ta=25°C)
wattage/W	colour	weight	code		K - cd/ølm - CRI - degrees
MASTERLED AR111 2x15	white	1,50	22180511-00	32	3000K - 2x4240cd - 2x745lm - CRI 82 - 24°
MASTERLED AR111 2x15	m. silver	1,50	22180571-00		

Luminous flux maintenance L70B50: 40.000h.





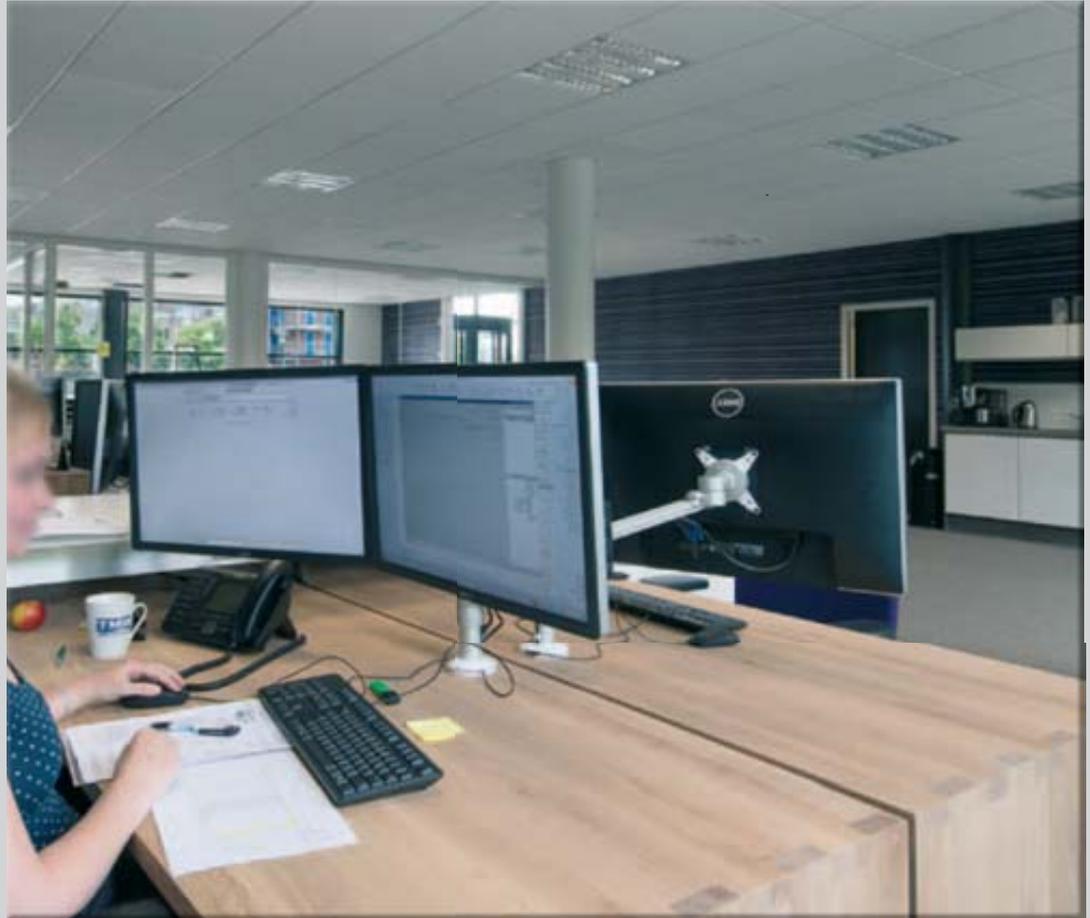
Housing: in galvanised steel sheet panels, pre-coated with a polyester resin.

Cover: with steel panels.

Equipment: hinged door and quick clamping mechanism.

With protective film on fixture and baffle louvre. Supplied without brackets: for non-surface mounted versions, use bracket acc. 326.

On request: DIMM 1/10V version.



Fixture	power supply	Room	LUX	UGR	luminous efficiency (lumen/Watt)	Qty	Ptot	Energy saving ferromagnetic
841 Minicomfort LED	LED	4.8x4.8x2.7	508	<19	79	4	192	47%
T8 4x18 louvre	ferromagnetic	4.8x4.8x2.7	504	<19	41	4	360	



Power factor: $\geq 0,9$
 LED module efficiency: 119 lm/W
 Power consumption: 36/48W
 Luminous flux maintenance 80%
 50000h (L80B20)
 Colour temperature: 4000 K (On request: 3000K)
 UGR glare index: compliant with applicable standards (reflection coefficient: ceiling 0.7 - walls 0.5)



Easy connection
 Equipped with hinged door and quick clamping mechanism.



Protective film
 Supplied with a protective film to prevent the fixtures from accumulating dirt and to keep the optics clear and ensure perfect performance.



Presence detector
 Lights turn on when they detect movement and turn off when they are no longer needed. This offers further savings. Order with subcode -0092.

The economic benefits of the new technologies alone are not able to ensure efficiency without the combination of other important advantages. The most significant one concerns the quality of light. New lighting fixtures will make you live and work better. The picture shows how lighting quality is the result of a set of elements connected to visual perception. These elements include visual performance, associated with the level of lighting, glare limitation, visual comfort, which is determined by the correct distribution of light and by a good colour rendering and ambient lighting, which depends on the colour of the light source and on light beam direction. In other words, a good lighting system is one that ensures the right amount of light, without producing glare and where colours can be admired almost as if they were viewed under natural light.

841

RG0

+40
C
-10

U.V.

DARK
65° 500
LIGHT

A1
DIMM



IP20Ik07

294

60

596/1196

Dark light louvre: double parabolic louvres, in high-gloss 99.99 aluminium, anti-glare and anti-iridescence, very low luminance with PVD treatment or in double parabolic louvres, in high-gloss 99.85 aluminium.

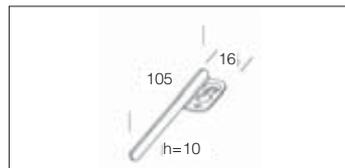
841 Minicomfort - LED

wattage/W	colour	CLD CELL			CLD CELL-D	W	LED (Tj=25°C)
		weight	L	code	code		K - ølm - CRI
LED 3x	white	3.30	596	153534-00	153534-0041	32	4000K - 3700lm - CRI≥80
LED 2x	white	2.50	1196	153533-00	153533-0041	43	4000K - 4900lm - CRI≥80

acc. 326 adjustable bracket

galvanized 998059-00

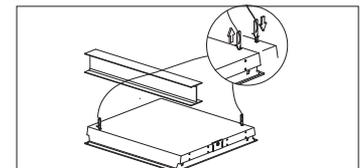
In zinc plated steel. 4-pc set to be used when art. 850/851 is not contact mounted.



acc. 320 safety cord

998004-00

Steel safety cord.



841

RG0

+40
C
-10

U.V.

DARK
65° 500
LIGHT

A1
DIMM



IP20Ik07

60

596

Dark light louvre: double parabolic louvres, in high-gloss 99.99 aluminium, anti-glare and anti-iridescence, very low luminance with PVD treatment or in double parabolic louvres, in high-gloss 99.85 aluminium.

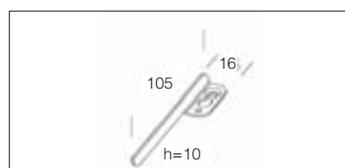
841 Minicomfort - LED

wattage/W	colour	CLD CELL			CLD CELL-D	W	LED (Tj=25°C)
		weight	L	code	code		K - ølm - CRI
LED 4x	white	3.50	596	153535-00	153535-0041	43	4000K - 4900lm - CRI≥80

acc. 326 adjustable bracket

galvanized 998059-00

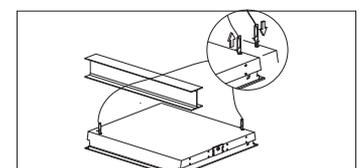
In zinc plated steel. 4-pc set to be used when art. 850/851 is not contact mounted.

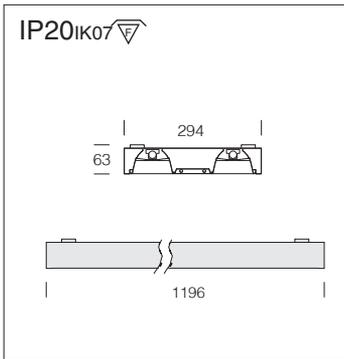


acc. 320 safety cord

998004-00

Steel safety cord.





RG0



+40
C
-10

DARK
65° < 500
LIGH

A1
DIMM

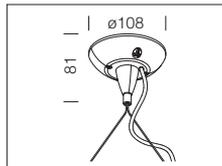


Dark light louvre: double parabolic louvres, in high-gloss 99.99 aluminium, anti-glare and anti-iridescence, very low luminance with PVD treatment or in double parabolic louvres, in high-gloss 99.85 aluminium.

731 Minicomfort R - LED							
		CLD CELL		CLD CELLD-D		LED (Tj=25°C)	
wattage/W	colour	weight	L	code	code	W	K - ølm - CRI
LED 2x	white	2.50	1196	143533-00	143533-0041	43	4000K - 4900lm - CRI≥80

acc. 2519 powered suspension
m. silver 993909-00

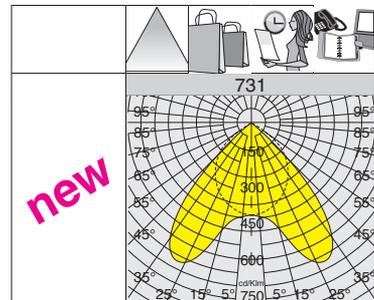
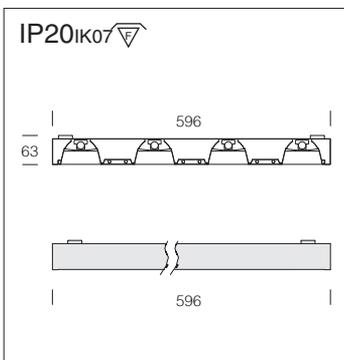
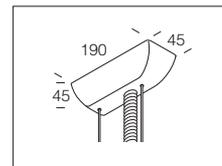
Suspension supplied with steel wire, 1.75 m long with millimetric adjustment and power cable. Max load 20 kg. **5 poles.**



acc. 2608 electrified suspension

white	994617-00
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Nylon cover and steel brackets. With steel wire Ø1,5mm; L=1,5m - 30Kg, and millimetric adjustment.



RG0



+40
C
-10

DARK
65° < 500
LIGH

A1
DIMM

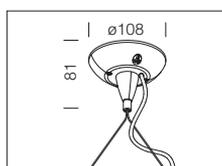


Dark light louvre: double parabolic louvres, in high-gloss 99.99 aluminium, anti-glare and anti-iridescence, very low luminance with PVD treatment or in double parabolic louvres, in high-gloss 99.85 aluminium.

731 Minicomfort - LED							
		CLD CELL		CLD CELLD-D		LED (Tj=25°C)	
wattage/W	colour	weight	L	code	code	W	K - ølm - CRI
LED 4x	white	3.50	596	143535-00	143535-0041	43	4000K - 4900lm - CRI≥80

acc. 2519 powered suspension
m. silver 993909-00

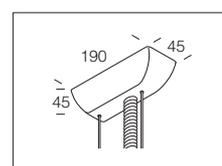
Suspension supplied with steel wire, 1.75 m long with millimetric adjustment and power cable. Max load 20 kg. **5 poles.**



acc. 2608 electrified suspension

white	994617-00
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Nylon cover and steel brackets. With steel wire Ø1,5mm; L=1,5m - 30Kg, and millimetric adjustment.



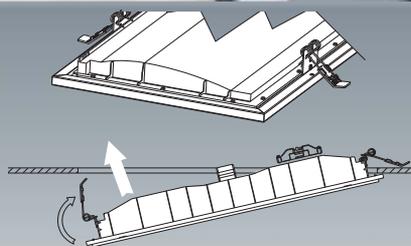


840 LED PANEL:
has obtained the certification of
photobiological safety.
Exempt group.

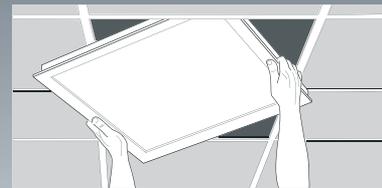
Evaluation of the Risk Group and graphical presentation of value:



IEC 62471: 2006+IEC/TR 62471-2:2009



Upon request: version with springs for recessed non-surface mounting.
On request: versions with bracket (to be ordered separately) for ceiling structure or for plasterboard.



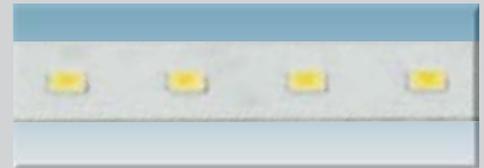
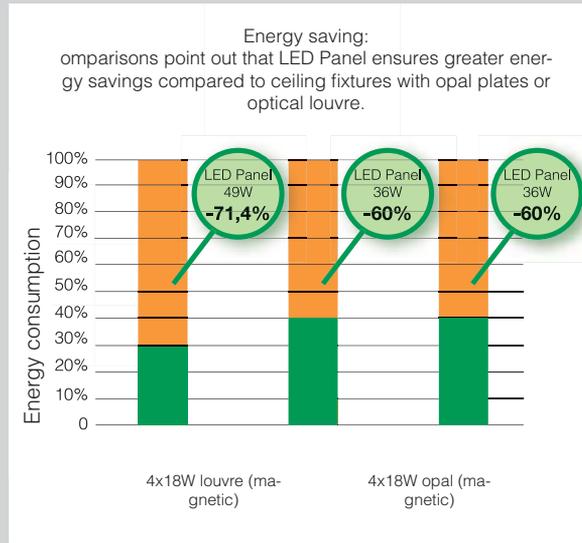
Rapid wiring connection, the fixture does not need to be opened, it can be easily embedded into a ceiling, and almost no need for maintenance.

Its shape guarantees an even distribution of light, while the white-light LEDs (4000 K) emit high quality light, ensuring maximum visual comfort and perfect colour rendering.

Housing and frame: injection moulded in white polycarbonate, shatter-proof and self-extinguishing.

Diffuser: extruded in opal engineering plastic with high thermal transmittance.

Wiring: rapid wiring connection, the fixture does not need to be opened. Designed with plug-socket connection for both the power supply and the 1-10V dimmer.

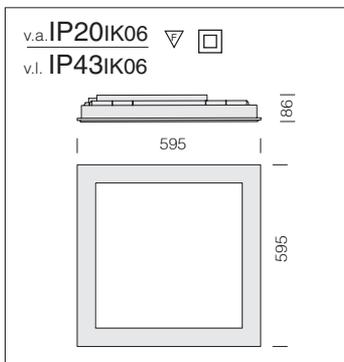


LED module efficiency 119 lm/W
 Luminous flux maintenance 80% 50000h (L80B20)
 Power consumption: 36W
 Power factor ≥ 0.9
 UGR glare index (art. 840): compliant with applicable standards * (reflection coefficient: ceiling 0.7 - walls 0.5).
 Art. 842: UGR 19 (in any situation).
 Power factor > 0.9
 Standard 1-10V dimmer, dimmable from 10% to 100%

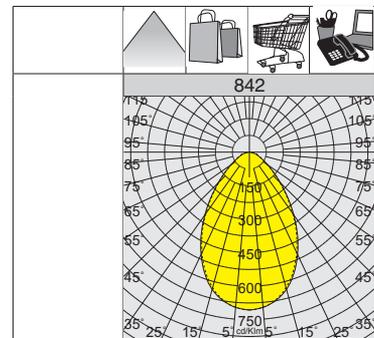
Fixture	power supply	Room	LUX	Qty	Ptot	Longitudinal UGR *	Transverse UGR *
840 LED PANEL (36W)	electronic	5mx3,6mx2,7m	560	4	144	compliant	compliant
840 LED PANEL (49W)	electronic	5mx3,6mx2,7m	417	2	103		
T8 4x18W louvre	magnetic	5mx3,6mx2,7m	600	4	360		
T8 4x18W opal	magnetic	5mx3,6mx2,7m	480	4	360		

Fixture	power supply	Room	LUX	Qty	Ptot	Longitudinal UGR *	Transverse UGR *
740 LED PANEL	elettronico	5mx3,6mx2,7m	560	4	144	compliant	compliant
T8 4x18W opal	magnetic	5mx3,6mx2,7m	480	4	360		

* The UGR index measures the direct glare in every specific application.



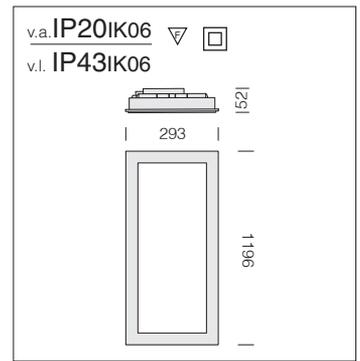
Energy savings: save over 30% energy compared to T5 lamps.



A thin and light-weight design thanks to a low-profile and polycarbonate housing.

842 LED Panel - Open space					
		CLD CELL-D		LED (Tj=25°C)	
wattage/W	colour	weight	code	W	K - ølm - CRI
LED	white	3.00	150201-00	31	4000K - 3700lm - CRI>80

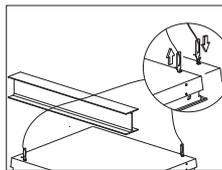
- RG0
- +40 C° -10
- U.V.
- EM
- A1 DIMM



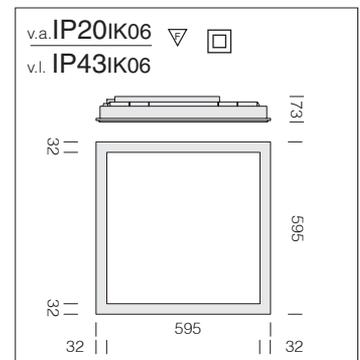
Energy savings: save over 30% energy compared to T5 lamps.

On request: versions with bracket (to be ordered separately) for ceiling structure or for plasterboard.

840 LED Panel R - DIMM					
		CLD CELL-D		LED (Tj=25°C)	
wattage/W	colour	weight	code	W	K - ølm - CRI
LED	white	4.00	150202-00	31	4000K - 3700lm - CRI>80



acc. 320 safety cord
998004-00
Steel safety cord.

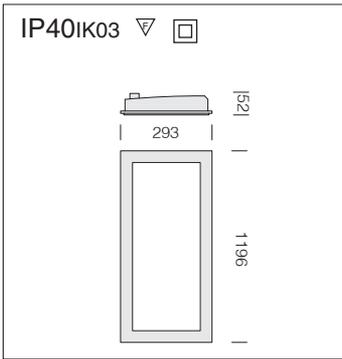


Energy savings: save over 30% energy compared to T5 lamps.

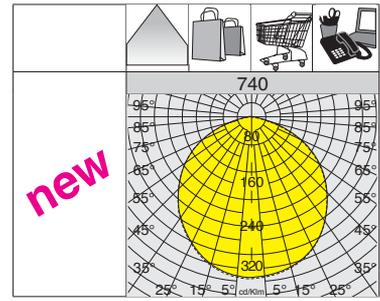
On request: versions with bracket (to be ordered separately) for ceiling structure or for plasterboard.

840 LED Panel - DIMM							
		CLD CELL-D		CLD CELLD-E		LED (Tj=25°C)	
wattage/W	colour	weight	code	code	W	K - ølm - CRI	
LED	white	3.00	150200-00	150200-07 (90 min.)	31	4000K - 3700lm - CRI 90	
LED	white	3.00	150200-39			3000K - 3500lm - CRI 80	
LED	white	3.00	150203-00		42	4000K - 4900lm - CRI 90	

Code 150203-00: high-performance version suitable in places with high ceilings. * Standard in class I.



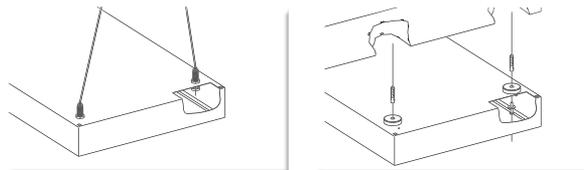
Energy savings: save over 30% energy compared to T5 lamps.



