

2017 **REVERSO** **LIGHTING**

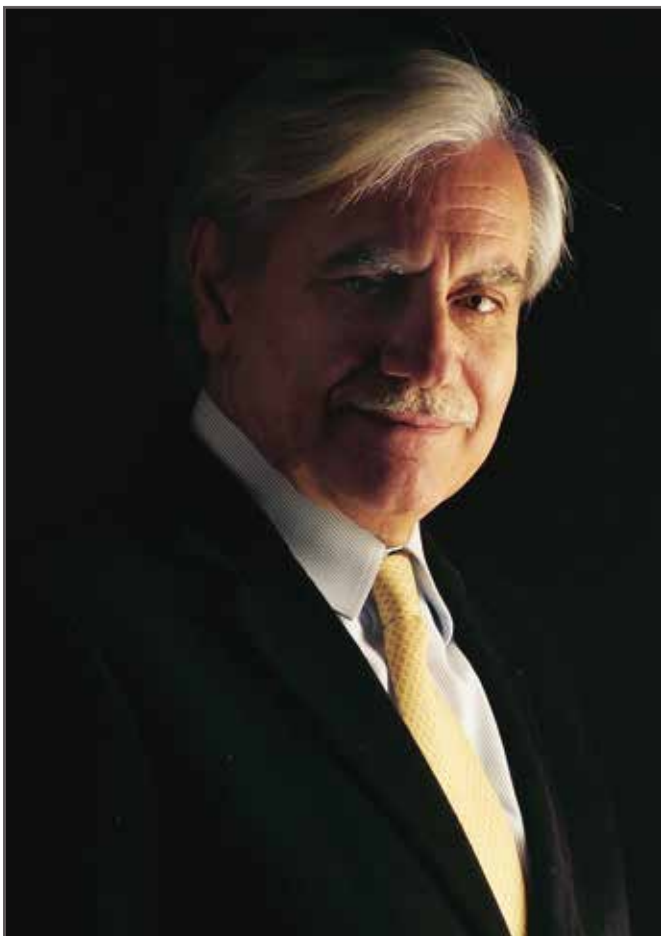
Beghelli



The Evolution of Control

The high-tech identity of the Beghelli brand value is illustrated once again. New challenges have arisen in the field of control and communication for lighting devices and emergency lighting technologies, driving companies to maximise energy savings and improve people's lives. The Opticom Technology project takes a completely new approach to the concept of lighting

control, giving rise to a revolutionary design which uses smartphone technology. Indeed, modern mobile phones - more or less ubiquitous in this day and age - boast a degree of potential which extends far beyond the collective imagination, and can be used to benefit end users and installers of equipment alike.



In the era of the IOT (Internet of Things), Beghelli has turned its attention to all professionals in the industry, from designers and architects to distributors and installers of electrical equipment. The company offers an extensive range of new technological solutions, with ideas that not only revolutionise the performance and function of products, but also introduce a new way of working, along with systems which integrate increasingly seamlessly into everyday life. These solutions serve to simplify business activities and foster professionalism at work, incorporating products and services for solutions with ever greater added value. This has led to the creation of a new philosophy for Beghelli, founded on the principles of light, and on the ability to communicate, read and change at will. The solutions offered by the company can interact dynamically with users and with other intelligent systems, transferring or absorbing information and creating a dynamic and intelligent network. These cutting-edge technologies are the manifestation of the true spirit of the next technological revolution in the lighting sector, which will be driven by the interaction between systems and users, as well as by developments in terms of LED light sources and domotics (smart driver) technologies. Welcome to the IOT era, welcome to the new world of Beghelli, welcome to OPTICOM.

OPTIcal **COM**munication Technology
Light that communicates with light

Gian Pietro Beghelli

Lighting

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Bologna - Italy - Tel. +39 051 9660411 - Fax +39 051 9660444 - www.beghelli.com



beghelli.it new Site

Provides maximum ease of information retrieval, high page loading speeds and ensures total accessibility from any digital device.

Website development is based on responsive web design (RWD), an element that allows automatic graphic adaptability to the device from which pages are displayed (computers with different resolutions, tablets, smartphones).



Smartphone Display




Tablet Screen




Computer Screen

The site can also be viewed as a web app, adding the site icon as if it were an app to the tablet or smartphone home, making it easy and straightforward.

To add the Web App icon to the home of your tablet or smartphone, connect to beghelli.it 

On iOS devices click the button then  add to "Add to Home"

On Android devices click the button  then on "Aggiungi a Home"



Optical programming technology through Smartphone and dedicated app, for direct control of the devices



Titanium Battery, latest-generation Titanium Dioxide (LTO) batteries, long-lasting and fast recharge, up to 80% in 2 hours



CIVIL

Fixtures particularly indicated for installations in homes and small commercial premises



ARCHITECTURAL

Fixtures particularly indicated for installations in luxury Hotels, designer stores, historic buildings, museums, showrooms, management centres



TERTIARY AND INDUSTRIAL

Fixtures particularly suited for installations in Schools, Hospitals, Public Bodies, hotels and accommodation facilities, offices, industrial facilities



Technologically advanced products, designed with a view to energy saving, recycling at the end of their working life, and reduced wear of parts during use.



Products with extended 4-year guarantee on all parts, battery included. For the application procedures, see the general terms of sale.



Products with extended 4-year guarantee on all parts, battery included. For the application procedures, see the general terms of sale.



Plug & Light Independent Inverter and integrated battery for fast and easy installation in full compliance with safety requirements without affecting the performance of the device



Fixture intended for use with a risk of explosion due to the presence of combustible powders or explosive substances according to the **ATEX Directive**



Devices equipped with Touch Sensor for switching on Night mode with deactivation / activation Automatic twilight integrated.

Lighting

Symbols and approvals



Technologically advanced products, designed specifically with a view to energy saving, recycling at the end of their working life, and reduced periodic wear of parts during use.



Fixture intended for use with a risk of explosion due to the presence of combustible powders or explosive substances according to the **ATEX Directive** (see facing page)



Car Parks, Autosilos, Garage

Devices with wide Optics specially designed to maximize lighting inside underground Car Parks and Garages



Fixtures with product integrity ensured according to Standard UNI 9554, DIN 18031-3. Suitable for installation in gymnasiums



Plug & Light Independent Inverter and integrated battery for fast and easy installation in full compliance with safety requirements without affecting the performance of the device



Protection Grade against external factors (According to CEI EN 60598-1)



Protection Grade against impact of the fixture complying with test methods (According to EN 50102)



Fixtures with class II insulation level. Fixtures without this symbol are to be considered class I.



Indicates Resistance Temperature of the product to the incandescent wire test (CEI EN 60598-1)



Fixtures with particular resistance to UV radiation and aggression by mineral oils



Fixtures characterized by particular resistance to UV radiations



GSM transmission of the energy saving data to the Beghelli Services database



Transmission protocol to connect to the Web



Built-in FH-DSSS radio transceiver operating in the band 2.400-2.863 GHz



Devices complying with European Community directives



European quality mark



Fixtures with absence of potentially contaminating elements, suitable for use in places subject to HACCP audit (food supply chain).

Light sources supplied with Beghelli fixtures

Beghelli products must be used with light sources complying with the provisions of the most recent laws in terms of energy efficiency and environmental impact. When supplied with the lighting fixtures, the proposed lamps supplied comply with the provisions of the

respective laws (reg 244/09, 245/09 and 1194/2012).

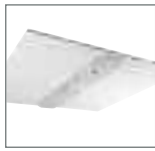
L80B20

indicator of product flux maintenance. It specifically indicates that, within the number of hours specified on the product data sheet, 80% of the number of LEDs will not lose more than 20% of the flux. The number of hours specified on the product data sheet refers to the most critical product, therefore in conditions of lower power and at a working temperature lower than 25°C a substantial increase of the product performance may be expected.

SDCM - Standard Deviation Color Matching

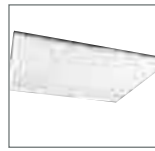
is the standard deviation of the correspondence of colours between two lamps. With a value of 3 SDCM or less, the lamps emit light with a colour that is difficult to perceive with the human eye.

Recess



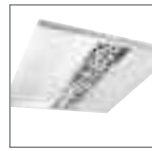
LENS PANEL

page 9



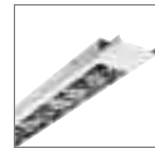
LED PANEL

page 15



I418 LED

page 21



ID LED

page 27

Downlight



D170/1150 LED ADJUSTABLE

page 65



D170/1150 LED

page 71



D226 LED

page 74



WW135/170 LED

page 79

Indoor Louvres



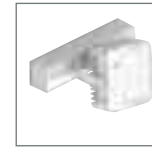
EXPO LED - rail

page 91



ZOOM LED - rail

page 97



ZOOM LED - applique

page 100



ZOOM 1X LED - applique

page 105

Outdoor Louvres



F30/50/70 LED

page 129



FH70/150/200 LED

page 135



FH350 LED

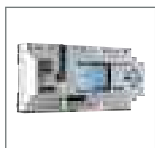
page 141



F250/400 LED

page 147

Building automation lighting & Software



CONTROL UNITS AND SYSTEM MODULES

Systems, Ceiling and Suspension



RAIL SYSTEM LED

page 33



LENS PANEL

page 47



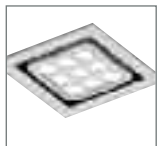
LED PANEL

page 53



P236/258 LED

page 59



ZOOM LED cestello

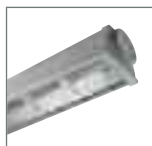
page 85

Industrial Lighting



BS100 LED

page 111



ACCIAIO ECO LED

page 117



H250/400 LED

page 123

Street Lighting



STRADA LED

page 153



CENTROSTRADA 50/70 LED

page 159



CENTROSTRADA 100/150/250 LED

page 163

Systems Description and fixtures compatibility

opticom
TECHNOLOGY

OPTICAL SYSTEM FOR COMMUNICATION BETWEEN DEVICES AND SMARTPHONES VIA A DEDICATED APP:

- CONTROL OF TECHNICAL LIGHTING PARAMETERS SUCH AS SWITCHING ON, SWITCHING OFF AND DIMMING
- MANAGEMENT OF AUTODIMMER PARAMETERS, BOTH FOR NATURAL LIGHT AND DYNAMIC LIGHT

page 4

SMARTDRIVER
SD
SMART DRIVER

INTELLIGENT DRIVER AND PHOTOSENSOR WITH OPTICOM SYSTEM:

- AUTODIMMER, NATURAL LIGHT
- AUTODIMMER, DYNAMIC LIGHT
- EMERGENCY, PLUG&LITE INVERTER
- DOMOTIC RADIO MODULE
- DALI MODULE
- 1-10V MODULE
- GRANDE ESCO ITALIA MODULE

page 6

ECODRIVER
ED
ECO DRIVER

DEVICES EQUIPPED WITH FIXED-LIGHT NON-DIMMABLE DRIVER



Type of system chosen: Emergency or illumination



“User” screen for sending commands to the lamp

Smartphone-based optical communications technology for controlling and programming lighting and emergency lighting

Light that communicates with light - this is the operating principle of the new Beghelli-patented technology.

Opticom (**OPTICAL COM**munication Technology), is an optical communication system which can communicate, read and change the performance and functions of each individual Beghelli lighting device equipped with a Smart Driver intelligent power supply, using the flash and the camera of a simple smartphone.

This advanced technology simplifies and optimises the work of installers, who can programme lighting devices without any additional equipment, using the dedicated app which is available for free for both iOS

and Android systems. This solution also brings significant added value for end users, enabling them to control their lamps via smartphone.

All SmartDriver Beghelli devices equipped with the special intelligent photosensor become Opticom Technology devices, which can be used to programme the **intelligent photosensor** in order to manage the autodimming functions. This can be carried out both in natural light compensation mode (Natural Light) with automatic reduction of the power of the device, and in Dynamic Light mode, which senses variations in light due to

movement of people and subsequently increases illuminance. Using the dedicated app, each individual lighting device can still be adjusted to the most suitable power level, with just one click.

Opticom Technology: the multi-functional system that renders Beghelli SD technology even more intelligent, for energy savings of more than 80% (30% more than conventional LED systems), courtesy of the intelligent photosensor Natural Light and Dynamic Light functions.

opticom.beghelli.it

The Beghelli website also contains the most up-to-date information about Opticom technology: operating principles, commands and programming, as well as a list of compatible smartphones.



Command which allows the operator to go to the "programming" section



Indication that the user needs to turn the phone flash towards the device to be controlled



The "programming" section, which can only be accessed by the installer on insertion of the dedicated username and password



The optical communication between the smartphone flash and the intelligent photosensor, which is integrated into all SmartDriver lighting devices, takes place without the use of any additional external control unit

DOMOTIC
RADIO
MODULE

GRANDE
ESCo
ITALIA
MODULE

1÷10V
MODULE

DOMOTIC
RADIO
MODULE

PLUG&LIGHT
MODULE

SD BUILDING AUTOMATION MODULES INDIVIDUALLY CONNECTED TO THE BEGHELLI SMARTDRIVER



INTELLIGENT PHOTOSENSOR

1. Autodimmer Natural Light
2. Autodimmer Dynamic Light
3.  Device programming and control system

Intelligent driver
integrated into the
Beghelli SD devices

All SD devices are equipped with Smart Driver, integrated Photosensor and optional Modules

The integration of the SmartDriver power supply marked a turning point in lighting systems technology, both in terms of the flexibility that this brought and with regard to potential increases in functionality. This new generation electronic power supply enables energy savings of more than 80%. With the integration of the Opticom system, which features as standard on all SmartDriver devices, the primary functions of each device can be programmed via the Opticom app, which operates through the flash on a smartphone. The SD Driver is specifically designed for industrial use (pursuant to EN 61000-6-2), and is resistant to overvoltage surges of ≤ 4 Kvolt.

The SmartDriver system also allows the additional intelligent modules to be integrated, and these can be connected to the connector provided and housed inside lighting devices, enabling these to be expanded in order to meet even the most complex requirements.

The light intensity calibration can be adjusted, either via the two autodimmer modes (Natural Light and Dynamic Light) or manually, using Opticom Technology which functions through the flash on a smartphone.



Smart Domotic

The system enables users to set programmes according to specific lighting scenarios which correspond with everyday situations, or which are specially designed for particular activities. The various lighting scenarios can be activated locally or through Opticom, either via the domotics control unit (via WiFi) or remotely, via the app.



Inverter Plug&Light: integrated top emergency

Smart Driver allows the new Plug&Light inverter to be connected simply and immediately. This revolutionary system serves to integrate lighting and emergency lighting via a single connector, without compromising the features or compliance of the device on which it is installed.



Wireless control

These systems feature all of the key functions of modern lighting systems, so that no additional cables or BUS (e.g. DALI) need to be laid. The modularity of the SmartDriver system enables operators to activate the function simply by connecting to the domotic radio module, equipped with an antenna and programmed to be triggered when it is connected.



Smart Driver, the light Intelligence



Opticom smart photosensor

Autodimmer Natural Light function

Each SmartDriver device can be equipped with an Autodimmer INTELLIGENT PHOTOSENSOR, which serves to automate the basic functions of the device: the illuminance is managed via the automatic adjustment of the light intensity, in accordance with the light already present in the environment, enabling energy savings which are up to **30% higher than those seen on LED devices** with fixed light intensity.

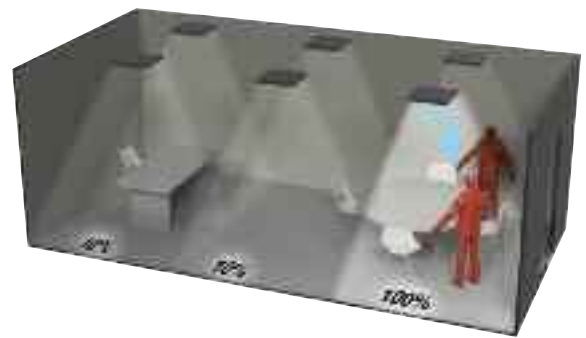
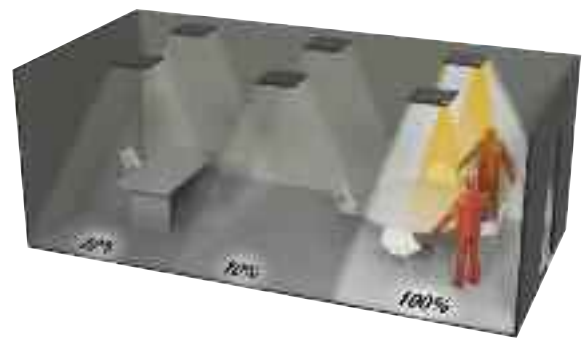
Autodimmer Dynamic Light function

The new OPTICOM INTELLIGENT PHOTOSENSOR Technology, which is included on SmartDriver devices, reacts to the slightest variation in light resulting from the movement of people in the vicinity of the light source. This sudden change in light activates a pre-programmed setting, activating the device at 100% brightness, for example. This status can be set with a programmable delay (of 30 seconds upwards) in line with requirements, before returning to minimum brightness unless new movements are detected. This unique feature allows the system to comply with workplace lighting standard EN 12464-1, as well as enabling **additional energy savings of 20% compared to use of the Autodimmer alone, for a total saving of over 85%**.

The Dynamic Light Autodimmer function is optimised for mounting at heights of less than 4m.

Opticom Technology interface

The Opticom Technology interface for programming and managing lighting devices. The INTELLIGENT PHOTOSENSOR receives and transcodes the light pulses transmitted by the smartphone flash, and transforms these into instructions or commands to set all of the parameters for the device. For example: in an environment with the light level dimmed to 50%, the device can be changed to 100% via the Opticom smartphone controller. Opticom communication



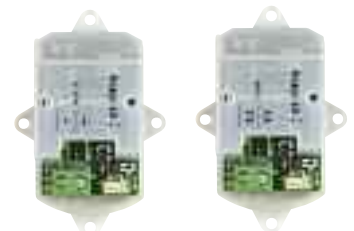
Enhancement of energy savings

Module for collecting energy consumption data, used to provide the necessary information to the accredited energy company (ESCO), in order to obtain Energy Efficiency Credits (or "White Certificates"). Grande ESCo Italia has all the necessary certifications, as well as technology that is compatible with the SmartDriver system.



Full compatibility with Building Automation

The design of the SmartDriver allows information to be exchanged with other communication protocols such as DALI. DALI and 1-10V modules can be used with both the DALI and analogue dimming direct command interface.





**INTEGRATED INTELLIGENT
PHOTOSENSOR ON SD VERSIONS**

AUTODIMMER NATURAL LIGHT

COMPENSATION FOR NATURAL LIGHT IN THE
ENVIRONMENT, FOR ENERGY SAVINGS OF OVER 75%

AUTODIMMER DYNAMIC LIGHT

AUTOMATIC REDUCTION OF LIGHT EMITTED IN THE
ABSENCE OF PEOPLE, FOR POTENTIAL FURTHER ENERGY
SAVINGS OF MORE THAN 20% - OVERALL EXPECTED
SAVINGS OF MORE THAN 85%

HCL - HUMAN CENTRIC LIGHTING



BIODYNAMIC LIGHTING WITH VARIABLE
INTENSITY AND COLOUR TEMPERATURE

Lens Panel LED

multi-lenticular technology
just 8mm thick
with domotic control
becomes biodynamic light

The new LED lighting for the commercial sector really stands out for its elegance and performance. The versatility of the LED Lens Panel is based on its structural simplicity. The body is just 8mm thick, and contains a state-of-the-art monolithic shield with a multi-lenticular optic to maximise illumination on the ground while avoiding any glare effect. The ED version has an extremely compact driver that sits comfortably within the profile, so the overall thickness of the installed luminaire is just 8mm. The SD system, on the other hand, offers all the possibilities of a domotic system for lighting scene management, movement detection and controlled or automatic dimming. Lens Panel is also available in the HCL (Human Centric Lighting) version - the biodynamic lighting system that follows sunlight rhythms and colour temperature to improve efficiency and the well-being of the people in the workplace.



GENERAL CHARACTERISTICS

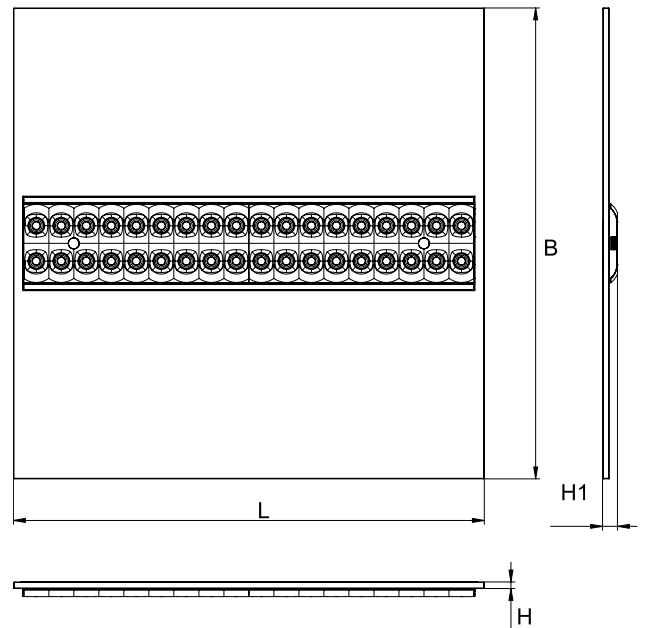
- Equivalent Power*** 4x18W
- Power supply** **SD Version:** Universal Multi Voltage
93±265Vac 50±60Hz
176±250Vdc
ED Version: 230Vac ±10% 50Hz
- Standard** EN 60598-1, EN 60598-2-1,
EN 60598-2-22 (fundamental
requirements), EN62471
(Photobiological hazard)
- Protection grade** IP40 partly visible, IP20 partly recessed
- Working temp.** -20 ÷ +40°C
- Installation** recessed M600, ceiling, suspension
- Body** galvanised Sheet steel painted with
polyester powders RAL 9003
- Optic** transparent plexiglass
- UGR** <19
- Luminance** 65°<3000 cd/mq
- Power supply** **SD version:**
Electronic SD (Cos $\varphi \geq 0, \geq 0,96$)
with intelligent dimming
ED version:
Electronic ED (Cos $\varphi \geq 0, \geq 0,95$)
- MTBF Control gear**** 80.000h
- Luminous flux
maintenance**** > 60.000h (L80B20)
- Colour tolerance** 3 SDCM

* Equivalent power for comparison with fluorescent tube fixtures
** At environmental reference temperature of 25°C

Lens Panel LED

Ceiling, Suspension, M600

This product is designed for flush-mounting installation in M600 modules, but its true elegance emerges in ceiling-mounting and suspended installations without an adapter frame. The profile is one of the slimmest on the market (8mm). In the Eco Driver version, the power supply unit is inserted in the lamp profile. Slimmer than a LED panel, but offering a far higher EFFICIENCY level (>130lm/W). Optic created with the multi-lenticular system with high transmittance, to reduce the glare effect (UGR <19) whilst maintaining the same lighting efficiency. HCL version with biodynamic colour temperature: the Opticom system offers the possibility to select the required colour temperature (from 2700K to 6000K), or to automatically follow the natural tones of the sunlight (Human Centric Lighting) during the daytime, thanks to the domotic control centre.



Version	• Dimensions (mm) •				Weight kg
	L	B	H	H1	
600x600	595	595	8	19	3.5

Accessories **SD**

supplied

Order code	Description
15039	INTELLIGENT OPTICOM PHOTOSENSOR

Accessories

to be ordered separately

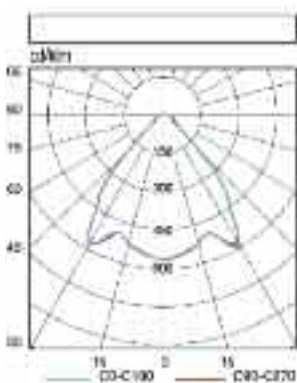
Order code	Description
70033	SUSPENSION KIT
20097	CEILING FRAME LED PANEL 600X600 (essential for SD versions or when paired with the Plug&Light inverter)

Building automation **SD**

to be ordered separately

Order code	Description
20102	DOMOTIC CENTER
20104	BUILDING AUTOMATION CENTRAL UNIT
15021	AUTODIMMER SENSOR
15022	BUILDING AUTOMATION RADIO MODULE
15024	DALI MODULE
15034	1-10V MODULE
15025	GRANDE ESCO ITALIA RADIO MODULE

Polar Diagram



Efficiency and dimming

The increase in luminous efficacy (lm/W) and the useful life of the device may vary significantly according to the degree to which it is dimmed. Assuming an average level of 50% of the luminous flux, the following results are obtained with the Lens Panel LED:

- Dimming **SD**** 50%
- Device duration** +40%
- Luminous efficiency** +15%



SD BUILDING AUTOMATION MODULES INDIVIDUALLY CONNECTED TO THE BEGHELLI SMARTDRIVER



INTELLIGENT PHOTSENSOR (SUPPLIED WITH SD VERSIONS)

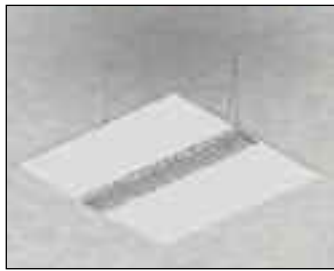
1. Autodimmer Natural Light

2. Autodimmer Dynamic Light



Smartphone Interface Device programming and control system

SUSPENDED MOUNTING



70033 Suspension Kit

RECESSED MOUNTING



CEILING MOUNTING



20097 Ceiling Frame LED Panel 600x600 SD model only

MULTI-LENTICULAR OPTIC



SPECIAL VARIATIONS: COLOUR RENDERING ≥ 90 , COLOUR TEMPERATURE ON REQUEST Contact the Beghelli sales network



Human Centric Lighting (HCL)

The effects of lighting on the biological rhythm of the human body have a direct impact on comfort, productivity and health in indoor environments. The model that should be followed is that dictated by nature with regard to light intensity, colour and direction, in harmony with our internal biological clock.

In order to perform this function, simply incorporate one or more Lens Panel HCL devices into the domotics control unit, which will then manage the dynamic synchronisation of the light variations corresponding with the hours of the solar day with the human biological clock (circadian cycle).

Similarly, in both commercial and artistic exhibition environments, placing the correct emphasis on the objects on display is essential. In such instances, the colour temperature can be varied in accordance with the type of merchandise on display and the atmosphere that you want to create.

This technology, known in the past as biodynamic lighting, was previously used very little due to the high cost of these solutions. However, courtesy of the SmartDriver system advanced control dynamics and new, high-performance LEDs, this technology is now accessible to everyone, and is available in countless colour temperature and light intensity variants.

EMERGENCY WITH LED INVERTER



INVERTER	19358	INVERTER PLUG&LIGHT LED SE/SA 1H 20-60V	to be ordered separately
	19359	INVERTER PLUG&LIGHT LED SE/SA 3H 20-60V	to be ordered separately
	19364	INV LED IP65 AT/LG 123H	to be ordered separately
	19365	INV LED IP65 LGFM 123H	to be ordered separately
	RA02	AUTORIPARA INVERTER BATTERY 7.2V 1.7Ah	to be ordered separately

Lens Panel Human Centric Lighting (HCL) - UGR <19



SmartDriver electronic reactor



Power* W	Order code	Description	LED Power W	Colour Temp. K	Colour rendering	Power consumption Max W	N° LEDs	Flux of LEDs lm (Tj=25°C)	Flux of fixture lm	Luminous efficiency lm/W	Energy Class	Packaging
4x18	LP418HCL	LP HCL 418 M600 UGR19 SD	32	2700/6000	>80	35	36	4700	4400	125	A++	1/3

Lens Panel - UGR <19

SmartDriver



Power* W	Order code	Description	LED Power W	Colour Temp. K	Colour rendering	Power consumption Max W	N° LEDs	Flux of LEDs lm (Tj=25°C)	Flux of fixture lm	Luminous efficiency lm/W	Energy Class	Packaging
4x18	LP418SD	LENS PAN 418 M600 UGR19 SD 4K	32	4000	>80	35	36	4700	4400	125	A++	1/3

Lens Panel - UGR <19

Eco Driver electronic reactor



Power* W	Order code	Description	LED Power W	Colour Temp. K	Colour rendering	Power consumption Max W	N° LEDs	Flux of LEDs lm (Tj=25°C)	Flux of fixture lm	Luminous efficiency lm/W	Energy Class	Packaging
4x18	LP418ED	LENS PAN 418 M600 UGR19 ED4K	23	4000	>80	25	36	3700	3400	136	A++	1/3

RECESSED MOUNTING

The multi-lenticular optic prevents glare, whilst ensuring an excellent percentage of light diffusion in the environment.





RECESSED
MOUNTING



**INTEGRATED INTELLIGENT
PHOTOSENSOR ON SD VERSIONS**

AUTODIMMER NATURAL LIGHT

COMPENSATION FOR NATURAL LIGHT IN THE ENVIRONMENT, FOR ENERGY SAVINGS OF OVER 75%

AUTODIMMER DYNAMIC LIGHT

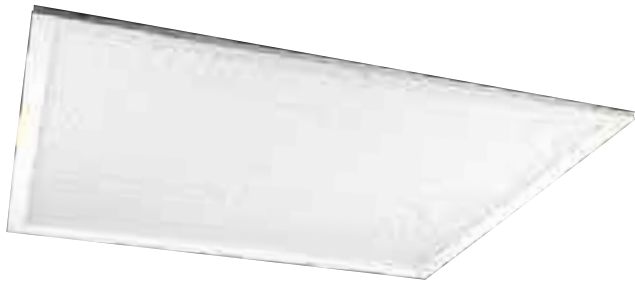
AUTOMATIC REDUCTION OF LIGHT EMITTED IN THE ABSENCE OF PEOPLE, FOR POTENTIAL FURTHER ENERGY SAVINGS OF MORE THAN 20% - OVERALL EXPECTED SAVINGS OF MORE THAN 85%

LED Panel SD

Optical LED technology
UGR <19 for video terminals
on flat panel



Maximum simplicity for commercial sector LED lighting. The LED Panel is designed for use in offices, large areas and minimalist, modern workplaces. Thanks to the special micro-prismatic anti-glare diffuser, the device has an UGR index of <math><19</math>, and as such, is perfect for installation in workplaces where employees spend long periods of time, and where video display terminals are used. The minimalist design enhances the architectural aesthetic of modern environments with false ceilings, but the most eye-catching result is achieved with suspension installation, enriching any space with light, airy elements, thanks to its reduced structural impact (the LED Panel SD is just 9 mm thick).