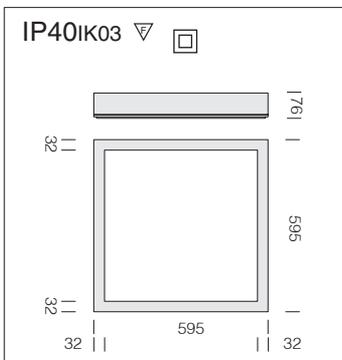
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740 - LED Panel R - Power LED ceiling fixture					
		CLD CELL-D		W	LED (T _j =25°C)
wattage/W	colour	weight	code		K - ølm
LED	white	7.00	140202-00	31	4000K - 3700lm - CRI>80

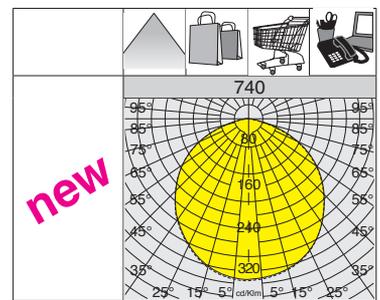
Suspension mount with wires.
Acc. 2519/2608 supplied separately.



Ceiling mount application, accessory-free.



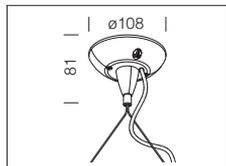
Energy savings: save over 30% energy compared to T5 lamps.



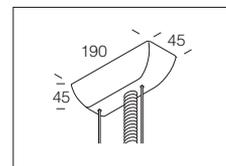
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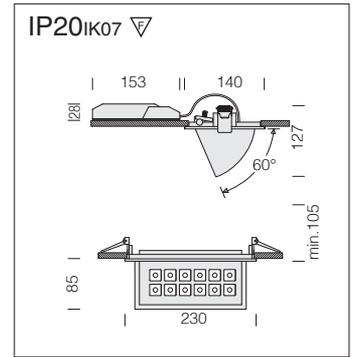
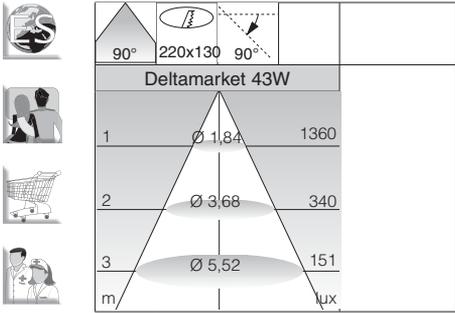
740 - LED Panel - Power LED ceiling fixture					
		CLD CELL-D		W	LED (T _j =25°C)
wattage/W	colour	weight	code		K - ølm
LED	white	6.00	140200-00	31	4000K - 3700lm - CRI 90

acc. 2519 powered suspension
m. silver 993909-00
Suspension supplied with steel wire, 1.75 m long with millimetric adjustment and power cable. Max load 20 kg. **5 poles.**



acc. 2608 electrified suspension
white 994617-00
Nylon cover and steel brackets. With steel wire Ø1,5mm; L=1,5m - 30Kg, and millimetric adjustment.

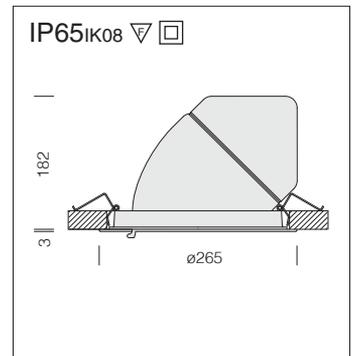
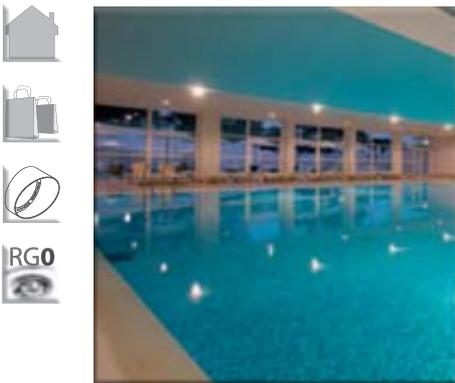
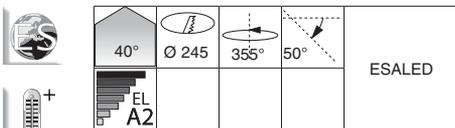




Housing: Die-cast aluminium with cooling equipment.

LED: Power factor >0.95

Deltamarket LED - adjustable					
		CLD CELL-D		LED (Ta=25°C)	
wattage/W	colour	weight	code	W	K - ølm - CRI - degrees
Power LED	white	1,50	22068710-00	40	4000K - 2810lm - CRI70 - 90°



Housing: Adjustable angle, made of die-cast aluminium.

King - ESALED					
		CLD CELL		LED (Ta=25°C)	
wattage/W (700mA)	colour	weight	code	W	ølm (700mA) - degrees
ESALED 13W	white	6,00	22085613-00	14	3000K - 1260lm- 40°
ESALED 13W	m. silver	6,00	22085673-00		

Housing: extruded aluminum with end caps, steel plate. Mounting frame molded cast aluminum with incorporated brackets for false ceilings.

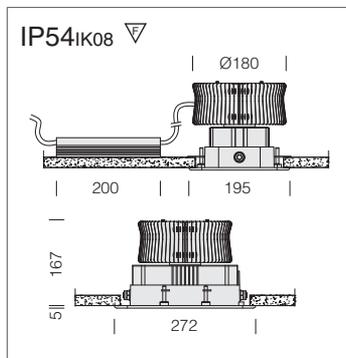
Screen: in thick transparent tempered glass. 5mm resistant to thermal shock and impact resistant (UNI-EN 12150-1: 2001).

Reflector: pure aluminum 99.99 bright-diffused, 5mm.

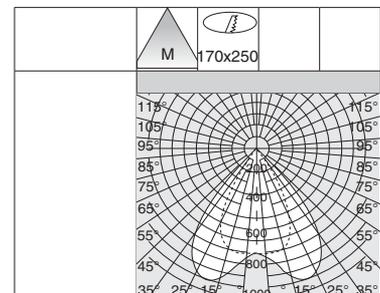
Coating: the first stage includes grey epoxy e-coating, resistant to corrosion and saline environments. Then the fixture is coated with an white acrylic based UV-stabilised resin.

Wiring: driver IP65.

LED: Luminous flux maintenance L70B50: 50.000h. Power factor >0.97



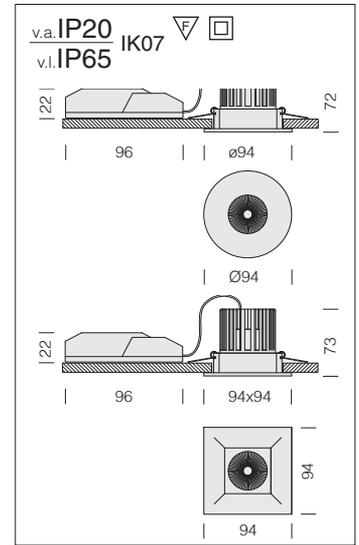
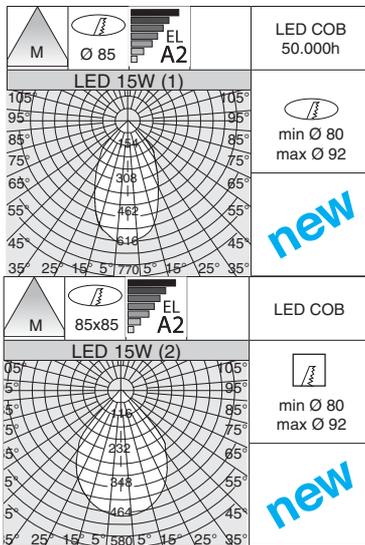
On request	
2700K - 8160lm - CRI80	
3000K - 7990lm - CRI80	
4000K - 8160lm - CRI80	



Trial LED					
		CLD CELL			LED (Ta=25°C)
wattage/W	colour	weight	code	W	K - ølm - CRI
LED COB 37W	white	3.40	22065415-00	43	4000K - 4450lm - CRI 80
LED COB 102W	white	3.40	22065412-00	114	5000K - 7955lm - CRI 65
LED COB 115W	white	3.40	22065411-00	128	5000K - 8880lm - CRI 65

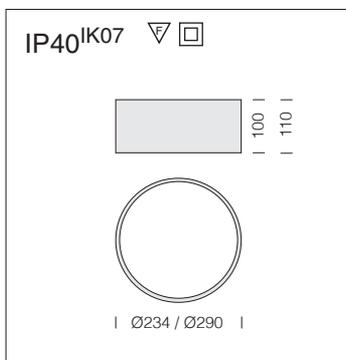
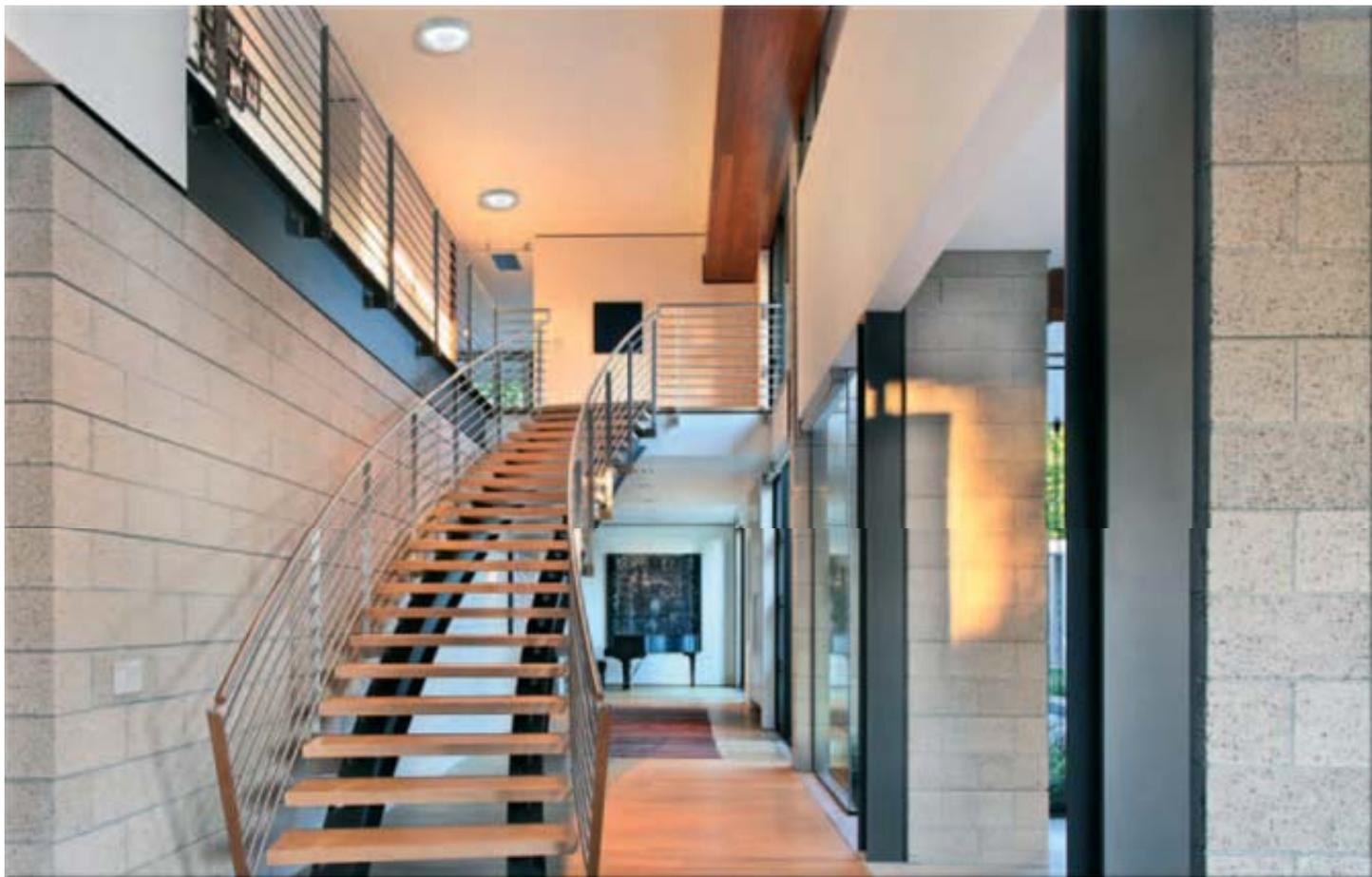


INTERIORS

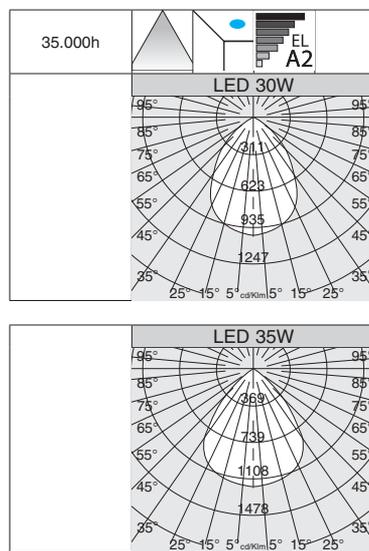


Snow 1					
wattage/W		CLD CELL		W	LED (Ta=25°C)
colour	weight	code		Kelvin - ølm - CRI	
LED COB white	0,30	22082610-00		13	3000K - 1000lm - CRI 80
LED COB silver	0,30	22082670-00			
Luminous flux maintenance L70B50: 50.000h. Power factor >0.9					

Snow 2					
wattage/W		CLD CELL		W	LED (Ta=25°C)
colour	weight	code		Kelvin - ølm - CRI	
LED COB white	0,30	22082710-00		13	3000K - 1000lm - CRI 80
LED COB silver	0,30	22082770-00			
Luminous flux maintenance L70B50: 50.000h. Power factor >0.9					



Housing: made in aluminium.
Diffuser: made in polycarbonate.
LED: Luminous flux maintenance L70B50: 35.000h.
 Power factor >0.95



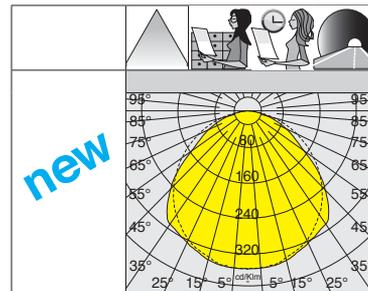
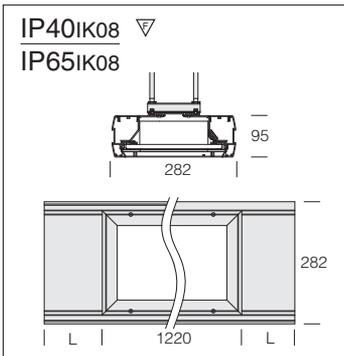
INTERIORS

Boxy Small					
		CLD CELL		LED (Ta=25°C)	
wattage/W	colour	weight	code	W	K - ølm - CRI
LED	white	1,30	22069110-00	30	4000K - 2580lm - CRI 80

Boxy Big					
		CLD CELL		LED (Ta=25°C)	
wattage/W	colour	weight	code	W	K - ølm - CRI
LED	white	1,85	22069111-00	35	4000K - 3200lm - CRI 80





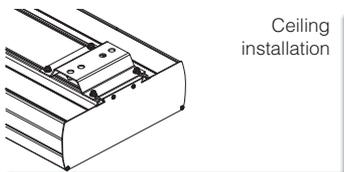


Frame and covers: in power-coated extruded aluminium, UV resistant with stabilised pre-treatment.
Lighting fixture: in coated metal plate with diffuser holder in power-coated extruded aluminium, UV resistant with stabilised pre-treatment.
Reflector: in pre-anodised aluminium.
Diffuser: in tempered glass, 5 mm thick, internally sandblasted against direct glare.
Standard ceiling supply: bearing channel, 3 metres long, that can hold two ceiling fixtures.
 To be completed with end caps as needed.
 This product enables endless solutions that can be **developed based on design requirements.**

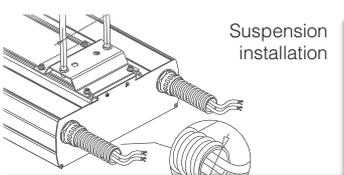
Cometa - LED			
		LED (Tj=25°C)	
wattage (116mA)	colour	W	K - ølm 116mA - CRI
LED	silver	56	4000K - 5600lm - CRI≥80

On plan

Load-bearing channel suitable for lighting in Underground transport systems, airports, railway stations, large areas, etc. To develop on plan.

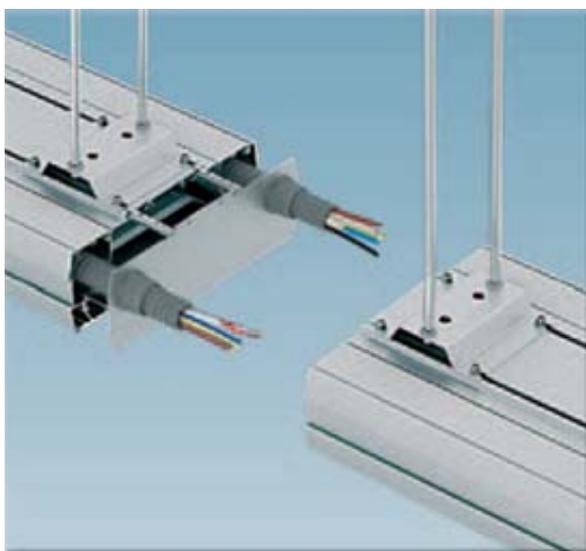


Ceiling installation



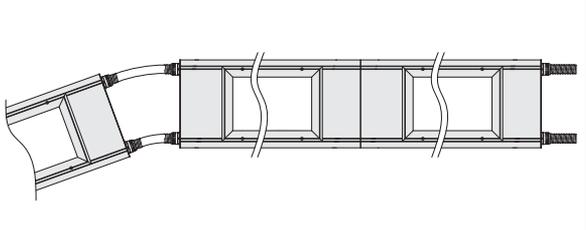
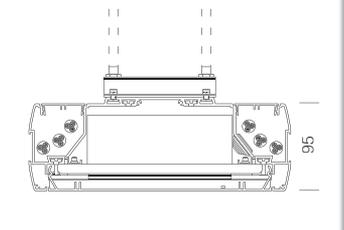
Suspension installation

Example of passing cables



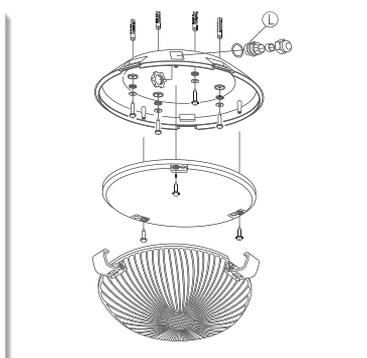
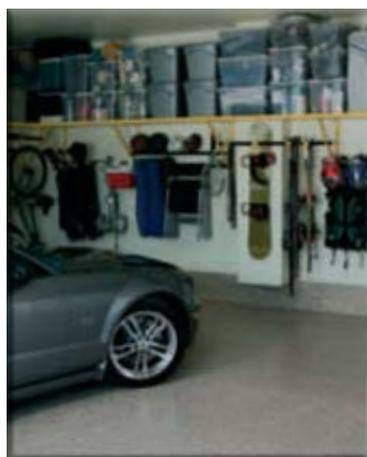
These fixtures are load-bearing modules, containing appropriate compartments for the installation of wired broadcasting, electric, telephone cables...

L = the module's length is according to customer's request.
 Note: in part "S", option to install loudspeakers or different accessories.

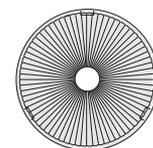




RG0



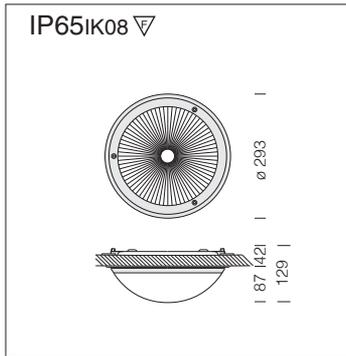
IP65IK08



Housing: vandal resistant, self-extinguishing, UV-stabilised.
Diffuser: vandal resistant, V2 self-extinguishing, UV-stabilised clear polycarbonate, anti-glare matt inside; smooth, dust-proof outside.
LED: Power factor >0.9

741 Oblò LED - small					
		CLD CELL		LED (T _j =25°C)	
wattage	colour	weight	code	W	K - ølm - CRI
LED	grey	1.00	112625-00	16	4000K - 1300lm - CRI≥80

742 Oblò LED - medium					
		CLD CELL		LED (T _j =25°C)	
wattage	colour	weight	code	W	K - ølm - CRI
LED	grey	2.00	112635-00	20	4000K - 1750lm - CRI≥80



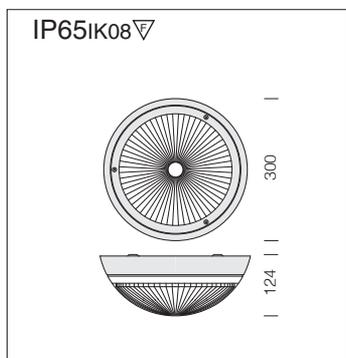
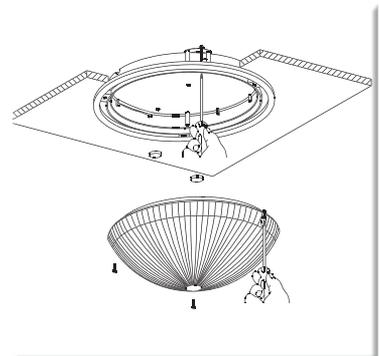
Housing: vandal resistant, self-extinguishing, UV-stabilised.

Diffuser: vandal resistant, V2 self-extinguishing, UV-stabilised clear polycarbonate, anti-glare matt inside; smooth, dust-proof outside.

LED: Power factor >0.9

1846 Globo LED - semi-recessed

		CLD CELL		LED (Tj=25°C)	
wattage	colour	weight	code	W	K - ølm
LED	grey	0,70	427238-00	9	4000K - 1000lm - CRI≥80



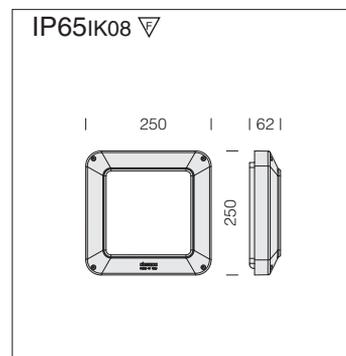
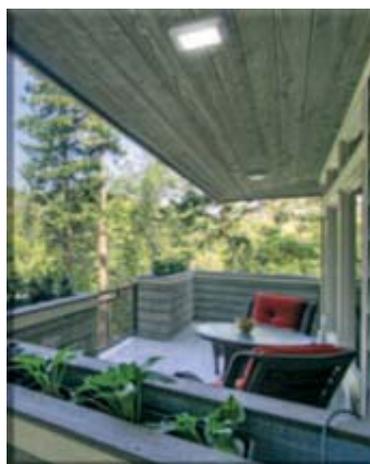
Housing: vandal resistant, self-extinguishing, UV-stabilised.

Diffuser: vandal resistant, V2 self-extinguishing, UV-stabilised clear polycarbonate, anti-glare matt inside; smooth, dust-proof outside.

LED: Power factor >0.9

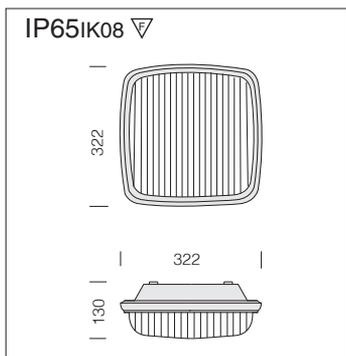
1844 Globo LED

		CLD CELL		LED (Tj=25°C)	
wattage	colour	weight	code	W	K - ølm
LED	grey	0.70	427248-00	9	4000K - 1000lm - CRI≥80



Housing: In die-cast aluminium.
Diffuser: vandal resistant, V2 self-extinguishing, UV-stabilised anti-glare polycarbonate; dustproof.
LED: Power factor: $\geq 0,92$
 Luminous flux maintenance 70%: 50000h (L70B50)

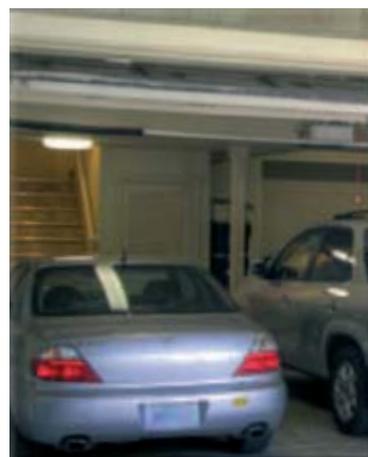
1848 Riquadro LED							
		CLD CELL		CLD CELL-E		LED (Tj=25°C)	
wattage (700mA)	colour	weight	code	weight	code	W	K - ølm 700mA - CRI
LED	s. silver	3.00	427552-00	3.00	427552-09	15	4000K - 2160lm - CRI80



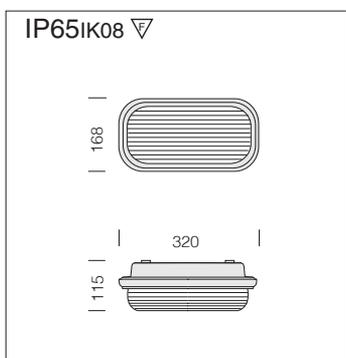
Housing: vandal resistant, self-extinguishing, UV-stabilised anti-yellowing polycarbonate.

Diffuser: vandal resistant, V2 self-extinguishing, UV-stabilised anti-glare polycarbonate; dustproof, smooth outside.

LED: Power factor ≥ 0.9



1845 Cubo LED					
		CLD CELL			LED (Tj=25°C)
wattage (350mA)	colour	weight	code	W	K - ølm 350mA
LED	grey	1.50	427445-00	9	4000K - 1000lm - CRI \geq 80



Housing: vandal resistant, self-extinguishing, UV-stabilised anti-yellowing polycarbonate.

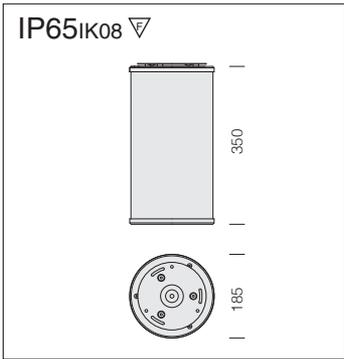
Diffuser: vandal resistant, V2 self-extinguishing, UV-stabilised anti-glare polycarbonate; dustproof.

LED: Power factor ≥ 0.9



1847 Orma LED					
		CLD CELL			LED (Tj=25°C)
wattage (350mA)	colour	weight	code	W	K - ølm 350mA
LED	grey	1.50	427542-00	9	4000K - 1000lm - CRI \geq 80

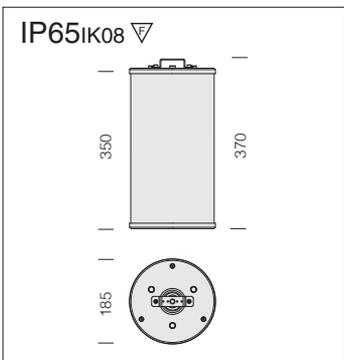
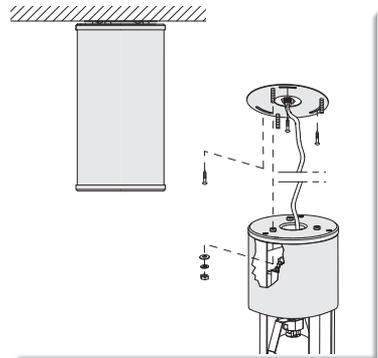




Housing: die-cast aluminium.
Diffuser: tempered glass, 4 mm thick, shock and heat resistant.



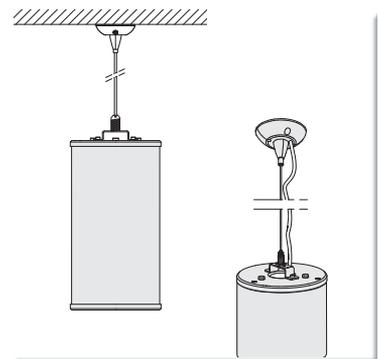
1392 Cilindro 4 - ceiling					
		CLD CELL		W	LED (Tj=25°C)
wattage	colour	weight	code		K - ølm (700mA) - degrees
LED	s. silver	6.90	420435-00	25	4000K - 3000lm - 25°



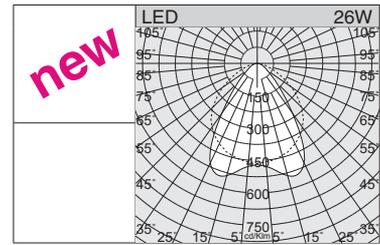
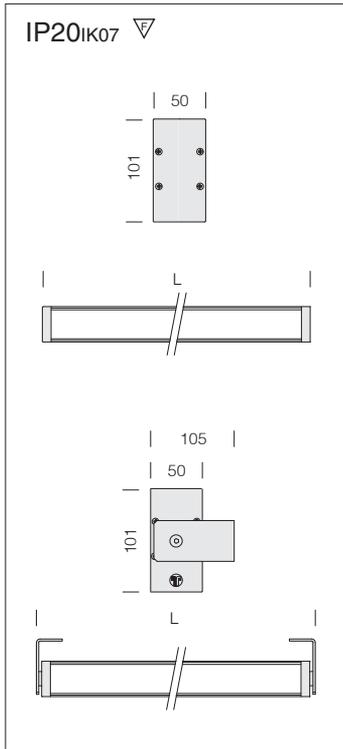
Housing: die-cast aluminium.
Diffuser: tempered glass, 4 mm thick, shock and heat resistant.



1395 Cilindro 4 - suspension					
		CLD CELL		W	LED (Tj=25°C)
wattage (700mA)	colour	weight	code		K - ølm (700mA) - degrees
LED	s. silver	6.90	420436-00	25	4000K - 3000lm - 25°



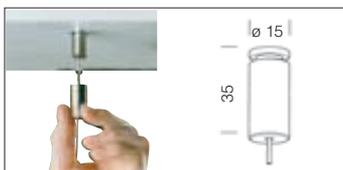




On request: wall version



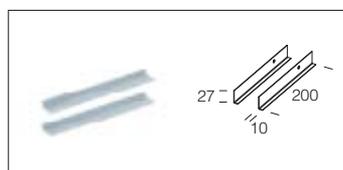
Liset Midpower					
		CLD CELL-D (1-10V)		LED (Ta=25°C)	
wattage/W (700mA)	colour	L	code	W	K - ølm 700mA - CRI
LED 4 module	white	1170	22015714-12	26	3000K - 3240lm - CRI80
LED 8 module	white	2315	22015718-12	52	3000K - 6480lm - CRI80
LED 10 module	white	2885	22015710-12	65	3000K - 8100lm - CRI80
LED 12 module	white	3460	22015712-12	78	3000K - 9720lm - CRI80



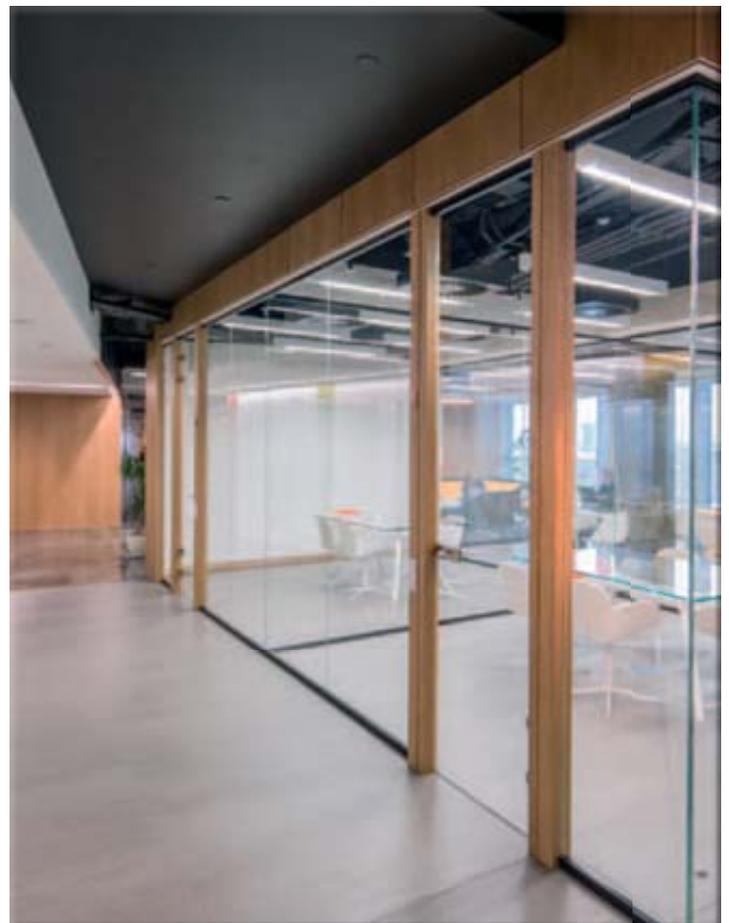
Suspension	
galvanised	2200 3166 -00
Supplied with steel wire (l=1,75m) and millimetre adjustment device. Max load: 20 kg.	



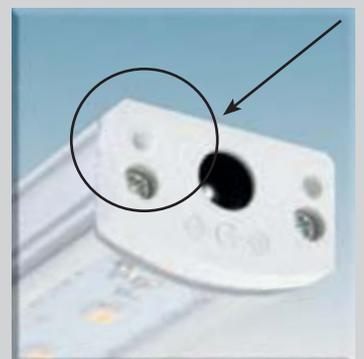
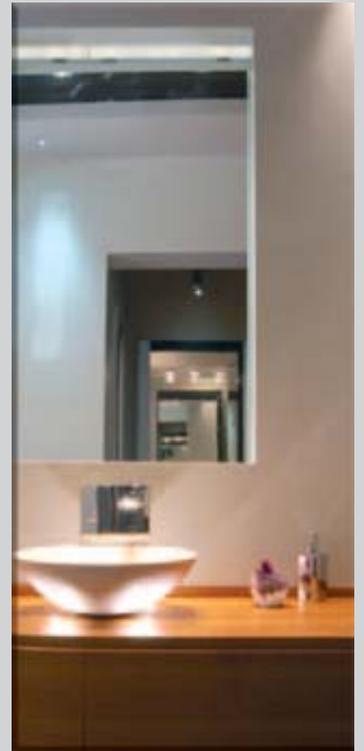
Suspension wire	
steel	2200 5226 -00
In steel wire. For simple and powered suspension	



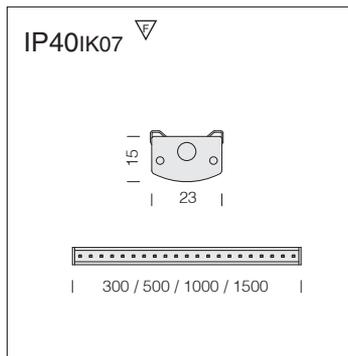
Alignment brackets	
	220 25875 -00
Utilize for Liset installation in continuous line.	



INTERIORS



Aluminum head with tooth alignment. Allows greater stability to the continuous line.



Housing: complete with aluminium frame with die-cast aluminium end caps.

Diffuser: made in polycarbonate.

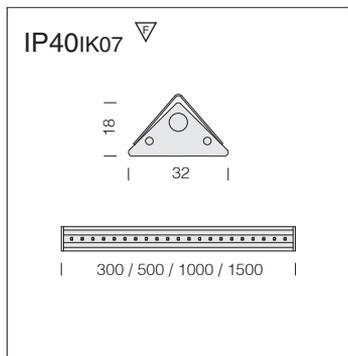


Microliset 1 - Indoor flat					
		CLD S+L		LED (Ta=25°C)	
wattage/W	colour	L	code	W	K - ølm 24V - CRI
21 LED x 0,2W	white	300	22014470-00	4	3000K - 300lm - CRI >80
35 LED x 0,2W	white	500	22014471-00	7	3000K - 500lm - CRI >80
70 LED x 0,2W	white	1000	22014472-00	14	3000K - 1000lm - CRI >80
105 LED x 0,2W	white	1500	22014473-00	20	3000K - 1500lm - CRI >80



Ceiling bracket - Flat	
inox	22025970-00
Contains 2 pieces.	

IP20 box for Micro Liset	
220-240V - 24V DC 36W	22090720-00
220-240V - 24V DC 100W	22090721-00
220-240V - 24V DC 150W	22090722-00



Housing: complete with aluminium frame with die-cast aluminium end caps.

Diffuser: made in polycarbonate.

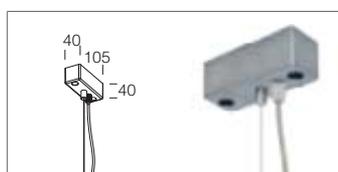
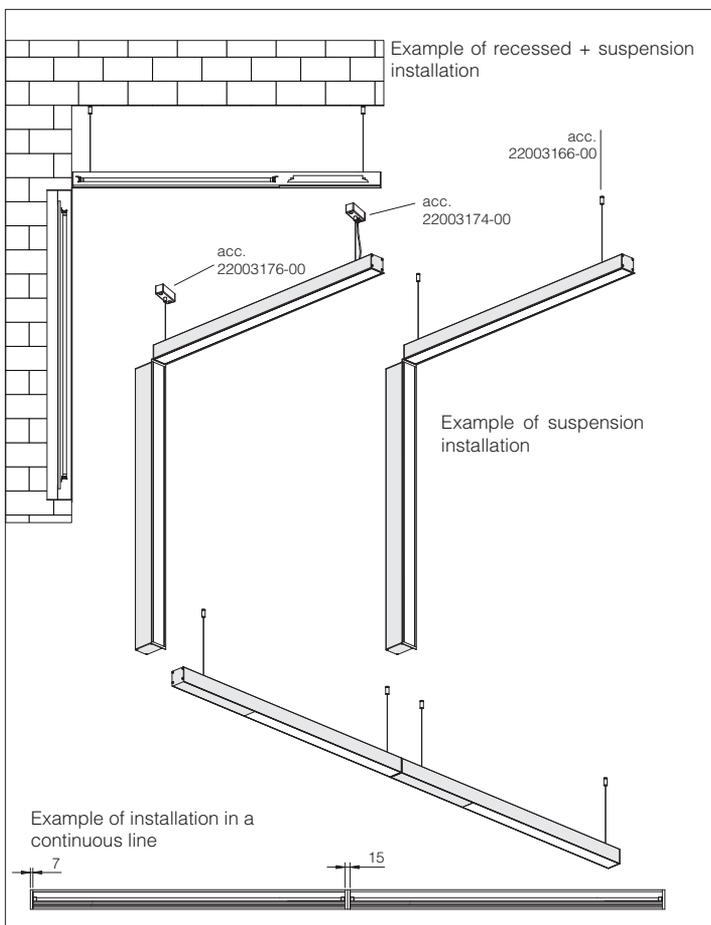


Microliset 2 - Indoor angle					
		CLD S+L		LED (Ta=25°C)	
wattage/W	colour	L	code	W	K - ølm 24V
21 LED x 0,2W	white	300	22014570-00	4	3000K - 300lm
35 LED x 0,2W	white	500	22014571-00	7	3000K - 500lm
70 LED x 0,2W	white	1000	22014572-00	14	3000K - 1000lm
105 LED x 0,2W	white	1500	22014573-00	20	3000K - 1500lm

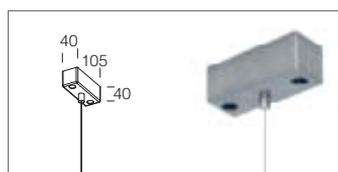


Ceiling bracket - Angle	
inox	22025977-00
Contains 2 pieces.	

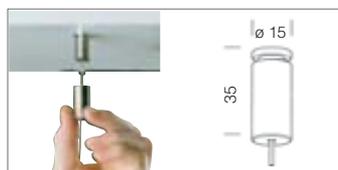
IP20 box for Micro Liset	
220-240V - 24V DC 36W	22090720-00
220-240V - 24V DC 100W	22090721-00
220-240V - 24V DC 150W	22090722-00



Powered suspension with wire	
100 cm	22003174-00
Supplied with steel wire and millimetre adjustment device and power cord. Max loading 20Kg.	



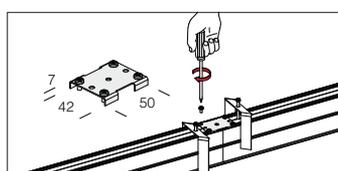
Suspension with wire	
100 cm	22003176-00
Completed with steel wire and millimetre adjustment device. Max load: 20 kg.	