GENERAL CHARACTERISTICS

- Equivalent Power*** 4x18 W
- Power supply** Universale Multy Voltage 93÷265Vac
50÷60Hz 176÷250Vdc
- Standard** EN60598-1; EN60598-2-22;
EN 62471
- Protection grade** IP40
- Working temp.** -20 ÷ +40°C
- Installation** recessed M600, ceiling, suspension
- Body** Aluminum, white color
- Optic** self-extinguishing micro-prismatic screen
stabilised against UV rays, anti-glare
- UGR** <19
- Luminance** 65° <3000 cd/mq
- Power supply** **Electronic SD** (Cos φ ≥ 0, ≥ 0,96)
with intelligent dimming
- Colour Temperature** 4000K
- MTBF Control gear**** 65,000h
- Luminous flux maintenance**** >50,000h (L80B20)
- Colour tolerance** 3 SDCM

* Equivalent power for comparison with fluorescent tube fixtures
** At a reference working temperature of 25°C

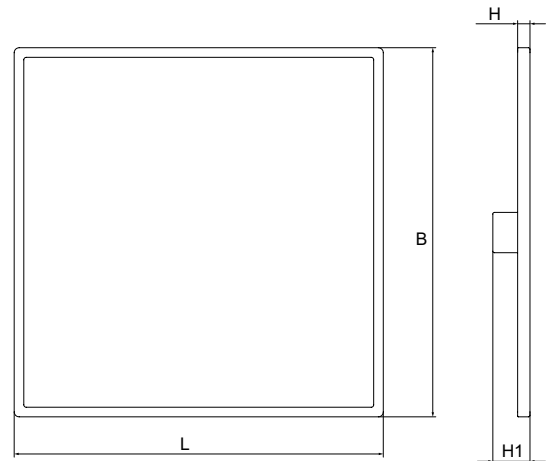
LED Panel SD

Ceiling, Suspension, M600

Innovative and highly versatile LED source fixture. The highly reduced thickness and the minimal weight permit suspension installation even in prestigious architectural spaces. When recessed in the exposed structure, the particular and innovative profile permits total alignment of the fixture with the ceiling panels.

The extreme high efficiency of the LEDs and the opal micro-prismatic diffuser screen allow this revolutionary fixture to be used in all spaces that are occupied for long periods of time where excellent visual comfort and diffuse lighting is required, such as offices, schools, hotels and shopping malls. Installation is made easier with the exclusive quick fastening system.

The emergency Plug & Light kit is also available, consisting of inverter and battery for activating the device in case of a power failure, either in the AT and LG intelligent versions or with the brand-new Plug & Light instant connection converter.



Version	• Dimensions (mm) •				Weight kg
	L	B	H	H1	
600x600	595	595	9	41	3.5

Accessories **SD** supplied

Order code	Description
15039	INTELLIGENT OPTICOM PHOTOSENSOR

Accessories to be ordered separately

Order code	Description
20094	SUSPENSION KIT
20097	CEILING ADAPTOR

Building automation **SD** to be ordered separately

Order code	Description
20102	DOMOTIC CENTER
20124	WiFi BUILDING AUTOMATION CENTRAL UNIT
20104	BUILDING AUTOMATION CENTRAL UNIT
15022	BUILDING AUTOMATION RADIO MODULE
15024	DALI MODULE
15034	1-10V MODULE
15025	GRANDE ESCO ITALIA RADIO MODULE



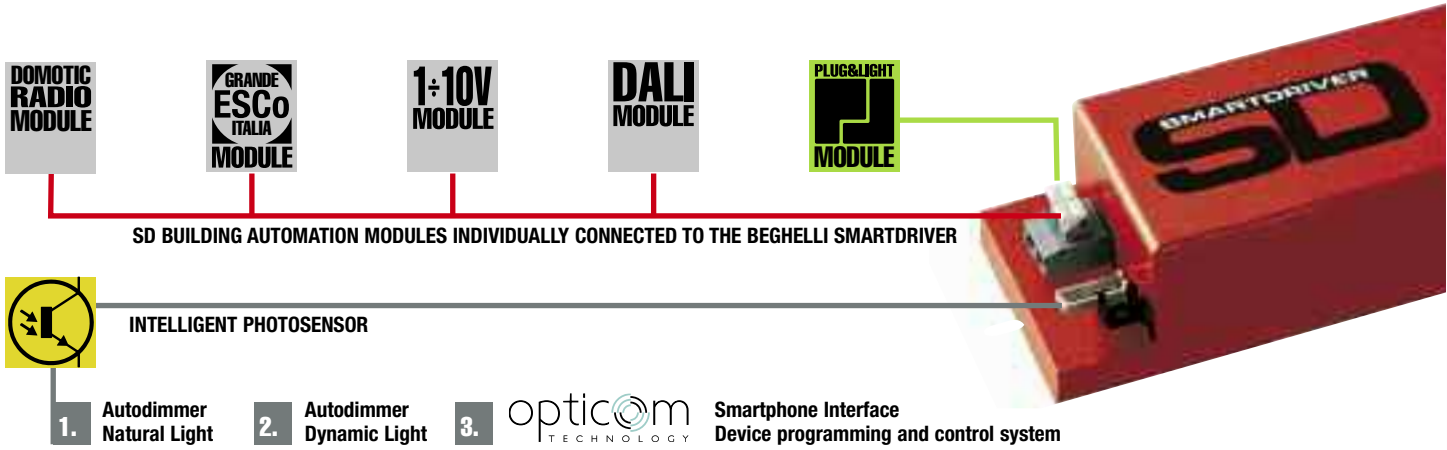
SUSPENDED MOUNTING



CEILING MOUNTING



RECESSED MOUNTING



RECESSED MOUNTING

PRISMATIC GLASS DIFFUSER



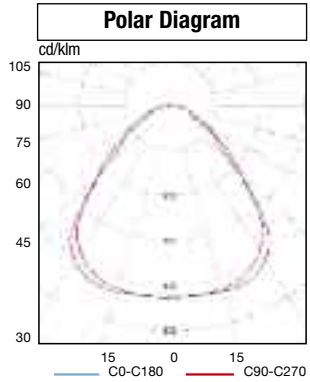
Efficiency and dimming

The increase in luminous efficacy (lm/W) and the useful life of the device may vary significantly according to the degree to which it is dimmed. Assuming an average level of 50% of the luminous flux, the following results are obtained with the LED Panel SD:

Dimming SD	50%
Device duration	+40%
Luminous efficiency	+15%

SPECIAL VARIATIONS: COLOUR TEMPERATURE ON REQUEST, IP65 VERSION
Contact the Beghelli sales network

EMERGENCY WITH LED INVERTER		TR	AT	LG	LGFM
INVERTER	19358	INVERTER PLUG&LIGHT LED SE/SA 1H 20-60V	to be ordered separately		
	19359	INVERTER PLUG&LIGHT LED SE/SA 3H 20-60	to be ordered separately		
	19364	INV LED IP65 AT/LG 123H	to be ordered separately		
	19365	INV LED IP65 LGFM 123H	to be ordered separately		
	RA02	AUTORIPARA INVERTER BATTERY 7.2V 1.7Ah	to be ordered separately		



LED Panel UGR <19

SmartDriver electronic reactor **SD**

Power* W	Order code	Description	LED Power W	Colour Temp. K	Colour rendering	Power consumption Max W	N° LEDs	Flux of LEDs lm (Tj=25°C)	Flux of fixture lm	Luminous efficiency lm/W	Energy Class	Packaging
4x18	418PSD	LED PANEL 418 M600 UGR19 SD 4K	32	4000	>80	36	270	5500	4000	111	A++	1





Installation in an open plan office, where glare levels (UGR <math>< 19</math>) are a priority for those who use personal computers. However, it is equally important to ensure that a sufficient level of light is diffused throughout the environment.



**INTEGRATED INTELLIGENT
PHOTOSENSOR ON SD VERSIONS**

AUTODIMMER NATURAL LIGHT

COMPENSATION FOR NATURAL LIGHT IN THE
ENVIRONMENT, FOR ENERGY SAVINGS OF OVER 75%

AUTODIMMER DYNAMIC LIGHT

AUTOMATIC REDUCTION OF LIGHT EMITTED IN THE
ABSENCE OF PEOPLE, FOR POTENTIAL FURTHER ENERGY
SAVINGS OF MORE THAN 20% - OVERALL EXPECTED
SAVINGS OF MORE THAN 85%

I418 LED

LED Technology,
recessed and ceiling
efficiency and comfort

The maximum performance for LED lighting in the tertiary sector. The structural simplicity of M600 I418 LED is conceived for use in offices or modern and essential workplaces.

This combination of simplicity and solidity reveals its elegance in the most performing diffuser in its category, designed with direct and indirect emission to obtain a “soft light” effect, appreciably increasing comfort in the environment.



GENERAL CHARACTERISTICS

- Equivalent Power*** 4x18 W
- Power supply** **SD version:** Universale Multy Voltage
93÷265Vac 50÷60Hz
176÷250Vdc
Traditional driver version:
230Vac ±10% 50 Hz
- Standard** EN 60598-1, EN 60598-2-2,
EN 60598-2-22
(requisiti fondamentali),
EN 62471 (Rischio biologico esente)
- Protection grade** IP20, IP54
- Working temp.** -20 ÷ +40°C
- Mounting** incasso, slats, plasterboards, ceiling
- Housing** Polyester powder coated
sheet steel RAL 9003
- Optic** sheet metal Dark light type
- UGR** <19
- Luminance** 65° <1000cd/mq
- Power Supply** SELV electronic SD (cos φ ≥ 0.96)
Electronic with intelligent dimming
- MTBF Control gear**** 65.000h
- Luminous flux maintenance**** >70.000h (L80B20)
- Colour tolerance** 3 SDCM

* Equivalent power for comparison with fluorescent tube fixtures
** At a reference working temperature of 25°C

SPECIAL VARIATIONS: COLOUR RENDERING ≥90 - COLOUR TEMPERATURE ON REQUEST, SICURO 24 SLGS Contact the Beghelli sales network

Accessories supplied

Order code	Description
15039	INTELLIGENT OPTICOM PHOTODIODE

Building automation to be ordered separately

Order code	Description
20102	DOMOTIC CENTER
20124	WiFi BUILDING AUTOMATION CENTRAL UNIT
20104	BUILDING AUTOMATION CENTRAL UNIT
15022	DOMOTIC RADIO MODULE
15024	DALI MODULE
15034	1-10V MODULE
15025	GRANDE ESCO ITALIA RADIO MODULE

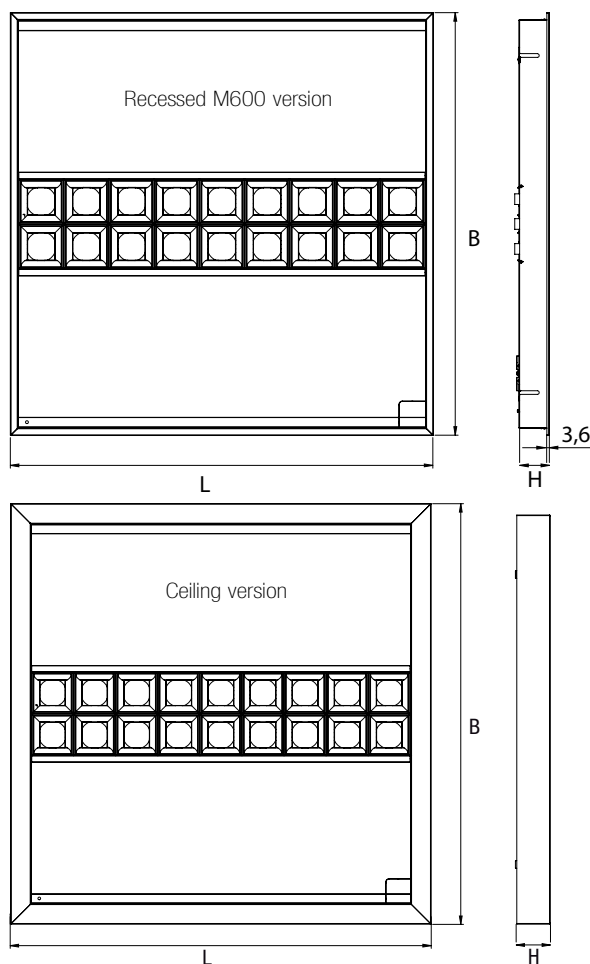
I418 LED

Ceiling, recessed M600, plasterboards, slats

Recessed fixture for mounting in an exposed structure, slats and plasterboard. Also for CEILING mounting with an adaptor. Characterized by excellent Dark Light anti-glare control, its use is particularly indicated in all workplaces with video terminals where employees are exposed to artificial light for long periods.

The exact emission of light on the work surface gives precision to the beam of light, the indirect emission that is reflected on the side reflectors considerably increases comfort thanks to an overall result of soft light.

Additional accessories are available for integrating emergency lighting: the LED Inverter for lighting up part of the fixture in the event of a black-out, or the LED Module for inserting in the seat provided.



Power * W	• Dimensions (mm) •			Installazione	Weight kg
	L	B	H		
4x18	595	595	46	incasso	3.2
4x18	635	635	54	ceiling	4.5
4x18	595	595	46	incasso	5.6
4x18	635	635	54	ceiling	6.9

Accessories to be ordered separately

Order code	Description
1232	CEILING FRAME INC ECO LED
10404	BRACKETS FOR SLATS

DOMOTIC
RADIO
MODULE

GRANDE
ESCO
ITALIA
MODULE

1÷10V
MODULE

MODULO
DALI

PLUG&LIGHT
MODULE

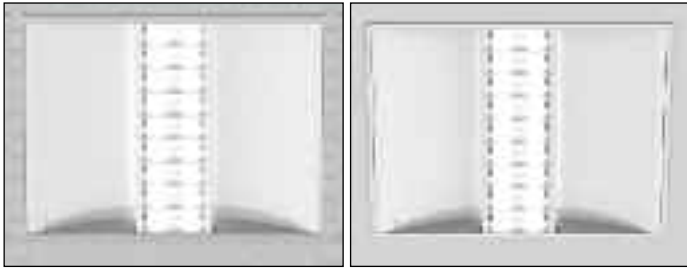
SD BUILDING AUTOMATION MODULES INDIVIDUALLY CONNECTED TO THE BEGHELLI SMARTDRIVER



INTELLIGENT PHOTOSENSOR

1. Autodimmer Natural Light
2. Autodimmer Dynamic Light
3. Smartphone Interface Device programming and control system

RECESSED MOUNTING ON PLASTERBOARD/SLATS



10404 Bracket for slats *to be ordered separately*

CEILING MOUNTING



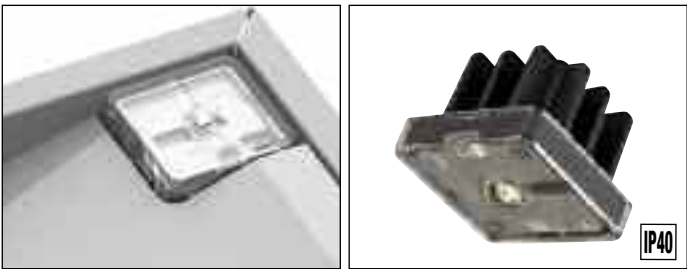
1232 Ceiling adapter

IP54 VERSION



I418SDPC with polycarbonate diffuser
I418SDVT with glass diffuser

EMERGENCY WITH INVERTER ECOLED/LED MODULE



- 19350 INVERTER ECOLED SE 1N RM *to be ordered separately*
- 19341 MODULE EM LED AT SE 1N *to be ordered separately*
- 19342 MODULE EM LED LG SE/SA 1/3H *to be ordered separately*
- 19343 MODULE EM LED LGFM SE/SA 1/3H *to be ordered separately*

Efficiency and dimming

The increase in luminous efficacy (lm/W) and the useful life of the device may vary significantly according to the degree to which it is dimmed. Assuming an average level of 50% of the luminous flux, the following results are obtained with the I418 LED

- Dimming **SD** **50%**
- Device duration **+40%**
- Luminous efficiency **+15%**

EMERGENCY WITH LED INVERTER

TR AT LG LGFM

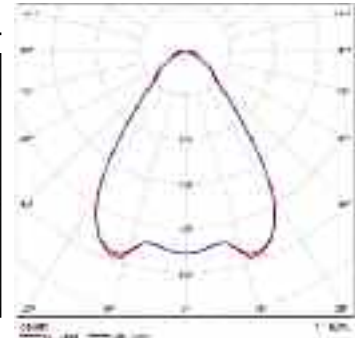
- 19358 INVERTER PLUG&LIGHT LED SE/SA 1H 20-60V *to be ordered separately*
- 19359 INVERTER PLUG&LIGHT LED SE/SA 3H 20-60V *to be ordered separately*
- 19364 INV LED IP65 AT/LG 123H *to be ordered separately*
- 19365 INV LED IP65 LGFM 123H *to be ordered separately*
- RA02 AUTORIPARA INVERTER BATTERY 7.2V 1.7Ah *to be ordered separately*

INVERTER

DARK LIGHT WIDE OPTIC



Polar Diagram



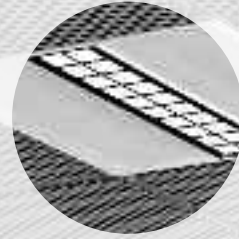
I418 LED

SmartDriver electronic reactor **SD**

Potenza* W	Order code	Description	LED Power W	Colour Temp. K	Colour rendering	Power consumption Max W	N° LEDs	Flux of LEDs Im (Tj=25°C)	Flux of fixture Im	Luminous efficiency lm/W	Energy Class	Packaging
4x18	I418SD	INC M600 4X18 LED SD 4000K	32	4000	>80	36	90	4400	4000	110	A++	1
4x18	I418SDPC	INC M600 4X18 LED SD P IP54 4000K	32	4000	>80	36	90	4400	3700	100	A++	1
4x18	I418SDVT	INC M600 4X18 LED SD V IP54 4000K	32	4000	>80	36	90	4400	3700	100	A++	1
4x18	I418LED **	INC M600 4X18 LED B 4000K	32	4000	>80	36	90	4400	4000	110	A++	1
4x18	I418TRLED **	INC M600 4X18 LED TR SD 4000K	32	4000	>80	36	90	4400	4000	110	A++	1

** Versions with traditional electronic driver

I418 LED on Module 600 is the system most used in offices and in public administration. This fixture, with its particularly limited thickness, can be easily mounted on the ceiling with the appropriate adapter.







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PHOTOSENSOR ON SD VERSIONS**

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COMPENSATION FOR NATURAL LIGHT IN THE ENVIRONMENT, FOR ENERGY SAVINGS OF OVER 75%

AUTODIMMER DYNAMIC LIGHT

AUTOMATIC REDUCTION OF LIGHT EMITTED IN THE ABSENCE OF PEOPLE, FOR POTENTIAL FURTHER ENERGY SAVINGS OF MORE THAN 20% - OVERALL EXPECTED SAVINGS OF MORE THAN 85%

ID 18/36/58 LED

Optimum relamping
Excellent light yield
in ceilings made of flat boards
with no glare



LED ID 18/36/58 is a device designed for relamping in false ceilings made of flat boards. The installation and upper support system minimises assembly times, always ensuring the right positioning of the device on the structure. The visual impact is minimal, even though the advanced optic layout provides a notable degree of lighting. The electronic power supply system, with Smart Driver (SD), not only guarantees energy savings of up to 90% but also permits the integration of components suitable for domotic applications, for interfacing with DALI systems, and for measuring the energy savings obtained.



GENERAL CHARACTERISTICS

- Equivalent Power*** 18, 36, 58 W
- Power supply** Universal Multy Voltage
93÷265 Vac - 50÷60 Hz 176÷250 Vdc
- Standard** EN 60598-1, EN 60598-2-1,
EN 60598-2-22 (requisiti fondamentali),
EN62471 (rischio fotobiologico)
- Protection grade** IP20
- Working temp.** -20 ÷ +40°C
- Mounting** Flush-mounting for boards
- Housing** Sheet steel painted with polyester
powders RAL 9003
- Optic** Opaline PMMA lenses
- Optic** sheet metal Dark light type
- UGR** <19
- Luminance** 65° <3000cd/mq
- Power Supply** **Electronic SD** (cos φ 0.96)
Electronic intelligent dimming system
- MTBF Control gear**** 65.000h
- Luminous flux maintenance**** >70.000h (L80B20)
- Colour tolerance** 3 SDCM

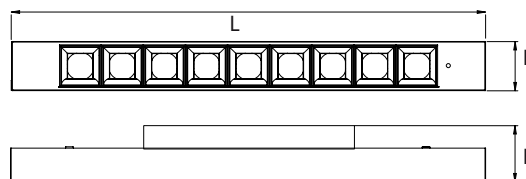
* Equivalent power for comparison with metal halide fixtures

** At a reference working temperature of 25°C

ID LED

Flush-mounting for boards

Flush-mounting device for installation in boards - type HD 84R. Featuring excellent glare control (Dark Light), it is especially recommended for all workplaces with computer screens, where workers are subjected to artificial light for long periods. The accurate light beam directs the lighting exactly where it's needed on the work top. Particularly suitable for the relamping of obsolete products mounted in boards with crosspieces of the HD 84R type, with a step of 90mm or 100mm. Minimum installation time. Also available in a 2x version. Can also be used for continuous-row installations thanks to the coupling accessory supplied. Like all the devices of the SD line, there is a Plug&Light inverter for switching it on in the event of a blackout.



Power * W	• Dimensions (mm) •			Weight kg
	L	B	H	
1x18	680	85	79	1,2
1x36	1290	85	79	1,9
1x58	1590	85	79	2,5

Accessories

supplied

Order code	Description
15039	INTELLIGENT OPTICOM PHOTOSENSOR

Accessories

supplied

Order code	Description
-	CONTINUOUS ROW BRACKET 1x

SPECIAL VARIATIONS:
VERSIONS 2X with 180mm and 200mm spacing, COLOUR RENDERING ≥90,
COLOUR TEMPERATURE ON REQUEST: Contact the Beghelli sales network

Building automation

to be ordered separately

Order code	Description
20102	DOMOTIC CENTER
20124	WiFi BUILDING AUTOMATION CENTRAL UNIT
20104	BUILDING AUTOMATION CENTRAL UNIT
15022	DOMOTIC RADIO MODULE
15024	DALI MODULE
15034	1-10V MODULE
15025	GRANDE ESCO ITALIA RADIO MODULE

DOMOTIC
RADIO
MODULE

GRANDE
ESCO
ITALIA
MODULE

1÷10V
MODULE

MODULO
DALI

PLUG&LIGHT
MODULE

SD BUILDING AUTOMATION MODULES INDIVIDUALLY CONNECTED TO THE BEGHELLI SMARTDRIVER



INTELLIGENT PHOTOSENSOR

1. Autodimmer
Natural Light

2. Autodimmer
Dynamic Light

3. **opticom**
TECHNOLOGY

Smartphone Interface
Device programming and control system

RECESSED
MOUNTING

1X VERSION



The same code is suitable for HD 84R slot installation with spacing of either 90mm or 100mm in ROW formation

2X VERSION ON REQUEST



Suitable for installation in HD 84R slats. Separate codes are available for 90mm and 100mm spacing

CONTINUOUS ROW MOUNTING



- CONTINUOUS ROW BRACKET 1x

supplied

DARK LIGHT WIDE OPTIC

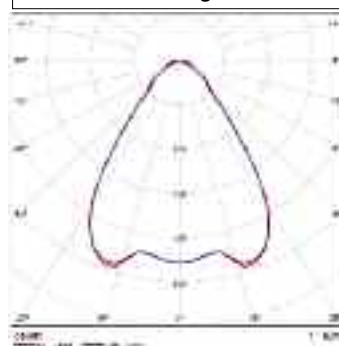


Efficiency and dimming

The increase in luminous efficacy (lm/W) and the useful life of the device may vary significantly according to the degree to which it is dimmed. Assuming an average level of 50% of the luminous flux, the following results are obtained with the ID LED:

Dimming SD 50%
Device duration +40%
Luminous efficiency +15%

Polar Diagram



EMERGENCY WITH LED INVERTER

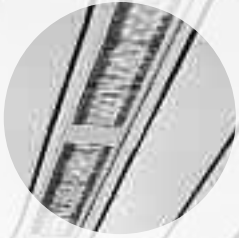
TR AT LG LGFM

	19358	INVERTER PLUG&LIGHT LED SE/SA 1H 20-60V	to be ordered separately
	19359	INVERTER PLUG&LIGHT LED SE/SA 3H 20-60	to be ordered separately
	19364	INV LED IP65 AT/LG 123H	to be ordered separately
	19365	INV LED IP65 LGFM 123H	to be ordered separately
	RA02	AUTORIPARA INVERTER BATTERY 7.2V 1.7Ah	to be ordered separately

ID LED

SmartDriver electronic reactor **SD**

Potenza* W	Order code	Description	LED Power W	Colour Temp. K	Colour rendering	Power consumption Max W	N° LEDs	Flux of LEDs Im (Tj=25°C)	Flux of fixture Im	Luminous efficiency lm/W	Energy Class	Packaging
18	ID18SD	ID LED 1x18 SD 4K	10	4000	>80	12	45	1740	1450	121	A++	1/1
36	ID36SD	ID LED 1x36 SD 4K	18	4000	>80	20	90	2880	2160	120	A++	1/1
58	ID58SD	ID LED 1x58 SD 4K	36	4000	>80	40	115	5760	4320	120	A++	1/1



Relamping operation on slat ceiling with a decrease in energy consumption of more than 85% compared to fluorescent devices. The ID LED devices are designed to produce the same degree of illumination as the fluorescent devices they replace.



RECESSED
MOUNTING



**INTEGRATED INTELLIGENT
PHOTOSENSOR ON SD VERSIONS**

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COMPENSATION FOR NATURAL LIGHT IN THE
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AUTODIMMER DYNAMIC LIGHT
AUTOMATIC REDUCTION OF LIGHT EMITTED IN THE
ABSENCE OF PEOPLE, FOR POTENTIAL FURTHER ENERGY
SAVINGS OF MORE THAN 20% - OVERALL EXPECTED
SAVINGS OF MORE THAN 85%

Rail System LED

Aesthetics, versatility and
Pre-wired channel
speed, for ambient and
accent lighting



A continuous-row LED system that meets every lighting need. Seven different optic systems and the possibility to add decorative lighting on a three-phase binary. This is RAIL System - a pre-wired system that's ideal for both shopping centres and industrial applications.

It consists of modules that are quick and easy to install, including the pre-wired channel module with quick connection, on which one of the seven lighting modules (with different optics) is fixed, inserting the three-phase binary module on the same channel to house the floodlights for the decorative effects. The design envisages channels and modules of 1500 or 600mm, coupling elements and articulated joints with 2, 3 and 4 directions, and various suspension or ceiling-mounting systems. Not forgetting the smart modular components like the Plug&Light inverter for emergency integration, the smart photosensor for movement detection, and the self-adjusting or locally commanded (with the Opticom system) dimming function.


Base components

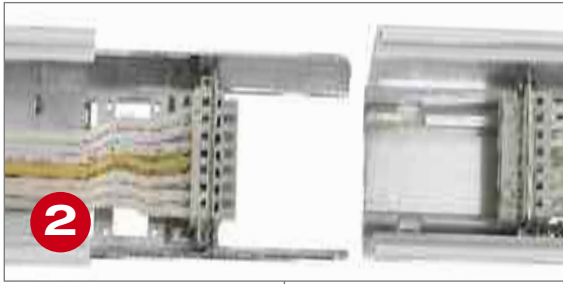
Rail System LED is an advanced continuous row system with a host of possible variations, rendering it



- 1 Electrified tri-phase rail** or recessed installation within the supporting profile, can accommodate floodlights of various power levels

Key elements of the system:

- 1** Suspension and ceiling mounting elements
- 2** Pre-wired supporting profile (0,6m, 1,5m)
- 3** LED SD lighting module (0.6m, 1.5m)
- 4** Electrified tri-phase rail (1,5m)
- 5** Powered head
- 6** End head
- 7** Connection modules: 2, 3, 4 way joints
- 8**  Module (0,6 m)

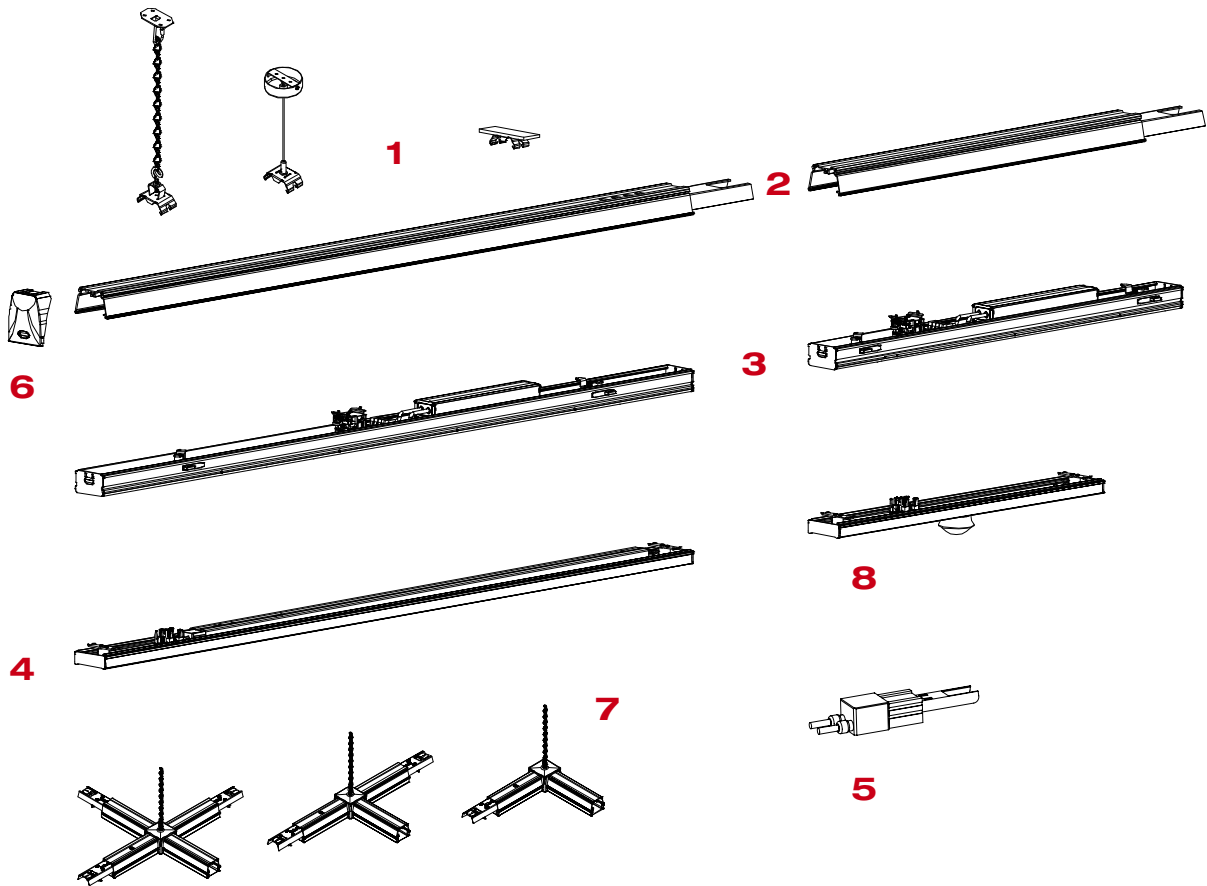


2 Pre-wired supporting profile

equipped with a quick-connect system for speedy installation. Mounted before the other components, comprises the supporting structure of the system

3 Wired LED SD device

Available with 7 different optics, with a choice of concentrator, diffusor, asymmetrical and symmetrical options. The quick-locking system is also equipped with an electrical connection





GENERAL CHARACTERISTICS

- Equivalent Power*** 2x18, 2x80W
- Power supply** Universale Multy Voltage
93÷265 Vac - 50/60Hz,
176÷250 Vdc
- Standard** EN 60598-1, EN 60598-2-1,
EN 60598-2-22 (fundamental
requirements), EN62471
(Photobiological hazard)
- Protection grade** IP40
- Working temp.** -20 ÷ +40°C
- Installation** suspension with steel cable,
suspension with chain, ceiling-mounting
with bracket rail on ceiling or bracket rail
with special slats
- Body** extruded aluminium RAL 9010
- Optic** transparent plexiglass
- Power supply** Electronic SD (cos φ 0.96)
Electronic intelligent dimming system
- MTBF Control gear**** 80.000h
- Luminous flux
maintenance**** > 60.000h (L80B20)
- Colour tolerance** 3 SDCM

* Equivalent power for comparison with fluorescent tube fixtures

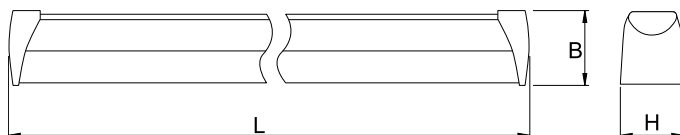
** At a reference working temperature of 25°C

Rail System LED

Pre-wired supporting profile + SD lighting module

Continuous-row system with pre-wired modular channel. A single supporting channel is the basis for installing both the three-phase binary and the specific lighting device, available with 7 different optics to meet most lighting needs in small and large scale retail, offices and industrial applications. The pre-wiring of the channel uses 7 poles: 3 phases - Neutral - Earth - Emergency lighting - DALI BUS. All the components are made of extruded aluminium with high-precision inserts and mechanical locking. Guaranteeing extremely quick installation, the range allows scope for every level of system complexity and any type of continuous-row routing.