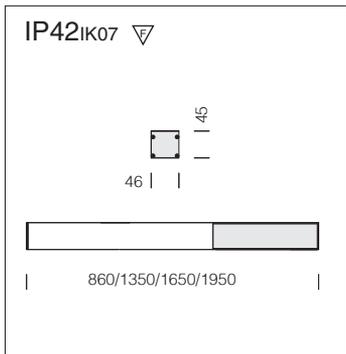
Simple suspension	
galvanised	22003166-00
Supplied with steel wire (l=1,75m) and millimetre adjustment device. Max load: 20 kg.	



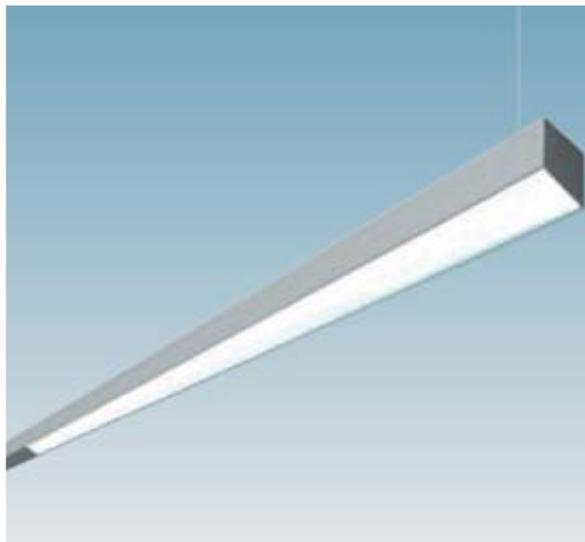
Powered suspension	
100 cm	22003173-00
Supplied with steel wire, millimetre adjustment device, and power cord. Max load: 20 Kg. Length 100 cm	



Alignment bracket	
	22025882-00
For continuous mechanics line.	

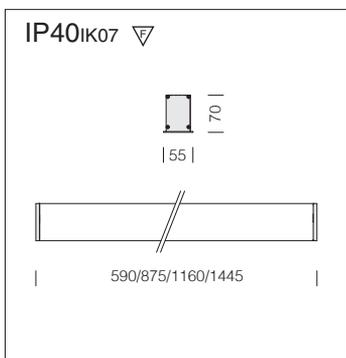


Housing: in extruded aluminium.
Diffuser: made of polycarbonate with a prismatic structure.
Equipment: supplied with suspension accessories (steel wires and ceiling roses).
LED: Luminous flux maintenance L70B50: 50.000h.
 Power factor >0.9

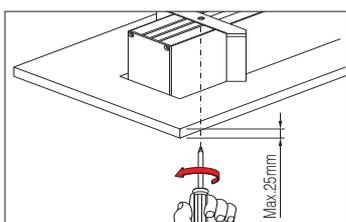
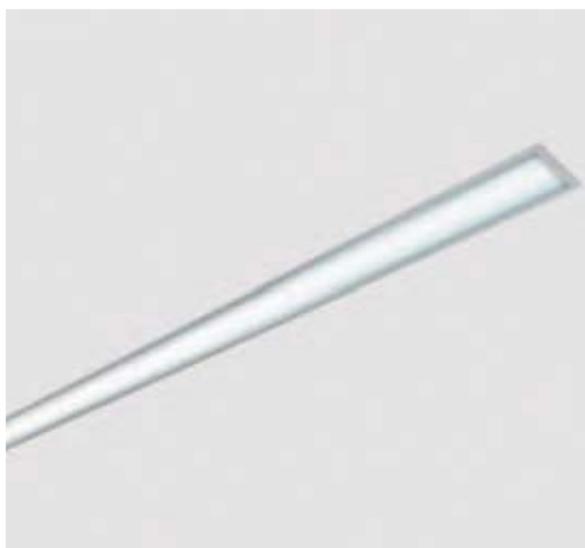


Minilinea A - LED - suspension					
		CLD CELL		LED (Ta=35°C)	
wattage/W	colour	L	code	W	K - ølm - CRI
LED	nat. oxidised alum.	860	22010770-00	13	4000K - 1620lm - CRI 80
LED	nat. oxidised alum.	1350	22010771-00	19	4000K - 2430lm - CRI 80
LED	nat. oxidised alum.	1650	22010772-00	26	4000K - 3240lm - CRI 80
LED	nat. oxidised alum.	1950	22010773-00	32	4000K - 4050lm - CRI 80

The power supply is housed at one end of the lighting fixture.



Housing: in extruded aluminium.
Diffuser: made of opal polycarbonate UV stabilized.
LED: Luminous flux maintenance L70B50: 50.000h.
 Power factor >0.9

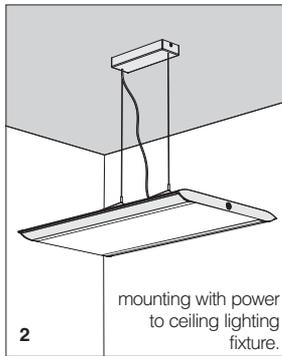
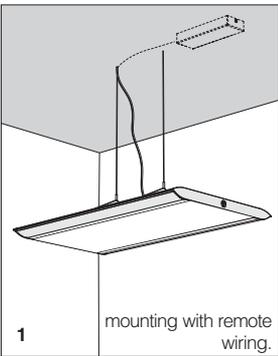
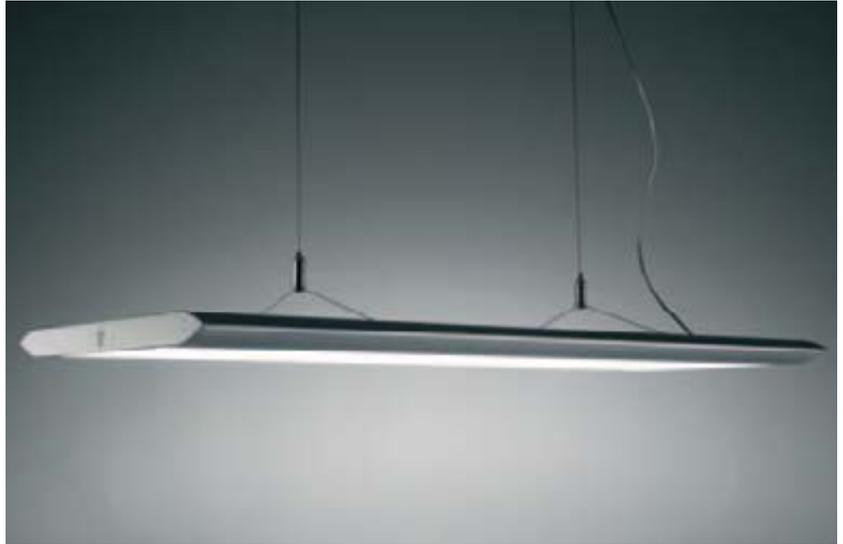
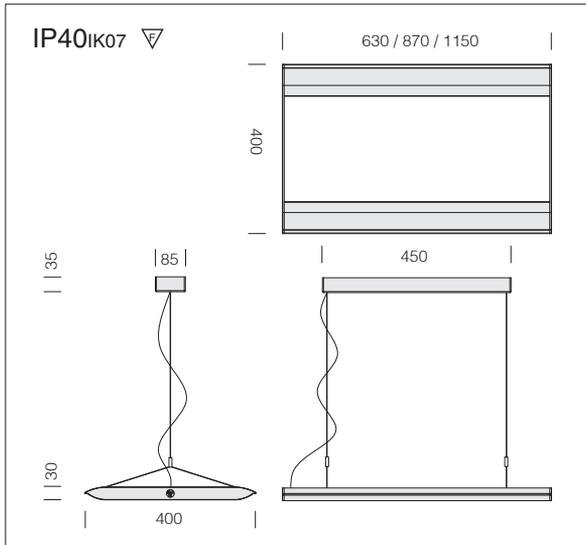


Minilinea B - recessed					
		CLD CELL		LED (Ta=35°C)	
wattage/W	colour	L	code	W	K - ølm - CRI
LED	nat. oxidised alum.	590	22010870-00	13	4000K - 1620lm - CRI 80
LED	nat. oxidised alum.	875	22010871-00	19	4000K - 2430lm - CRI 80
LED	nat. oxidised alum.	1160	22010872-00	26	4000K - 3240lm - CRI 80
LED	nat. oxidised alum.	1445	22010873-00	32	4000K - 4050lm - CRI 80

Recessed size: 13W=580x46 - 19W=865x46 - 26W=1150x46 - 32W=1435x46

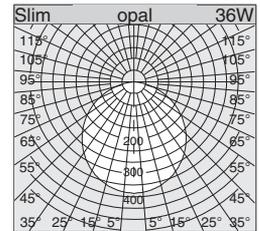
Can be recessed mounted in a solid line with linear joint code 22025882-00.





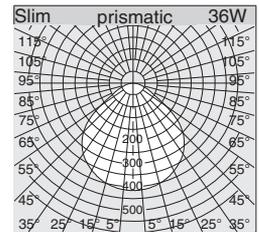
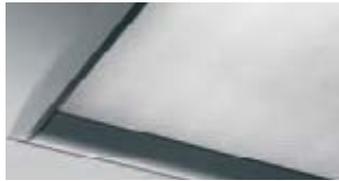
Slim 1 - Suspended lamp with LEDs with opal shield						
wattage/W	colour	L (mm)	CLD CELLD-DIG		W	LED (Ta=25°C)
			weight	code		K - lm - CRI
LED	m. silver	630	2,50	22182970-00	36	4000K - 3900lm - CRI 80
LED	black	630	2,50	22182930-00	36	

Complete with opal shield.



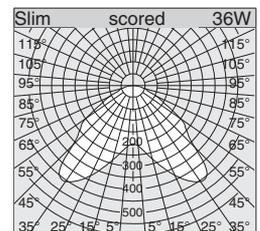
Slim 2 - Suspended lamp with LEDs with prismatic shield						
wattage/W	colour	L (mm)	CLD CELLD-DIG		W	LED (Ta=25°C)
			weight	code		K - lm - CRI
LED	m. silver	630	2,50	22182771-00	36	4000K - 3900lm - CRI 80
LED	black	630	2,50	22182731-00	36	

Complete with prismatic shield.

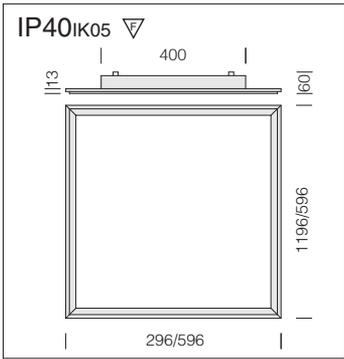


Slim 3 - Suspended lamp with LEDs with ribbed shield						
wattage/W	colour	L (mm)	CLD CELLD-DIG		W	LED (Ta=25°C)
			weight	code		K - lm - CRI
LED	m. silver	868	2,50	22182872-00	36	4000K - 3900lm - CRI 80
LED	black	868	2,50	22182832-00	36	
LED	m. silver	1148	3,00	22182873-00	46	4000K - 5200lm - CRI 80
LED	black	1148	3,00	22182833-00	46	

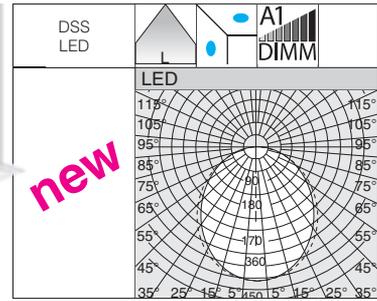
Complete with ribbed shield.







Pannello luminoso was designed to ensure versatility and energy-efficiency: thanks to the use of LED technology, it can contain consumption and be installed in small spaces, hence saving resources.



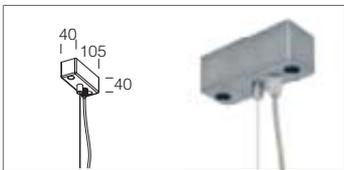
Pannello luminoso - LED					
		CLD CELL-D (1-10V)		W	LED (Ta=25°C)
wattage/W (24V)	colour	weight	code		K - ølm - CRI
LED	blanc	4.10	22184610-00	31	4000K - 4300lm - CRI80
LED	blanc	4.10	22184611-00	31	3000K - 4200lm - CRI85

Also available as a dimmable DALI version.
LED: Luminous flux maintenance L70B50: 50.000h. Power factor >0.95

Pannello luminoso R - LED					
		CLD CELL-D (1-10V)		W	LED (Ta=25°C)
wattage/W (24V)	colour	weight	code		K - ølm - CRI
LED	blanc	4.40	22184471-00	31	4000K - 4300lm - CRI80
LED	blanc	4.40	22184473-00	31	3000K - 4200lm - CRI85

Also available as a dimmable DALI version.
LED: Luminous flux maintenance L70B50: 50.000h. Power factor >0.95

Pannello Luminoso is equipped for suspended mounting and for the safety cable.



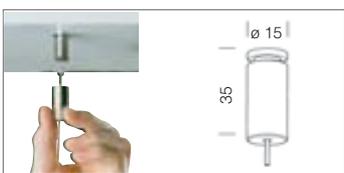
Powered suspension with wire	
100 cm	22003174-00
Supplied with steel wire and millimetre adjustment device and power cord. Max loading 20Kg.	



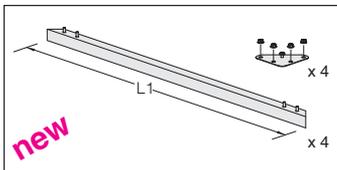
Suspension with wire	
100 cm	22003176-00
Completed with steel wire and millimetre adjustment device. Max load: 20 kg.	



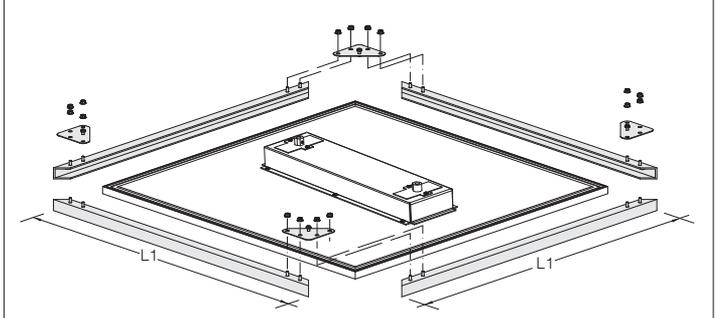
Powered suspension	
100 cm	22003173-00
Supplied with steel wire, millimetre adjustment device, and power cord. Max load: 20 Kg. Length 100 cm	



Simple suspension	
galvanised	22003166-00
Supplied with steel wire (l=1,75m) and millimetre adjustment device. Max load: 20 kg.	



Adapter for Pannello luminoso	
	22021846-00
Adapter for the installation in panels of Pannello Luminoso with spacing between cross bars greater than 600 mm. When ordering, specify the size. Package contains 4 pieces.	

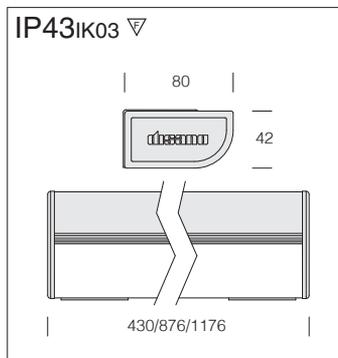


A2	L1	L1	h
604	602	602	62
606	604	604	62
608	606	606	62
610	608	608	62
612	610	610	62
614	612	612	62
616*	612	612	62
618*	612	612	62
A3	L1	L1	h
620	618	618	60
622	620	620	60
624	622	622	60
626	624	624	60

Panel mount adapter accessory: reference table for spacing between bars greater than 600 mm.



-
-
-
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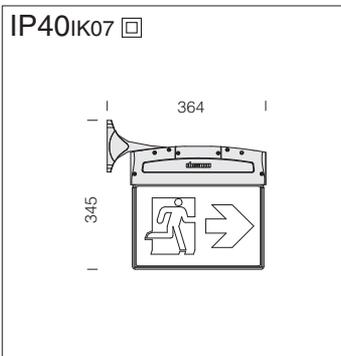
Housing: in extruded aluminium with ABS end caps.

Diffuser: in opal polycarbonate, fluted inside, smooth on the outside, dust-proof, UV stabilized.

420 - Rigo LED

wattage	colour	L	CLD CELL		CLD CELL with socket		CLD CELL with socket & switch		W	LED (Tj=25°C)
			weight	code	weight	code	weight	code		K - olm- CRI
LED	white	430 mm	1.50	214565-00	1.50	214565-54	1.50	214565-92	7	4000K - 819 lm - CRI≥80
LED	white	876 mm	2.00	214566-00	2.00	214566-54	2.00	214566-92	18	4000K - 1872 lm - CRI≥80
LED	white	1176 mm	2.50	214567-00	2.50	214567-54	2.50	214567-92	26	4000K - 2808 lm - CRI≥80

The lighting fixtures equipped with switch and/or socket have an IP20 protection rate.



Housing: In plastic material
Reflector: In plexiglass transparent
Version:
 Emergency run time: 60/180 minutes. When power is restored, the battery recharges automatically in 12/24h hours.

620 - Safety Flag LED

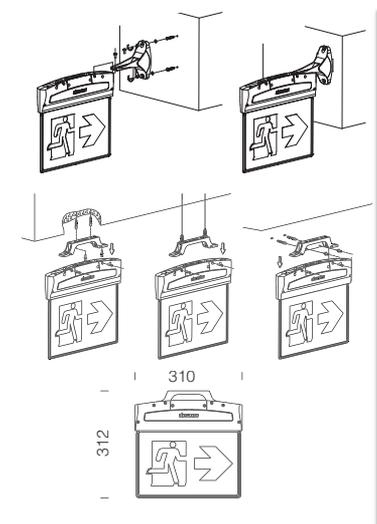
		CLD CEM-L			LED (Tj=25°C)	
wattage	colour	weight	code	autonomy	K - Ra	
LED	white	1.00	112581-00	1h	6000K - CRI>80	
LED	white	1.00	112582-00	3h	6000K - CRI>80	



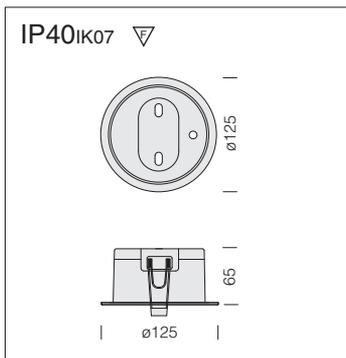
acc. 470 labels

right out	995133-00
left out	995134-00
down out	995135-00
exit	995136-00

Self-adhesive pictograms available and visible up to 26 m. UNI EN1838







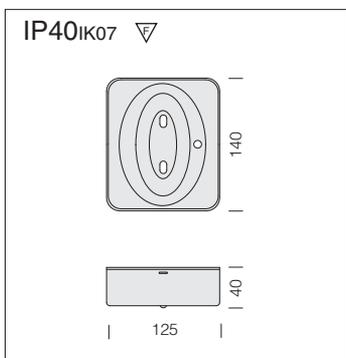
Two-colour LED indicator		
Green	Steady light	Standard mode
	Flashing light	Test mode
Red	Assistance	
	1 flash, 4 sec. pause	Battery not connected
	2 flash, 4 sec. pause	Low battery
	3 flash, 4 sec. pause	Battery charger broken
	4 flash, 4 sec. pause	Transformer broken



Emergency lighting is an essential safety system to ensure the protection of people during emergency situations. People who are left in the dark during power outages or block-outs, especially in crowded places or during a catastrophic event, will feel uneasy, hence increasing the risk of getting hurt because uneasiness can easily turn into panic. Therefore, an efficient emergency lighting system is an essential requirement to guarantee a safe and fast evacuation during emergencies. If this system is designed in compliance with existing laws and regulations, it will provide the necessary aid that, together with adequate safety signals, will ensure a smooth evacuation from the premises.

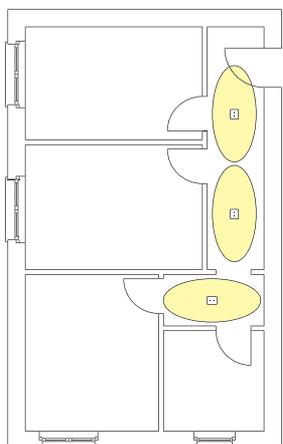
Emergency 1 - False-ceiling								
		CLD CELL-E		Input Voltage	Charge duration	Discharge duration	Battery	W
wattage/W	colour	weight	code					
LED	white	1.00	22170918-00	220-240V, 50Hz	24h	1h	7,2V - 800mA/h	3
LED	white	1.00	22170919-00	220-240V, 50Hz	24h	3h	7,2V - 1000mA/h	3

Standard version: SA (following the instructions you can set it in SE version)



Emergency 2 - Ceiling								
		CLD CELL-E		Input Voltage	Charge duration	Discharge duration	Battery	W
wattage/W	colour	weight	code					
LED	white	1.00	22-00	220-240V, 50Hz	24h	1h	7,2V - 800mA/h	3
LED	white	1.00	22-00	220-240V, 50Hz	24h	3h	7,2V - 1000mA/h	3

Standard version: SA (following the instructions you can set it in SE version)



After installation, press the test button to check the device's proper operation



Gates D1-D20
Exit / Bag Claim
Concessions

Gates
Gates D30-D40
Gates A B C E

ECHO



ECHO



FORMA



Echo _____ p.282
 Forma _____ p.284

RAPID SYSTEM



SUPER



Rapid System _____ p.286
 Super _____ p.288

MINERVA



VENERE



COMPENDIO A



Minerva _____ p.290
 Venere _____ p.292
 Compendio A _____ p.294

COMPENDIO S



COMPENDIO G1



COMPENDIO G1



Compendio S _____ p.295
 Compendio G1 _____ p.296

GHOST



ARGON



Ghost _____ p.298
 Argon _____ p.299

DISCO



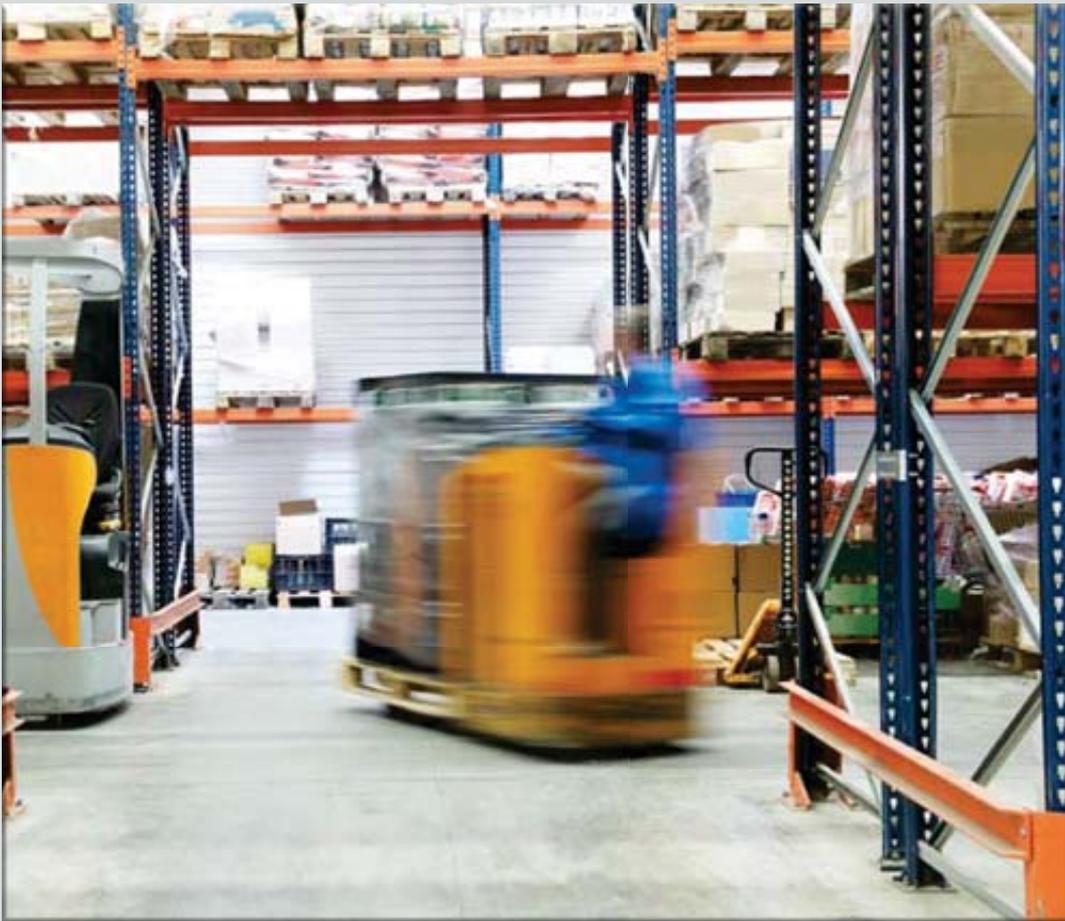
ASTRO



MODOLED



Disco _____ p.300
 Astro _____ p.302
 Modoled _____ p.304
 Replacement FL _____ p.307



Housing: injection moulded, vandal resistant, self-extinguishing, UV stabilised RAL 7035 grey polycarbonate, high mechanical resistance thanks to the stiffening ribs inside the structure.

Diffuser: injection moulded V2 self-extinguishing, UV stabilised clear polycarbonate, prismatic inside for better light control. The smooth outside finishing facilitates cleaning, essential to ensure maximum lighting efficiency at all times.

Equipment: plug connector

On request:

- High performance version.
- narrow beam with sub-code **-22**
- Water-proof lighting fitting on request with stainless steel latches to be ordered using **sub-code 0077** at an extra price.
- **Continuous electric line connection:** a through-line wiring arrangement and socket/plug type connectors from the first of the last lighting fitting is required for this type of installation. (Lighting fitting supplied on request **sub-code 0072** with surcharge).

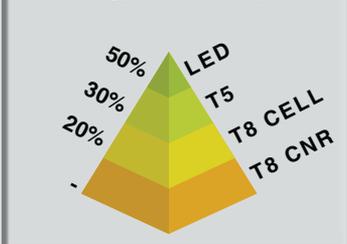
For applications with direct exposure to sunlight, we recommend using Forma LED.

fixtures	ballast	room	LUX	Qtà	Ptot	927 Echo - energy saving	
927 ECHO 1600mm	electronic	40m x 20m H 3,5m	325	50	3140	43%	55%
2x58W	electronic	40m x 20m H 3,5m	324	50	5500	compared to	compared to
2x58W	magnetic	40m x 20m H 3,5m	324	50	7000	A2 2x58W electronic	2x58W magnetic
927 ECHO 1300mm	electronic	40m x 20m H 3,5m	174	36	1692	42%	53%
2x36W	electronic	40m x 20m H 3,5m	165	40	2880	compared to	compared to
2x36W	magnetic	40m x 20m H 3,5m	165	40	3600	A2 2x36W electronic	2x36W magnetic

Save more with presence detectors = instant start!

continually turning lights ON and OFF does not damage LEDs like in fluorescent tubes

The energy-efficiency pyramid



Standard steel mounting bracket: Enables quick and easy installation of the fixture to ceiling surfaces.



Standard spring loop: Allows quick connection to any chain suspension system.



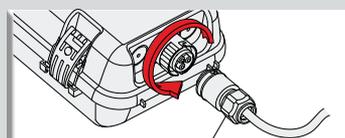
Example of continuous line installation with plug connector.



Continuous line alignment
Perfect alignment of the lighting fittings is achieved using moulded guiding notches.



Better performance
The polycarbonate used is transparent, **prime quality** and stabilised against UV rays. The process reduces glare but does not affect performance.



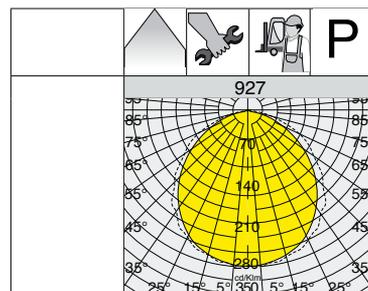
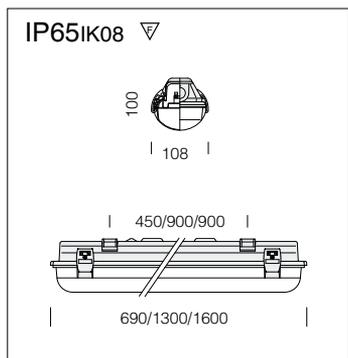
**art. 927
LED - Fluorescent
correspondence**

Luminous emission

2x58W			56 W
2x36W		44 W	
1x36W	25 W		

72 LED 126 LED 168 LED

(two lamps version)

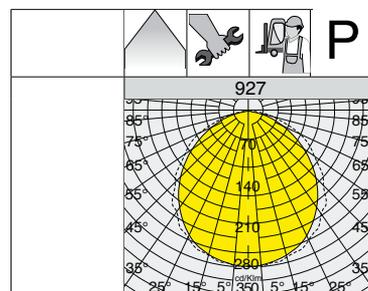
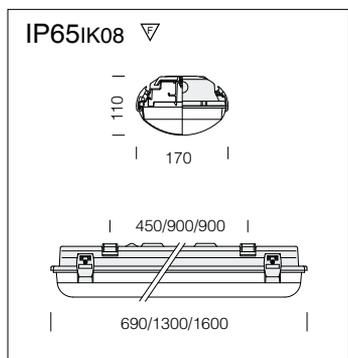


LED

Power factor: $\geq 0,9$
 Luminous flux maintenance 80%
 50000h (L80B20)
 Colour temperature: on request
 3000K and 6000K

927 Echo - LED one-lamp							
wattage	colour	CLD CELL			CLD CELL-E	LED (Tj=25°C)	
		weight	L	code	code	W	K - ϕ lm - CRI
LED	grey	1.00	690	164672-00	164672-07*	13	4000K - 1620lm - CRI \geq 80
LED	grey	2.00	1300	164673-00	164673-07	22	4000K - 2835lm - CRI \geq 80
LED	grey	3.00	1600	164674-00	164674-07	29	4000K - 3780lm - CRI \geq 80

Total power consumption: 14,5W, 25W, 32W. *= supplied in two-lamps body.



LED

Power factor: $\geq 0,9$
 Luminous flux maintenance 80%
 50000h (L80B20)
 Colour temperature: on request
 3000K and 6000K

927 Echo - LED two-lamps							
wattage	colour	CLD CELL			CLD CELL-E	LED (Tj=25°C)	
		weight	L	code	code	W	K - ϕ lm - CRI
LED	grey	1.30	690	164697-00	164697-07	25	4000K - 3240lm - CRI \geq 80
LED	grey	2.30	1300	164698-00	164698-07	44	4000K - 5670lm - CRI \geq 80
LED	grey	3.30	1600	164694-00	164694-07	56	4000K - 7560lm - CRI \geq 80

Total power consumption: 29W, 47W, 62W.

WATER-PROOF



Housing: made of pressed steel, drawn in a single piece for high mechanical resistance. Supplied with frame.

Coating: polyester powder for better resistance to corrosion and saline environment.

Standard supply: plug connector for quick installation and rubber gasket.

Equipment: supplied standard with a connector and brackets for wall / suspension attachment.

On request: emergency unit.

We recommend using this version for applications with direct exposure to sunlight.

<p>993 Forma with clear glass has a flux in excess of about 11% and increased beam width compared to 995 Forma tempered glass, ideal for a greater anti-glare.</p>	
993 Forma LED	995 Forma LED
11% more light than clear glass!	Matt glass to ensure greater glare control!

The energy-efficiency pyramid



LED

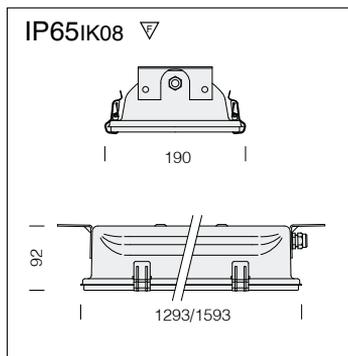
- Power factor: $\geq 0,9$
- LED module efficiency:
- 128/135 lm/W
- Luminous flux:
- 5670 lm, 7560 lm
- Power consumption:
- 47W, 62W
- Luminous flux maintenance 80%: 50000h (L80B20)
- Colour temperature: on request 3000K and 6000K

**art. 993-995
LED - Fluorescent
correspondence**

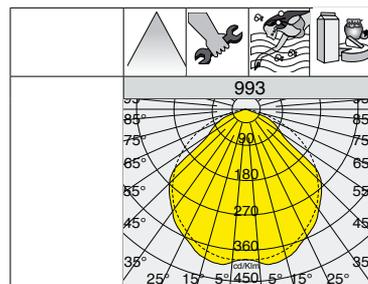
Luminous emission

2x58W			56 W
2x36W		44 W	

**126 168
LED LED**

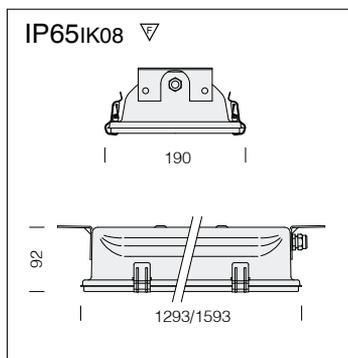


Diffuser: impact-resistant transparent tempered glass.

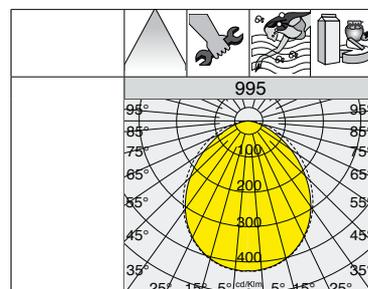


993 Forma - High performance LED						
		CLD CELL			LED (Tj=25°C)	
wattage (116mA)	colour	weight	L	code	W	K - ølm - CRI
LED	s. silver	7.20	1293	162447-00	44	4000K - 5670lm - CRI≥80
LED	s. silver	9.00	1593	162448-00	56	4000K - 7560lm - CRI≥80

Total power consumption: 47W, 62W.



Diffuser: impact-resistant and etched tempered glass.



995 Forma - LED						
		CLD CELL			LED (Tj=25°C)	
wattage (116mA)	colour	weight	L	code	W	K - ølm - CRI
LED	s. silver	7.20	1293	162445-00	44	4000K - 5670lm - CRI≥80
LED	s. silver	9.00	1593	162446-00	56	4000K - 7560lm - CRI≥80

Total power consumption: 47W, 62W.



WATER-PROOF



Fixture housing: galvanized steel previously stove-enamelled with UV-stabilised white polyester resin; rounded edges to prevent cutting; polycarbonate end caps.

Standard supply: nylon fastening pawl.

LED:

Power factor ≥ 0.9
 Power consumption:
 art. 6402 14W, 29W, 36W
 art. 6502 29W, 58W, 70W
 Luminous flux maintenance 80%
 50000h (L80B20)

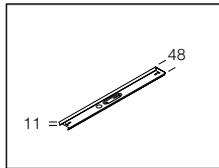
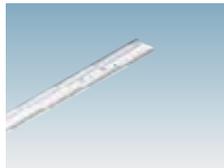
The LED tubes can be rotated to adjust light and therefore optimise the performance of optic accessories.



Accessories Rapid System

acc. 6405 upper cover	
1/2x13W	237603-46
1x26W	237617-00
1x32W	237613-00
2x26W	237624-00
2x32W	237625-00

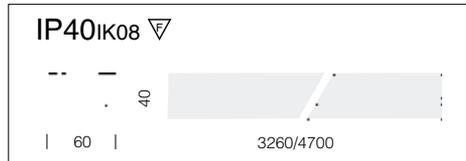
White steel. For ceiling mounting.



ACCESSORIES:
 for mechanical accessories, joints and suspensions, refer to the Disano catalogue or visit the website: www.disano.it

6000 Rapid system - track			
		S	
length	colour	weight	code
3260	white	3.25	132900-00
4700	white	4.70	132923-00

Designed to be quickly attached to the Rapid System series luminaires.

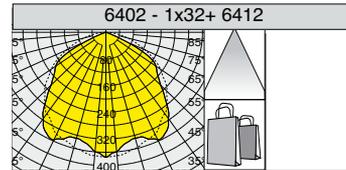
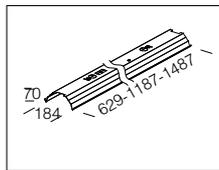
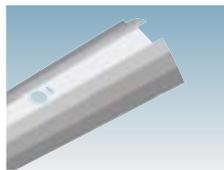


Provision for cable management

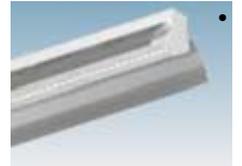


acc. 6412 wide-beam	
L=629	237729-00
L=1187	237730-00
L=1487	237731-00

Polished matt gloss aluminium 99.85, anodized 2 μ .

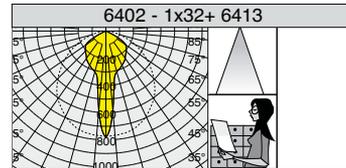
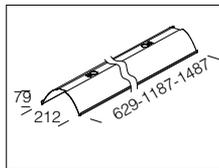
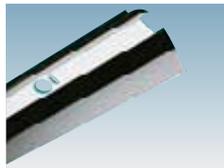


• = application examples



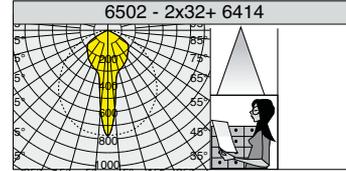
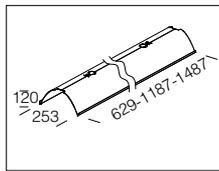
acc. 6413 narrow-beam one/lamp	
L=629	237732-00
L=1187	237733-00
L=1487	237736-00

Polished high-gloss aluminium 99.85, anodised 2 μ .



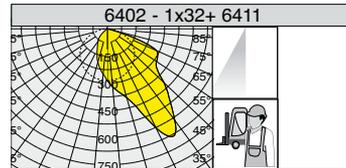
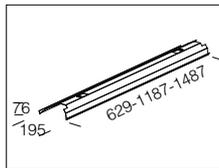
acc. 6414 narrow-beam two-lamp	
L=629	237766-00
L=1187	237764-00
L=1487	237765-00

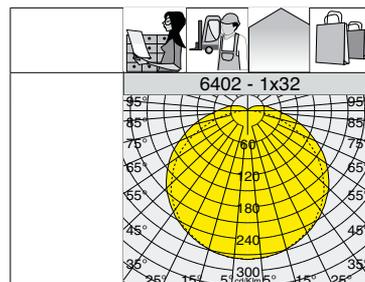
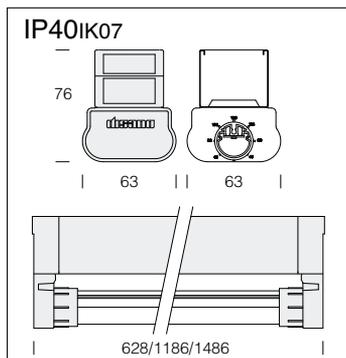
Polished high-gloss aluminium 99.85, anodised 2 μ .



acc. 6411 asymmetric reflector	
L=629	237623-00
L=1187	237619-00
L=1487	237622-00

Polished high-gloss aluminium 99.85, anodised 2 μ .

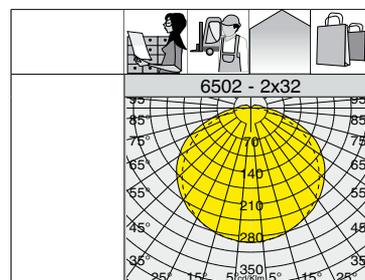
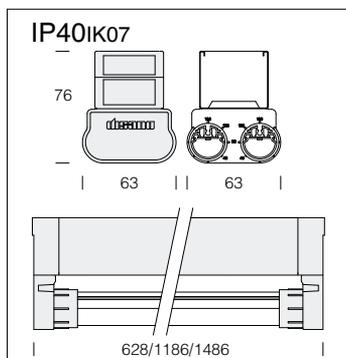




LED module: support in natural anodized extruded aluminium. Micro-fluted diffuser in methacrylate.

On request: 3000K versions, DIMM 1-10V and DALI.