The operation of the Opticom system requires a radio module and smart photosensor, which can work either in auto-dimming mode or directly commanded via a smartphone to adjust the brightness intensity with the exposed device. LED Rail System can also be controlled via WiFi, thanks to the optional domotic control unit that also enables all the operating modes envisaged by the Smart Driver (SD) protocol.



Power W*	• Dimensions (mm) •			Weight kg
	L	B	H	
2x80	1416	73	80	3,6
2x18	568	73	80	1,7

Building automation to be ordered separately

Order code	Description
20102	DOMOTIC CENTER
20124	WiFi BUILDING AUTOMATION CENTRAL UNIT
20104	BUILDING AUTOMATION CENTRAL UNIT
15022	DOMOTIC RADIO MODULE
15024	DALI MODULE
15034	1-10V MODULE
15025	GRANDE ESCO ITALIA RADIO MODULE
15035	OPTICOM AUTODIMMER SENSOR RAIL

SPECIAL VARIATIONS: COLOUR RENDERING ≥90, COLOUR TEMPERATURE ON REQUEST, IP54 VERSION ON REQUEST Contact the Beghelli sales network

INVERTER	EMERGENCY WITH LED INVERTER		TR	AT	LG	LGFM
		19358	INVERTER PLUG&LIGHT LED SE/SA 1H 20-60V	to be ordered separately		
	19359	INVERTER PLUG&LIGHT LED SE/SA 3H 20-60	to be ordered separately			
	19355	INV LED AT/LG 6W 55V 123H	to be ordered separately			
	19356	INV LED LGFM 6W 55V 123H	to be ordered separately			
	RA02	AUTORIPARA INVERTER BATTERY 7.2V 1.7Ah	to be ordered separately			

DOMOTIC
RADIO
MODULE

GRANDE
ESCo
ITALIA
MODULE

1÷10V
MODULE

DALI
MODULE

PLUG&LIGHT
MODULE

SD BUILDING AUTOMATION MODULES INDIVIDUALLY CONNECTED TO THE BEGHELLI SMARTDRIVER



INTELLIGENT PHOTOSENSOR

1. Autodimmer
Natural Light

2. Autodimmer
Dynamic Light

3. **opticom**
TECHNOLOGY

Smartphone Interface
Device programming and control system

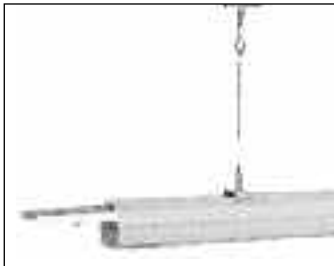
CEILING MOUNTING



14537 CEILING RAIL BRACKET

to be ordered separately

SUSPENDED MOUNTING



14534 RAIL BRACKET WITH STEEL CABLE 3M

to be ordered separately



14535 RAIL BRACKET WITH CHAIN 3M

to be ordered separately

CLOSURE HEAD



14532 RAIL HEAD

to be ordered separately

14538 RAIL HEAD TRI-PHASE RAIL

to be ordered separately

CEILING MOUNTING



14536 RAIL BRACKET SPECIAL SLATS

to be ordered separately

7-POLE ASSEMBLY SYSTEM



14530 RAIL POWER SUPPLY 7 WIRE

to be ordered separately



COVERS



14533 RAIL COVER PC 1500

to be ordered separately

14539 RAIL COVER PC 600

to be ordered separately



SD lighting module

SD wired LED device



Power W*	• Dimensions (mm) •			Weight kg
	L	B	H	
2x80	1416	68	37	1,7
2x18	568	68	37	0,8

SD lighting module

SmartDriver electronic reactor

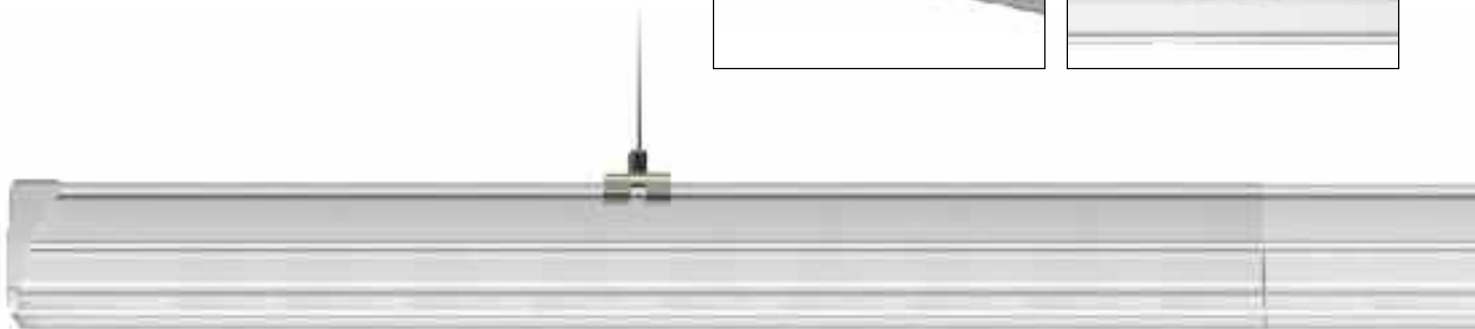
Power* W	Code Order	Description	Optic	LED Power W	Colour temperature K	Chromatic performance	Absorption max W	N° LED	LED Flux lm (Tj=25°C)	Fixture Flux lm	Luminous efficiency lm/W	Energetic class	Packaging
2x80	14500	RAIL LED 2x80 1500 WD SD 4K	Wide (90°)	59	4000	>80	65 (56 ^{***})	288	10000	9000	139	A++	1/10
2x80	14501	RAIL LED 2x80 1500 SP SD 4K	Sharp (25°)	59	4000	>80	65 (56 ^{***})	288	10000	9000	139	A++	1/10
2x80	14502	RAIL LED 2x80 1500 NR SD 4K	Narrow (60°)	59	4000	>80	65 (56 ^{***})	288	10000	9000	139	A++	1/10
2x80	14503	RAIL LED 2x80 1500 DS SD 4K	Double Asimm	59	4000	>80	65 (56 ^{***})	288	10000	9000	139	A++	1/10
2x80	14504	RAIL LED 2x80 1500 RS SD 4K	Right Asimm	59	4000	>80	65 (56 ^{***})	288	10000	9000	139	A++	1/10
2x80	14505	RAIL LED 2x80 1500 LS SD 4K	Left Asimm	59	4000	>80	65 (56 ^{***})	288	10000	9000	139	A++	1/10
2x80	14506	RAIL LED 2x80 1500 FF SD 4K	Flat (120°)	59	4000	>80	65 (56 ^{***})	288	10000	9000	139	A++	1/10
2x18	14540	RAIL LED 2x18 600 WD SD 4K	Wide (90°)	23	4000	>80	26	144	4000	3600	140	A++	1/10
2x18	14541	RAIL LED 2x18 600 SP SD 4K	Sharp (25°)	23	4000	>80	26	144	4000	3600	140	A++	1/10
2x18	14542	RAIL LED 2x18 600 NR SD 4K	Narrow (60°)	23	4000	>80	26	144	4000	3600	140	A++	1/10
2x18	14543	RAIL LED 2x18 600 DS SD 4K	Double Asimm	23	4000	>80	26	144	4000	3600	140	A++	1/10
2x18	14544	RAIL LED 2x18 600 RS SD 4K	Right Asimm	23	4000	>80	26	144	4000	3600	140	A++	1/10
2x18	14545	RAIL LED 2x18 600 LS SD 4K	Left Asimm	23	4000	>80	26	144	4000	3600	140	A++	1/10
2x18	14546	RAIL LED 2x18 600 FF SD 4K	Flat (120°)	23	4000	>80	26	144	4000	3600	140	A++	1/10

*** The power consumption has an auto derating to the power indicated in parenthesis if the product is powered by voltage less than 110 Vac.

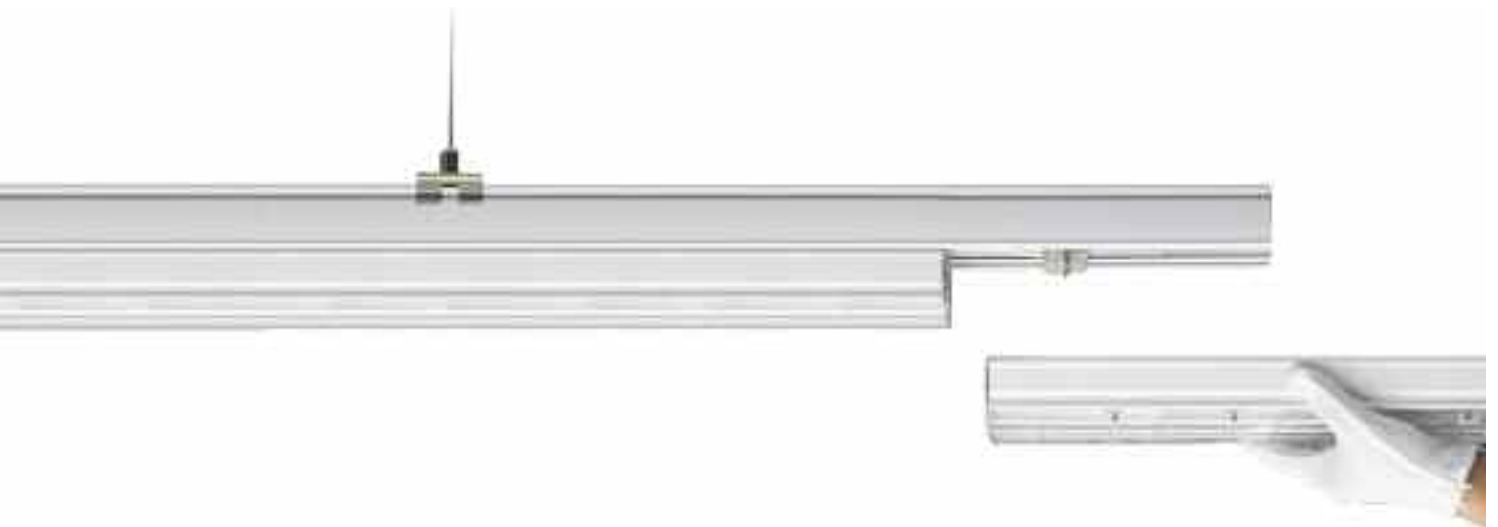
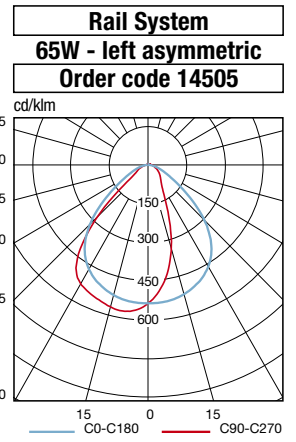
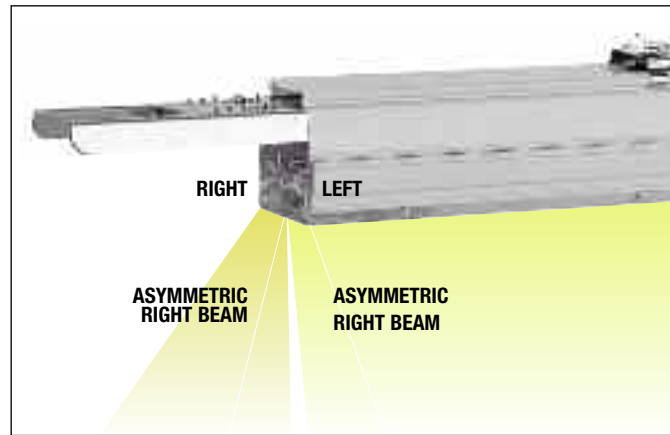
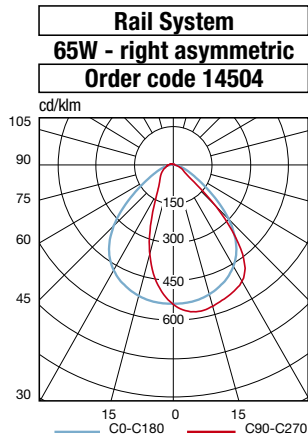
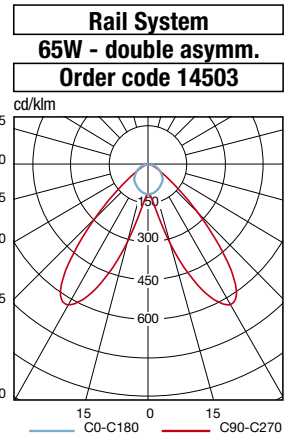
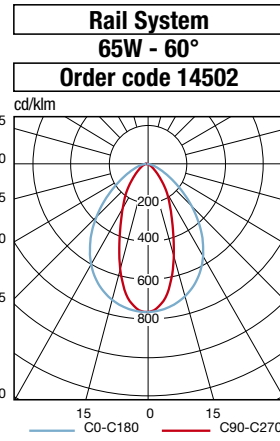
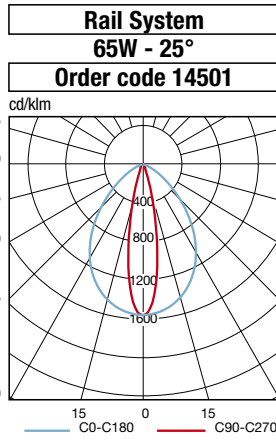
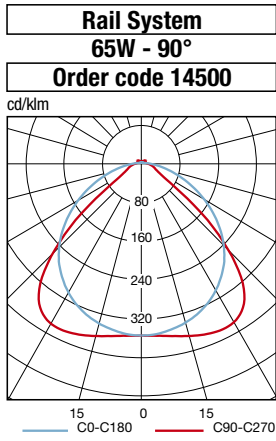
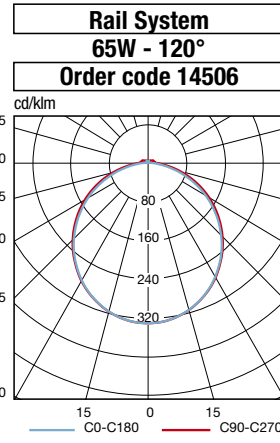
SUSPENDED MOUNTING



FIXING SYSTEM



7 Optics, 7 different Polar diagrams



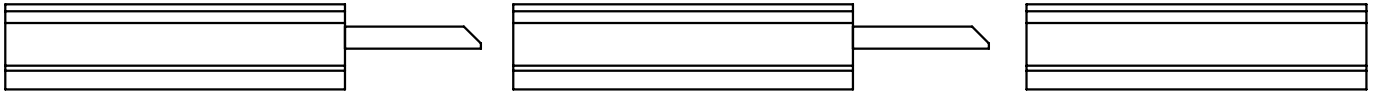


Pre-wired supporting profile

Structure component

Equipped with a quick connection system for extremely fast installation. Mounted prior to the other components, it forms the supporting structure of the system. Continuous-row installation.

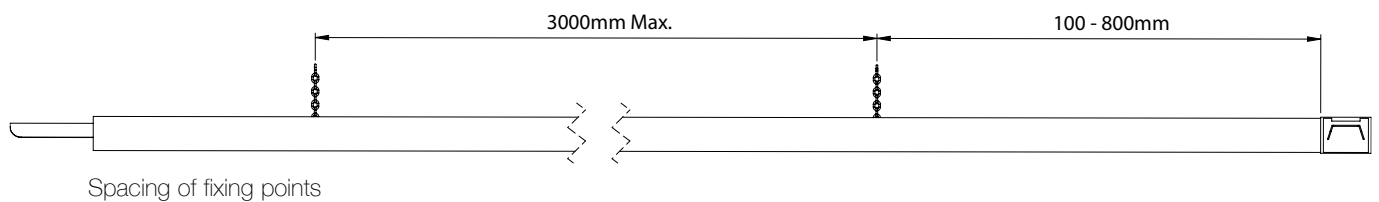
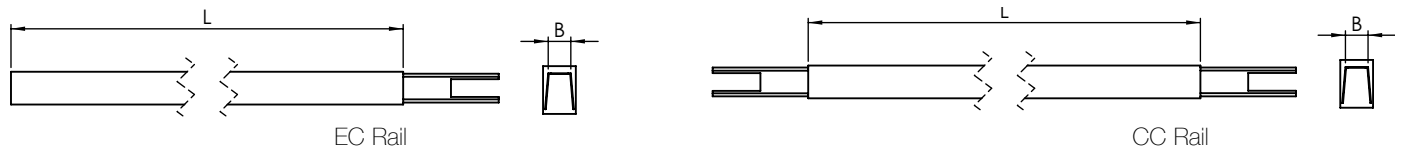
Quantity of lamps in a continuous row per phase



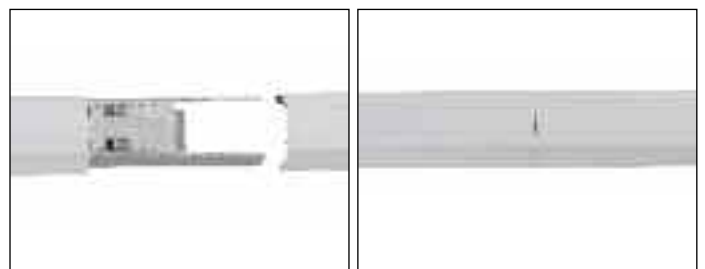
Power W	Length mm	Cable section mm ²	Quantity of lamps 230 Vac	Quantity of lamps 110 Vac	Length of line (mm) 230 Vac	Length of line (mm) 110 Vac
2x18	568	2,5	135	67	75	37
2x80	1416	2,5	54	27	75	37

The quantities and lengths indicated are for each phase.

The electrified rail consists of 3 phases + 2 that can be used to power the emergency lighting system or a BUS (Dali or Logica)



CONTINUOUS ROW MOUNTING



EC rail - supporting profile with lateral power supply

Model mm	Code order	Description	cable section mm ²	• Dimensions (mm) • L B		Weight kg	Packaging
600	14516	RAIL 600 7 WIRE EC	2,5	568	68,4	0,7	1/10
1500	14510	RAIL 1500 7 WIRE EC	2,5	1416	68,4	1,4	1/10

CC rail - supporting profile with central power supply (from above)

Model mm	Code order	Description	cable section mm ²	• Dimensions (mm) • L B		Weight kg	Packaging
1500	14511	RAIL 1500 7 WIRE CC	2,5	1416	68,4	1,4	1/10

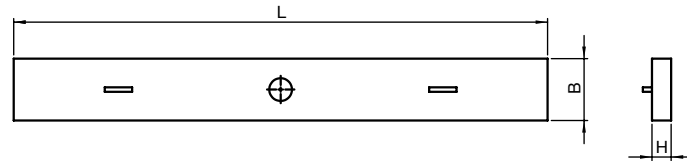
To power a continuous row system from above, only one DC rail is required, which will supply power to all the EC rails in both directions



Electrified binary module

Structure component

For assembling three-phase spotlights of the ZOOM LED or EXPO LED type



• Dimensions (mm) •			Weight kg
L	B	H	
1416	68	21	1,7

Electrified binary module

Order code	Description	Packaging
14531	SPOT RAIL 1500 7 WIRE	1/10



Smart photosensor

Structure component

The smart photosensor module exploits the Opticom, Autodimmer Natural Light and Dynamic Light technologies on all the Rail modules associated with it. These modules must be combined with the domotic radio module (15022).



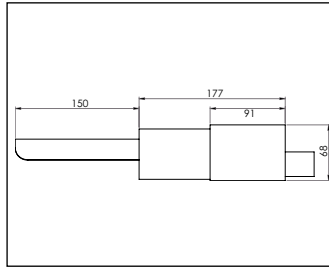
• Dimensions (mm) •			Weight kg
L	B	H	
568	68	21	0,7

Smart photosensor

Order code	Description	Packaging
15035	RAIL AUTODIMMER OPTICOM 600	1

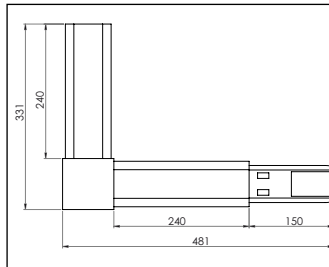
Rail System head and joint connections

RAIL SYSTEM HEAD

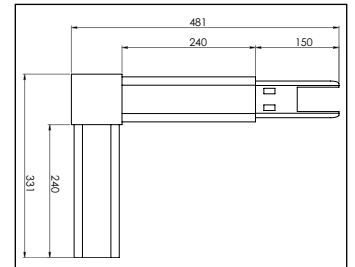


14520 RAIL POWERED HEAD 7 WIRE

L JOINT

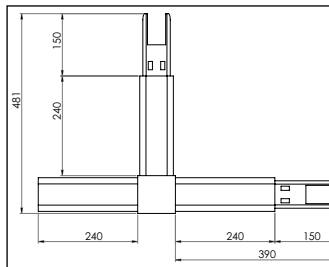


14521 RAIL L INL OUTR 7 WIRE

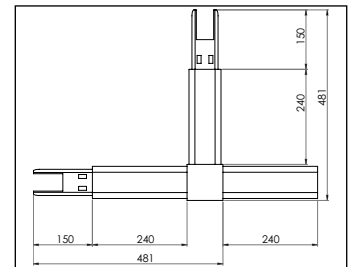


14522 RAIL L INR OUTL 7 WIRE

T JOINT

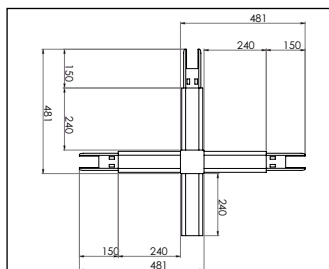


14524 RAIL T 1INL 2OUTR 7 WIRE

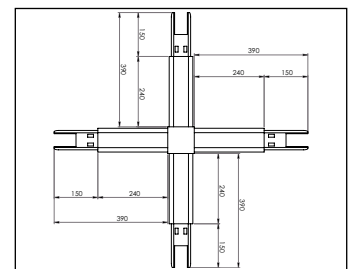


14525 RAIL T 1INR 2OUTL 7 WIRE

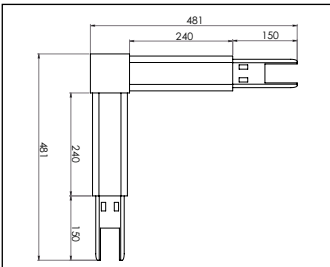
X JOINT



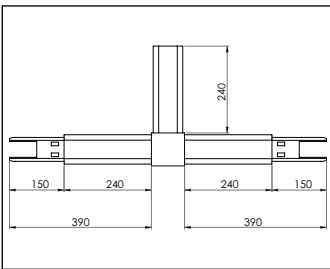
14528 RAIL X 1 IN 3OUT 7 WIRE



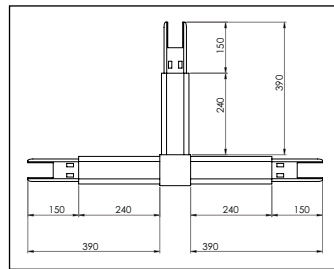
14529 RAIL X POWER 4OUT 7 WIRE



14523 RAIL L POWER 2OUT 7 WIRE




14526 RAIL T 1INC 2OUTS 7 WIRE



14527 RAIL T POWER 3OUT 7 WIRE





Pre-wired multi-functional channel installed in large-scale retail environments . In this environment, the flexibility of use of this solution is particularly apparent, with asymmetrical optics that perfectly illuminate the goods on display without disturbing customers.



**INTEGRATED INTELLIGENT
PHOTOSENSOR ON SD VERSIONS**

AUTODIMMER NATURAL LIGHT

COMPENSATION FOR NATURAL LIGHT IN THE ENVIRONMENT, FOR ENERGY SAVINGS OF OVER 75%

AUTODIMMER DYNAMIC LIGHT

AUTOMATIC REDUCTION OF LIGHT EMITTED IN THE ABSENCE OF PEOPLE, FOR POTENTIAL FURTHER ENERGY SAVINGS OF MORE THAN 20% - OVERALL EXPECTED SAVINGS OF MORE THAN 85%

HCL - HUMAN CENTRIC LIGHTING



BIODYNAMIC LIGHTING WITH VARIABLE INTENSITY AND COLOUR TEMPERATURE

Lens Panel

multi-lenticular technology
with domotic control
becomes biodynamic light



The new LED lighting for the commercial sector really stands out for its elegance and performance.

The versatility of the LED Lens Panel is based on its structural simplicity. The body is just 8mm thick, and contains a state-of-the-art monolithic shield with a multi-lenticular optic to maximise illumination on the ground while avoiding any glare effect. The ED version has an extremely compact driver that sits comfortably within the profile, so the overall thickness of the installed luminaire is just 8mm.

The SD system, on the other hand, offers all the possibilities of a domotic system for lighting scene management, movement detection and controlled or automatic dimming. Lens Panel is also available in the HCL (Human Centric Lighting) version - the biodynamic lighting system that follows sunlight rhythms and colour temperature to improve efficiency and the well-being of the people in the workplace.



GENERAL CHARACTERISTICS

- Equivalent Power*** 2x36, 2x58 W
- Power supply** **SD version:** Universale Multy Voltage
93÷265Vac 50÷60Hz
176÷250Vdc
ED version: 230Vac ±10% 50Hz
- Standard** EN 60598-1, EN 60598-2-1,
EN 60598-2-22 (fundamental
requirements), EN62471
(Photobiological hazard)
- Protection grade** IP40 partly visible, IP20 partly recessed
- Working temp.** -20 ÷ +40°C
- Installation** ceiling, suspended mounting
- Body** galvanised Sheet steel painted with
polyester powders RAL 9003
- Lenses** transparent plexiglass
- UGR** <19
- Luminance** 65° <3000 cd/mq
- Power supply** **SD version:**
Electronic SD (Cos $\varphi \geq 0,96$)
Electronic intelligent dimming system
ED version:
Electronic ED (Cos $\varphi \geq 0,95$)
- MTBF Control gear**** 80.000h
- Luminous flux
maintenance**** > 60.000h (L80B20)
- Colour tolerance** 3 SDCM

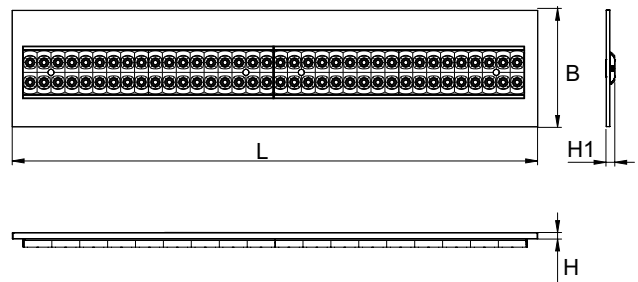
* Equivalent power for comparison with fluorescent tube fixtures

** At a reference working temperature of 25°C

Lens Panel LED

Ceiling, Suspension, M600

This product is designed for flush-mounting installation in M600 modules, but its true elegance emerges in ceiling-mounting and suspended installations without an adapter frame. The profile is one of the slimmest on the market (8mm). In the Eco Driver version, the power supply unit is inserted in the lamp profile. Slimmer than a LED panel, but offering a far higher EFFICIENCY level (>130lm/W). Optic created with the multi-lenticular system with high transmittance, to reduce the glare effect (UGR <19) whilst maintaining the same lighting efficiency. HCL version with biodynamic colour temperature: the Opticom system offers the possibility to select the required colour temperature (from 2700K to 6000K), or to automatically follow the natural tones of the sunlight (Human Centric Lighting) during the daytime, thanks to the domotic control centre.



Version	• Dimensions (mm) •				Weight kg
	L	B	H	H1	
1200x300	1196	296	8	19	4.9

Accessories **SD**

supplied

Order code Description

15039 INTELLIGENT OPTICOM PHOTOSENSOR

Accessories

to be ordered separately

Order code Description

70033 SUSPENSION KIT

20100 CEILING FRAME LED PANEL 300X1200

(only for SD versions or when paired with the Plug&Light inverter)

Building automation **SD**

to be ordered separately

Order code Description

20102 DOMOTIC CENTER

20124 WiFi BUILDING AUTOMATION CENTRAL UNIT

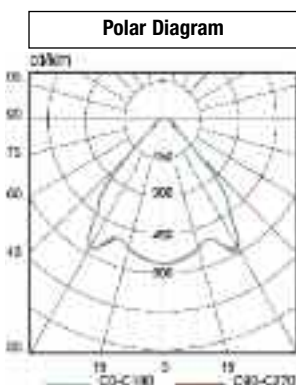
20104 BUILDING AUTOMATION CENTRAL UNIT

15022 DOMOTIC RADIO MODULE

15024 DALI MODULE

15034 1-10V MODULE

15025 GRANDE ESCO ITALIA RADIO MODULE



Efficiency and dimming

The increase in luminous efficacy (lm/W) and the useful life of the device may vary significantly according to the degree to which it is dimmed. Assuming an average level of 50% of the luminous flux, the following results are obtained with the Lens Panel LED:

- Dimming **SD**** 50%
- Device duration** +40%
- Luminous efficiency** +15%



SD BUILDING AUTOMATION MODULES INDIVIDUALLY CONNECTED TO THE BEGHELLI SMARTDRIVER



INTELLIGENT PHOTOSENSOR (SUPPLIED WITH SD VERSIONS)

1. Autodimmer Natural Light
2. Autodimmer Dynamic Light
3. Smartphone Interface Device programming and control system

MULTI-LENTICULAR SCREEN



RECESSED MOUNTING



SUSPENDED MOUNTING



CEILING MOUNTING



70033 SUSPENSION KIT

20100 CORNICE PLAFONE 300x1200

SPECIAL VARIATIONS: COLOUR RENDERING ≥ 90 , COLOUR TEMPERATURE ON REQUEST
Contact the Beghelli sales network

EMERGENCY WITH LED INVERTER



INVERTER	19358	INVERTER PLUG&LIGHT LED SE/SA 1H 20-60V	to be ordered separately
	19359	INVERTER PLUG&LIGHT LED SE/SA 3H 20-60	to be ordered separately
	19364	INV LED IP65 AT/LG 123H	to be ordered separately
	19365	INV LED IP65 LGFM 123H	to be ordered separately
	RA02	AUTORIPARA INVERTER BATTERY 7.2V 1.7Ah	to be ordered separately



Human Centric Lighting (HCL)

The effects of lighting on the biological rhythm of the human body have a direct impact on comfort, productivity and health in indoor environments. The model that should be followed is that dictated by nature with regard to light intensity, colour and direction, in harmony with our internal biological clock.