6402 Rapid System - LED 1x										
one lamp	couleur	CLD CELL			CLD CELL-E			W	LED (Tj=25°C)	
		weight	L	code	weight	L	code		K - ølm - CRI	
LED 1x	white	1.10	628	237521-00				13	4000K - 1620lm - CRI 83	
LED 1x	white	1.30	1186	237522-00	1.80	1186	237522-09	26	4000K - 3240lm - CRI 83	
LED 1x	white	1.50	1486	237523-00	2.00	1486	237523-09	32	4000K - 4050lm - CRI 83	



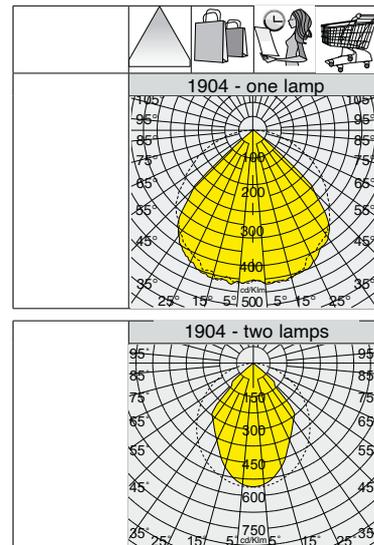
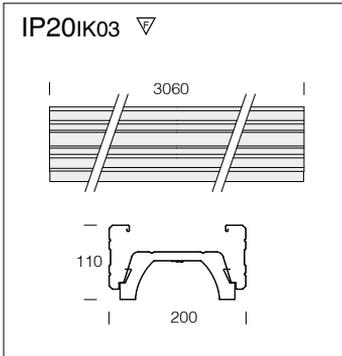
LED module: support in natural anodized extruded aluminium. Micro-fluted diffuser in methacrylate.

On request: 3000K versions, DIMM 1-10V and DALI.

6502 Rapid System - LED 2x										
wattage	colour	CLD CELL			CLD CELL-E			W	LED (Tj=25°C)	
		weight	L	code	weight	L	code		K - ølm - CRI	
LED 2x	white	1.10	628	237541-00				26	4000K - 3240lm - CRI 83	
LED 2x	white	1.30	1186	237542-00	1.80	1186	237542-09	52	4000K - 6480lm - CRI 83	
LED 2x	white	1.50	1486	237543-00	2.00	1486	237543-09	64	4000K - 8100lm - CRI 83	

SUSPENSION





Housing: galvanized rolled steel previously stove-enamelled with UV-stabilised white polyester resin applied after a phosphate treatment. With rounded profile to eliminate sharp edges.

Reflector: Satin aluminium. Not suitable for installation on ceiling.

1904 Super - LED 1x (1)					
		CLD CELL		LED (Tj=25°C)	
wattage (116mA)	colour	weight	code	W	K - ølm 116mA - CRI
LED 1x	white	9.00	124340-00	56	4000K - 7560lm - CRI≥80

On request: 3000K versions, DIMM 1-10V or DALI.



1904 Super - LED 2x (2)					
		CLD CELL		LED (Tj=25°C)	
wattage (87mA)	colour	weight	code	W	K - ølm 87mA - CRI
LED 2x	white	9.00	124341-00	90	3000K - 10954lm - CRI≥80

Accessories Super

acc. 1925 linear joint

galvanized	994649-00
------------	-----------

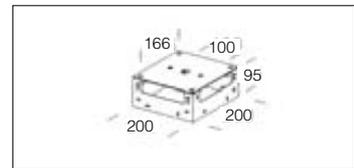
Made of galvanized steel . For suspension, continuous line or jointing of two fixtures, or used with acc. 1919 for "T" and cross jointing.



acc. 1911 cube

white	994641-00
-------	-----------

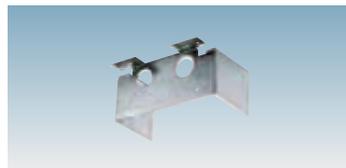
Made of steel. For joining of up to 4 fixtures. Supplied with two end caps. To be used with acc. 1914.



acc. 1919 angle joint

galvanized	994638-00
------------	-----------

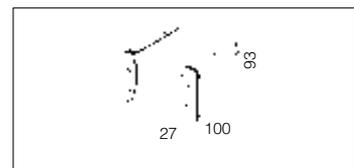
Made of galvanized steel . For angle and T jointing.



acc. 1914 connecting bracket

galvanized	994637-00
------------	-----------

Made of galvanized steel . To be used with the cube acc. 1911. **2 per pack.**



acc. 1924 end cap

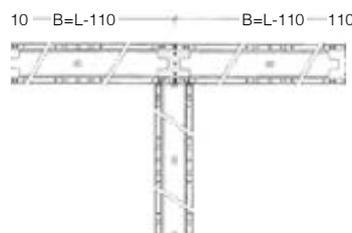
white	994636-00
-------	-----------

Made of white ABS. To be used as an end cap on modules when using acc. 1919/1925. **2 per pack.**

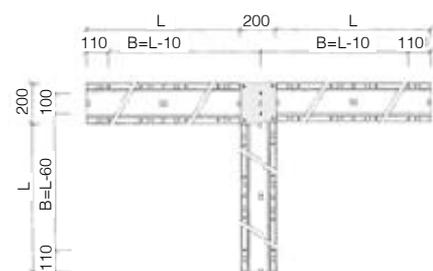


Super's great flexibility permits maximum freedom in designing any shape and layout.

Since it requires only a few mounting points, it is extremely easy and rapid to install providing excellent time savings.

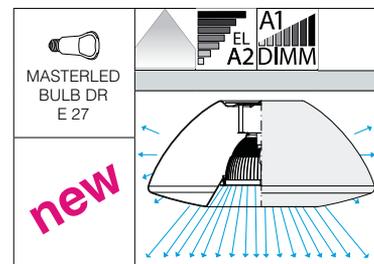
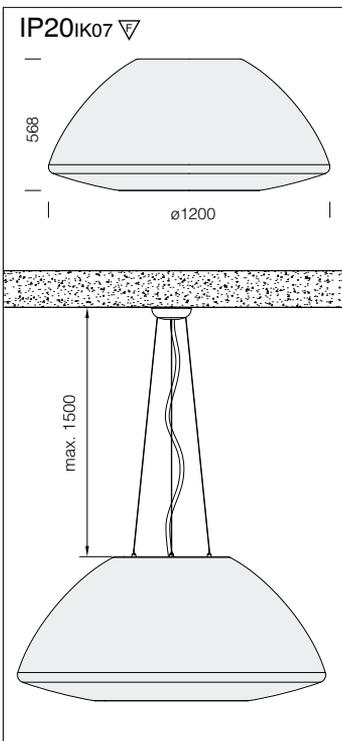


B = Spacing for suspensions
L = Length of modules



SUSPENSION





12W dimmable LED Bulb
 Very well-suited for the general lighting of public and reception spaces, especially lobbies, corridors or stairways, where lights stay on all day.

MASTERLED BULB	ALO
12W	60W
25.000h	1000h



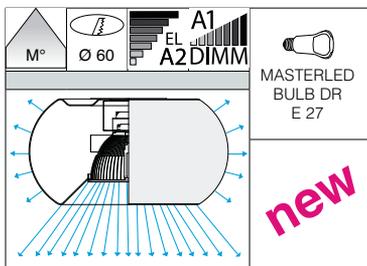
Minerva - MASTERLED Bulb + LED cambia de color

wattage/W	color	CLD CELL-D		LED
		weight	code	K - ølm - CRI
MASTERLED Bulb 12W + LED white	white	15,00	22213011-00	2700K - 806lm - CRI 80 + 3000K - 4000K - 6000K
COB 3000 + LED white	white	15,00	22213111-00	3000K - 3000lm - CRI 80 + 3000K - 4000K - 6000 K

Minerva - MASTERLED Bulb + LED RGBW

wattage/W	colour	CLD CELL-D		LED (Ta=25°C)
		weight	code	K - ølm - CRI
MASTERLED Bulb 12W + LED RGBW	white	14,20	22213010-00	2700K - 806lm - CRI 80
COB 3000 + LED RGBW	white	14,20	22213110-00	3000K - 3000lm - CRI 80

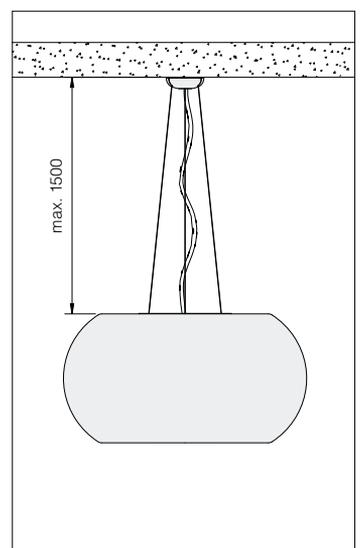
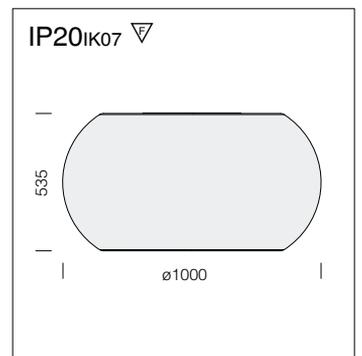
Is a large suspension lamp made of plastic, is an original lighting system that is particularly ideal for where next to white light, which is more suitable for use during the day, LED lights offer a wide range of colour schemes



12W dimmable LED Bulb

Very well-suited for the general lighting of public and reception spaces, especially lobbies, corridors or stairways, where lights stay on all day.

MASTERLED BULB	ALO
12W	60W
25.000h	1000h



Venere - MASTERLED Bulb + LED white color changing				
		CLD CELL-D		LED (Ta=25°C)
wattage/W	colour	weight	code	K - ølm - CRI
MASTERLED Bulb 12W + LED white	white	15,00	22212911-00	2700K - 806lm - CRI 80 + 3000K - 4000K - 6000K
COB 3000 + LED white	white	15,00	22212711-00	3000K - 3000lm - CRI 80 + 3000K - 4000K - 6000 K

Venere - MASTERLED Bulb + LED RGBW				
		CLD CELL-D		LED (Ta=25°C)
wattage/W	colour	weight	code	K - ølm - CRI
MASTERLED Bulb 12W + LED RGBW	white	14,20	22212910-00	2700K - 806lm - CRI 80
COB 3000 + LED RGBW	white	14,20	22212710-00	3000K - 3000lm - CRI 80



DMX SYSTEM

DMX SYSTEM: the system allows to control dmx through DOP controller 22090867-00 or management software DMX 22090863-00 an unlimited number of VENERE DMX for changing color of the body diffusing RGB. With the DMX SYSTEM can be achieved:

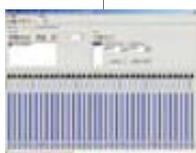
- random mixing of colours for more VENERE
- same colour control for more VENERE

For control of a large number of luminaires (> 16): code 22092052-00 (amplifier DMX)

CONTROLLER LED D.O.P
22090867-00



PROGRAMMING SOFTWARE DMX
22090863-00



□□220/240V
50-60Hz

□□220/240V
50-60Hz

□□220/240V
50-60Hz

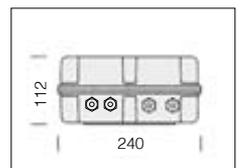
DMX

DMX

DMX

DMX signal regenerator

20W	22092052-00
DMX signal regenerator with 24V, 20W power supply. Supplied with in-out wire connection (one going in, four going out) to DMX terminal. To be used after acc. 22092051-00 n. 20.	



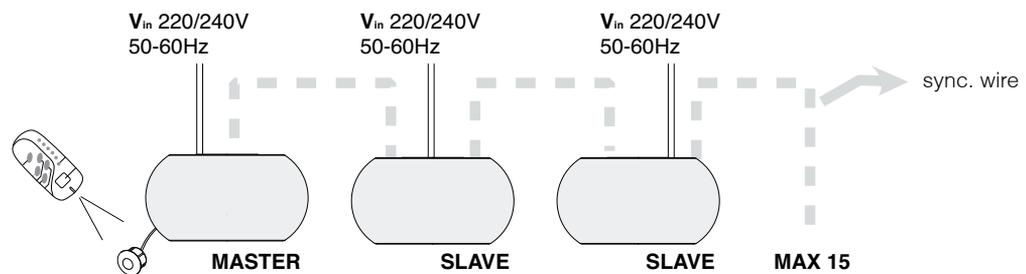
MASTER/SLAVE

FEATURES:

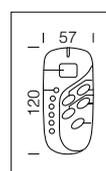
- standard version included with the program changes color pre-set

- can mix light colours
Remote control (On-Off function, mixing and colour transition) cod. 22099023-00 et Receiver IRE cod. 22099050-00.

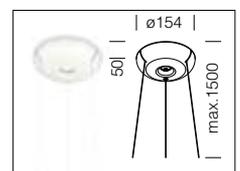
Possibility of synchronization between multiple VENERE mode MASTER / SLAVE (max 15 SLAVE). In the order, specify VENERE with Slave settings.



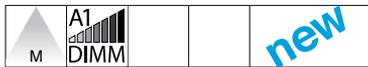
Remote control for receiver IRE
22099023-00
Control work a distance of up to 10/15 m.
IRE receiver
22099050-00



Suspension
aluminium 22003265-00
With three steel cables.



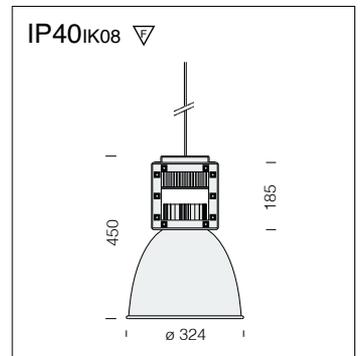
SUSPENSION



3000K ideal for colors + **4000K** ideal for white

SLM Crisp (50,000 hrs L70/B50)
Single LED light source with a unique combination of both colour temperatures.

LED sources for shop lighting. SLM Crisp reproduces exactly the colours of the clothes on display, allowing whites to appear pure and bright and colours more vivid and intense.

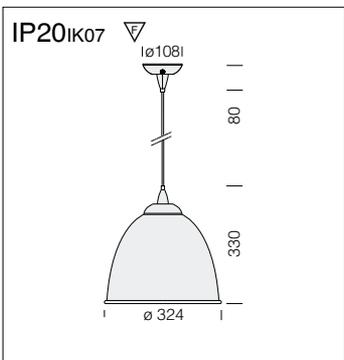


Housing: in die-cast aluminium with cable box embedded into the frame structure.

Diffuser: Turned anodised and polished aluminium.

Compendio A - SLM Crisp

		CLD CELL-D		LED (Ta=25°C)	
wattage/W	colour	weight	code	W	K - ølm - CRI
SLM Crisp	white	6,00	22221310-00	33	3000K - 3000lm - CRI 80
Luminous flux maintenance L70B50: 50.000h. Power factor >0.9					



Equipment: cable length 5.0m
Diffuser: Metallized inside and painted outside.
LED: Luminous flux maintenance



MASTERLED Bulb 12W	M	220-240V	
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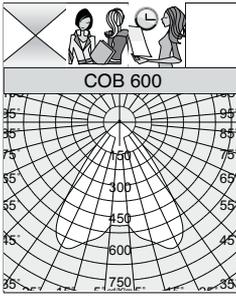
12W dimmable LED Bulb
 Very well-suited for the general lighting of public and reception spaces, especially lobbies, corridors or stairways, where lights stay on all day.

MASTERLED BULB	ALO
12W	60W
35.000h	1000h

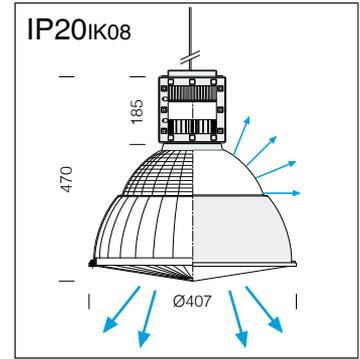


Compendio S - MASTERLED Bulb					
		CLD S+L		W	LED (Ta=25°C)
wattage/W	colour	weight	code		K - ølm- CRI
MASTERLED Bulb	m. silver	3.40	22221370-00	12	2700K - 806lm- CRI 80
Luminous flux maintenance L70B50: 35.000h. Power factor >0.9					





new

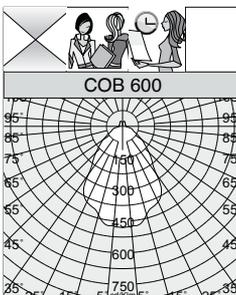



Diffuser: all in clear polycarbonate with anti-glare silking. Prismatic faceting inside for better light control and metallized with a C.V.D. high vacuum process using high grade aluminium powders with a non-scratch and finger mark-proof.

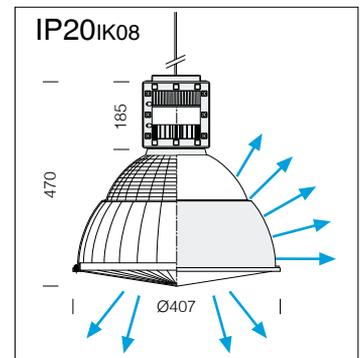
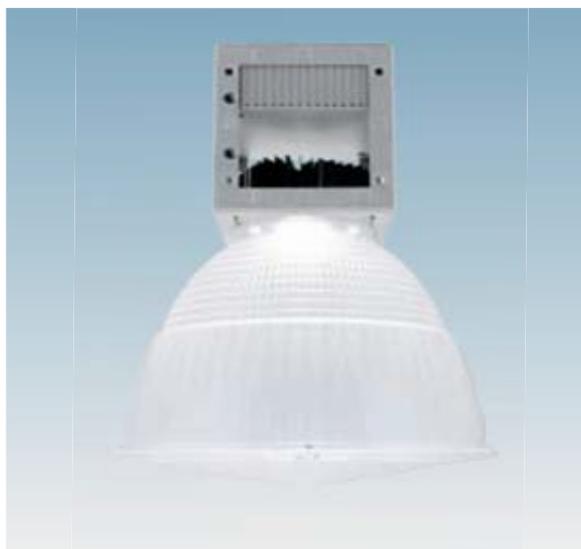
Compendio G1 - metallic diffuser							
wattage/W	colour	CLD CELL		CLD CELL-D		W	LED (Ta=25°C)
		weight	code	weight	code		K - ølm - CRI
COB 4700 LG	silver	6,00	22221177-00	6,00	22221177-12	46	3000K - 4500lm - CRI 80
SLM CRISP	silver	6,00	22221077-00	6,00		33	3000K - 3000lm - CRI>90
COB 6000 CREE	silver	6,00	22222077-00	6,00	22222077-12	52	3000K - 6000lm - CRI 80
COB 6000 CREE	silver	6,00	22222177-00	6,00	22222177-12	52	4000K - 6000lm - CRI 80

Housing: in die-cast aluminium with cable box embedded into the frame structure.





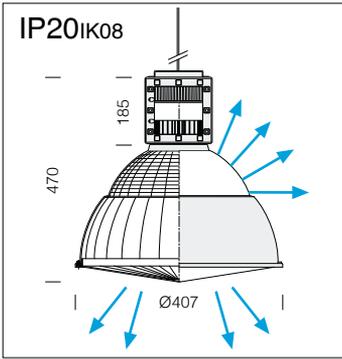
new

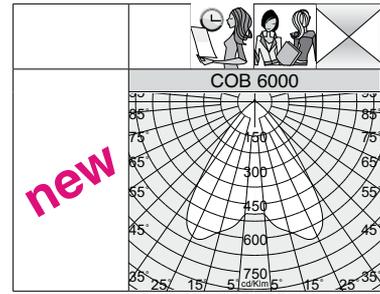
Diffuser: all in clear polycarbonate with anti-glare silking. Prismatic faceting inside for better light control.

Compendio G1 - silked diffuser							
wattage/W	colour	CLD CELL		CLD CELL-D		W	LED (Ta=25°C)
		weight	code	weight	code		K - ølm - CRI
COB 4700 LG	silver	6,00	22221178-00	6,00	22221178-12	46	3000K - 4500lm - CRI 80
SLM CRISP	silver	6,00	22221078-00	6,00		33	3000K - 3000lm - CRI>90
COB 6000 CREE	silver	6,00	22222078-00	6,00	22222078-12	52	3000K - 6000lm - CRI 80
COB 6000 CREE	silver	6,00	22222178-00	6,00	22222178-12	52	4000K - 6000lm - CRI 80

Housing: in die-cast aluminium with cable box embedded into the frame structure.