In order to perform this function, simply incorporate one or more Lens Panel HCL devices into the domotics control unit, which will then manage the dynamic synchronisation of the light variations corresponding with the hours of the solar day with the human biological clock (circadian cycle).

Similarly, in both commercial and artistic exhibition environments, placing the correct emphasis on the objects on display is essential. In such instances, the colour temperature can be varied in accordance with the type of merchandise on display and the atmosphere that you want to create.

This technology, known in the past as biodynamic lighting, was previously used very little due to the high cost of these solutions. However, courtesy of the SmartDriver system advanced control dynamics and new, high-performance LEDs, this technology is now accessible to everyone, and is available in countless colour temperature and light intensity variants.

Lens Panel Human Centric Lighting (HCL) - UGR <19



SmartDriver electronic reactor

Power* W	Order code	Description	LED Power W	Colour Temp. K	Colour rendering	Power consumption Max W	N° LEDs	Flux of LEDs lm (Tj=25°C)	Flux of fixture lm	Luminous efficiency lm/W	Energy Class	Packaging
2x36	LP236HCL	LP HCL 236 300x1200 UGR19 SD	38	2700/6000	>80	41	72	6100	5300	130	A++	1/3
2x58	LP258HCL	LP HCL 258 300x1200 UGR19 SD	50	2700/6000	>80	56	72	7500	7000	125	A++	1/3

Lens Panel - UGR <19

SmartDriver electronic reactor

Power* W	Order code	Description	LED Power W	Colour Temp. K	Colour rendering	Power consumption Max W	N° LEDs	Flux of LEDs lm (Tj=25°C)	Flux of fixture lm	Luminous efficiency lm/W	Energy Class	Packaging
2x36	LP236SD	LENS PAN 236 300x1200 UGR19 SD4K	38	4000	>80	41	72	6100	5300	130	A++	1/3
2x58	LP258SD	LENS PAN 258 300x1200 UGR19 SD4K	50	4000	>80	56	72	7500	7000	125	A++	1/3

Lens Panel - UGR <19

Eco Driver electronic reactor

Power* W	Order code	Description	LED Power W	Colour Temp. K	Colour rendering	Power consumption Max W	N° LEDs	Flux of LEDs lm (Tj=25°C)	Flux of fixture lm	Luminous efficiency lm/W	Energy Class	Packaging
2x36	LP236ED	LENS PAN 236 300x1200 UGR19 ED4K	29	4000	>80	32	72	5400	4500	140	A++	1/3
2x58	LP258ED	LENS PAN 258 300x1200 UGR19 ED4K	46	4000	>80	50	72	7100	6500	130	A++	1/3



Installation in an open plan office, where glare levels (UGR <math><19</math>) are a priority for those who use personal computers. However, it is equally important to ensure that a sufficient level of light is diffused throughout the environment





**INTEGRATED INTELLIGENT
PHOTOSENSOR ON SD VERSIONS**

AUTODIMMER NATURAL LIGHT

COMPENSATION FOR NATURAL LIGHT IN THE ENVIRONMENT, FOR ENERGY SAVINGS OF OVER 75%

AUTODIMMER DYNAMIC LIGHT

AUTOMATIC REDUCTION OF LIGHT EMITTED IN THE ABSENCE OF PEOPLE, FOR POTENTIAL FURTHER ENERGY SAVINGS OF MORE THAN 20% - OVERALL EXPECTED SAVINGS OF MORE THAN 85%

SD LED Panel

LED optic technology,
UGR <19 for video terminals
on flat plane



The highest level of simplicity for tertiary LED lighting. LED Panel, is designed for use in offices, large areas, modern and minimalist work sites.

The special micro prismatic anti-glare diffuser grants it an UGR <19 making it perfect for use in work areas occupied for long periods of time or where video terminals are present.

The minimal design, exalts the architectural design of modern spaces with false ceilings but the most appealing look is achieved with suspension lighting that enhances the space with airy and light elements thanks to the reduced structural impact (the thickness of the SD LED Panel is only 9 mm).



GENERAL CHARACTERISTICS

- Equivalent Power*** 2x36W
- Power supply** Universale Multy Voltage
93÷265 Vac - 50/60Hz,
176÷250 Vdc
- Standard** EN60598-1; EN60598-2-22;
EN62471 (Photobiological hazard)
- Protection grade** IP20 partly visible, IP40 partly recessed
- Working temp.** -20 ÷ +40°C
- Installation** recessed M600, ceiling, suspension
- Frame** Aluminum, white color
- PMMA** diffuser stabilized to UV rays
self-extinguishing, micro prismatic,
anti-glare
- UGR** <19
- Luminance** 65° <3000 cd/mq)
- Colour Temperature** 4000K
- Power supply** **Electronic SD** (cos φ 0.96)
Electronic intelligent dimming system
- MTBF Control gear**** 80.000h
- Luminous flux maintenance**** >50.000h (L80B20)
- Colour tolerance** 3 SDCM

* Equivalent power for comparison with fluorescent tube fixtures
** At a reference working temperature of 25°C

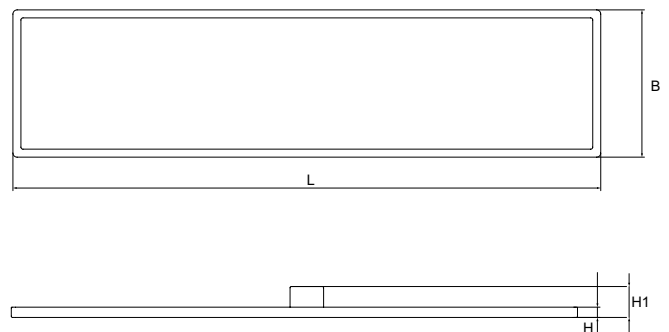
LED Panel SD UGR<19

Ceiling, suspension, M600

Innovative and highly versatile LED source device. The highly minimal thickness, and the reduced weight permit suspension installation even in prestigious architectural spaces.

The extremely high efficiency of the LEDs and the opal micro prismatic diffuser screen allow the use of this revolutionary device in all spaces that are occupied for long periods of time and demand excellent visual comfort such as schools, hotels and shopping centers. Installation is easy with the exclusive rapid fixing system.

Also available is an emergency kit that includes an inverter and battery for activation in case of blackouts both in the AT and LG intelligent versions and with the latest Plug&Light immediate-connection inverter.



Power W*	• Dimensions (mm) •				Weight kg
	L	B	H	H1	
2x36	1196	296	9	41	4.9

Accessories **SD** supplied

Order code	Description
15039	INTELLIGENT OPTICOM PHOTOSENSOR

SPECIAL VARIATIONS:
COLOUR TEMPERATURE ON REQUEST, IP65 VERSION
Contact the Beghelli sales network

Accessories to be ordered separately

Order code	Description
20094	SUSPENSION KIT
20097	CEILING ADAPTOR

Building automation **SD** to be ordered separately

Order code	Description
20102	DOMOTIC CENTER
20104	BUILDING AUTOMATION CENTRAL UNIT
15022	DOMOTIC RADIO MODULE
15024	DALI MODULE
15034	1-10V MODULE
15025	GRANDE ESCO ITALIA RADIO MODULE

DOMOTIC
RADIO
MODULE

GRANDE
ESCo
ITALIA
MODULE

1÷10V
MODULE

DALI
MODULE

PLUG&LIGHT
MODULE

SD BUILDING AUTOMATION MODULES INDIVIDUALLY CONNECTED TO THE BEGHELLI SMARTDRIVER



INTELLIGENT PHOTSENSOR

1. Autodimmer
Natural Light

2. Autodimmer
Dynamic Light

3. **opticom**
TECHNOLOGY

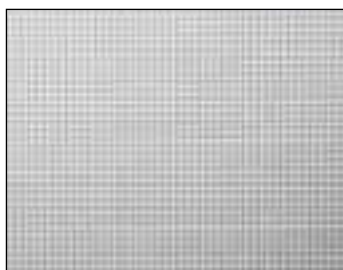
Smartphone Interface
Device programming and control system

SUSPENDED MOUNTING



20094 SUSPENSION KIT

PRISMATIC GLASS DIFFUSER



CEILING MOUNTING



20100 CEILING ADAPTOR

Efficiency and dimming

The increase in luminous efficacy (lm/W) and the useful life of the device may vary significantly according to the degree to which it is dimmed. Assuming an average level of 50% of the luminous flux, the following results are obtained with the LED Panel SD:

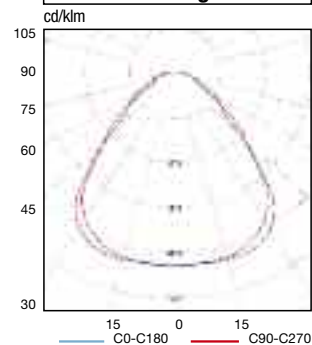
Dimming SD 50%
Device duration +40%
Luminous efficiency +10%

EMERGENCY WITH LED INVERTER

TR AT LG LGFM

	19358	INVERTER PLUG&LIGHT LED SE/SA 1H	to be ordered separately
	19359	INVERTER PLUG&LIGHT LED SE/SA 3H	to be ordered separately
	19364	INV LED IP65 AT/LG 123H	to be ordered separately
	19365	INV LED IP65 LGFM 123H	to be ordered separately
	RA02	AUTORIPARA INVERTER BATTERY 7.2V 1.7Ah	to be ordered separately

Polar Diagram



LED Panel UGR <19

SmartDriver electronic reactor

Power* W	Order code	Description	LED Power W	Colour Temp. K	Colour rendering	Power consumption Max W	N° LEDs	Flux of LEDs lm (Tj=25°C)	Flux of fixture lm	Luminous efficiency lm/W	Energy Class	Packaging
2x36	236PLSD	LED PANEL 236 300x1200 UGR19 SD 4K	32	4000	>80	36	270	5500	4000	111	A++	1



Installation in open space offices, where glare (UGR<19) is a priority factor for those using PCs but where adequate light diffusion over the entire space is equally important.





**INTEGRATED INTELLIGENT
PHOTOSENSOR ON SD VERSIONS**

AUTODIMMER NATURAL LIGHT

COMPENSATION FOR NATURAL LIGHT IN THE
ENVIRONMENT, FOR ENERGY SAVINGS OF OVER 75%

AUTODIMMER DYNAMIC LIGHT

AUTOMATIC REDUCTION OF LIGHT EMITTED IN THE
ABSENCE OF PEOPLE, FOR POTENTIAL FURTHER ENERGY
SAVINGS OF MORE THAN 20% - OVERALL EXPECTED
SAVINGS OF MORE THAN 85%

P236/258 LED

LED technology,
ceiling and suspension
efficiency and saving

In P236 and P258 LED fixtures, particular care was devoted to the study of the louvre: with the aid of optical design software of the latest generation, the particular features of LED lighting have been optimised, achieving a minimal geometric shape that nevertheless allows total control of light reflections. The maximum performance in terms of intensity and uniformity of illumination to ensure maximum visual comfort and a very high light output.



GENERAL CHARACTERISTICS

Equivalent Power* 2x36, 2x58 W

Power supply Universale Multy Voltage 93÷265Vac
50÷60Hz 176÷250Vdc

Standard EN 60598-1, EN 60598-2-2,
EN 60598-2-22 (requisiti fondamentali),
EN 62471 (Rischio biologico esente)

Protection grade IP20

Working temp. -20 ÷ +40°C

Mounting ceiling, suspension

Housing polyester powder coated sheet steel
RAL 9003

Optic sheet metal Dark light type

UGR <19

Luminance 65° <1000cd/mq

Colour Temperature 4000K

Power Supply SELV electronic SD (cos $\varphi \geq 0.96$)
Electronic with intelligent dimming

MTBF Control gear** 65.000h

Luminous flux maintenance**
>70.000h (L80B20)

Colour tolerance 3 SDCM

* Equivalent power for comparison with fluorescent tube fixtures

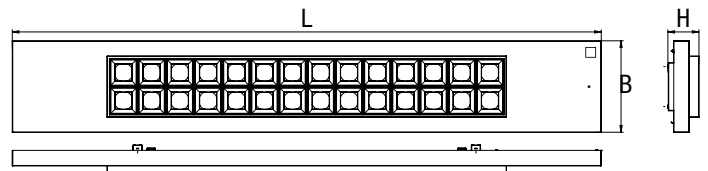
** At a reference working temperature of 25°C

P236/P258 LED

Ceiling, suspension

Ceiling or suspension fixture for installations in the tertiary sector. Characterized by excellent Dark Light anti-glare control, its use is particularly indicated in all workplaces with video terminals where employees are exposed to artificial light for long periods.

The exact emission of light on the work surface gives high characteristics of comfort and precision of the beam of light. A range of accessories is available for heavy wiring and for mechanical fixing in a continuous row to obtain a civil system of the latest generation. Additional accessories are also available for integrating emergency lighting: the LED Inverter for lighting up part of the fixture in the event of a black-out, or the LED Module for inserting in the seat provided.



Power W*	• Dimensions (mm) •			Weight kg
	L	B	H	
2x36	1327	206	70	4.6
2x58	1327	206	70	4.6

Efficiency and dimming

The increase in luminous efficacy (lm/W) and the useful life of the device may vary significantly according to the degree to which it is dimmed. Assuming an average level of 50% of the luminous flux, the following results are obtained with the P236/258 LED:

Dimming SD **50%**
Device duration **+40%**
Luminous efficiency **+15%**

Accessories

supplied

Order code	Description
15039	INTELLIGENT OPTICOM PHOTOSENSOR

Building automation

to be ordered separately

Order code	Description
20102	DOMOTIC CENTER
20104	BUILDING AUTOMATION CENTRAL UNIT
15021	AUTODIMMER SENSOR
15022	BUILDING AUTOMATION RADIO MODULE
15024	DALI MODULE
15034	1-10V MODULE
15025	GRANDE ESCO ITALIA RADIO MODULE

Accessories

to be ordered separately

Order code	Description
20080	P236/58 LED SINGLE SUSPENSION
20081	P236/58 LED SUSPENSION+SINGLE MAINS CABLE
20087	COUPLING+ CONT ROW SUSP CABLE
20088	THREE-PHASE THROUGH WIRING

SPECIAL VARIATIONS: COLOUR RENDERING ≥ 90 - COLOUR TEMPERATURE ON REQUEST, SICURO 24 SLGS Contact the Beghelli sales network



SD BUILDING AUTOMATION MODULES INDIVIDUALLY CONNECTED TO THE BEGHELLI SMARTDRIVER



INTELLIGENT PHOTOSENSOR

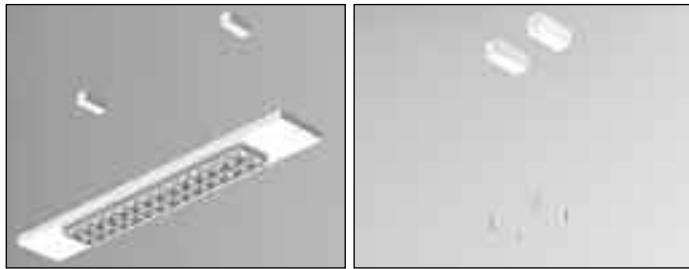
1. Autodimmer Natural Light

2. Autodimmer Dynamic Light

3. **opticom** TECHNOLOGY

Smartphone Interface Device programming and control system

SUSPENDED MOUNTING



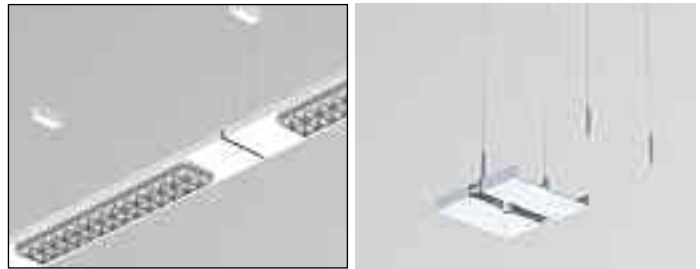
20080 P236/58 LED SINGLE SUSP

to be ordered separately

20081 P236/58 LED SUSP+SINGLE CABLE

to be ordered separately

CONTINUOUS ROW MOUNTING



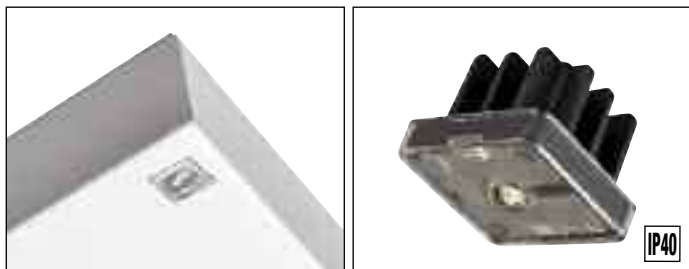
20088 THREE-PHASE THROUGH WIRING CEILING

to be ordered separately

20087 COUPLING+3-PHASE THROUGH WIRING SUSPENSION

to be ordered separately

EMERGENCY WITH INVERTER ECOLED



19350 INVERTER ECOLED SE 1N RM

to be ordered separately

19341 MODULO EM LED AT SE 1N

to be ordered separately

19342 MODULO EM LED LG SE/SA 1/3H

to be ordered separately

19343 MODULO EM LED LGFM SE/SA 1/3H

to be ordered separately

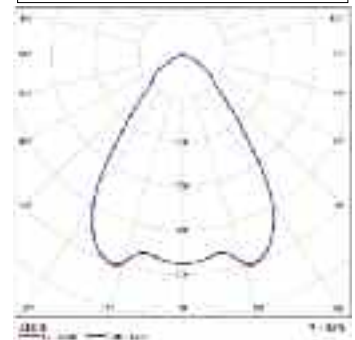
17467 MODULO EM LED SLG

to be ordered separately

DARK LIGHT WIDE OPTIC



Polar diagram



EMERGENCY WITH LED INVERTER

TR AT LG LGFM

19358 INVERTER PLUG&LIGHT LED SE/SA 1H 20-60V *to be ordered separately*

19359 INVERTER PLUG&LIGHT LED SE/SA 3H 20-60V *to be ordered separately*

19355 INV LED AT/LG 6W 55V 123H *to be ordered separately*

19356 INV LED LGFM 6W 55V 123H *to be ordered separately*

RA02 AUTORIPARA INVERTER BATTERY 7.2V 1.7Ah *to be ordered separately*

P236/258 LED

SmartDriver electronic reactor **SD**

Potenza* W	Order code	Description	LED Power W	Colour Temp. K	Colour rendering	Power consumption Max W	N° LEDs	Flux of LEDs Im (Tj=25°C)	Flux of fixture Im	Luminous efficiency lm/W	Energy Class	Packaging
2x36	P236SD	CEILING LED 2x36 SD 4000K	31	4000	>80	36	140	4800	4000	111	A++	1
2x58	P258SD	CEILING LED 2x58 SD 4000K	42	4000	>80	47	140	6160	5100	109	A++	1



P236/P258 LED suspension expresses elegance and simplicity at the same time. With the appropriate accessories, a continuous row system of great aesthetic effect can be obtained. However, the ceiling version maintains an excellent design and great speed of installation.





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SAVINGS OF MORE THAN 20% - OVERALL EXPECTED
SAVINGS OF MORE THAN 85%

D170/1150 LED

Simplicity can be
adjustable
technological
tilting as much as 60°



The best solution for accent lighting without three-phase tracks, with the possibility of connecting the Inverter LED to integrate emergency lighting. The fixture can be fitted with a nocturnal LED lamp with lenticular optic, to be inserted in a special compartment in the housing. Flexibility of use is another focus of the project: the same product has various optional louvers to obtain different angles of the beam of light, varying from 16° to 70°. The whole combined with a system that allows rotation in all directions, with an ample angle of tilting the lighting compartment.



GENERAL CHARACTERISTICS

Equivalent Power* 1x70, 1x150 W

Standard EN 60598-1, EN 60598-2-2,
EN 60598-2-22 (requisiti fondamentali),
EN 62471

Power supply Universale Multi Voltage 93÷265Vac
50÷60Hz 176÷250Vdc

Protection grade IP44 optic compartment, IP20 housing

Working temperature -20°C ÷ +40°C

Mountings recessed in false ceilings

Housing Polyester powder coated die-cast
aluminium RAL 9003

Louvre white PC with high reflectance (70°
supplied, 16°, 24° and 40° mirror
finished aluminium to be ordered
separately)

Diffuser Toughened glass 3 mm thick

Electronic gear SELV electronic SD (Cos $\eta \geq 0.97$)
Electronic with intelligent dimming

MTBF Control gear** 65.000h

Luminous flux 60.000h (1x150W) (L80B20)
maintenance** 70.000h (1x70W) (L80B20)

Colour tolerance 3 SDCM

* Equivalent power for comparison with metal halide fixtures

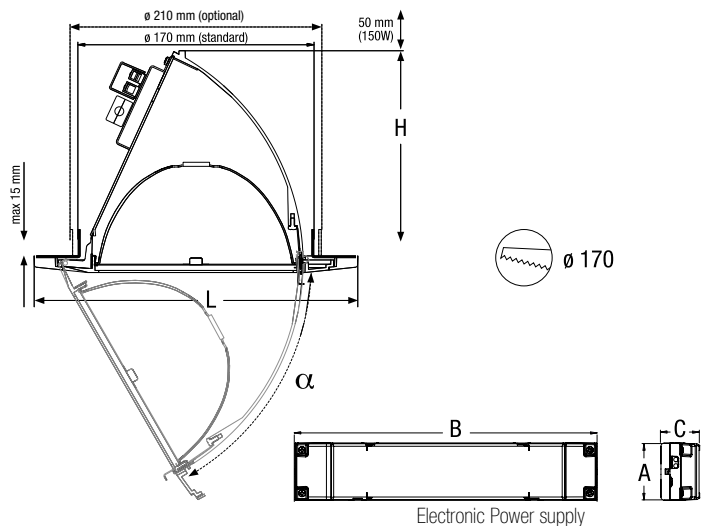
** At a reference working temperature of 25°C

D170/1150 LED adjustable

Downlight

Die-cast aluminium spotlight with high-efficiency LED source, white powder coated. Power supply box separate from the fixture for greater mounting flexibility and better heat dissipation. Quick coupling connection terminal board. White louvre with very high reflectance and complex geometry for a high light output (>97%), with highly transparent toughened glass. Optics adjustable through 345° and tilting with maximum inclination 60°.

An additional accessory is available for lighting the LED source of the device in the event of a black-out and an optional nocturnal lamp with lenticular optic for maximizing lighting on the ground. The adjustable DWL LED has been designed specifically for retail lighting, where it is essential to enhance the items on display. **Due to this particular feature it does not offer dimming with an AutoDimmer Sensor.**



Power * W	• Dimensions (mm) •					α max	Weight max kg
	L	A	B	C	H		
1x70	233	45	239	31	150	60°	2.3
1x150	233	45	239	31	150	60°	2.3

Accessories

supplied

Order code	Description
15039	INTELLIGENT OPTICOM PHOTOSENSOR

Accessories

to be ordered separately

Order code	Description
1233	LOUVRE 16° DWL OR
1234	LOUVRE 24° DWL OR
1235	LOUVRE 40° DWL OR
14120	CONTROL GEAR 5 LED
14121	1 LED NOCTURNAL MODULE

Building automation

to be ordered separately

Order code	Description
20102	DOMOTIC CENTER
20124	WiFi BUILDING AUTOMATION CENTRAL UNIT
20104	BUILDING AUTOMATION CENTRAL UNIT
15022	BUILDING AUTOMATION RADIO MODULE
15024	DALI MODULE
15034	1-10V MODULE
15025	GRANDE ESCO ITALIA RADIO MODULE

EMERGENCY WITH LED INVERTER

INVERTER	Order code	Description	to be ordered separately
	19358	INVERTER PLUG&LIGHT LED SE/SA 1H 20-60V	to be ordered separately
	19359	INVERTER PLUG&LIGHT LED SE/SA 3H 20-60	to be ordered separately
	19364	INV LED IP65 AT/LG 123H	to be ordered separately
	19365	INV LED IP65 LGFM 123H	to be ordered separately
	RA02	AUTORIPARA INVERTER BATTERY 7.2V 1.7Ah	to be ordered separately

SPECIAL VARIATIONS: COLOUR RENDERING ≥ 90 - COLOUR TEMPERATURE ON REQUEST Contact the Beghelli sales network

**DOMOTIC
RADIO
MODULE**

**GRANDE
ESCO
ITALIA
MODULE**

**1÷10V
MODULE**

**DALI
MODULE**

**MODULO
PLUG&LIGHT**

SD BUILDING AUTOMATION MODULES INDIVIDUALLY CONNECTED TO THE BEGHELLI SMARTDRIVER



INTELLIGENT PHOTOSENSOR

**1. Autodimmer
Natural Light**

**2. Autodimmer
Dynamic Light**

**3. opticom
TECHNOLOGY**

**Smartphone Interface
Device programming and control system**

MOUNTING WITH NOCTURNAL/EMERGENCY LAMP



- 14121** 1 LED NOCTURNAL MODULE *to be ordered separately*
- 14120** 5 LED CONTROL GEAR *to be ordered separately*

LOUVRE 16°, 24°, 40°



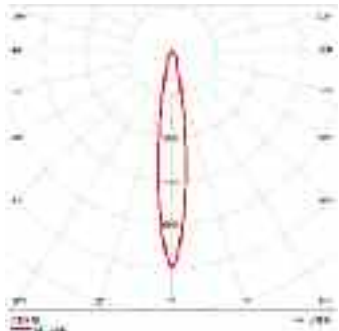
- 1233** Louvre 16° DWL OR *to be ordered separately*
- 1234** Louvre 24° DWL OR *to be ordered separately*
- 1235** Louvre 40° DWL OR *to be ordered separately*

Efficiency and dimming

The increase in luminous efficacy (lm/W) and the useful life of the device may vary significantly according to the degree to which it is dimmed. Assuming an average level of 50% of the luminous flux, the following results are obtained with the D170/1150 LED:

- Dimming** **50%**
- Device duration** **+40%**
- Luminous efficiency** **+15%**

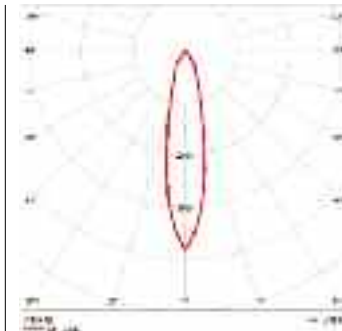
OPTICS SUPPLIED



I max 70w* = 10.100 Cd / I max 150w* = 18.700 Cd

Beam width 16°

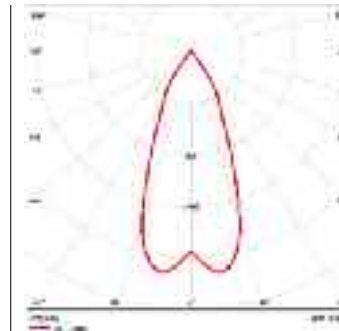
Distance	Diameter	Luminosity
0,5 m	Ø 0,16 m	40338 lx
1,0 m	Ø 0,32 m	10084 lx
1,5 m	Ø 0,49 m	4482 lx
2,0 m	Ø 0,65m	2521 lx
2,5 m	Ø 0,81 m	1614 lx
3,0 m	Ø 0,97 m	1120 lx



I max 70w* = 10.100 Cd / I max 150w* = 18.700 Cd

Beam width 24°

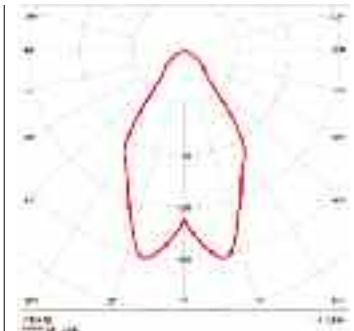
Distance	Diameter	Luminosity
0,5 m	Ø 0,20 m	40846 lx
1,0 m	Ø 0,40 m	10212 lx
1,5 m	Ø 0,59 m	4538 lx
2,0 m	Ø 0,79m	2553 lx
2,5 m	Ø 0,99 m	1634 lx
3,0 m	Ø 1,19 m	1135 lx



I max 70w* = 4.950 Cd / I max150w* = 9.150 Cd

Beam width 40°

Distance	Diameter	Luminosity
0,5 m	Ø 0,34 m	19774 lx
1,0 m	Ø 0,68 m	4944 lx
1,5 m	Ø 1,02 m	2197 lx
2,0 m	Ø 1,35 m	1236 lx
2,5 m	Ø 1,70 m	791 lx
3,0 m	Ø 2,04 m	549 lx



I max 70w* = 2.200 Cd / I max 150w* = 4.100 Cd

Beam width 70°

Distance	Diameter	Luminosity
0,5 m	Ø 0,65 m	8826 lx
1,0 m	Ø 1,30 m	2207 lx
1,5 m	Ø 1,95 m	981 lx
2,0 m	Ø 2,60 m	552 lx
2,5 m	Ø 3,25 m	353 lx
3,0 m	Ø 3,90 m	245 lx

D170/1150 LED adjustable

SmartDriver electronic reactor

Potenza* W	Order Code	Description	LED Power K	Colour temperature	Colour rendering	Power consumption Max W	N° LEDs	Flux of LEDs lm (Tj=85°C)	Flux of Fixture lm	Luminous efficiency lm/W	Energy class	Packaging
1x70	D170LORS	DWL LED 1x70 OR INC SD 3K	29	3000	>80	34	1 (COB)	4000	3400	100	A++	1
1x150	D1150LORS	DWL LED 1x150 OR INC SD 3K	50	3000	>80	55(50***)	1 (COB)	6500	5500	100	A++	1

*** The power consumption has an auto derating to the power indicated in parenthesis if the product is powered by voltage less than 110 Vac.



The adjustable D170/1150 LED replaces non adjustable traditional spotlights with holes from 170 to 200mm.





The fixture offers the dual possibility of accent and environmental lighting depending on the extractable positioning and on the type of louvre installed, which varies the opening of the beam from 16° to 70°.





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SAVINGS OF MORE THAN 20% - OVERALL EXPECTED
SAVINGS OF MORE THAN 85%

D170/1150 - D226 LED

the downlights with
recessed and ceiling
anti-glare optics



A revolutionary fixture that allows great power of the light beam thanks to optics with controlled refraction.

An innovative Downlight also in its multifunctional aspect, to satisfy all mounting necessities.

Various accessories are available for both recessed and ceiling mounting, with adapters that allow it to be integrated in existing holes of various sizes.

Not least is the heat dissipation aspect, achieved with an aluminium cooling system to allow perfect performance even in cases of reduced recess space.



GENERAL CHARACTERISTICS

- Equivalent Power*** 1x70, 1x150 W
- Power supply** Universale Multy Voltage 93÷265Vac
50÷60Hz 176÷250Vdc
- Standard** EN 60598-1, EN 60598-2-2,
EN 60598-2-22 (requisiti fondamentali),
EN 62471
- Protection grade** IP20
- Working temp.** -20 ÷ +40°C
- Mounting** recessed, ceiling
- Housing** Die-cast aluminium RAL 9003 metal
- Optic** sheet metal Dark light type
- UGR** <22
- Power Supply** SELV electronic SD (cos $\varphi \geq 0.96$)
Electronic with intelligent dimming
- MTBF Control gear**** 65.000h
- Luminous flux maintenance**** >60.000h (L80B20)
- Colour tolerance** 3 SDCM

* Equivalent power for comparison with apparecchi ad alogenuari metallici
 ** At a reference working temperature of 25°C

D170/1150 LED

Downlight

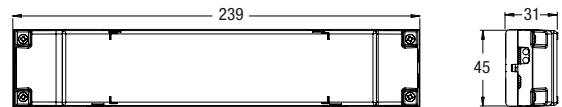
This revolutionary Downlight range sprang from the need to optimize lighting on the ground while reducing glare as much possible. The patented optical system consists of a primary louvre with very high reflectance and a secondary louvre for controlling glare, so it is also suitable in the presence of video terminals. The control gear is independent of the fixture and is supplied already wired to the optical compartment, complete with cable ties.

The particular diffusion of the heat of products with LED sources considerably reduces the overheating of the illuminated surfaces, thus ensuring greater environmental comfort and less impact on the illuminated objects. Together with the substantial absence of UV radiation, these features make the product particularly suitable for exhibition areas.

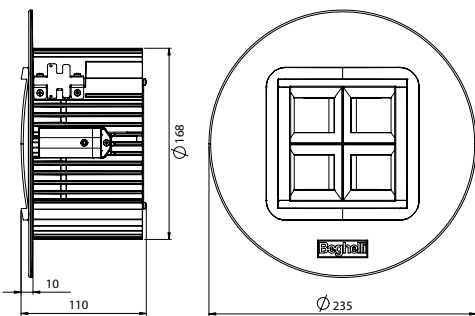
An additional accessory is available for lighting the LED source of the device in the event of a black-out.



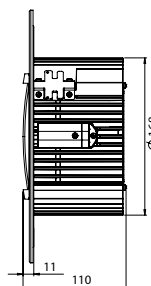
Power* W	Mounting	Weight kg
150/70	Recessed	1.9
150/70	Ceiling	3.2
150/70	Recessed with ring	2.2



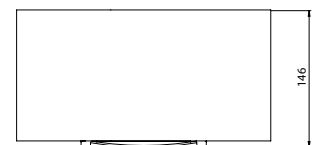
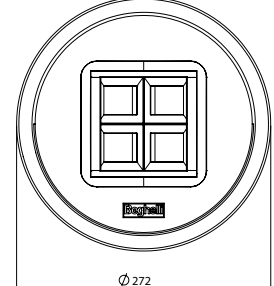
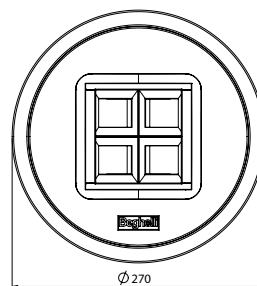
Electronic control gear



recessed version for holes from 170 to 200 mm



recessed version with adapter ring for holes from 200 to 240 mm



ceiling version

Accessories

supplied

Order code	Description
15039	INTELLIGENT OPTICOM PHOTOSENSOR

Accessories

to be ordered separately

Order code	Description
20090	ADAPTER RING 240 DWL LED
20091	CEILING ACCESSORY DWL LED
20098	WIDE DIFFUSER DWL/RL08 LED

Building automation

to be ordered separately

Order code	Description
20102	DOMOTIC CENTER
20104	BUILDING AUTOMATION CENTRAL UNIT
15029	AUTODIMMER BOX SENSOR
15022	BUILDING AUTOMATION RADIO MODULE
15024	DALI MODULE
15034	1-10V MODULE
15025	GRANDE ESCO ITALIA RADIO MODULE



SD BUILDING AUTOMATION MODULES INDIVIDUALLY CONNECTED TO THE BEGHELLI SMARTDRIVER



INTELLIGENT PHOTOSENSOR

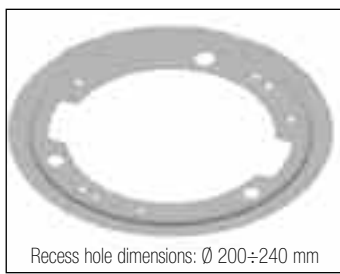
1. Autodimmer Natural Light
2. Autodimmer Dynamic Light
3. Smartphone Interface Device programming and control system

WIDE DIFFUSER



20098 *to be ordered separately*

ADAPTER RING



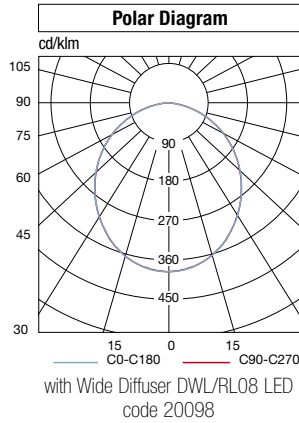
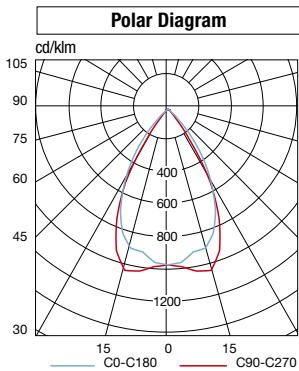
Recess hole dimensions: Ø 200÷240 mm

20090 *to be ordered separately*

CEILING MOUNTING



20091 *to be ordered separately*



Efficiency and dimming

The increase in luminous efficacy (lm/W) and the useful life of the device may vary significantly according to the degree to which it is dimmed. Assuming an average level of 50% of the luminous flux, the following results are obtained with the D170/1150 LED.

- Dimming** **50%**
- Device duration** **+40%**
- Luminous efficiency** **+20%**

EMERGENCY WITH LED INVERTER		TR	AT	LG	LGFM
	19358 INVERTER PLUG&LIGHT LED SE/SA 1H 20-60V	<i>to be ordered separately</i>			
	19359 INVERTER PLUG&LIGHT LED SE/SA 3H 20-60V	<i>to be ordered separately</i>			
	19364 INV LED IP65 AT/LG 123H	<i>to be ordered separately</i>			
	19365 INV LED IP65 LGFM 123H	<i>to be ordered separately</i>			
	RA02 AUTORIPARA INVERTER BATTERY 7.2V 1.7Ah	<i>to be ordered separately</i>			

SPECIAL VARIATIONS: COLOUR RENDERING ≥90 - COLOUR TEMPERATURE ON REQUEST, Contact the Beghelli sales network

D170/1150 LED

SmartDriver electronic reactor

Potenza* W	Order code	Description	LED Power W	Colour Temp. K	Colour rendering	Power consumption Max W	N° LEDs	Flux of LEDs lm (Tj=25°C)	Flux of fixture lm	Luminous efficiency lm/W	Energy Class	Packaging
70	D170SD	DWL SPOT LED 1x70 INC SD 3K	38	3000	>80	43	48	4900	4000	93	A++	1
150	D1150SD	DWL SPOT LED 1x150 INC SD 3K	47	3000	>80	52	24	6700	5500	106	A++	1

D226 LED

Downlight



GENERAL CHARACTERISTICS

Equivalent Power* 2x26 W

Power supply 93÷265 Vac - 50/60Hz, 176÷250 Vdc

Standard EN 60598-1, EN 60598-2-2, EN 60598-2-22 (fundamental requirements), EN 62471

Protection grade IP20

Working temp. -20 ÷ +40°C

Mounting recessed, ceiling

Housing Die-cast aluminium

Louvre sheet metal parabolic

Electronic gear SELV electronic SD (cos $\varphi \geq 0.96$)
Electronic with intelligent dimming

MTBF Control gear** 65.000h

Luminous flux maintenance** >70.000h (L80B20)

Colour tolerance 3 SDCM

* Equivalent power for comparison with fluorescent tube fixtures

** At a reference working temperature of 25°C

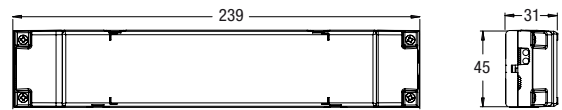
Downlight with very high light output. The optical system allows maximized illumination with excellent anti-glare features, so it is also suitable in the presence of video terminals. The control gear is independent of the fixture and is supplied already wired to the optical compartment, complete with cable ties.

The particular diffusion of the heat of products with LED sources considerably reduces the overheating of the illuminated surfaces, thus ensuring greater environmental comfort and less impact on the illuminated objects. Together with the substantial absence of UV radiation, these features make the product particularly suitable for exhibition areas.

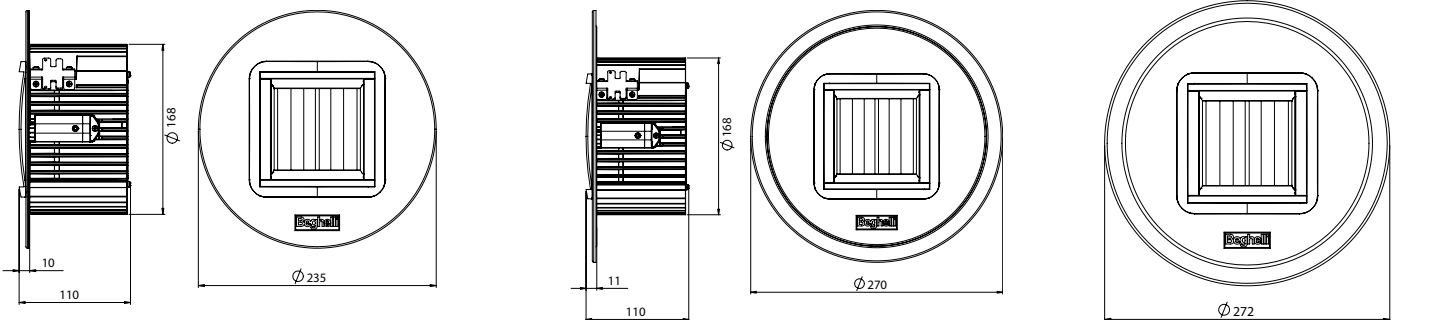
An additional accessory is available for lighting the source and the LEDs of the device in the event of a black-out.



Power* W	Installation	Weight kg
2x26	Recessed	1.9
2x26	Ceiling	3.2
2x26	Recessed with ring	2.2

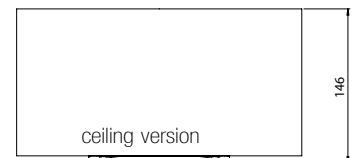


Electronic control gear



recessed version for holes from 170 to 200 mm

recessed version with adapter ring for holes from 200 to 240 mm



ceiling version

Accessories

supplied

Order code	Description
15039	INTELLIGENT OPTICOM PHOTODIMMER

Accessories

to be ordered separately

Order code	Description
20090	ADAPTER RING 240 DWL LED
20091	CEILING ACCESSORY DWL LED
20098	WIDE DIFFUSER DWL/RL08 LED

Building automation

to be ordered separately

Order code	Description
20102	DOMOTIC CENTER
20104	BUILDING AUTOMATION CENTRAL UNIT
15029	AUTODIMMER BOX SENSOR
15022	BUILDING AUTOMATION RADIO MODULE
15024	DALI MODULE
15034	1-10V MODULE
15025	GRANDE ESCO ITALIA RADIO MODULE

DOMOTIC
RADIO
MODULE

GRANDE
ESCO
ITALIA
MODULE

1÷10V
MODULE

DALI
MODULE

PLUG&LIGHT
MODULE

SD BUILDING AUTOMATION MODULES INDIVIDUALLY CONNECTED TO THE BEGHELLI SMARTDRIVER



INTELLIGENT PHOTOSENSOR

1. Autodimmer Natural Light
2. Autodimmer Dynamic Light
3. **opticom** TECHNOLOGY Smartphone Interface Device programming and control system

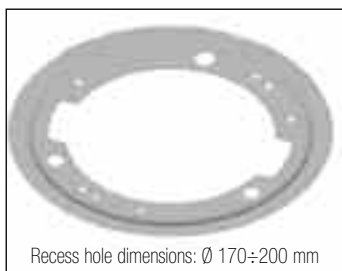


WIDE DIFFUSER



20098 *to be ordered separately*

ADAPTER RING



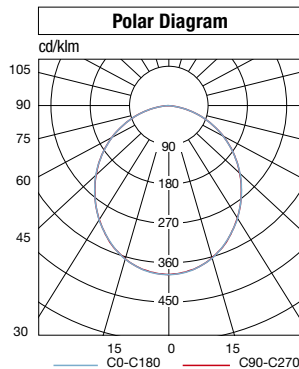
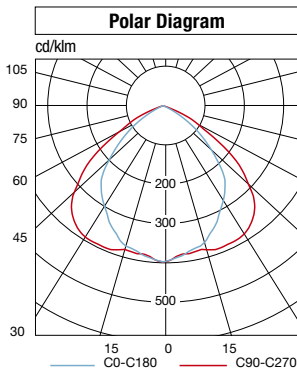
Recess hole dimensions: Ø 170÷200 mm

20090 *to be ordered separately*

CEILING MOUNTING



20091 *to be ordered separately*



with wide Louvre DWL/RL08 LED
Order code 20098

Efficiency and dimming

The increase in luminous efficacy (lm/W) and the useful life of the device may vary significantly according to the degree to which it is dimmed. Assuming an average level of 50% of the luminous flux, the following results are obtained with the D226 LED:

Dimming **SD** **50%**
Device duration **+40%**
Luminous efficiency **+15%**

EMERGENCY WITH LED INVERTER

TR AT LG LGFM

INVERTER	19358	INVERTER PLUG&LIGHT LED SE/SA 1H 20-60V	<i>to be ordered separately</i>
	19359	INVERTER PLUG&LIGHT LED SE/SA 3H 20-60	<i>to be ordered separately</i>
	19364	INV LED IP65 AT/LG 123H	<i>to be ordered separately</i>
	19365	INV LED IP65 LGFM 123H	<i>to be ordered separately</i>
	RA02	AUTORIPARA INVERTER BATTERY 7.2V 1.7Ah	<i>to be ordered separately</i>

SPECIAL VARIATIONS: COLOUR RENDERING ≥90 - COLOUR TEMPERATURE ON REQUEST, Contact the Beghelli sales network

D226 LED

SmartDriver electronic reactor **SD**

Potenza* W	Order code	Description	LED Power W	Colour Temp. K	Colour rendering	Power consumption Max W	N° LEDs	Flux of LEDs lm (Tj=25°C)	Flux of fixture lm	Luminous efficiency lm/W	Energy Class	Packaging
2x26	D226SD	DWL SPOT LED 2x26 INC SD 4K	16	4000	>80	20	40	2200	1860	93	A++	1

* Indicative power for comparison with fluorescent tube fixtures



The recessed D170/1150 - D226 LED has a really minimal technological impact. The wide illumination area makes it suitable even for large spaces; with the appropriate adapter modules it can be installed in existing holes from 170 to 240mm. In offices with the presence of PC operators, it offers excellent anti-glare features (Darklight).





WW135/170 LED

New colour rendering
Great uniformity of lighting
standards



A fixture that springs from the need to highlight vertical surfaces in interiors.

Used in art exhibitions to cast an accent light on the works on show, but also in retail outlets for directly lighting the goods or creating a luminous backstage for displayed products.

A microprismatic anti-glare diffuser and above all a shape of the beam of light conceived to illuminate the walls with maximum uniformity, thanks also to the tilting of the diffuser which directs the light only where it is needed.



WW135/170 LED

Downlight - wall washer

Downlight for vertical surfaces. The optics allow maximized wall illumination while maintaining excellent anti-glare characteristics thanks to the micropismatic diffuser. The louvre can be oriented on an axis. The control gear is independent of the fixture and is supplied already wired to the optical compartment, complete with cable ties. The particular diffusion of the heat of products with LED sources considerably reduces the overheating of the illuminated surfaces, thus ensuring greater environmental comfort and less impact on the illuminated objects. Together with the substantial absence of UV radiation, these features make the product particularly suitable for exhibition areas, both in retail outlets and in museums. **Due to this particular feature it does not offer dimming with an AutoDimmer Sensor.**

An additional accessory is available for lighting the LED source of the device in the event of a black-out.

GENERAL CHARACTERISTICS

Equivalent Power* 1x35, 1x70 W

Power supply Universale Multy Voltage 93÷265Vac
50÷60Hz 176÷250Vdc

Standard EN 60598-1, EN 60598-2-2,
EN 60598-2-22 (requisiti fondamentali),
EN 62471

Protection grade IP42

Working temp. -20 ÷ +40°C

Mounting recessed in false ceilings

Housing Polyester powder coated die-cast
aluminium RAL 9003

Diffuser Toughened glass 3 mm thick

Electronic gear SELV electronic SD ($\cos \varphi \geq 0.96$)
Electronic with intelligent dimming

MTBF Control gear** 65.000h

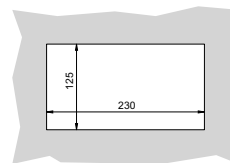
Luminous flux >50.000h (1x150) (L80B20)

maintenance** >60.000h (1x70) (L80B20)

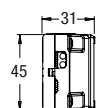
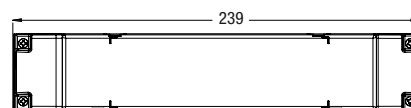
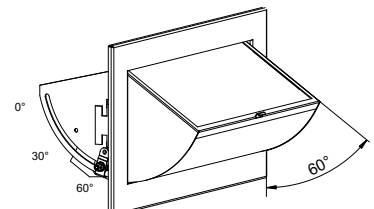
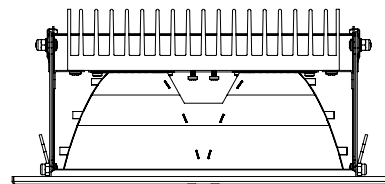
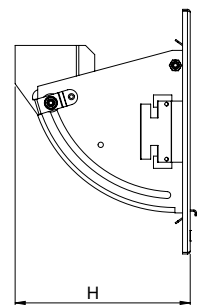
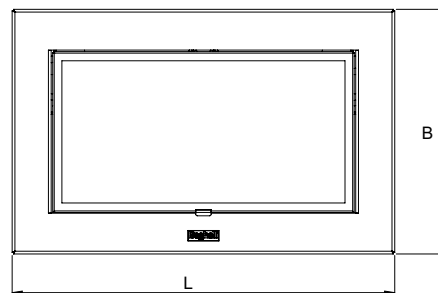
Colour tolerance 3 SDCM

* Equivalent power for comparison with fluorescent tube fixtures

** At a reference working temperature of 25°C



Recess hole



Electronic control gear

Building automation to be ordered separately

Order code	Description
20102	DOMOTIC CENTER
20104	BUILDING AUTOMATION CENTRAL UNIT
15022	BUILDING AUTOMATION RADIO MODULE
15024	DALI MODULE
15034	1-10V MODULE
15025	GRANDE ESCO ITALIA RADIO MODULE

Power W*	• Dimensions (mm) •			Beam width	Weight max kg
	L	B	H		
1x35	250	160	114	39°	1.6
1x70	250	160	114	39°	1.6

DOMOTIC
RADIO
MODULE

GRANDE
ESCO
ITALIA
MODULE

1÷10V
MODULE

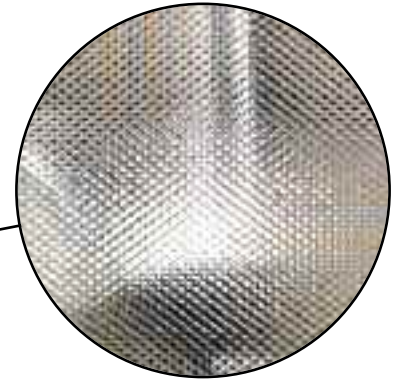
DALI
MODULE

MODULO
PLUG&LIGHT

SD BUILDING AUTOMATION MODULES INDIVIDUALLY CONNECTED TO THE BEGHELLI SMARTDRIVER



Prismatic diffuser glass with high transmittance allowing the reduction of glare while keeping the lighting efficiency unchanged.



DOWNLIGHT

Efficiency and dimming

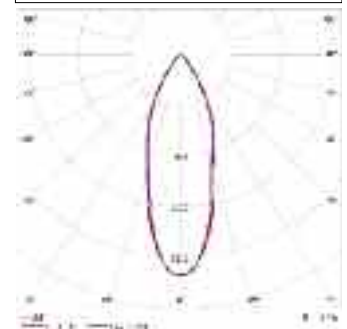
The increase in luminous efficacy (lm/W) and the useful life of the device may vary significantly according to the degree to which it is dimmed. Assuming an average level of 50% of the luminous flux, the following results are obtained with the WW135/170 LED.

Dimming **50%**
Device duration **+40%**
Luminous efficiency **+15%**

SPECIAL VARIATIONS: COLOUR RENDERING ≥ 90 - COLOUR TEMPERATURE ON REQUEST, Contact the Beggelli sales network

INVERTER	EMERGENCY WITH LED INVERTER			
		TR	AT	LG LGFM
	19358	INVERTER PLUG&LIGHT LED SE/SA 1H 20-60V	to be ordered separately	
	19359	INVERTER PLUG&LIGHT LED SE/SA 3H 20-60	to be ordered separately	
	19364	INV LED IP65 AT/LG 123H	to be ordered separately	
	19365	INV LED IP65 LGFM 123H	to be ordered separately	
RA02	AUTORIPARA INVERTER BATTERY 7.2V 1.7Ah	to be ordered separately		

Polar Diagram



WW135/170 LED

SmartDriver electronic reactor

Potenza* W	Order code	Description	LED Power W	Colour Temp. K	Colour rendering	Power consumption Max W	N° LEDs	Flux of LEDs lm (Tj=25°C)	Flux of fixture lm	Luminous efficiency lm/W	Energy Class	Packaging
1x35	WW135SD	WW LED 1x35 OR INC SD 3K	18	3000	>80	23	72	2700	2250	100	A++	1
1x70	WW170SD	WW LED 1x70 OR INC SD 3K	40	3000	>80	45	72	4900	4000	90	A++	1





WW135/170 LED for interiors is characterized by asymmetrical lighting for a better distribution of light intensity on the wall that is to be highlighted. The tilting system allows lighting to be accentuated and to be directed towards the floor.



**INTEGRATED INTELLIGENT
PHOTOSENSOR ON SD VERSIONS**

AUTODIMMER NATURAL LIGHT

COMPENSATION FOR NATURAL LIGHT IN THE
ENVIRONMENT, FOR ENERGY SAVINGS OF OVER 75%

AUTODIMMER DYNAMIC LIGHT

AUTOMATIC REDUCTION OF LIGHT EMITTED IN THE
ABSENCE OF PEOPLE, FOR POTENTIAL FURTHER ENERGY
SAVINGS OF MORE THAN 20% - OVERALL EXPECTED
SAVINGS OF MORE THAN 85%

ZOOM LED

The revolution does not
just depend on the LEDs
Polyvalent is not enough



Zoom LED Beghelli is a fixture that overturns the already known schemes of accent lighting. Thanks to a patented microcontrol of the light beam, quite unlike other products on the market until now, this fixture has an unprecedented versatility of use and an efficiency of the light beam that upset the traditional concept of the “accent spotlight”.

The light beam control system is structured with a technology similar to that of the most innovative variable focus camera lenses: a micromovement group that, easily and without tools, is able to vary the focal length and therefore the width of the cone of light.

The end result is a unique product that produces a beam of light with a continuously variable angle of emission from 10° to 40°.



GENERAL CHARACTERISTICS

Equivalent Power*	35, 70, 150 W
Power supply	Universale Multy Voltage 93±265 Vac - 50/60Hz 176±250 Vdc
Standard	EN 60598-1, EN 60598-2-1, EN 60598-2-22 (fundamental requirements), EN 62471 (photobiological hazard)
Protection grade	IP40
Working temp.	-20 ÷ +40°C
Mounting	incasso
Housing	Polyester powder coated die-cast aluminium RAL 9010
Optic	Zoom LED System with PMMA transparent lenses
Electronic Gear	Electronic SD (Cos φ ≥ 0,96) with intelligent dimming
MTBF Control gear**	80.000 h
Luminous flux maintenance**	>70.000h (170, 1150) (L80B20) >80.000h (135) (L80B20)
Colour tolerance	3 SDCM

* Equivalent power for comparison with metal halide fixtures

** At a reference working temperature of 25°C

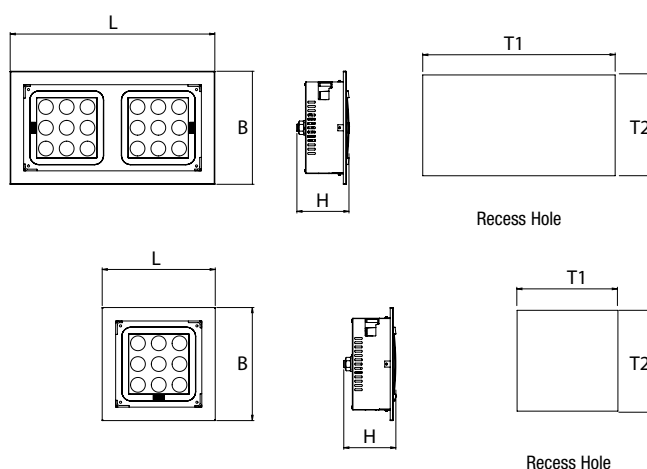


2x version

Zoom LED

Cestello

Floodlight with adjustable focus in die-cast aluminium, incorporating nine powerful high-efficiency LEDs. Patented optics, consisting of a PMMA lens system with variable focal length to adjust the light beam to an angle between 10° and 40°. The adjustment is continuous, and can be performed using the rear regulator. The device can be adjusted both horizontally and vertically. Available in 1x and 2x versions. The Cestello Zoom has been specifically designed for accent lighting, in environments where the items on display need to be enhanced. The flexibility of the device renders it extremely versatile in all architectural spaces and with any furnishings, and it can be installed flush with the wall using a special accessory. In the 2x versions, each spotlight can be adjusted independently.