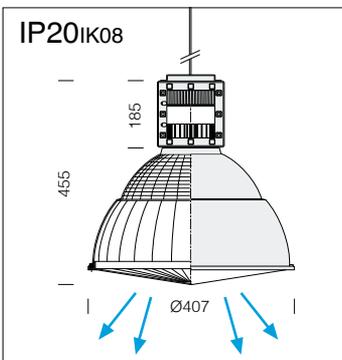
Diffuser: in clear polycarbonate and micro-satin finish. Metallized on the inside with a non-scratch and finger mark-proof CVD high vacuum process, using high grade aluminium powder.



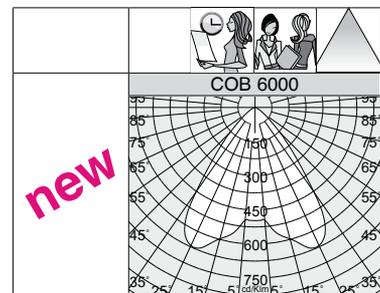
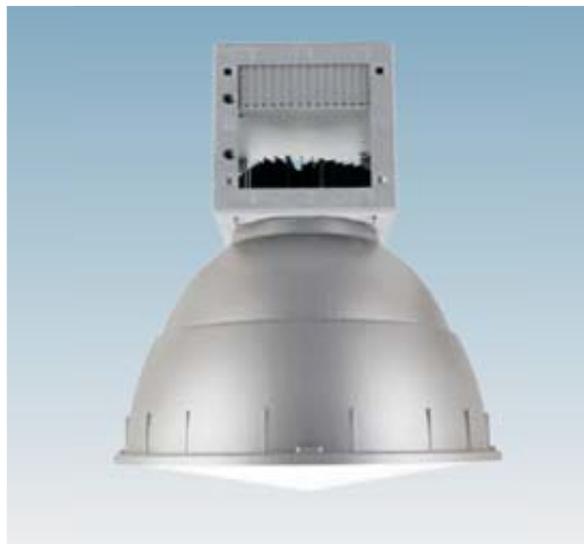
Compendio G1 - direct / indirect light

wattage/W	colour	CLD CELL		CLD CELL-D		W	LED (Ta=25°C)	
		weight	code	weight	code		K - ølm - CRI	
COB 4700 LG	silver	6,00	22221176-00	6,00	22221176-12	46	3000K - 4500lm - CRI 80	
SLM CRISP	silver	6,00	22221076-00	6,00		33	3000K - 3000lm - CRI>90	
COB 6000 CREE	silver	6,00	22222076-00	6,00	22222076-12	52	3000K - 6000lm - CRI 80	
COB 6000 CREE	silver	6,00	22222176-00	6,00	22222176-12	52	4000K - 6000lm - CRI 80	

Housing: in die-cast aluminium with cable box embedded into the frame structure.



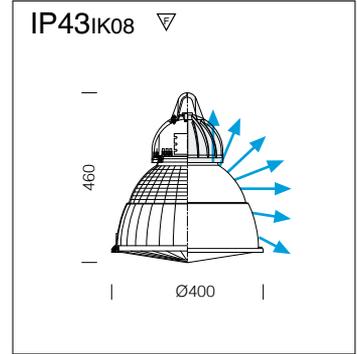
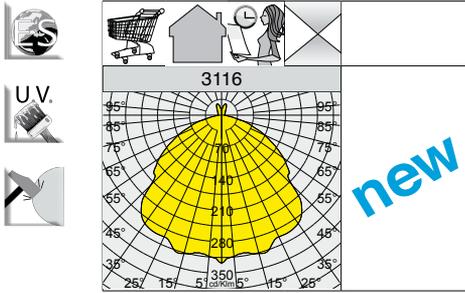
Diffuser: all in clear polycarbonate with anti-glare silking. Prismatic faceting inside for better light control. Smooth dust-proof, impact resistant finish and painted outside.



Compendio G1 - painted diffuser

wattage/W	colour	CLD CELL		CLD CELL-D		W	LED (Ta=25°C)	
		weight	code	weight	code		K - ølm - CRI	
COB 4700 LG	silver	6,00	22221179-00	6,00	22221179-12	46	3000K - 4500lm - CRI 80	
SLM CRISP	silver	6,00	22221079-00	6,00		33	3000K - 3000lm - CRI>90	
COB 6000 CREE	silver	6,00	22222079-00	6,00	22222079-12	52	3000K - 6000lm - CRI 80	
COB 6000 CREE	silver	6,00	22222179-00	6,00	22222179-12	52	4000K - 6000lm - CRI 80	

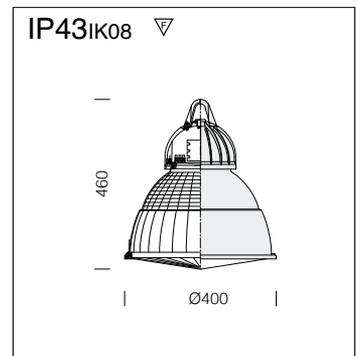
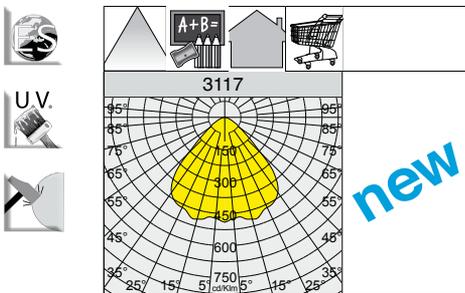
Housing: in die-cast aluminium with cable box embedded into the frame structure.



Housing: in die-cast aluminium, with wide cooling fins.

Diffuser: all in clear polycarbonate with anti-glare silking. Prismatic faceting inside for better light control.

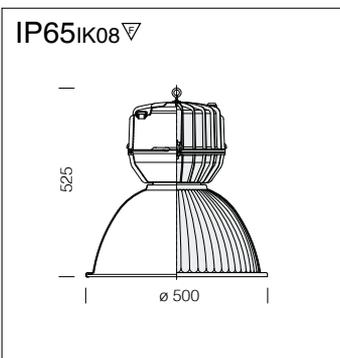
3116 Ghost - prismatic diffuser					
		CLD CELL		W	LED (Tp=25°C)
wattage	colour	weight	code		K - ølm - CRI
LED	s. silver	4.00	322928-00	25	4000K - 3000lm - CRI≥80
LED	s. silver	4.00	322929-00	40	4000K - 5000lm - CRI≥80



Housing: in die-cast aluminium, with wide cooling fins.

Diffuser: all in clear polycarbonate with anti-glare silking. Prismatic faceting inside for better light control. Smooth dust-proof and impact resistant finish outside, vandal-resistant and V2 self-extinguishing, UV-stabilised with a non-scratch and finger mark-proof.

3117 Ghost - painted diffuser					
		CLD CELL		W	LED (Tp=25°C)
wattage	colour	weight	code		K - ølm - CRI
LED	s. silver	4.00	323128-00	25	4000K - 3000lm - CRI≥80
LED	s. silver	4.00	323129-00	40	4000K - 5000lm - CRI≥80



Housing: die-cast aluminium with wide cooling fins.

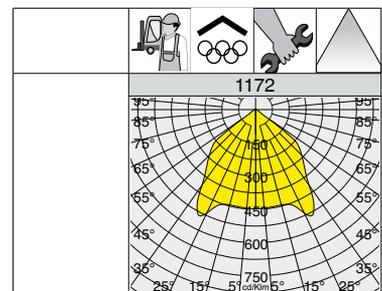
Reflector: pressed prismatic aluminium, anodised (3µ) and polished for higher luminous efficiency.

Diffuser: 5 mm thick, thermal shock and impact resistant protective tempered glass and vandal resistant.

Standard supply: complete with IP67 airtight connector for mains connection.

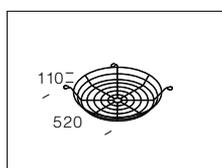
On request: 4000K - CRI80

LED:
Power factor $\geq 0,9$
Luminous flux maintenance 70%
50000h (L70B50)



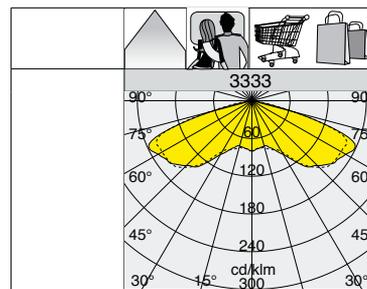
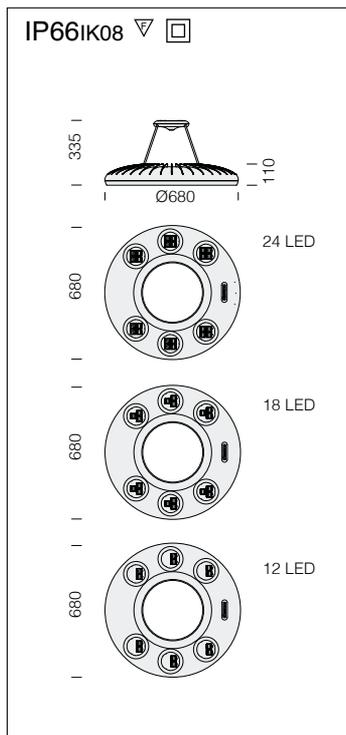
- RG0
- +40°C
- 20°C
- U.V.
-

1172 Argon - COB				
		CLD CELL		LED (Tp=25°C)
wattage	colour	weight	code	K - ølm - CRI
LED COB	s. silver	9.00	322650-00	5000K - 14000lm - CRI >70
LED COB	s. silver	9.00	322651-00	4000K - 12000lm - CRI >80



acc. 1122 protection guard	
0.60	321012-00
Black plastic-coated steel rod protection guard. Screw mounting.	





3333 Disco 4 LED - suspension					
		CLD CELL		LED (Tj=85°C)	
wattage 530mA	colour	weight	code	W	K - ølm 530mA - CRI
LED	s. silver	11.50	330030-00	72	4000K - 9048lm - CRI 80
LED	s. silver	11.50	330031-00	108	4000K - 13572lm - CRI 80
LED	s. silver	12.70	330032-00	144	4000K - 18096lm - CRI 80

On request: possibility for the various options for managing the supply point (see table on p. XVII).

Housing and frame: pressed in die-cast aluminium and designed with a very small surface exposed to wind. Cooling fins are integrated into the cover.

Suspension connection: version with connector for suspension.

Diffuser: extra-clear tempered glass, 4 mm thick, resistant to thermal shocks and impacts (UNI-EN 12150-1: 2001).

Coating: the first stage includes grey epoxy e-coating, resistant to corrosion and saline environments. Then the fixture is coated with an anthracite acrylic based UV-stabilised resin.

Equipment: In case extraordinary maintenance is needed, the product is supplied with double insulation switch that cuts off electricity when the cover is opened. Automatic temperature control device. In the event of an unexpected LED temperature rise caused by particular weather conditions or a LED failure, the system will reduce the luminous flux to lower the working temperature and guarantee proper operation. Safety diode to protect against voltage peaks.

Standard supply: Supplied with double insulation switch that cuts off electricity when the cover is opened.

LED: Power factor $\geq 0,9$
Luminous flux maintenance 80%
50000h (L80B50).



Photometric performance: designed with an optical system capable of controlling the potential glare created by the growing light intensity of LEDs while achieving high photometric performance.

Heat sink: the heat dissipation system is specially designed and made to allow the operation of the LED lights with temperatures ensuring excellent performance/efficiency and durability.





Housing/Frame: in die-cast aluminium with cooling fins integrated into the cover and designed with a very small surface exposed to wind.

Diffuser: tempered glass, 4 mm thick, resistant to thermal shocks and impacts (UNI-EN 12150-1: 2001).

Coating: polyester resin for powder coating, resistant to corrosion and saline environments.

Standard supply: temperature control inside the device with automatic resetting. Safety diode to protect against voltage peaks compliant with EN 61547. Safety diode to protect against voltage peaks. Supplied with a safety diode to protect against peak loads.

LED:
 -Luminous flux maintenance 70%
 50000h (L70B20)
 Power factor ≥0,9



fixture	room	LUX	Qty	P tot W	Energy saving
Astro (16 LED)	60m x 40m x 6m	232	50	6350	54%
Reflector JM-E 250W	60m x 40m x 6m	209	50	13900	
fixture	room	LUX	Qty	Ptot	Energy saving
Astro (32 LED)	60m x 40m x 8m	347	45	11295	39%
Reflector JM-E 400W	60m x 40m x 8m	353	45	18607	

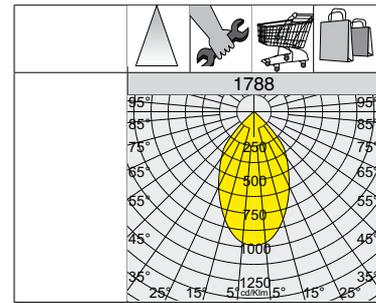
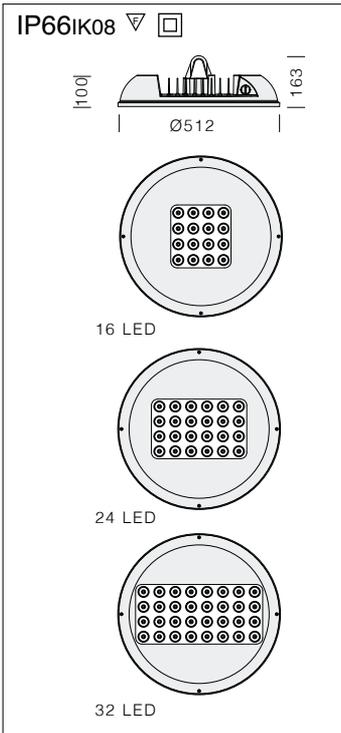
Photometric performance: designed with an optical system capable of controlling the potential glare created by the growing light intensity of LEDs while achieving high photometric performance.

Energy saving: the comparison shows how Astro can save more energy compared to conventional discharge lamps and meet applicable standards.

We recommend using LED technology to save energy in environments where lights stay on for a long time.



On request: Presence sensor or light sensor to wall or ceiling (see acc. Catalogs Disano).



1788 Astro - suspension - narrow beam

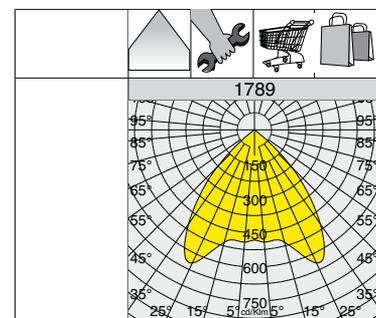
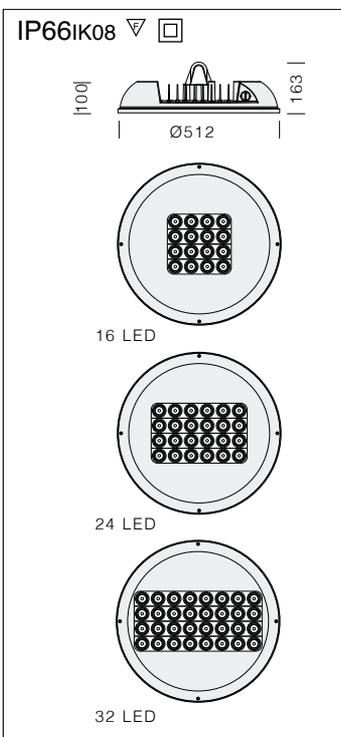
wattage 700mA	colour	CLD CELL-D		W	LED (T _j =85°C)
		weight	code		K - ølm 700mA - CRI
LED	s. silver	11.20	330080-00	127	4000K - 15680lm - CRI 80
LED	graphite	11.20	330083-00		
LED	s. silver	11.35	330081-00	188	4000K - 23520lm - CRI 80
LED	graphite	11.35	330084-00		
LED	s. silver	11.50	330082-00	251	4000K - 31360lm - CRI 80
LED	graphite	11.50	330085-00		

On request: possibility for the various options for managing the supply point (see table on p. XVII).

LED: in high-performance metallic V0 polycarbonate with micro-faceted finish. LEDs with lens combined with flux recovery system.

Standard 1-10V dimmer, dimmable from 10% to 100%

-
-
- RG0**
-
- +40
°C
-30
-
- U.V.**
-
- A1
DIMM**
-
-



1789 Astro - suspension - wide beam

wattage 700mA	colour	CLD CELL-D		W	LED (T _j =85°C)
		weight	code		K - ølm 700mA - CRI
LED	s. silver	11.20	330090-00	127	4000K - 15680lm - CRI 80
LED	graphite	11.20	330093-00		
LED	s. silver	11.35	330091-00	188	4000K - 23520lm - CRI 80
LED	graphite	11.35	330094-00		
LED	s. silver	11.50	330092-00	251	4000K - 31360lm - CRI 80
LED	graphite	11.50	330095-00		

On request: possibility for the various options for managing the supply point (see table on p. XVII).

LED: in high-performance metallic V0 polycarbonate with micro-faceted finish. LEDs with lens combined with flux recovery system.

Standard 1-10V dimmer, dimmable from 10% to 100%

-
-
- RG0**
-
- +40
°C
-30
-
- U.V.**
-
- A1
DIMM**
-
-



Frozen fish
Frozen poultry

36

Ice cream
Frozen desserts

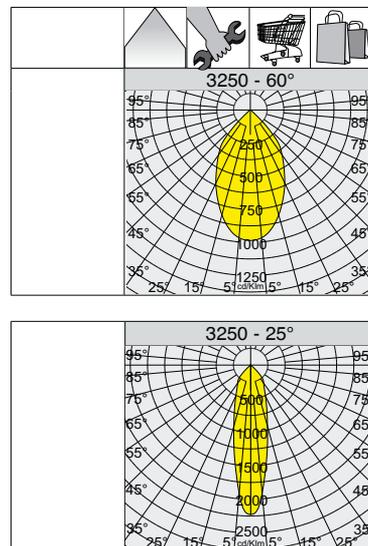
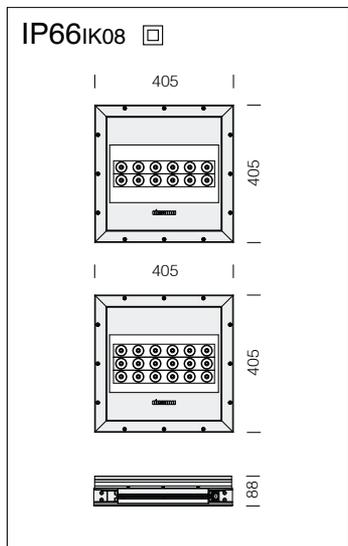
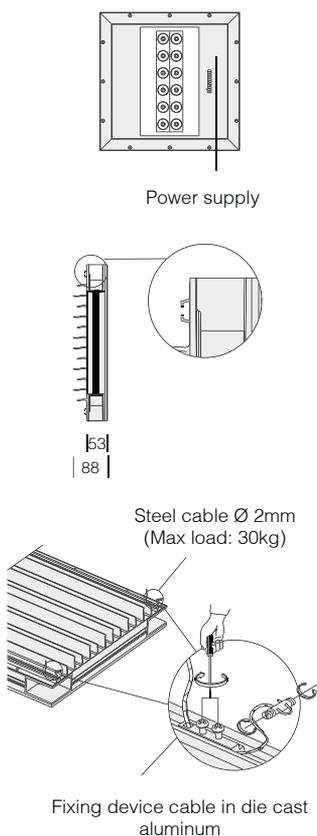
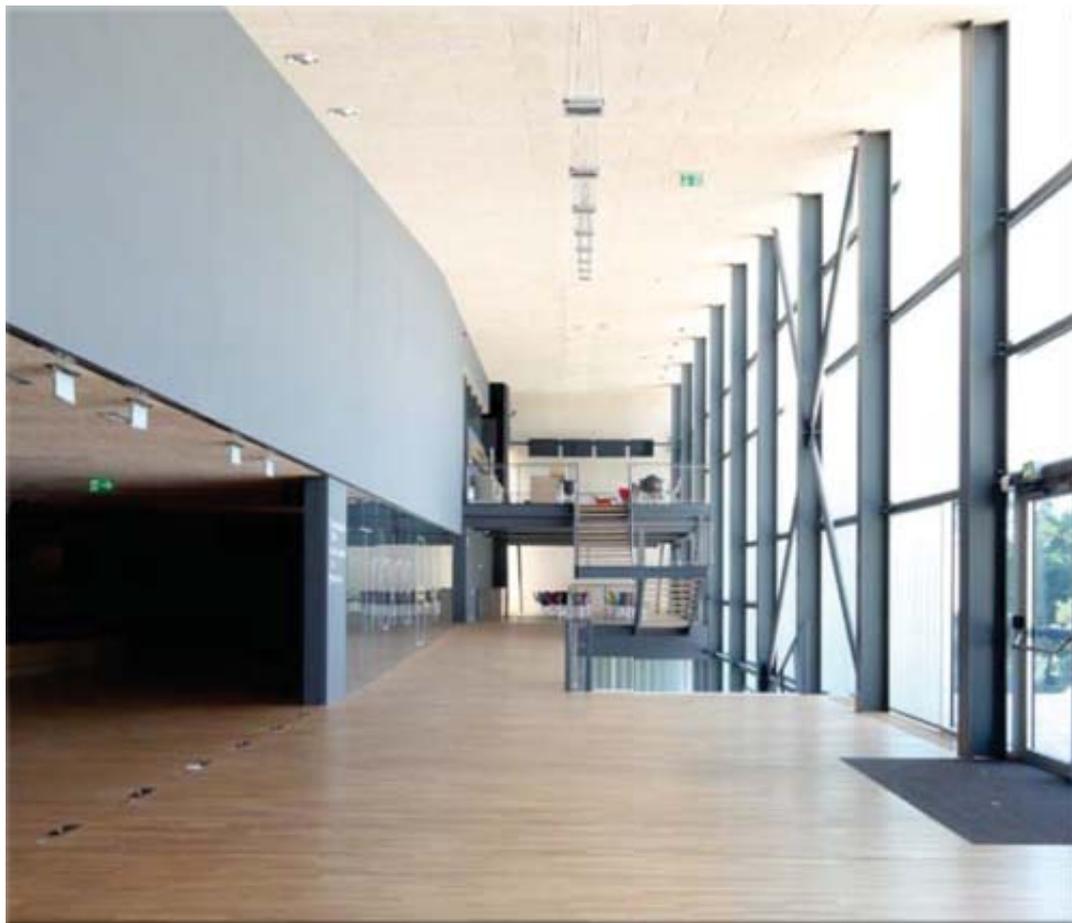
Prawns & Scampi
Ereoded fish
Fish fingers
Fish in sauce

with reports **7** Top-ups

Fishmonger

2 2

Handheld Ice Cream
Ice cubes

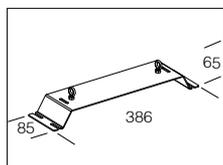


Housing: in extruded aluminium with incorporated heat-sink to guarantee LED durability. Supplied with double insulation switch that cuts off electricity when the cover is opened.

Heat sink: the heat dissipation system is specially designed and made to allow the operation of the LED lights with temperatures ensuring excellent performance/efficiency and durability.

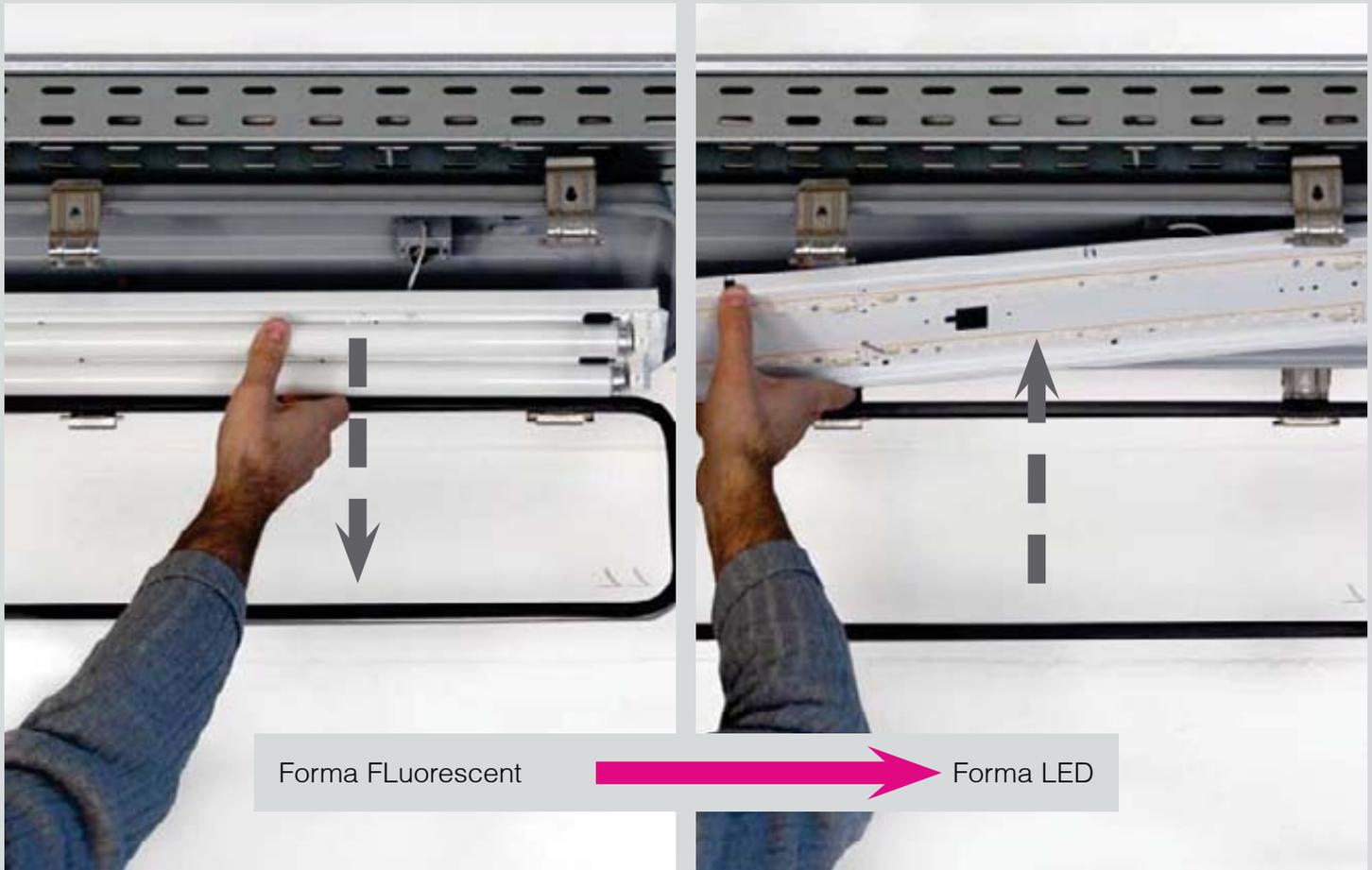
LED: Luminous flux maintenance 70% 50000h (L70B20). Power factor $\geq 0,9$

3250 Modoled - suspension					
		CLD CELL		LED (Tj=85°C)	
wattage	colour	weight	code	W	K - ølm - CRI - degrees
LED	oxi. nat.	12.00	330103-00	94	4000K - 11760lm - CRI 70 - 60°
LED	oxi. nat.	13.00	330104-00	141	4000K - 17640lm - CRI 70 - 60°
LED	oxi. nat.	12.00	330105-00	94	4000K - 11760lm - CRI 70 - 25°
LED	oxi. nat.	13.00	330106-00	141	4000K - 17640lm - CRI 70 - 25°



acc. 534 suspension	
inox	998101-00
In stainless steel. For suspension with chain.	





The LED reflector for direct replacement of the fluorescent tubes in the Forma product. Keep your steel ceiling fixture and save up to 50% !

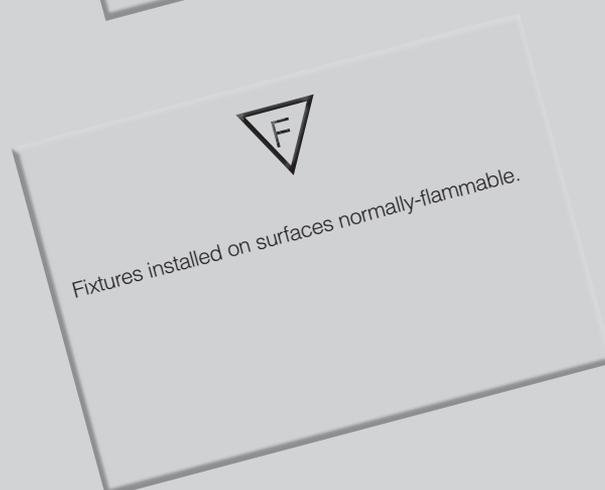
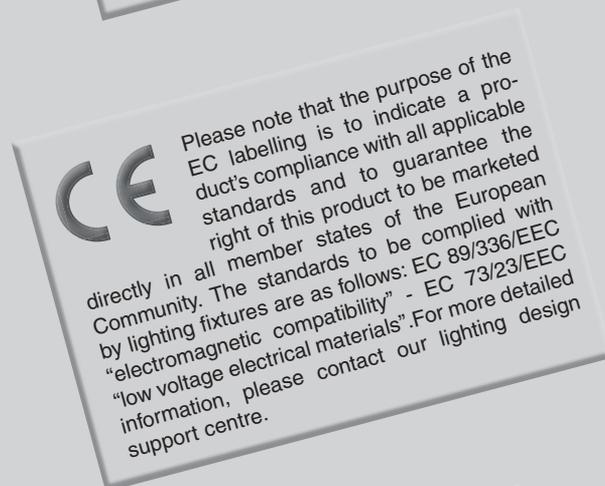
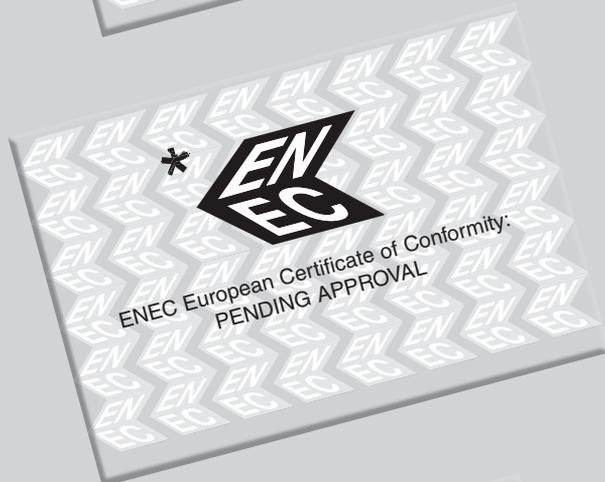
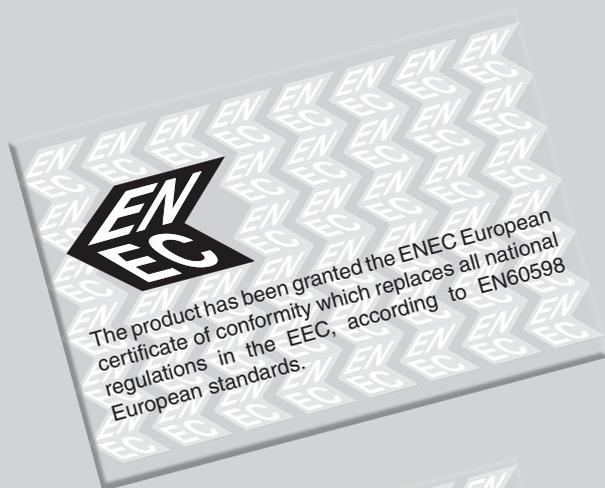


LED

- Power factor: $\geq 0,9$
- LED module efficiency: 128/135 lm/W
- Luminous flux: 5670 lm, 7560 lm
- Power consumption: 47W, 62W
- Colour rendering index: ≥ 80
- Luminous flux maintenance 80%: 50000h (L80B20)
- Colour temperature: on request 3000K and 6000K

LED Reflector				
		CLD CELL	LED (Tj=25°C)	
wattage/W	L	codice	W	K - ølm - CRI
LED	1293	162445-16	44	4000K - 5670lm - CRI \geq 80
LED	1593	162446-16	56	4000K - 7560lm - CRI \geq 80

LED Reflector - with matt glass				
		CLD CELL		
	L	codice		
LED + glass	1293	162445-0049		
LED + glass	1593	162446-0049		



CSQ/IQNET marking is valid all over the world.

It shows that the company has obtained the Company's Quality System certification as regards the design, production and marketing of lighting fixtures and accessories.

The reference standard is UNI EN ISO 9001/IQNET and UNI EN ISO 9002/ IQNET.



Indicates that a product can freely circulate within the European Community. It certifies that the product complies with essential safety regulations. All Disano products comply with the EC89/336/EEC "electromagnetic compatibility" and with the EC73/23/EEC "low-voltage" standards. Therefore they comply with EMC regulations (electronic compatibility).

In the DISANO catalogue, there are some items, generally the more recent ones, that have two numbers (a subcode) at the end of the classical 6-digit code. These subcodes indicate the product type of wiring. Therefore, it is very important when making an order to write the complete DISANO code, including the subcode, which carries the following meaning:

00 = basic article

07 = article supplied with Emergency group

08 = article supplied with Electronic wiring

09 = article supplied with Electronic+Emergency gear

12 = article with dimmable electronic wiring

30 = article with bi-power version

54 = article supplied complete with ON/OFF switch

92 = article with on/off switch and electric socket

0016 = non-polluting luminous article, the products are manufactured in compliance with regional Italian laws

0041 = article with digital dimmable electronic control gear

0078 = lighting fitting with remote control system

0092 = articles with the incorporated multi-sensor

0093 = Upon request: version with IP68 protection with gel watertight system at the bottom of the fixture

2191 = fixture in corten colour

3078 = lighting fitting with bi-power gear and remote control system.

	I.M.Q. approval for wired fixture. All fixtures comply with CEI Italian safety standards corresponding to EN60598 European standards.		SCHOOLS: classrooms, lecture rooms, laboratories, meeting rooms UNI EN 12464		Wiring for LED		Fixture built with recyclable materials (excluding lamps and batteries).
IP...	International Protection: The IP prefix followed by two figures indicates the level of resistance of the fixture to penetration by solids and liquids. Protection rating (published in EN60529) parts		OPEN SPACES: Offices, large areas, public areas, waiting rooms UNI EN 12464		As above but with lamp		Fixture equipped with 0-90° protractor scale for aiming. Security dowels or rack with screw.
IP20	Protection against solid bodies Ø >12 mm only		ART AND CULTURE: Cinemas, theatres, museums, galleries, churches, libraries, auditoriums, monuments UNI EN 12464		As above but with lamp As above but wiring + LED + transformer		Minimum and maximum operating temperature. Ask for specific product temperature to our technical offices.
IP23	Protection against solid bodies Ø >12 mm and rain		COMMON AREAS: corridors, stairs, lifts UNI EN 12464		As above, but with LED		UV-stabilised coating, anti-yellowing. Fixture built with stabilised materials.
IP40	Protection against solid bodies Ø > 1 mm only		COMMERCIAL CENTRES: Shops, show rooms, shop windows, supermarkets, airports. UNI EN 12464		The unit is supplied with dimming + LED		Fixture surface area exposed to the wind.
IP43	Protection against solid bodies Ø > 1 mm and rain		LARGE-SCALE DISTRIBUTION: Shopping centres, supermarkets, hypermarkets		WATERPROOF FIXTURES Polycarbonate fixtures of the Echo series are IP66 water-resistant if installed at temperatures not exceeding 45°C. Direct exposure to sunlight can easily cause the temperature to exceed 45°C, which affects the degree of protection. However, it is recommended that these fixtures are used properly without altering their mechanical and protection properties (IP65/66); they should not be installed on surfaces subject to strong vibrations, outdoors on ropes or stakes; whenever this is necessary, waterproof steel fixtures should be used.		Ceiling light fixture fitted with lamps and baffle film protection
IP44	Protection against solid bodies Ø > 1 mm and water sprays		MALLS: General shops, goods displays, shop windows, supermarkets, airports, shop facades UNI EN 12464				Built with materials that are highly resistant to acid and toxic gas corrosion.
IP54	Protection against dust and water sprays		FOOD INDUSTRY: UNI EN 12464				Produced with vandal resistant materials.
IP55	Protection against dust and water jets		STORES: Goods sheds, warehouses, depots, production areas, hangars UNI EN 12464.				Material supplied with vandal resistant system.
IP65	Protection against dust and water sprays		INDOOR SPORTS FACILITIES: Ice-skating facilities, sport facilities, athletics grounds, swimming pools, gymnasiums, volleyball courts, basketball courts				Energy saving fixtures.
IP66	Dust and water tight		LARGE AREAS: Parking grounds, facades, common areas, loading and unloading areas				Fixtures wired with dimming electronic ballast.
IP67	Dust and waterwave tight		PEDESTRIAN ROUTES: near crossroads, pedestrian crossings, and traffic light intersections.		Aiming on horizontal axis at 0°.		The fixture can be mast-arm installed. Tilt angle as indicated.
	Class II fixture (double insulation). No grounding needed.		AMENITY LIGHTING: Gardens, tree-lined alleys, green areas, parks, promenades		Aiming on vertical axis at 0°.		Mast top connection diameter.
	Fixtures installed on surfaces normally-flammable.		RESIDENTIAL AREAS: private areas, residences; external walls, pedestrian paths, service stations - UNI 10439		Wide beam		Article supplied with single controller or DMX or PC controller
V..	V0: the test piece extinguishes within 5 sec. without dropping V2: the test piece extinguishes within 25 sec. (dropping allowed)		TUNNELS: highway, railway, underground and subway, tunnels		Medium beam		Installation of photocell switch device as an optional feature
new	NEW PRODUCT		STREETS: Secondary roads, shop-lined streets, low-traffic streets, industrial areas UNI 10819 - UNI 10439		Narrow beam		The lighting fittings can be trodden on and also bear vehicle loads
new	PERFORMANCE Techniques - Lighting Photometric		SWIMMING POOLS: for difficult maintenance situations.		Asymmetric beam		Size of hole for recessed installation
			CLASSIC LIGHTING: Ideal for application in city centers		Both direct and indirect light		ZONA 1 Zone 1: high protection, limited lighting (e.g.: internationally prominent astronomy or astrophysics observatories). Radius (3.3) from the observation centre, r= 5 Km.
			BICYCLE PATHWAYS: Also for pedestrian areas				

- 1- This catalogue supersedes and cancels all previous editions.
- 2- All list prices are VAT excluded and already include WEEE contribution. However, prices are not binding and the company will inform you on any variation.
- 3- Goods travel at the customer's risk, including in the case of possible breakages, even if shipped carriage free. No complaints will be accepted after 8 days from receipt.
- 4- Orders will be dealt with according to availability; partial shipments may also be sent out.
- 5- The characteristics of the articles, the LEDs used and the lighting design calculations may be subject to change without notice and with no obligation of notification, in accordance with our manufacturing requirements and in order to finalise the lighting fixture.
- 6- Transportation costs, with the exception of delivery by our vehicles, are at the customer's expense.
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- 8- We recommend that plastic components, especially those designed for suspension luminaires, be checked at least every time the bulb is changed.
- 9- Only payments made directly to our address or to persons authorised by our company, will be accepted.
- 10- Reproduction, even in part, of the descriptions and illustrations in our catalogue is prohibited.
- 11- The place of jurisdiction for any legal disputes arising from or related to these General Sales Conditions shall be Milan.
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PHOTOMETRIC DATA, POWER EFFICIENCY AND LUMINAIRE DESIGN INFORMATION MAY BE SUBJECT TO VARIATIONS AND IMPROVEMENTS. BASED ON THE SPEED OF TECHNOLOGICAL EVOLUTION AFFECTING THESE PRODUCTS, THE COLOUR TEMPERATURES OF LEDS FALL WITHIN ACCEPTED INDUSTRY TOLERANCES DEFINED BY LED MANUFACTURERS, WE WILL GIVE NOTICE OF THESE CHANGES ON OUR WEBSITES FROM TIME TO TIME.

SOME IMAGES ARE SIMULATED APPLICATION AND / OR PHOTOMONTAGES

THE DATA REGARDING LUMINOUS FLUXES REPORTED FOR EACH FIXTURE ARE GENERALLY MEASURED BASED ON NOMINAL VALUES (TA=25°C) . VALUES ARE SET BY LED MANUFACTURERS

W: ALL DATA REFER TO THE NOMINAL WATTAGES SUPPLIED BY THE LEDS MANUFACTURER.

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