Version	• Dimensions (mm) •					Weight max kg
	L	B	H	T1	T2	
1x	185	185	85	160	160	1,5
2x	335	185	85	310	160	2,5

Efficiency and dimming

The increase in luminous efficacy (lm/W) and the useful life of the device may vary significantly according to the degree to which it is dimmed. Assuming an average level of 50% of the luminous flux, the following results are obtained with the ZOOM LED:

Dimming SD	50%
Device duration	+40%
Luminous efficiency	+15%

Accessories

supplied

Order code	Description
15039	INTELLIGENT OPTICOM PHOTOSENSOR

SPECIAL VARIATIONS: COLOUR RENDERING ≥90 - COLOUR TEMPERATURE ON REQUEST, Contact the Beghelli sales network

INVERTER	EMERGENCY WITH LED INVERTER		TR	AT	LG	LGFM	
		19358	INVERTER PLUG&LIGHT LED SE/SA 1H 20-60V	to be ordered separately			
		19359	INVERTER PLUG&LIGHT LED SE/SA 3H 20-60	to be ordered separately			
		19364	INV LED IP65 AT/LG 123H	to be ordered separately			
		19365	INV LED IP65 LGFM 123H	to be ordered separately			
		RA02	AUTORIPARA INVERTER BATTERY 7.2V 1.7Ah	to be ordered separately			

Accessories

to be ordered separately

Order code	Description
14357	INSTALLATION FRAME - FLUSH WALL, TO BE TRIMMED 1X
14358	INSTALLATION FRAME - FLUSH WALL, TO BE TRIMMED 2X

Building automation

to be ordered separately

Order code	Description
20102	DOMOTIC CENTER
20124	WiFi BUILDING AUTOMATION CENTRAL UNIT
20104	BUILDING AUTOMATION CENTRAL UNIT
15022	BUILDING AUTOMATION RADIO MODULE
15024	DALI MODULE
15034	1-10V MODULE
15025	GRANDE ESCO ITALIA RADIO MODULE



SD BUILDING AUTOMATION MODULES INDIVIDUALLY CONNECTED TO THE BEGHELLI SMARTDRIVER

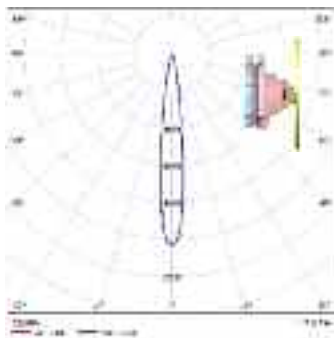
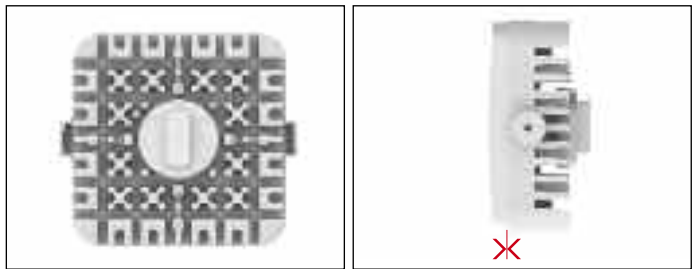
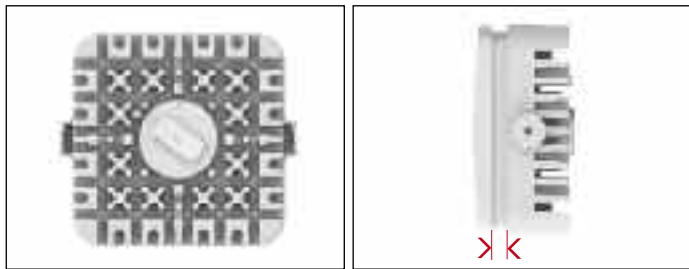


INTELLIGENT PHOTOSENSOR

1. Autodimmer Natural Light
2. Autodimmer Dynamic Light
3. Smartphone Interface Device programming and control system

MAXIMUM RANGE OF THE FOCAL LENGTH FOR 40° CONE OF LIGHT

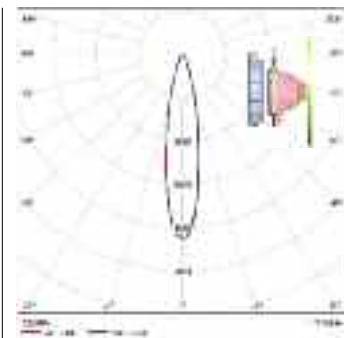
MINIMUM RANGE OF THE FOCAL LENGTH FOR 10° CONE OF LIGHT



I max 35w* = 28.800 Cd / I max 70w* = 47.400 Cd

Beam width 10°

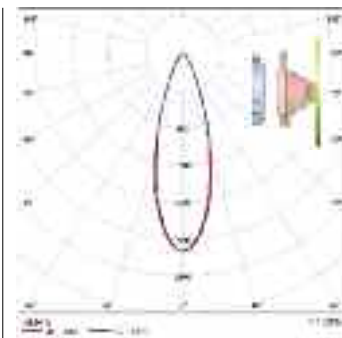
Distance	Diameter	Luminosity
0,5 m	Ø 0,11 m	119379 lx
1,0 m	Ø 0,22 m	29845 lx
1,5 m	Ø 0,33 m	13264 lx
2,0 m	Ø 0,44 m	7461 lx
2,5 m	Ø 0,55 m	4775 lx
3,0 m	Ø 0,66 m	3316 lx



I max 35w* = 11.900 / I max 70w* = 19.550 Cd

Beam width 20°

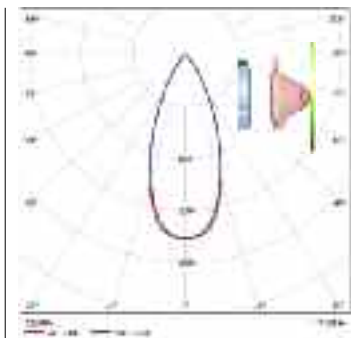
Distance	Diameter	Luminosity
0,5 m	Ø 0,18 m	49269 lx
1,0 m	Ø 0,36 m	12317 lx
1,5 m	Ø 0,53 m	5474 lx
2,0 m	Ø 0,71 m	3079 lx
2,5 m	Ø 0,89 m	1971 lx
3,0 m	Ø 1,07 m	1369 lx



I max 35w* = 5.950 Cd / I max 70w* = 9.800 Cd

Beam width 30°

Distance	Diameter	Luminosity
0,5 m	Ø 0,29 m	24656 lx
1,0 m	Ø 0,58 m	6164 lx
1,5 m	Ø 0,87 m	2740 lx
2,0 m	Ø 1,15 m	1541 lx
2,5 m	Ø 1,44 m	986 lx
3,0 m	Ø 1,73 m	685 lx



I max 35w* = 4.000 Cd / I max 70w* = 6.550 Cd

Beam width 40°

Distance	Diameter	Luminosity
0,5 m	Ø 0,39 m	16512 lx
1,0 m	Ø 0,78 m	4128 lx
1,5 m	Ø 1,16 m	1835 lx
2,0 m	Ø 1,55 m	1032 lx
2,5 m	Ø 1,94 m	660 lx
3,0 m	Ø 2,33 m	459 lx

Zoom LED Cestello

SmartDriver electronic reactor

Power* W	Order code	Description	LED Power W	Colour Temp. K	Colour rendering	Power consumption Max W	N° LEDs	Flux of LEDs lm (Tj=25°C)	Flux of fixture lm	Luminous efficiency lm/W	Energy Class	Packaging
1x35	Z135CSD	ZOOM LED CEST 1X35 SD 3K	13	3000	>80	17	9	1750	1400	84	A++	1/1
1x70	Z170CSD	ZOOM LED CEST 1X70 SD 3K	29	3000	>80	33	9	3200	2500	75	A++	1/1
1x150	Z1150CSD	ZOOM LED CEST 1X150 SD 3K	47	3000	>80	51	9	5000	4000	77	A++	1/1
2x35	Z235CSD	ZOOM LED CEST 2X35 SD 3K	26	3000	>80	29	18	3500	2800	98	A++	1/1
2x70	Z270CSD	ZOOM LED CEST 2X70 SD 3K	55	3000	>80	61	18	6400	5000	82	A++	1/1
2x150 ²	Z2150CSD	ZOOM LED CEST 2X150 SD 3K	94	3000	>80	104	18	10000	8000	77	A++	1/1

² Version 2x150 is equipped with dual drivers which require two domotic radio modules to control the device. The two LED sources are managed independently from each other.



Installation in retail environments in order to illuminate display areas that are changed periodically. The tilting system enables the spotlight to be moved quickly and easily, and the latter boasts a variable focus with a beam angle ranging from 10° to 40°.





**INTEGRATED INTELLIGENT
PHOTOSENSOR ON SD VERSIONS**

AUTODIMMER NATURAL LIGHT

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AUTOMATIC REDUCTION OF LIGHT EMITTED IN THE
ABSENCE OF PEOPLE, FOR POTENTIAL FURTHER ENERGY
SAVINGS OF MORE THAN 20% - OVERALL EXPECTED
SAVINGS OF MORE THAN 85%

Expo LED

Light output angle
Robustness and power
from 16° to 40°



Spotlight for accent lighting with high light output. The focus of the Expo LED design was centred on the powerful light beam, with the ability to adjust the width of the light cone by replacing the high bay.

The angle of the optical unit supplied as standard is 24°, and can easily be replaced with optics with an angle of 16° or 40°. The aesthetic impact of this light embodies its technical superiority and robustness, with a large cooling block that ensures that the powerful LEDs continue to function perfectly



GENERAL CHARACTERISTICS

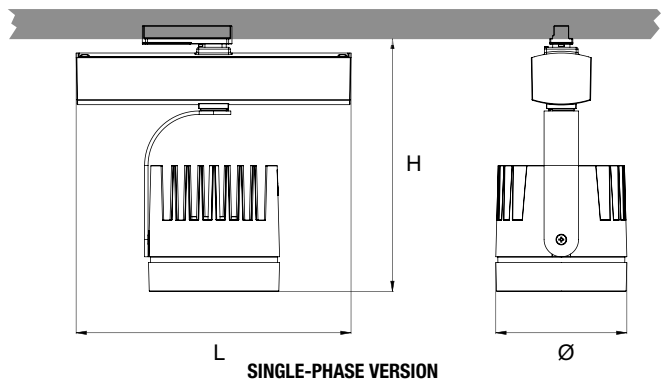
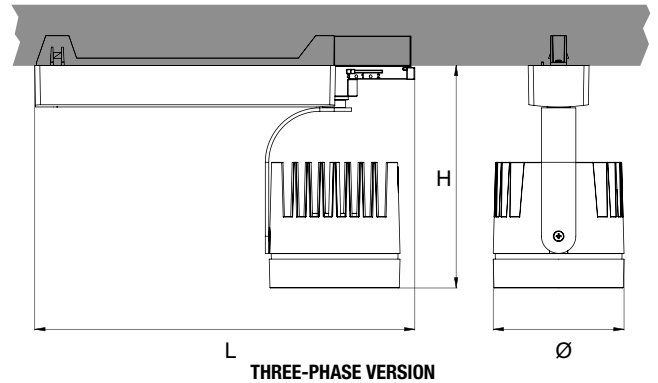
- Equivalent Power*** 70, 150 W
- Power supply SD version:** Universale Multy Voltage 93÷265Vac 50÷60Hz - 176÷250Vdc
ED version: 230Vac ±10% 50Hz
- Standard** EN 60598-1, EN 60598-2-1, EN 60598-2-22 (fundamental requirements), EN62471 (Photobiological hazard)
- Protection grade** IP40
- Working temp.** -20 ÷ +40°C
- Mounting** three-phase and single-phase electrified track
- Diffuser** Toughened glass 3 mm thick
- Housing** Polyester powder coated die-cast aluminium RAL 9010
- Optic** mirror finished aluminium (24°supplied, 16° e 40° to be ordered separately)
- Power supply SD version:** Electronic SD (Cos $\varphi \geq 0,96$) with intelligent dimming
ED version: Electronic ED (Cos $\varphi \geq 0,95$)
- MTBF Control gear**** 80.000 h
- Luminous flux maintenance**** >60.000h (1x150) (L80B20)
>70.000h (1x70) (L80B20)
- Colour tolerance** 3 SDCM

* Equivalent power for comparison with metal halide fixtures
** At a reference working temperature of 25°C

Expo LED

Three-phase and single-phase electrified track

Variable beam spotlight for indoor applications, particularly suitable in the retail sector and for exhibitions or shows. Body in die-cast aluminium with large LED source cooling flaps. This device can be installed on either tri-phase or single-phase electrified rail, and the runner is mechanically compatible with the majority of commercially-available systems. The device is equipped with an optic with a beam aperture angle of 24° as standard, but optics with beam angles of 16° and 40° are also available on request.



Version	• Dimensions (mm) •			Weight kg
	L	Ø	H	
THREE-PHASE	331	114	194	1,2
SINGLE-PHASE	239	114	221	1,2

Accessories supplied

Order code	Description
15039	INTELLIGENT OPTICOM PHOTOSENSOR

Accessories to be ordered separately

Order code	Description
1230	EXPO LED 16° REFLECTOR
1231	EXPO LED 40° REFLECTOR

Building automation to be ordered separately

Order code	Description
20102	DOMOTIC CENTER
20124	WiFi BUILDING AUTOMATION CENTRAL UNIT
20104	BUILDING AUTOMATION CENTRAL UNIT
15022	BUILDING AUTOMATION RADIO MODULE
15025	GRANDE ESCO ITALIA RADIO MODULE

Expo LED

Eco electronic Driver

POWER* W	Order code	Description	LED Power W	Colour Temp. K	Colour rendering	Power consumption Max W	N° LEDs	Flux of LEDs lm (Tj=25°C)	Flux of fixture lm	Luminous efficiency lm/W	Energy Class	Packaging
THREE-PHASE VERSION												
1x70	R170ED24	EXPO LED BTRF 1X70 24ED 3K	20	3000	≥80	24	1 COB	3300	3000	125	A++	1/1
1x150	R1150ED24	EXPO LED BTRF 1X150 24ED 3K	33	3000	≥80	37	1 COB	5000	4500	120	A++	1/1
SINGLE-PHASE VERSION												
1x70	R170MFED24	EXPO LED BMF 1X70 24ED 3K	20	3000	≥80	24	1 COB	3300	3000	125	A++	1/1
1x150	R1150MFED24	EXPO LED BMF 1X150 24ED 3K	33	3000	≥80	37	1 COB	5000	4500	120	A++	1/1

DOMOTIC
RADIO
MODULE

GRANDE
ESCO
ITALIA
MODULE

SD BUILDING AUTOMATION MODULES INDIVIDUALLY CONNECTED TO THE BEGHELLI SMARTDRIVER



INTELLIGENT PHOTSENSOR

1. Autodimmer
Natural Light

2. Autodimmer
Dynamic Light

3. **opticom**
TECHNOLOGY

Smartphone Interface
Device programming and control system



Efficiency and dimming

The increase in luminous efficacy (lm/W) and the useful life of the device may vary significantly according to the degree to which it is dimmed. Assuming an average level of 50% of the luminous flux, the following results are obtained with the Expo LED:

Dimming SD 50%
Device duration +40%
Luminous efficiency +15%

16°, 40° REFLECTOR



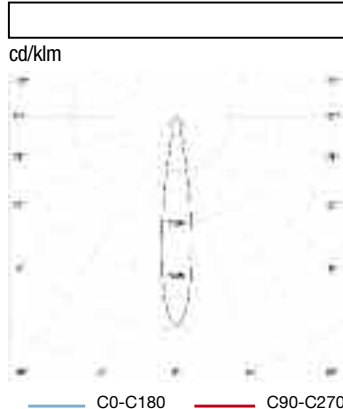
1230 EXPO LED 16° REFLECTOR

1231 EXPO LED 40° REFLECTOR

SINGLE-PHASE VERSION

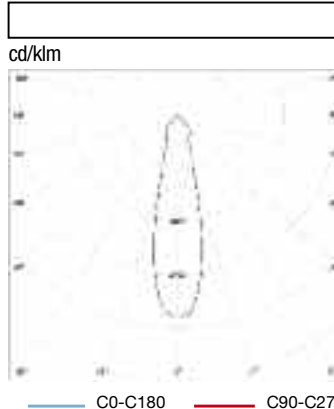


Polar Diagram 16°



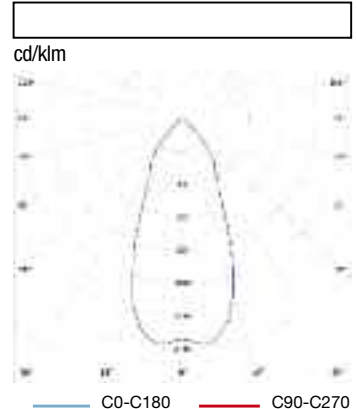
WITH ORDER CODE 1230

Polar Diagram 24°



SUPPLIED OPTIC

Polar Diagram 40°



WITH ORDER CODE 1231

SPECIAL VARIATIONS:
COLOUR RENDERING ≥ 90 , COLOUR TEMPERATURE ON REQUEST

Expo LED

SmartDriver electronic reactor **SD**

Potenza* W	Order code	Description	LED Power W	Colour Temp. K	Colour rendering	Power consumption Max W	N° LEDs	Flux of LEDs lm (Tj=25°C)	Flux of fixture lm	Luminous efficiency lm/W	Energy Class	Packaging
THREE-PHASE VERSION												
1x70	R170SD24	EXPO LED BTRF 1X70 24SD 3K	21	3000	≥ 80	26	1 COB	3400	3100	119	A++	1/1
1x150	R1150SD24	EXPO LED BTRF 1X150 24SD 3K	38	3000	≥ 80	43	1 COB	5500	5000	116	A++	1/1
SINGLE-PHASE VERSION												
1x70	R170MFS24	EXPO LED BMF 1X70 24SD 3K	21	3000	≥ 80	26	1 COB	3400	3100	119	A++	1/1
1x150	R1150MFS24	EXPO LED BMF 1X150 24SD 3K	38	3000	≥ 80	43	1 COB	5500	5000	116	A++	1/1



High-power accent spotlight, particularly suitable where high levels of illuminance are required at height.





**INTEGRATED INTELLIGENT
PHOTOSENSOR ON SD VERSIONS**

AUTODIMMER NATURAL LIGHT

COMPENSATION FOR NATURAL LIGHT IN THE
ENVIRONMENT, FOR ENERGY SAVINGS OF OVER 75%

AUTODIMMER DYNAMIC LIGHT

AUTOMATIC REDUCTION OF LIGHT EMITTED IN THE
ABSENCE OF PEOPLE, FOR POTENTIAL FURTHER ENERGY
SAVINGS OF MORE THAN 20% - OVERALL EXPECTED
SAVINGS OF MORE THAN 85%

ZOOM LED

LEDs are not the only
Polyvalent is not enough
technology at the heart of
the lighting revolution



Zoom LED Beghelli is a device that has revolutionised the world of accent lighting design. Thanks to a patented light beam micro-controller, the first of its kind on the market to date, this device offers unprecedented versatility, with a degree of light beam efficacy that turns the traditional concept of "accent spotlighting" on its head.

The light beam control system uses technology similar to that employed in the most innovative variable focus photographic optics: a unit which makes tiny movements in order to vary the focus and thus the width of the light cone with ease - no extra tools required.

The end result is a unique product that produces a light beam with a continuously variable angle of 10° to 40°.



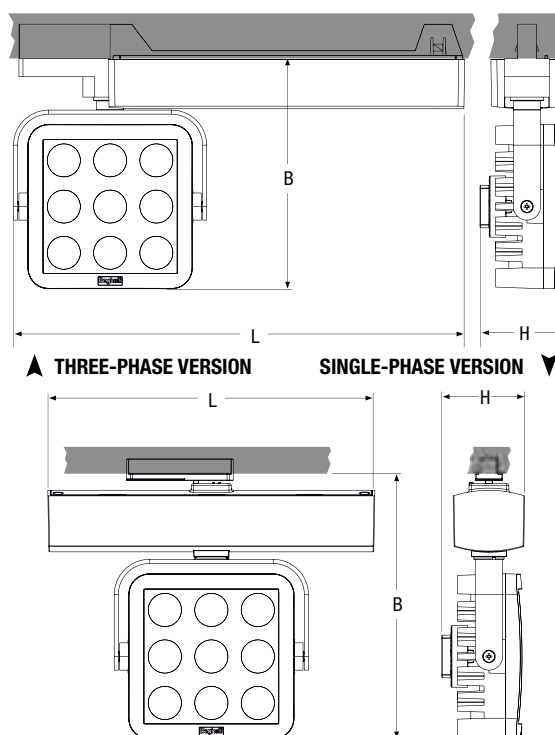
GENERAL CHARACTERISTICS

- Equivalent Power*** 35, 70, 150 W
 - Power supply SD version:** Universale Multy Voltage
93±265Vac 50±60Hz
176±250Vdc
ED version: 230Vac ±10% 50Hz
 - Standard** EN 60598-1, EN 60598-2-1,
EN 60598-2-22 (fundamental
requirements),
EN 62471 (photobiological hazard)
 - Protection grade** IP40
 - Working temp.** -20 ÷ +40°C
 - Mounting** Three-phase electrified track
 - Housing** Die-cast aluminium, white RAL 9010
 - Optic** Zoom LED System (PMMA lenses)
 - Power supply SD version:**
Electronic SD (Cos φ≥ 0,96)
Electronic with intelligent dimming
ED version:
Electronic ED (Cos φ≥ 0,95)
 - MTBF Control gear**** 65.000h
 - Luminous flux maintenance****
>70.000h (1x70, 1x150) (L80B20)
>80.000h (1x35) (L80B20)
 - Colour tolerance** 3 SDCM
- * Equivalent power for comparison with metal halide fixtures
** At a reference working temperature of 25°C

Zoom LED

Three-phase electrified track

Adjustable focus projector made of die-cast aluminium which integrates the power of 9 high-efficiency LEDs. Patented optics, consisting of a system of variable focus PMMA lenses to adjust the beam of light with an angle between 10° and 40°. Adjustment is continuous and is obtained by a regulator on the rear. The fixture can be oriented on both the horizontal and the vertical axis. The Zoom Led system envisages the use of a vast range of accessories for the creation of a three-phase electrified track; The adaptor supplied allows the spotlight to be used on most of the three-phase electrified tracks available on the market. The Zoom Led range has been designed specifically for accent lighting, where it is essential to enhance the items on display.



Version	• Dimensions (mm) •			Weight max kg
	L	B	H	
single-phase	330	170	53	1.4
three-phase	239	194	61	1.4

Efficiency and dimming

The increase in luminous efficacy (lm/W) and the useful life of the device may vary significantly according to the degree to which it is dimmed. Assuming an average level of 50% of the luminous flux, the following results are obtained with the ZOOM LED:

- Dimming SD** **50%**
- Device duration** **+40%**
- Luminous efficiency** **+15%**

Accessories supplied

Order code	Description
15039	INTELLIGENT OPTICOM PHOTOSENSOR

Building automation to be ordered separately

Order code	Description
20102	DOMOTIC CENTER
20124	WiFi BUILDING AUTOMATION CENTRAL UNIT
20104	BUILDING AUTOMATION CENTRAL UNIT
15022	BUILDING AUTOMATION RADIO MODULE
15025	GRANDE ESCO ITALIA RADIO MODULE

Zoom LED electrified track

Eco Driver electronic reactor

Power* W	Order code	Description	LED Power W	Colour Temp. K	Colour rendering	Power consumption Max W	N° LEDs	Flux of LEDs lm (Tj=25°C)	Flux of fixture lm	Luminous efficiency lm/W	Energy Class	Packaging
THREE-PHASE VERSION												
1x70	Z170ED	ZOOM LED BTRF 1X70 ED 3K	29	3000	≥80	33	9	3200	2500	76	A++	1/1
1x150	Z1150ED	ZOOM LED BTRF 1X150 ED 3K	47	3000	≥80	52	9	5000	4000	77	A++	1/1
SINGLE-PHASE VERSION												
1x70	Z170MFED	ZOOM LED BMF 1X70 ED 3K	29	3000	≥80	33	9	3200	2500	76	A++	1/1
1x150	Z1150MFED	ZOOM LED BMF 1X150 ED 3K	47	3000	≥80	52	9	5000	4000	77	A++	1/1

DOMOTIC
RADIO
MODULE

GRANDE
ESCo
ITALIA
MODULE

SD BUILDING AUTOMATION MODULES INDIVIDUALLY CONNECTED TO THE BEGHELLI SMARTDRIVER

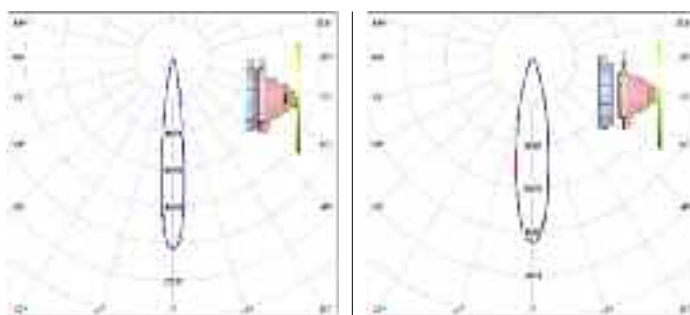
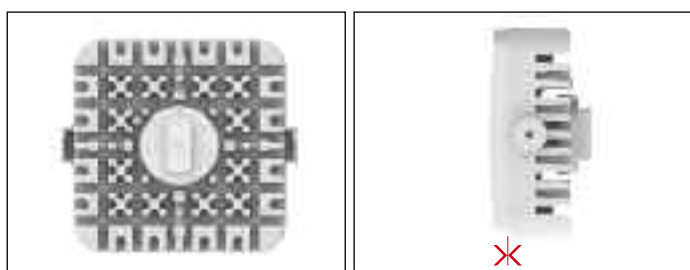


INTELLIGENT PHOTOSENSOR

1. Autodimmer Natural Light
2. Autodimmer Dynamic Light
3. Smartphone Interface Device programming and control system



MINIMUM RANGE OF THE FOCAL LENGTH FOR 10° CONE OF LIGHT

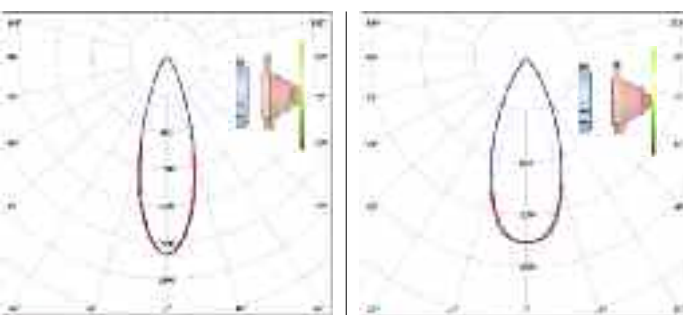
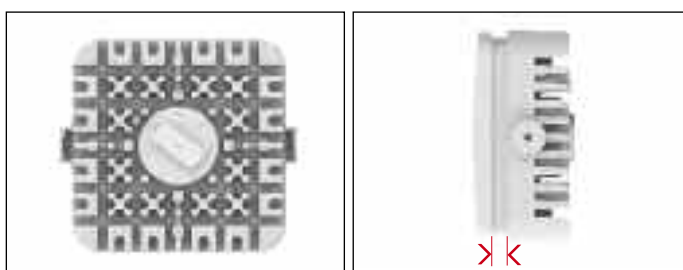


I max 35w* = 28.800 Cd / I max 70w* = 47.400 Cd

Beam width 10°

Distance	Diameter	Luminosity
0,5 m	∅ 0,11 m	119379 lx
1,0 m	∅ 0,22 m	29845 lx
1,5 m	∅ 0,33 m	13264 lx
2,0 m	∅ 0,44 m	7461 lx
2,5 m	∅ 0,55 m	4775 lx
3,0 m	∅ 0,66 m	3316 lx

MAXIMUM RANGE OF THE FOCAL LENGTH FOR 40° CONE OF LIGHT



I max 35w* = 5.950 Cd / I max 70w* = 9.800 Cd

Beam width 40°

Distance	Diameter	Luminosity
0,5 m	∅ 0,29 m	24656 lx
1,0 m	∅ 0,58 m	6164 lx
1,5 m	∅ 0,87 m	2740 lx
2,0 m	∅ 1,15 m	1541 lx
2,5 m	∅ 1,44 m	986 lx
3,0 m	∅ 1,73 m	685 lx

I max 35w* = 4.000 Cd / I max 70w* = 6.550 Cd

Beam width 30°

Distance	Diameter	Luminosity
0,5 m	∅ 0,39 m	16512 lx
1,0 m	∅ 0,78 m	4128 lx
1,5 m	∅ 1,16 m	1835 lx
2,0 m	∅ 1,55 m	1032 lx
2,5 m	∅ 1,94 m	660 lx
3,0 m	∅ 2,33 m	459 lx

SPECIAL VARIATIONS: COLOUR RENDERING ≥90, COLOUR TEMPERATURE ON REQUEST Contact the Beghelli sales network

Zoom LED electrified track

SmartDriver electronic reactor

Power* W	Order code	Description	LED Power W	Colour Temp. K	Colour rendering	Power consumption Max W	N° LEDs	Flux of LEDs lm (Tj=25°C)	Flux of fixture lm	Luminous efficiency lm/W	Energy Class	Packaging
THREE-PHASE VERSION												
1x35	Z135SD	ZOOM LED BTRF 1X35 SD 3K	13	3000	≥80	17	9	1750	1400	84	A++	1/1
1x70	Z170SD	ZOOM LED BTRF 1X70 SD 3K	29	3000	≥80	33(30***)	9	3200	2500	76	A++	1/1
1x150	Z1150SD	ZOOM LED BTRF 1X150 SD 3K	47	3000	≥80	52(45***)	9	5000	4000	77	A++	1/1
SINGLE-PHASE VERSION												
1x35	Z135MFSD	ZOOM LED BMF 1X35 SD 3K	13	3000	≥80	17	9	1750	1400	84	A++	1/1
1x70	Z170MFSD	ZOOM LED BMF 1X70 SD 3K	29	3000	≥80	33(30***)	9	3200	2500	76	A++	1/1
1x150	Z1150MFSD	ZOOM LED BMF 1X150 SD 3K	47	3000	≥80	52(45***)	9	5000	4000	77	A++	1/1

*** The power consumption has an auto derating to the power indicated in parenthesis if the product is powered by voltage less than 110 Vac.



Zoom LED

Mounting on ceiling, wall

Adjustable focus projector made of die-cast aluminium which integrates the power of 9 high-efficiency LEDs. Patented optics, consisting of a system of variable focus PMMA lenses to adjust the beam of light with an angle between 10° and 40°. Adjustment is continuous and is obtained by a regulator on the rear. The fixture can be oriented on both the horizontal and the vertical axis. With the bracket supplied it can be mounted on the wall or on the ceiling. The Zoom Led range has been designed specifically for accent lighting, where it is essential to enhance the items on display.

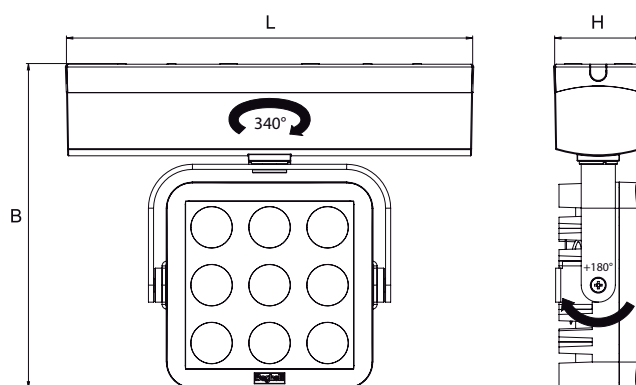


GENERAL CHARACTERISTICS

Equivalent Power*	35, 70, 150 W
Power supply	Universale Multy Voltage 93÷265Vac 50÷60Hz 176÷250Vdc
Standard	EN 60598-1, EN 60598-2-1, EN 60598-2-22 (fundamental requirements), EN 62471 (photobiological hazard)
Protection grade	IP40
Working temp.	-20 ÷ +40°C
Mounting	wall, ceiling
Housing	Die-cast aluminium, white RAL 9010
Optic	Zoom LED System (PMMA lenses)
Power supply	Electronic SD (Cos $\phi \geq 0,96$) Electronic with intelligent dimming
MTBF Control gear**	65.000h
Luminous flux maintenance**	>70.000h (1x70, 1x150) (L80B20) >80.000h (1x35) (L80B20)
Colour tolerance	3 SDCM

* Equivalent power for comparison with metal halide fixtures

** At a reference working temperature of 25°C



Version	• Dimensions (mm) •			Weight max kg
	L	B	H	
35, 70, 150 W	240	195	53	1.4

Accessories

supplied

Order code	Description
15039	INTELLIGENT OPTICOM PHOTOSENSOR

Building automation to be ordered separately

Order code	Description
20102	DOMOTIC CENTER
20124	WiFi BUILDING AUTOMATION CENTRAL UNIT
20104	BUILDING AUTOMATION CENTRAL UNIT
15022	BUILDING AUTOMATION RADIO MODULE
15025	GRANDE ESCO ITALIA RADIO MODULE

Efficiency and dimming

The increase in luminous efficacy (lm/W) and the useful life of the device may vary significantly according to the degree to which it is dimmed. Assuming an average level of 50% of the luminous flux, the following results are obtained with the ZOOM LED:

Dimming 	50%
Device duration	+40%
Luminous efficiency	+15%

SPECIAL VARIATIONS: COLOUR RENDERING ≥ 90 , COLOUR TEMPERATURE ON REQUEST Contact the Beghelli sales network

DOMOTIC
RADIO
MODULE

GRANDE
ESCO
ITALIA
MODULE

SD BUILDING AUTOMATION MODULES INDIVIDUALLY CONNECTED TO THE BEGHELLI SMARTDRIVER



INTELLIGENT PHOTOSENSOR

1. Autodimmer
Natural Light

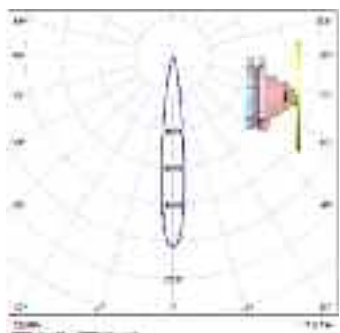
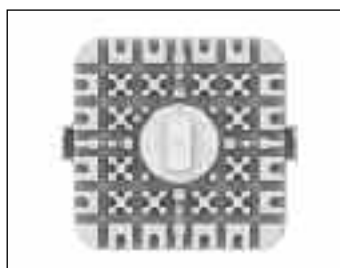
2. Autodimmer
Dynamic Light

3. **opticom**
TECHNOLOGY

Smartphone Interface
Device programming and control system



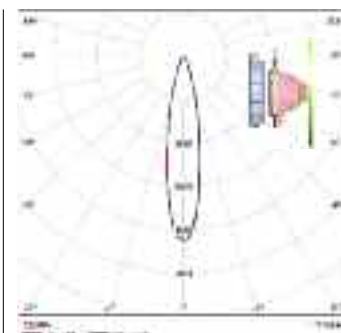
MINIMUM RANGE OF THE FOCAL LENGTH FOR 10° CONE OF LIGHT



I max 35w* = 28.800 Cd / I max 70w* = 47.400 Cd

Beam width 10°

Distance	Diameter	Luminosity
0,5 m	Ø 0,11 m	119379 lx
1,0 m	Ø 0,22 m	29845 lx
1,5 m	Ø 0,33 m	13264 lx
2,0 m	Ø 0,44 m	7461 lx
2,5 m	Ø 0,55 m	4775 lx
3,0 m	Ø 0,66 m	3316 lx

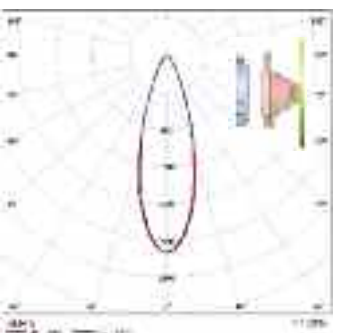


I max 35w* = 11.900 / I max 70w* = 19.550 Cd

Beam width 20°

Distance	Diameter	Luminosity
0,5 m	Ø 0,18 m	49269 lx
1,0 m	Ø 0,36 m	12317 lx
1,5 m	Ø 0,53 m	5474 lx
2,0 m	Ø 0,71 m	3079 lx
2,5 m	Ø 0,89 m	1971 lx
3,0 m	Ø 1,07 m	1369 lx

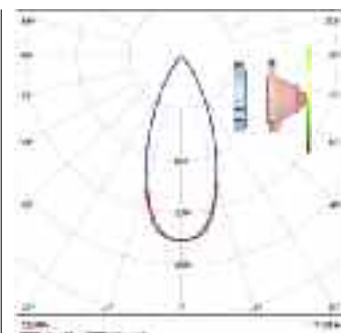
MAXIMUM RANGE OF THE FOCAL LENGTH FOR 40° CONE OF LIGHT



I max 35w* = 5.950 Cd / I max 70w* = 9.800 Cd

Beam width 30°

Distance	Diameter	Luminosity
0,5 m	Ø 0,29 m	24656 lx
1,0 m	Ø 0,58 m	6164 lx
1,5 m	Ø 0,87 m	2740 lx
2,0 m	Ø 1,15 m	1541 lx
2,5 m	Ø 1,44 m	986 lx
3,0 m	Ø 1,73 m	685 lx



I max 35w* = 4.000 Cd / I max 70w* = 6.550 Cd

Beam width 40°

Distance	Diameter	Luminosity
0,5 m	Ø 0,39 m	16512 lx
1,0 m	Ø 0,78 m	4128 lx
1,5 m	Ø 1,16 m	1835 lx
2,0 m	Ø 1,55 m	1032 lx
2,5 m	Ø 1,94 m	660 lx
3,0 m	Ø 2,33 m	459 lx

INDOOR
FLOODLIGHTS

Zoom LED

SmartDriver electronic reactor **SD**

Power* W	Order code	Description	LED Power W	Colour Temp. K	Colour rendering	Power consumption Max W	N° LEDs	Flux of LEDs lm (Tj=25°C)	Flux of fixture lm	Luminous efficiency lm/W	Energy Class	Packaging
1x35	Z135ASD	ZOOM LED AP 1X35 SD 3K	13	3000	≥80	17	9	1750	1400	84	A++	1
1x70	Z170ASD	ZOOM LED AP 1X70 SD 3K	29	3000	≥80	33	9	3200	2500	76	A++	1
1x150	Z1150ASD	ZOOM LED AP 1X150 SD 3K	47	3000	≥80	52(50***)	9	5000	4000	77	A++	1

*** The power consumption has an auto derating to the power indicated in parenthesis if the product is powered by voltage less than 110 Vac.



Underwear Woman

Zoom LED on a three-phase electrified rail is the typical installation for illuminating display areas that vary periodically, such as shops, showrooms and exhibitions in general. The track system allows rapid movement of the spotlight which, in turn, has variable focus with a beam angle from 10° to 40°.





Zoom 1x LED

Continuous light output
Polyvalent is not enough
angle from 10° to 40°



1x Zoom LED Beghelli is a device that has revolutionised the world of accent lighting design. The 1x version creates an extraordinary visual impact, whether installed on a wall or on the ceiling. Thanks to a patented light beam micro-controller, the first of its kind on the market to date, this device offers unprecedented versatility, with excellent light beam efficacy. The light beam control system uses technology similar to that employed in the most innovative variable focus photographic optics: a unit which makes tiny movements in order to vary the focus and thus the width of the light cone with ease - no extra tools required - for a beam with a continuously variable angle of 10° to 40°.



Zoom 1x LED

Indoor floodlight

Projector with adjustable focus and die-cast aluminium head, incorporating a powerful high-efficiency LED light. Patented optics, consisting of a PMMA lens system with variable focal length to adjust the light beam to an angle of between 10° and 40°. The adjustment is continuous, and can be performed using the rear regulator. The device can be adjusted both horizontally and vertically. The mounting bracket allows for wall or ceiling installation.



GENERAL CHARACTERISTICS

Equivalent Power* 20, 50 W

Standard EN 60598-1, EN 60598-2-1, EN 60598-2-22 (requisiti fondamentali), EN62471 (rischio fotobiologico esente)

Power supply 198÷264Vac/Vdc

Protection grade IP40

Working temp. -20°C ÷ +40°C

Mounting ceiling, parete

Housing Alluminio pressofuso verniciato alle polveri di poliestere, bianco RAL 9010

Optic Sistema Zoom LED con lenti in PMMA trasparente

Power supply Electronic ED (Cos $\varphi \geq 0,95$)

MTBF Control gear** 50.000h

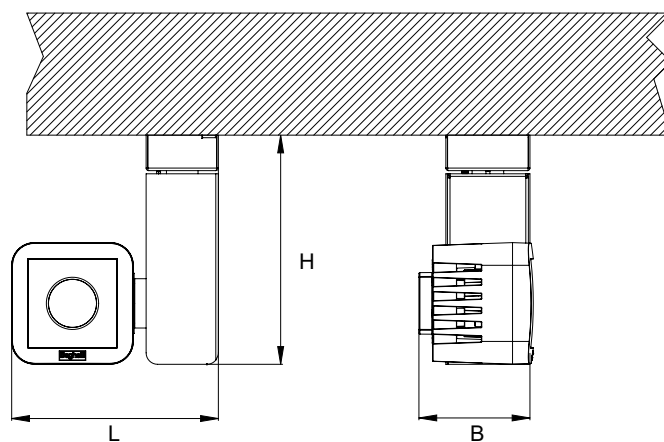
Luminous flux >60.000h (1x50W) (L80B20)

maintenance** >70.000h (1x20W) (L80B20)

Colour tolerance 3 SDCM

* Equivalent power for comparison with metal halide fixtures

** At environmental reference temperature of 25°C

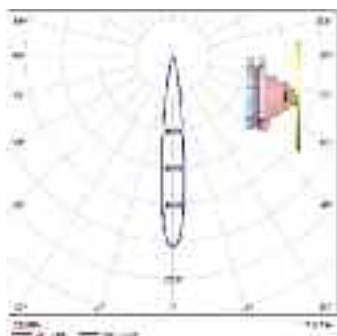


Power * W	• Dimensions (mm) •			α max	Weight max kg
	L	B	H		
20	105	56	116	40°	0,5
50	105	56	116	40°	0,5

SPECIAL VARIATIONS: COLOUR RENDERING ≥ 90 - COLOUR TEMPERATURE ON REQUEST Contact the Beghelli sales network

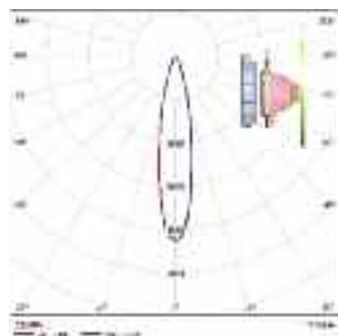


Rear adjuster for adjusting the light beam from 10° to 40°



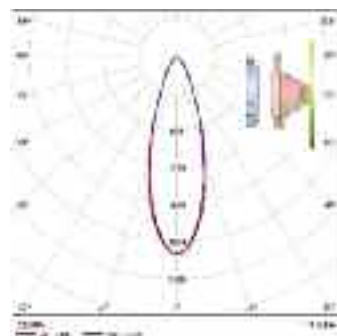
Beam width 10°
50W version *

Distance	Diameter	Luminosity
0,5 m	Ø 0,10 m	40331 lx
1,0 m	Ø 0,19 m	10083 lx
1,5 m	Ø 0,29 m	4481 lx
2,0 m	Ø 0,39 m	2521 lx
2,5 m	Ø 0,48 m	1613 lx
3,0 m	Ø 0,58 m	1120 lx



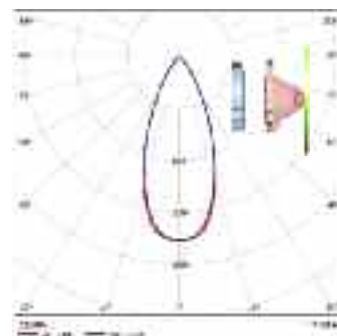
Beam width 20°
50W version *

Distance	Diameter	Luminosity
0,5 m	Ø 0,17 m	14011 lx
1,0 m	Ø 0,35 m	3503 lx
1,5 m	Ø 0,52 m	1557 lx
2,0 m	Ø 0,70 m	876 lx
2,5 m	Ø 0,87 m	560 lx
3,0 m	Ø 1,05 m	389 lx



Beam width 30°
50W version *

Distance	Diameter	Luminosity
0,5 m	Ø 0,27 m	7172 lx
1,0 m	Ø 0,55 m	1793 lx
1,5 m	Ø 0,82 m	797 lx
2,0 m	Ø 1,09 m	448 lx
2,5 m	Ø 1,37 m	287 lx
3,0 m	Ø 1,64 m	199 lx



Beam width 40°
50W version *

Distance	Diameter	Luminosity
0,5 m	Ø 0,36 m	5424 lx
1,0 m	Ø 0,72 m	1356 lx
1,5 m	Ø 1,07 m	603 lx
2,0 m	Ø 1,43 m	339 lx
2,5 m	Ø 1,79 m	217 lx
3,0 m	Ø 2,15 m	151 lx

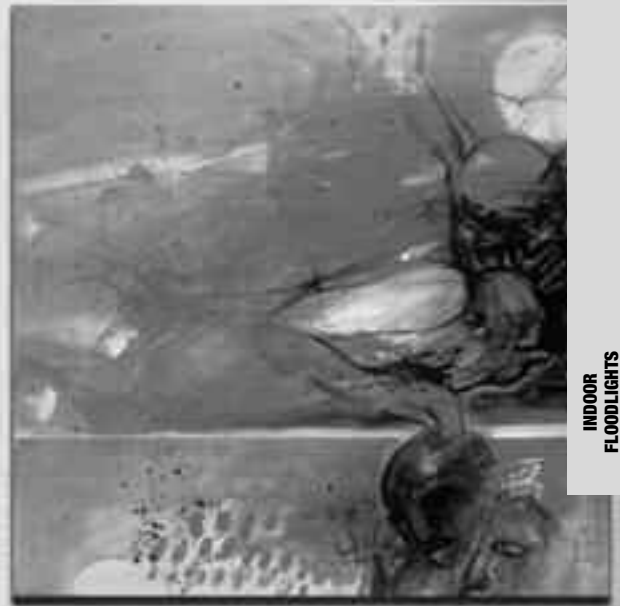
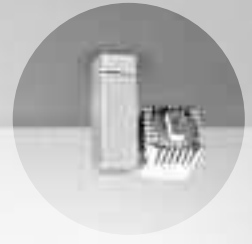
Zoom 1x LED

Eco Driver electronic reactor

Potenza* W	Order code	Description	LED Power W	Colour Temp. K	Colour rendering	Power consumption Max W	N° LEDs	Flux of LEDs lm (Tj=25°C)	Flux of fixture lm	Luminous efficiency lm/W	Energy Class	Packaging
1x20	Z120A	ZOOM 1x20 APPLIQUE	3	3000	>80	4	1	500	350	84	A++	1/1
1x50	Z150A	ZOOM 1x50 APPLIQUE	7,5	3000	>80	9	1	1000	720	80	A++	1/1



Installation in an art gallery. Courtesy of the adjustable light beam, this spotlight can be combined with existing structures that produce a more diffuse light, enhancing the illuminance on the works on display





**INTEGRATED INTELLIGENT
PHOTOSENSOR ON SD VERSIONS**

AUTODIMMER NATURAL LIGHT

COMPENSATION FOR NATURAL LIGHT IN THE ENVIRONMENT, FOR ENERGY SAVINGS OF OVER 75%

AUTODIMMER DYNAMIC LIGHT

AUTOMATIC REDUCTION OF LIGHT EMITTED IN THE ABSENCE OF PEOPLE, FOR POTENTIAL FURTHER ENERGY SAVINGS OF MORE THAN 20% - OVERALL EXPECTED SAVINGS OF MORE THAN 85%

BS100 SD LED

Anti-glare micro-structured
Luminous flux at the top of its class
screen



On the surface it appears to be a simple receptacle, in reality it is the fruit of a project that goes well beyond appearance.

The excellent mechanical characteristics are those of a revolutionary product, both in terms of luminosity and multi-functionality of use. The 8500 lm luminous flux is just the first example of the technology enclosed in this device that with Smart Driver technology can be enhanced to become a Smart Lighting optic already partially present in the base products equipped with an Autodimmer system.

In addition, the innovative anti-glare micro-structured screen significantly reduces flare without affecting the luminous flux. The special Parking version has been designed to adapt to underground conditions that demand extensive illumination over a large ground-level area but with highly reduced height availability.



GENERAL CHARACTERISTICS

Potenza equivalente* 1x18, 2x18, 1x36, 2x36, 1x58, 2x58, 2x80 W

Power supply SD version: Universale Multy Voltage
93÷265Vac 50÷60Hz
176÷250Vdc

ED version: 230Vac ±10% 50Hz

Standard EN 60598-1, EN 60598-2-1,
EN 60598-2-22 (fundamental
requirements), EN 62471
(Photobiological hazard)

Protection grade IP65

Working temp. -20 ÷ +40°C

Mounting ceiling, suspension, electrified track

Housing Polycarbonate, RAL 7035

Optic white reflective powder coated steel

Louvre Micro-structured finished
high transmission polycarbonate

Power supply SD version:
SELV electronic SD (Cos $\varphi \geq 0,96$)
with intelligent dimming
ED version:
SELV electronic ED (Cos $\varphi \geq 0,95$)

MTBF Control gear** 80.000h

**Luminous flux
maintenance**** >60.000h (L80B20)

Colour tolerance 3 SDCM

* Equivalent power for comparison with florescent tube device

** At environmental reference temperature of 25°C

BS100 LED

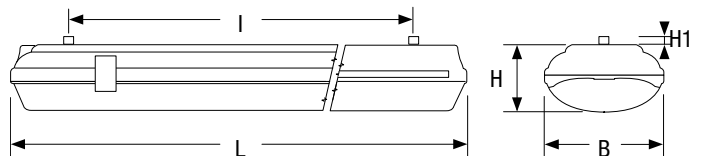
Ceiling light

Autodimmer

Professional device with elevated luminous flux and anti-glare system. Functions in emergency situations due to the Plug&Light LED Inverter, to be ordered separately.

Smart Driver System for the highest level of flexibility of use due to the various additional modules. The Autodimmer Sensor is supplied as standard in the base product. The self-extinguishing polycarbonate body is stabilized to UV rays. The screen has a micro-structured anti-glare surface finish specifically designed to disseminate the LED light in the most effective manner.

The device is strong and long-lasting with an age-resistant expanded polyurethane seal and concealed closure hooks made from polyester based technopolymer.



Power* W	• Dimensions (mm) •					Weight max kg
	L	B	H	H1	I	
1x18, 2x18	671	170	95	10	475	1.4
1x36, 2x36	1280	170	95	10	660	2.3
1x58, 2x58	1581	170	95	10	900	2.0
2x80	1581	170	95	10	900	2.7

Efficiency and dimming

The increase in luminous efficacy (lm/W) and the useful life of the device may vary significantly according to the degree to which it is dimmed. Assuming an average level of 50% of the luminous flux, the following results are obtained with the BS100 LED:

Dimming SD 50%
Device duration +40%
Luminous efficiency +15%

Accessories **SD**

supplied

Order code	Description
15039	INTELLIGENT OPTICOM PHOTOSENSOR

Accessories

to be ordered separately

Order code	Description
3905	PROTECTIVE GRID 18W
8066	PROTECTIVE GRID 36W
8067	PROTECTIVE GRID 58W/80W
3504	BRACKET WALL INSTALLATIONS
3505	HOOK STAINLESS STEEL INOX 18W
3506	HOOK STAINLESS STEEL INOX 36W
3507	HOOK STAINLESS STEEL INOX 58W/80W
8010	KIT WIRING THROUGH 58W/80W
8012	KIT WIRING THROUGH 36W

Building automation **SD**

to be ordered separately

Order code	Description
20102	DOMOTIC CENTER
20124	WiFi BUILDING AUTOMATION CENTRAL UNIT
20104	BUILDING AUTOMATION CENTRAL UNIT
15022	DOMOTIC RADIO MODULE
15024	DALI MODULE
15034	1-10V MODULE
15025	GRANDE ESCO ITALIA RADIO MODULE

DOMOTIC
RADIO
MODULEGRANDE
ESCO
ITALIA
MODULE1÷10V
MODULEDALI
MODULEPLUG&LIGHT
MODULE

SD BUILDING AUTOMATION MODULES INDIVIDUALLY CONNECTED TO THE BEGHELLI SMARTDRIVER



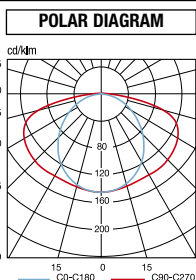
INTELLIGENT PHOTOSENSOR (SUPPLIED WITH SD VERSIONS)

1. Autodimmer
Natural Light2. Autodimmer
Dynamic Light3. **opticom**
TECHNOLOGYSmartphone Interface
Device programming and control system

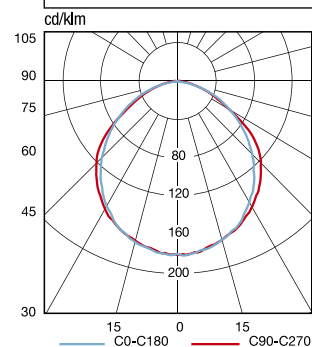
SPECIAL PARKING VERSION



236PSD BS100 LED PARKING 2x36 W



POLAR DIAGRAM



EMERGENCY WITH LED INVERTER

TR AT LG LGFM

INVERTER	Code	Description	Notes
	19358	INVERTER PLUG&LIGHT LED SE/SA 1H 20-60V	to be ordered separately
	19359	INVERTER PLUG&LIGHT LED SE/SA 3H 20-60V	to be ordered separately
	19355	INV LED AT/LG 6W 55V 123H	to be ordered separately
	19356	INV LED LGFM 6W 55V 123H	to be ordered separately
	RA02	AUTORIPARA INVERTER BATTERY 7.2V 1.7Ah	to be ordered separately

SPECIAL VARIATIONS: COLOUR TEMPERATURE ON REQUEST,
COLOUR RENDERING ≥90, FOOD APPLICATIONS VERSION
Contact the Beghelli sales network

BS100 LED PARKING

SmartDriver electronic reactor

Power* W	Order code	Description	LED Power W	Colour Temp. K	Colour rendering	Power consumption Max W	N° LEDs	Flux of LEDs lm (Tj=25°C)	Flux of fixture lm	Luminous efficiency lm/W	Energy Class	Packaging Class
2x36	236PSD	BS100 LED PARKING 2X36 SD 4000K	48	4000	>80	52	144	7750	5500	106	A++	1

BS100 LED

SmartDriver electronic reactor

Power* W	Order code	Description	LED Power W	Colour Temp. K	Colour rendering	Power consumption Max W	N° LEDs	Flux of LEDs lm (Tj=25°C)	Flux of fixture lm	Luminous efficiency lm/W	Energy Class	Packaging Class
1x18	118SD	BS100 LED 1X18 SD 4000K	9	4000	>80	11	72	1900	1525	133	A++	1
2x18	218SD	BS100 LED 2X18 SD 4000K	19	4000	>80	22	72	3300	2750	127	A++	1
1x36	136SD	BS100 LED 1X36 SD 4000K	21	4000	>80	23	144	4000	3100	135	A++	1
2x36	236SD	BS100 LED 2X36 SD 4000K	42	4000	>80	46	144	7000	5500	121	A++	1
1x58	158SD	BS100 LED 1X58 SD 4000K	29	4000	>80	32	180	5000	4100	129	A++	1
2x58	258SD	BS100 LED 2X58 SD 4000K	59	4000	>80	64 (56***)	180	9250	7500	117	A++	1
2x80	280SD	BS100 LED 2X80 SD 4000K	68	4000	>80	74 (56***)	180	11000	8500	116	A++	1

BS100 LED

EcoDriver electronic reactor

Power* W	Order code	Description	LED Power W	Colour Temp. K	Colour rendering	Power consumption Max W	N° LEDs	Flux of LEDs lm (Tj=25°C)	Flux of fixture lm	Luminous efficiency lm/W	Energy Class	Packaging Class
2x18	218ED	BS100 LED 2X18 ED 4000K	18	4000	>80	20	72	2900	2600	132	A++	1
2x36	236ED	BS100 LED 2X36 ED 4000K	36	4000	>80	40	144	5800	5200	132	A++	1
2x58	258ED	BS100 LED 2X58 ED 4000K	47	4000	>80	51	192	7700	6800	132	A++	1

*** The power consumption has an auto derating to the power indicated in parenthesis if the product is powered by voltage less than 110 Vac.





BS 100 SD LED is available in a special version for indoor parking. The optic system has been especially designed for typical indoor parking spaces. The very extensive lighting beam has excellent coverage even for large areas with lowered ceilings that are typical of underground garages.



INTEGRATED INTELLIGENT PHOTOSENSOR ON SD VERSIONS

AUTODIMMER NATURAL LIGHT

COMPENSATION FOR NATURAL LIGHT IN THE ENVIRONMENT, FOR ENERGY SAVINGS OF OVER 75%

AUTODIMMER DYNAMIC LIGHT

AUTOMATIC REDUCTION OF LIGHT EMITTED IN THE ABSENCE OF PEOPLE, FOR POTENTIAL FURTHER ENERGY SAVINGS OF MORE THAN 20% - OVERALL EXPECTED SAVINGS OF MORE THAN 85%

Acciaio LED

LED technology, high
sturdy and intelligent
resistance



Excellent performance for LED lighting in the tertiary and industrial sector. The structural simplicity of Acciaio LED, combined with technical materials such as splined technopolymers and toughened glass, make it a product suitable for installation in particularly demanding conditions, thanks to protection grades IP66 and IK09.

The whole allows the projection, through the microprismatic crystal, of a highly technological louvre specially designed for high-efficiency LEDs, to ensure the maximum of light output without glare. The innovative head with screw cap allows easy installation and easy connection with specific accessories such as the intelligent light sensor or the LED emergency module with built-in source and inverter.



GENERAL CHARACTERISTICS

Equivalent Power* 1x36, 2x36, 1x58, 2x58, 2x80W (TOP, ATEX)

Power supply SD version: Universal Multy Voltage
93÷265 Vac - 50/60Hz 176÷250 Vdc
ED version: 230Vac ±10% 50 Hz

Standard EN 60598-1, EN 60598-2-1, EN 60598-2-22 (fundamental requirements), UNI9554:1989, DIN 18032-3:1997-04, EN 62471 (Photobiological hazard), ATEX 2014/34/UE

Protection grade IP66, IK09

Working temp. -20 ÷ +40°C

Mounting ceiling, suspension, electrified track

Housing Polyester powder coated sheet steel RAL 7035

Head Caps Technopolymer PC+PBT

Louvre Wide anti-glare aluminium

Power supply SD version:
SELV electronic SD (Cos $\varphi \geq 0,96$)
with intelligent dimming
ED version:
electronic ED (Cos $\varphi \geq 0,95$)

MTBF Control gear** 80.000h

Luminous flux maintenance** >60.000h (versioni 2x) (L80B20)
>70.000h (versioni 1x) (L80B20)

Colour tolerance 3 SDCM

* Equivalent power for comparison with florescent tube device

** At environmental reference temperature of 25°C

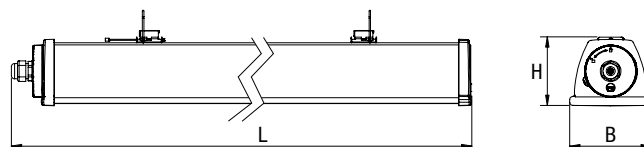
Acciaio Eco LED

Waterproof ceiling fitting

Acciaio Eco LED is the reply to the request for products with a high technological content for particularly demanding applications in high-risk areas. The steel housing and glass diffuser present both excellent mechanical resistance (IK09) and resistance to aggressive chemical agents. In the industrial field, it is ideally used in installations in environments with an explosive atmosphere, caused either by alterations of a gaseous type or by the presence of combustible powders suspended in the air (according to Standard ATEX 94/9/EC for zones 02 and 22).

The optic system is composed of a diffuser subdivided into 12 cells for optimal light distribution, and a special microprismatic glass with very high light transmittance for greater visual comfort.

Acciaio Eco LED is suitable for heavy-duty use even in outdoor environments directly exposed to inclement weather: it is designed to resist mechanical vibrations and electromagnetic disturbances typical of industrial environments.



Power* W	• Dimensions (mm) •			Weight max kg
	L	B	H	
1x36	1225	108	90	3.2
2x36	1225	108	90	3.2
1x58	1225	108	90	3.2
2x58	1225	108	90	3.2
2x80	1565	108	90	3.9

Accessories

supplied

Order code	Description
15040	INTELLIGENT OPTICOM PHOTOSENSOR ACCIAIO

Accessories

to be ordered separately

Order code	Description
20107	WIDE ACC DIFFUSER 1200
15019	INPUT DOUBLE COUPLING M20
15018	KIT ATEX ACCIAIO ECO (supplied with 2x80 version)
20122	ORIENTABLE BRACKET
20082	MOD EM ACC LED/T5 TR SE1NRM
20085	MOD EM ACC LED/T5 AT/LG SE1/3H
20086	MOD EM ACC LED/T5 LGFM SE 1/3H

Building automation

to be ordered separately

Order code	Description
20102	DOMOTIC CENTER
20104	BUILDING AUTOMATION CENTRAL UNIT
15020	ACCIAIO AUTODIMMER SENSOR
15022	BUILDING AUTOMATION RADIO MODULE
15024	DALI MODULE
15034	1-10V MODULE
15025	GRANDE ESCO ITALIA RADIO MODULE

SPECIAL VARIATIONS: COLOUR RENDERING ≥ 90 - COLOUR TEMPERATURE ON REQUEST - WITH THREE-PHASE THROUGH WIRING - WITH POLYCARBONATE DIFFUSER (HACCP) - SICURO 24 (SLGS) Contact the Beghelli sales network

DOMOTIC
RADIO
MODULEGRANDE
ESCO
ITALIA
MODULE1÷10V
MODULEDALI
MODULEPLUG&LIGHT
MODULE

SD BUILDING AUTOMATION MODULES INDIVIDUALLY CONNECTED TO THE BEGHELLI SMARTDRIVER



INTELLIGENT PHOTOSENSOR (SUPPLIED WITH SD VERSIONS)

1. Autodimmer
Natural Light2. Autodimmer
Dynamic Light3. **opticom**
TECHNOLOGYSmartphone Interface
Device programming and control system

MODULE FOR EMERGENCY LIGHTING

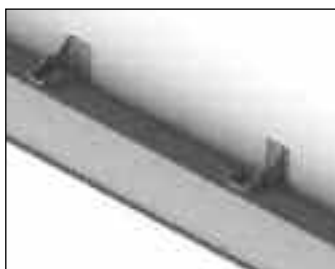


20082 to be ordered separately

20085 to be ordered separately

20086 to be ordered separately

WALL BRACKET



20122 to be ordered separately

Efficiency and dimming

The increase in luminous efficacy (lm/W) and the useful life of the device may vary significantly according to the degree of dimming. Assuming an average level of 50% of the luminous flux, the following results are obtained with the Acciaio Eco LED:

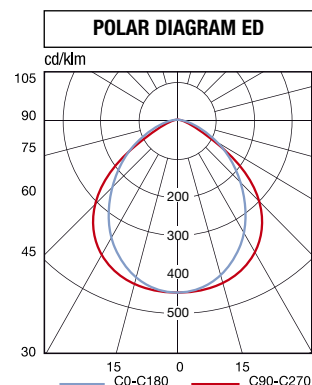
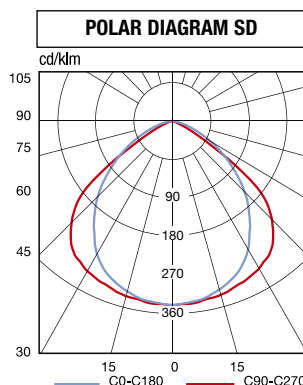
Dimming SD 50%
Device duration +40%
Luminous efficiency +10%

EMERGENCY WITH LED INVERTER

TR AT LG LGFM

	19358	INVERTER PLUG&LIGHT LED SE/SA 1H 20-60V	to be ordered separately (version SD only)
	19359	INVERTER PLUG&LIGHT LED SE/SA 3H 20-60	to be ordered separately (version SD only)
	19367	INVERTER PLUG&LIGHT LED SE/SA 1H 60-120V	to be ordered separately (version ED only)
	19355	INV LED AT/LG 6W 55V 123H	to be ordered separately
	19356	INV LED LGFM 6W 55V 123H	to be ordered separately
	RA02	AUTORIPARA INVERTER BATTERY 7.2V 1.7Ah	to be ordered separately

INVERTER



Acciaio Eco LED

SmartDriver electronic reactor **SD**

Power* W	Order code	Description	LED Power W	Colour Temp. K	Colour rendering	Power consumption Max W	N° LEDs	Flux of LEDs lm (Tj=25°C)	Flux of fixture lm	Luminous efficiency lm/W	Energy Class	Packaging
	1x36 A136ESD	ACCIAIO E LED 1X36 SD 4000K	15	4000	>80	20	48	3150	2700	A++	135	1
	2x36 A236ESD	ACCIAIO E LED 2X36 SD 4000K	30	4000	>80	35	96	5570	4700	A++	135	1
	1x58 A158ESD	ACCIAIO E LED 1X58 SD 4000K	23	4000	>80	29	72	4400	3800	A++	131	1
	2x58 A258ESD	ACCIAIO E LED 2X58 SD 4000K	46	4000	>80	52	144	8350	7000	A++	135	1
	2x80 A280ESD	ACCIAIO TOP LED 2X80 SD 4K	68	4000	>80	74(56***)	180	11800	9900	A++	135	1
	1x36 A136E**	ACCIAIO E LED 1X36 D 4000K	17	4000	>80	22	48	3150	2700	A++	120	1
	2x36 A236E**	ACCIAIO E LED 2X36 D 4000K	35	4000	>80	40	96	5570	4700	A++	120	1
	1x58 A158E**	ACCIAIO E LED 1X58 D 4000K	26	4000	>80	32	72	4400	3800	A++	120	1
	2x58 A258E**	ACCIAIO E LED 2X58 D 4000K	52	4000	>80	58	144	8350	7000	A++	120	1

Acciaio Eco LED

Eco Driver electronic reactor **ED**

Power* W	Order code	Description	LED Power W	Colour Temp. K	Colour rendering	Power consumption Max W	N° LEDs	Flux of LEDs lm (Tj=25°C)	Flux of fixture lm	Luminous efficiency lm/W	Energy Class	Packaging
	2x36 A236ED	ACCIAIO ED LED 2x36 4000K	34	4000	>80	36	96	5400	4400	A++	124	1
	2x58 A258ED	ACCIAIO ED LED 2x58 4000K	50	4000	>80	52	144	8050	6400	A++	122	1

** version with electronic Driver with traditional technology

*** The power consumption has an auto derating to the power indicated in parenthesis if the product is powered by voltage less than 150 Vac. LED power, LED Flux and output Flux from the device will be reduced in proportion to the power derating.





Acciao LED on an electrified rail is a typical installation in industrial environments, workshop and high-risk areas. The fixture is also available in the Atex version for particularly heavy-duty situation and, thanks to the steel housing and technopolymer heads, it possesses very high resistance (IP66-IK09).



**INTEGRATED INTELLIGENT
PHOTOSENSOR ON SD VERSIONS**

AUTODIMMER NATURAL LIGHT

COMPENSATION FOR NATURAL LIGHT IN THE ENVIRONMENT, FOR ENERGY SAVINGS OF OVER 75%

AUTODIMMER DYNAMIC LIGHT

AUTOMATIC REDUCTION OF LIGHT EMITTED IN THE ABSENCE OF PEOPLE, FOR POTENTIAL FURTHER ENERGY SAVINGS OF MORE THAN 20% - OVERALL EXPECTED SAVINGS OF MORE THAN 85%

H250/400 LED

Aluminium, steel and glass:
Minimum bulk ceiling suspension
sturdy and completely recyclable



A louvre that combines versatility, sturdiness and superlative technical lighting features, conceived for large structures with elevated installation heights. The triple possibility of light diffusion makes this a complete product in an industrial setting, solving the most varied lighting problems thanks to optics of the latest generation that focus on efficiency and glare control.

The small dimensions of the housing allow the easy passage of overhead cranes or other internal moving structures: there are no mounting limits.



GENERAL CHARACTERISTICS

Equivalent Power* 250, 400 W

Standard EN 60598-1, EN 60598-2-1, EN 60598-2-22 (fundamental requirements), EN 62471 (Photobiological hazard)

Power supply Universal Multy Voltage
93÷265 Vac - 50/60Hz
176÷250 Vdc

Protection grade IP66 with ventilation valve, IK09

Working temp. -20 ÷ +40°C

Mounting ceiling, suspension, electrified track

Housing Die-cast aluminium RAL 7040

Optic Sheet metal with parabolic development in anti-iridescent, mirror finished, anodised aluminium, Wide, Concentrating, Ellipsoid

Louvre Prismatic toughened glass 4mm

Power supply SELV electronic SD (Cos $\varphi \geq 0.97$)
Electronic with intelligent dimming

MTBF Control gear** 100.000h

Luminous flux maintenance** >60.000h (1x400) (L80B20)
>70.000h (1x250) (L80B20)

Colour tolerance 3 SDCM

* Equivalent power for comparison with metal halide fixtures

** At a reference working temperature of 25°C

H250/400 LED

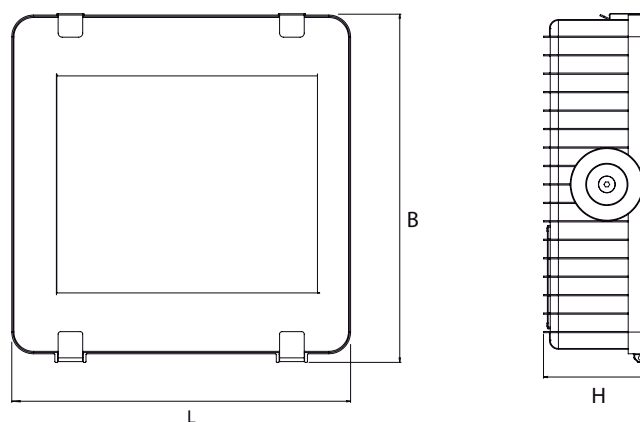
Louvre

The H250/400 LED is a fixture of the latest generation able to combine the advantages of the LED light source with state-of-the-art optic systems, as regards both performance and flexibility of application. The LED sources used, with very high efficiency, produce unprecedented lighting on the ground and allow mounting at heights of more than 12 metres. The diffuser has an ample and uniform area of emission, allowing very low luminosity and therefore reduced glare with high visual comfort. The excellent mechanical characteristics (IP66-IK09) allow installation even in heavy-duty industrial environments. The fixture is available with three different optic modes: concentrating, wide and elliptical beam.

Unlike traditional industrial louvre fixtures, the H250/400 LED is characterized by very compact dimensions, especially the height, which make it the ideal solution for sheds where there are overhead cranes or other moving structures. The fixture is designed to resist magnetic disturbances typical of industrial environments (EN 61000-6-2). In the versions with dimming, to ensure maximum energy saving, self-adapting technology is used on the sensor integrated in the fixture, to automatically adjust the emission of light according to the reading of the natural light present on the work surface.

A LED INVERTER is also available which transforms the fixture into an emergency maintained fixture, to light a section of the LED source in the event of a black-out.

The versions with intelligent dimming are enabled in the "Grande ESCo Italia" project.



Power * W	• Dimensions (mm) •			Weight max kg
	L	B	H	
250	425	413	121	7.7
400	425	413	121	7.7

**SPECIAL VARIATIONS: COLOUR TEMPERATURE ON REQUEST,
Contact the Beghelli sales network**

Accessories

supplied

Order code Description

- ANTI-VANDAL SCREWS
- CABLE GLAND M20 WITH VENTILATION VALVE

Building automation



to be ordered separately

Order code Description

- 20102 DOMOTIC CENTER
- 20104 BUILDING AUTOMATION CENTRAL UNIT
- 15020 ACCIAIO AUTODIMMER SENSOR
- 15022 BUILDING AUTOMATION RADIO MODULE
- 15024 DALI MODULE
- 15034 1-10V MODULE
- 15025 GRANDE ESCO ITALIA RADIO MODULE

Accessories

supplied

Order code Description

- 15039 INTELLIGENT OPTICOM PHOTOSENSOR

Accessories

to be ordered separately

Order code Description

- 12658 PROTECTIVE GRID
- 12659 ELECTRIFIED TRACK BRACKET
- 12664 CEILING BRACKET
- 12663 HIGH BAY SUSPENSION CABLES



DOMOTIC RADIO MODULE

GRANDE ESCo ITALIA MODULE

1÷10V MODULE

DALI MODULE

SD BUILDING AUTOMATION MODULES INDIVIDUALLY CONNECTED TO THE BEGHELLI SMARTDRIVER



INTELLIGENT PHOTOSENSOR

1. **Autodimmer Natural Light**
2. **Autodimmer Dynamic Light**
3. **opticom TECHNOLOGY Smartphone Interface Device programming and control system**

ELECTRIFIED TRACK MOUNTING BRACKET



12659 *to be ordered separately*

CEILING MOUNTING BRACKET



12664 *to be ordered separately*

SUSPENDED MOUNTING



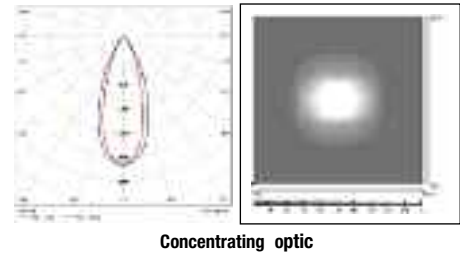
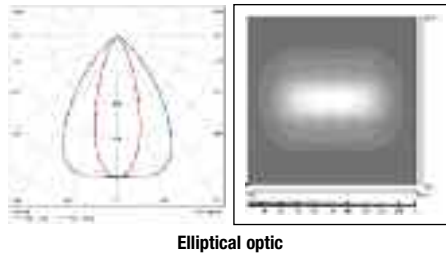
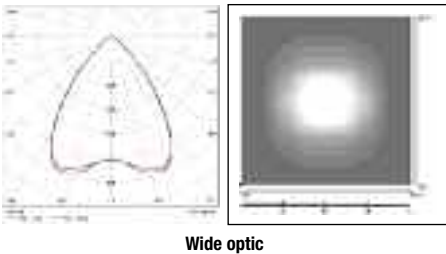
12663 *to be ordered separately*

INVERTER	EMERGENCY WITH LED INVERTER		TR	AT	LG	LGFM
	19368	INVERTER PLUG&LIGHT LED SE/SA 1H 20-60V IP65	<i>to be ordered separately</i>			
	19364	INV LED IP65 AT/LG 123H	<i>to be ordered separately</i>			
	19365	INV LED IP65 LGFM 123H	<i>to be ordered separately</i>			
	RA02	AUTORIPARA INVERTER BATTERY 7.2V 1.7Ah	<i>to be ordered separately</i>			

Efficiency and dimming

The increase in luminous efficacy (lm/W) and the useful life of the device may vary significantly according to the degree to which it is dimmed. Assuming an average level of 50% of the luminous flux, the following results are obtained with the H250/400 LED:

Dimming	50%
Device duration	+40%
Luminous efficiency	+10%



H250/400 LED

SmartDriver electronic reactor **SD**

Potenza* W	Order code	Description	Optic	LED Power W	Colour Temp. K	Colour rendering	Power consumption Max W	N° LEDs	Flux of LEDs lm (Tj=25°C)	Flux of fixture lm	Luminous efficiency lm/W	Energy Class	Packaging
250	H250SD	RIF LED 250 DIFF SD 4000K	DIFFONDENTE	110	4000	>80	119	256	18500	16000	134	A++	1
400	H400SD	RIF LED 400 DIFF SD 4000K	DIFFONDENTE	216	4000	>80	234	512	35000	30000	128	A++	1
250	H250CSD	RIF LED 250 CONC SD 4000K	CONCENTRANTE	110	4000	>80	119	256	18500	16000	134	A++	1
400	H400CSD	RIF LED 400 CONC SD 4000K	CONCENTRANTE	216	4000	>80	234	512	35000	30000	128	A++	1
250	H250ESD	RIF LED 250 ELLIT SD 4000K	ELLITTICA	110	4000	>80	119	256	18500	16000	134	A++	1
400	H400ESD	RIF LED 400 ELLIT SD 4000K	ELLITTICA	216	4000	>80	234	512	35000	30000	128	A++	1





H 250/400 LED on an electrified rail is a typical installation in industrial environments, workshop and high-risk areas. Its particular distinctive features are the reduced thickness, to replace the traditional “Bells”, and high lighting on the ground which makes the concentrating version particularly suitable for installation a great heights.



F30/50/70 LED

Aluminium, steel and glass: sturdy
Wall or ground outdoors
and completely recyclable



A fixture of extreme simplicity with compact dimensions, characterized by great multifunctionality. Useful either as a projector or a louvre, always combining design, sturdiness and superlative technical lighting features. In the same product it is possible to obtain both symmetrical and asymmetrical diffusion of light, achieved thanks to a louvre with divisible modules that also offers excellent anti-glare features and control of the light beam. An innovative optical project based on efficiency and glare control, where the small dimensions of the housing contrast with the depth of the beam of light. Moreover, installing the Building automation radio receiver interface allows access to all the building automation possibilities that are not usual for fixtures of this type.



GENERAL CHARACTERISTICS

Equivalent Power* 30, 50, 70 W

Standard EN 60598-1, EN 60598-2-1, EN 60598-2-22 (fundamental requirements), EN 62471 (Photobiological hazard)

Power supply 230Vac ±10% 50 Hz

Protection grade IP66, IK09

Working temp. -20 ÷ +40°C

Mounting on ground, wall

Housing Die-cast aluminium RAL 7040

Louvre Sheet metal with parabolic development in anti-iridescent, mirror finished, anodised aluminium. Symmetrical Asymmetrical

Diffuser Prismatic toughened glass 4mm

Power supply SELV electronic ED (Cos φ ≥ 0,90)

MTBF Control gear** 65.000h

Luminous flux >50.000h (F70) (L80B20)

maintenance** >60.000h (F30-F50) (L80B20)

Colour tolerance 3 SDCM

* Equivalent power for comparison with metal halide fixtures

** At a reference working temperature of 25°C

F30/50/70 LED

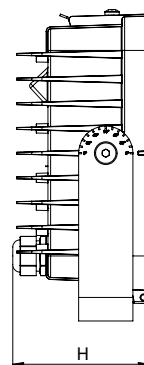
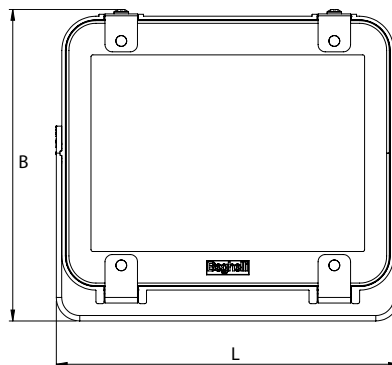
Louvres

The F30/50/70 LED is a fixture of the latest generation able to combine the advantages of the LED light source with state-of-the-art optic systems, as regards both performance and flexibility of application. The LED sources used, with very high efficiency, produce unprecedented lighting that allows the illumination of building façades or hardstands, even at considerable distance. The diffuser has an ample and uniform area of emission, allowing very low luminosity and therefore reduced glare with high visual comfort. The excellent mechanical characteristics (IP66-IK09) allow installation in outdoor environments even in extreme conditions.

A LED INVERTER is also available which transforms the fixture into an emergency maintained fixture, to light a section of the LED source in the event of a black-out.

Louvre with a controlled beam to optimize the management of the light emitted. Symmetrical and asymmetrical optics in a single fixture: the beam of light changes from asymmetrical to symmetrical by simply removing part of the optic.

BUILDING AUTOMATION RADIO RECEIVER INTERFACE accessory available for remote switching on/off via radio.



Power *	• Dimensions (mm) •			Weight max kg
	W	L	B	
30	190	173	75.5	1.2
50	190	173	75.5	1.2
70	190	173	75.5	1.2

SPECIAL VARIATIONS:
COLOUR TEMPERATURE ON REQUEST, COLOUR RENDERING ≥90
Contact the Beghelli sales network

Accessories

supplied

Order code	Description
-	ANTI-VANDAL SCREWS
-	GONIOMETRIC BRACKET
-	CABLE GLAND M20 WITH VENTILATION VALVE

Accessories

to be ordered separately

Order code	Description
20108	BUILDING AUTOMATION RADIO RECEIVER INTERFACE

GROUND MOUNTING



WALL MOUNTING



GONIOMETRIC BRACKET



supplied

INVERTER

EMERGENCY WITH LED INVERTER

TR AT LG LGFM

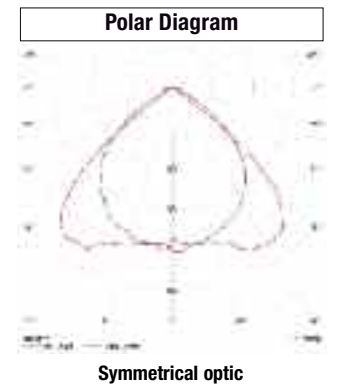
	19368	INVERTER PLUG&LIGHT LED SE/SA 1H 20-60V IP65	<i>to be ordered separately</i>
	19364	INV LED IP65 AT/LG 123H	<i>to be ordered separately</i>
	19365	INV LED IP65 LGFM 123H	<i>to be ordered separately</i>
	RA02	AUTORIPARA INVERTER BATTERY 7.2V 1.7Ah	<i>to be ordered separately</i>

VERSION WITH ASYMMETRICAL OPTIC



Louvre with divisible modules

The optic system has been created so as to obtain both a symmetrical and an asymmetrical beam. The light source can operate in symmetrical mode by removing part of the louvre.



F30/50/70 LED

Eco Driver electronic reactor

Potenza* W	Order code	Description	Optic	LED Power W	Colour Temp. K	Colour rendering	Power consumption Max W	N° LEDs	Flux of LEDs Im (Tj=25°C)	Flux of fixture Im	Luminous efficiency lm/W	Energy Class	Packaging
30	F30LED	PRO LED 1x30W 4K	SYM / ASYM	15	4000	>80	17	33	2100	1800	110	A++	1/8
50	F50LED	PRO LED 1x50W 4K	SYM / ASYM	23	4000	>80	26	66	3500	3000	110	A++	1/8
70	F70LED	PRO LED 1x70W 4K	SYM / ASYM	33	4000	>80	37	99	4600	4000	110	A++	1/8



Mounting on an adjustable bracket directed towards the courtyard area, maintaining an unusual glare control for outdoor louvres of this size. Remote control of the system is possible thanks to the Building automation radio receiver interface.





**INTEGRATED INTELLIGENT
PHOTOSENSOR ON SD VERSIONS**

AUTODIMMER NATURAL LIGHT

COMPENSATION FOR NATURAL LIGHT IN THE
ENVIRONMENT, FOR ENERGY SAVINGS OF OVER 75%

AUTODIMMER DYNAMIC LIGHT

AUTOMATIC REDUCTION OF LIGHT EMITTED IN THE
ABSENCE OF PEOPLE, FOR POTENTIAL FURTHER ENERGY
SAVINGS OF MORE THAN 20% - OVERALL EXPECTED
SAVINGS OF MORE THAN 85%

FH 70/150 LED

Aluminium, steel and glass: sturdy
Wall or ground outdoors
and completely recyclable



A single polyvalent fixture for use either as a projector or a louvre, combining design, sturdiness and superlative technical lighting features. The dual possibility of symmetrical and asymmetrical light diffusion is embodied in the same product and is achieved thanks to a louvre with divisible modules. A single fixture to achieve total coverage in outdoor lighting, solving the most varied technical lighting problems thanks to an innovative optical project based on efficiency and glare control. The small dimensions of the housing contrast with the depth of the beam of light which has no limits of use.



GENERAL CHARACTERISTICS

Equivalent Power* 70, 150, 200 W

Standard EN 60598-1, EN 60598-2-1, EN 60598-2-22 (fundamental requirements), EN 62471 (Photobiological hazard)

Power supply Universal Multy Voltage
93÷265 Vac - 50/60Hz 176÷250 Vdc

Protection grade IP66 with ventilation valve, IK09

Working temp. -20 ÷ +40°C

Mounting on the ground, wall, spotlight towers, suspension, ceiling

Housing Polyester powder coated die-cast aluminium RAL 7040

Optic Sheet metal with parabolic development in anti-iridescent, mirror finished, anodised aluminium. Symmetrical Asymmetrical

Louvre Prismatic toughened glass 4mm

Electronic gear SELV electronic SD (Cos $\eta \geq 0.97$) with intelligent dimming

MTBF Control gear** 100.000h

Luminous flux maintenance**
60.000h (1x200) (L80B20)
70.000h (1x150) (L80B20)
80.000h (1x70) (L80B20)

Colour tolerance 3 SDCM

* Equivalent power for comparison with metal halide fixtures
** At a reference working temperature of 25°C

FH70/150/200 LED

Projectors / Louvres

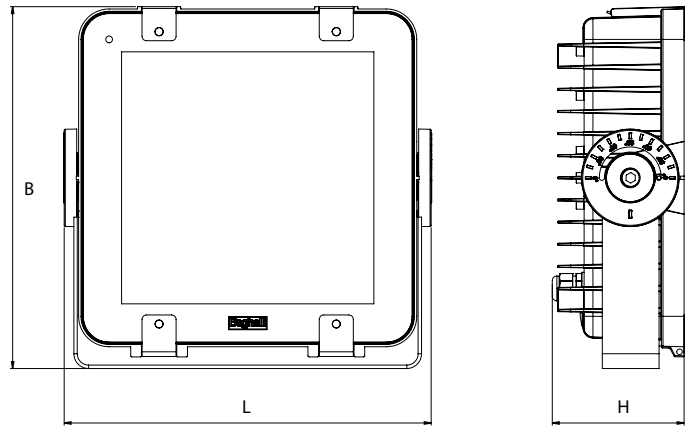
FH70, FH150 e FH200 LED are fixtures of the latest generation able to combine the advantages of the LED light source with state-of-the-art optic systems, as regards both performance and flexibility of application. The LED sources used, with very high efficiency, produce unprecedented lighting that allows the illumination of building façades or hardstands, even at considerable distance. The diffuser has an ample and uniform area of emission, allowing very low luminosity and therefore reduced glare with high visual comfort. The excellent mechanical characteristics (IP66-IK09) allow installation in outdoor settings even in extreme conditions, while the possibility of versions with a symmetrical or asymmetrical beam makes the fixture particularly versatile.

The "square cut" design of the FH 70/150/200 LED allows movements through 360°, on the axis of rotation of the goniometric bracket, thus enabling great flexibility of movement and mounting.

Thanks to the "Autodimmer Sensor" accessory, the fixture works with intelligent dimming. To ensure maximum energy saving, self-adapting technology is used on the sensor integrated in the fixture, to automatically adjust the emission of light according to the reading of the natural light present on the work surface.

A LED INVERTER is also available which transforms the fixture into an emergency maintained fixture, to light a section of the LED source in the event of a black-out.

Louvre with a controlled beam to optimize the management of the light emitted. Symmetrical and asymmetrical optics in a single fixture: the beam of light changes from asymmetrical to symmetrical by simply removing part of the optic.



Power * W	• Dimensions (mm) •			Weight max kg
	L	B	H	
70, 150, 200	323	319	116	4

Accessories

supplied

Order code	Description
-	ANTI-VANDAL SCREWS
-	GONIOMETRIC BRACKET
-	CABLE GLAND M20 WITH VENTILATION VALVE

Accessories

to be ordered separately

Order code	Description
12659	ELECTRIFIED RAIL FIXING BRACKET
12664	CEILING FIXING BRACKET
12661	POST HEAD 2X 60-76
12662	POST HEAD 4X 60-76
12663	LOUVRE SUSPENSION CABLE
12657	PROTECTIVE GRID

Accessories



supplied

Order code	Description
15039	INTELLIGENT OPTICOM PHOTOSENSOR

Building automation



to be ordered separately

Order code	Description
20102	DOMOTIC CENTER
20124	WiFi BUILDING AUTOMATION CENTRAL UNIT
20104	BUILDING AUTOMATION CENTRAL UNIT
15022	BUILDING AUTOMATION RADIO MODULE
15024	DALI MODULE
15034	1-10V MODULE
15025	GRANDE ESCO ITALIA RADIO MODULE

**DOMOTIC
RADIO
MODULE****GRANDE
ESCO
ITALIA
MODULE****1÷10V
MODULE****DALI
MODULE****PLUG&LIGHT
MODULE**

SD BUILDING AUTOMATION MODULES INDIVIDUALLY CONNECTED TO THE BEGHELLI SMARTDRIVER

**INTELLIGENT PHOTOSENSOR****1.** Autodimmer
Natural Light**2.** Autodimmer
Dynamic Light**3.** **opticom**
TECHNOLOGYSmartphone Interface
Device programming and control system**GROUND MOUNTING****WALL MOUNTING****SUSPENDED MOUNTING****GONIOMETRIC BRACKET**

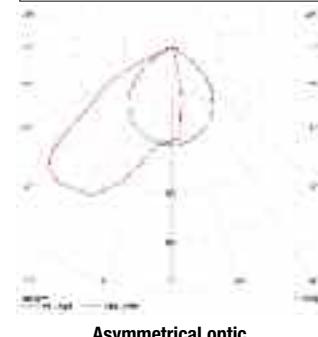
12663 LOUVRE SUSPENSION CABLE

VERSION WITH ASYMMETRICAL OPTIC**Louvre with divisible modules**

The optic system has been created so as to obtain both a symmetrical and an asymmetrical beam. The light source can operate in symmetrical mode by removing part of the louvre.

SPECIAL VARIATIONS: COLOUR TEMPERATURE ON REQUEST
Contact the Beghelli sales network**Efficiency and dimming**

The increase in luminous efficacy (lm/W) and the useful life of the device may vary significantly according to the degree to which it is dimmed. Assuming an average level of 50% of the luminous flux, the following results are obtained with the FH70/150/200 LED:

Dimming SD 50%
Device duration +40%
Luminous efficiency +10%**EMERGENCY WITH LED INVERTER****TR AT LG LGFM****19368** INVERTER PLUG&LIGHT LED SE/SA 1H 20-60V IP65 *to be ordered separately***19364** INV LED IP65 AT/LG 123H *to be ordered separately***19365** INV LED IP65 LGFM 123H *to be ordered separately***RA02** AUTORIPARA INVERTER BATTERY 7.2V 1.7Ah *to be ordered separately***INVERTER****Polar Diagram**

Asymmetrical optic

Polar Diagram

Symmetrical optic

FH70/150/200 LEDSmartDriver electronic reactor **SD**

Potenza* W	Order code	Description	Optic	LED Power W	Colour Temp. K	Colour rendering	Power consumption Max W	N° LEDs	Flux of LEDs lm (Tj=25°C)	Flux of fixture lm	Luminous efficiency lm/W	Energy Class	Packaging
70	FH70SD	PRO/RIF LED 1x70 SD 4K	SIM / ASIM	39	4000	>80	45	108	7000	6300	140	A++	1
150	FH150SD	PRO/RIF LED 1x150 SD 4K	SIM / ASIM	68	4000	>80	74 (56***)	180	12000	10000	137	A++	1
200	FH200SD	PRO/RIF LED 1x200 SD 4K	SIM / ASIM	86	4000	>80	98	192	16350	13000	132	A++	1

Mounting on an external façade with the fixtures pointing downwards. The optic has been set in asymmetrical mode to reduce the phenomena of downward glare and to uniform the lighting of the façade. Installing the Building automation radio receiver interface allows access to all the building automation possibilities that can be managed at a distance.







INTEGRATED INTELLIGENT PHOTOSENSOR ON SD VERSIONS

AUTODIMMER NATURAL LIGHT

COMPENSATION FOR NATURAL LIGHT IN THE ENVIRONMENT, FOR ENERGY SAVINGS OF OVER 75%

AUTODIMMER DYNAMIC LIGHT

AUTOMATIC REDUCTION OF LIGHT EMITTED IN THE ABSENCE OF PEOPLE, FOR POTENTIAL FURTHER ENERGY SAVINGS OF MORE THAN 20% - OVERALL EXPECTED SAVINGS OF MORE THAN 85%

FH350 LED

Aluminium, steel and glass: sturdy
Wall or ground outdoors
and completely recyclable



A projector that combines design, sturdiness and superlative technical lighting features, conceived for illuminating large outdoor areas. The dual possibility of light diffusion offers total coverage in outdoor lighting, solving the most complex lighting problems thanks to optics of the latest generation that focus on efficiency and glare control. The small dimensions of the housing contrast with the depth of the beam of light which has no limits of use.



GENERAL CHARACTERISTICS

Equivalent Power* 350 W

Standard EN 60598-1, EN 60598-2-1, EN 60598-2-22 (fundamental requirements), EN 62471 (Photobiological hazard), EN61493

Power supply Universal Multy Voltage
93÷265 Vac - 50/60Hz 176÷250 Vdc

Protection grade IP66 with ventilation valve, IK09

Working temp. -20 ÷ +40°C

Mounting on the ground, wall, spotlight towers suspension

Housing Die-cast aluminium RAL 7040

Louvre Sheet metal with parabolic development in anti-iridescent, mirror finished, anodised aluminium. Symmetrical Asymmetrical

Diffuser Prismatic toughened glass 4mm

Electronic gear SELV electronic SD (Cos $\varphi \geq 0.97$)
Electronic with intelligent dimming

MTBF Control gear** 100.000h

Luminous flux maintenance** >70.000h (L80B20)

Colour tolerance 3 SDCM

* Equivalent power for comparison with metal halide fixtures

** At a reference working temperature of 25°C

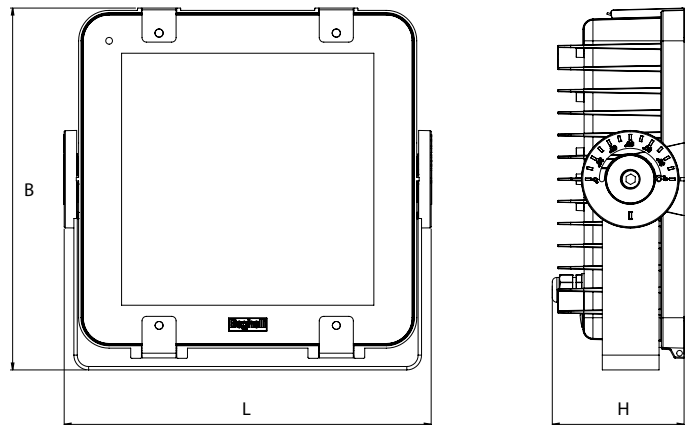
FH350 LED

Louvres

FH 350 LED is a fixture of the latest generation able to combine the advantages of the LED light source with state-of-the-art optic systems, as regards both performance and flexibility of application. The LED sources used, with very high efficiency, produce unprecedented lighting that allows the illumination of building façades or hardstands, even at considerable distance. The diffuser has an ample and uniform area of emission, allowing very low luminosity and therefore reduced glare with high visual comfort. The excellent mechanical characteristics (IP66-IK09) allow installation in outdoor settings even in extreme conditions, while the possibility of versions with a symmetrical or asymmetrical beam makes the fixture particularly versatile.

The "square cut" design of the FH350 LED allows movements through 360°, on the axis of rotation of the goniometric bracket, thus enabling great flexibility of movement and mounting.

In the versions with intelligent dimming, to ensure maximum energy saving, self-adapting technology is used on the sensor integrated in the fixture, to automatically adjust the emission of light according to the reading of the natural light present on the work surface.



Power * W	• Dimensions (mm) •			Weight max kg
	L	B	H	
350	438	434	121	8,8

Accessories

supplied

Order code	Description
-	ANTI-VANDAL SCREWS
-	GONIOMETRIC BRACKET
-	CABLE GLAND M20 WITH VENTILATION VALVE

Building automation



to be ordered separately

Order code	Description
20102	DOMOTIC CENTER
20124	WiFi BUILDING AUTOMATION CENTRAL UNIT
20104	BUILDING AUTOMATION CENTRAL UNIT
15022	BUILDING AUTOMATION RADIO MODULE
15024	DALI MODULE
15034	1-10V MODULE
15025	GRANDE ESCO ITALIA RADIO MODULE

Accessories



supplied

Order code	Description
15039	INTELLIGENT OPTICOM PHOTOSENSOR

Accessories

to be ordered separately

Order code	Description
12659	ELECTRIFIED RAIL FIXING BRACKET
12664	CEILING FIXING BRACKET
12661	POST HEAD 2X 60-76
12662	POST HEAD 4X 60-76
12663	LOUVRE SUSPENSION CABLE
12658	PROTECTIVE GRID



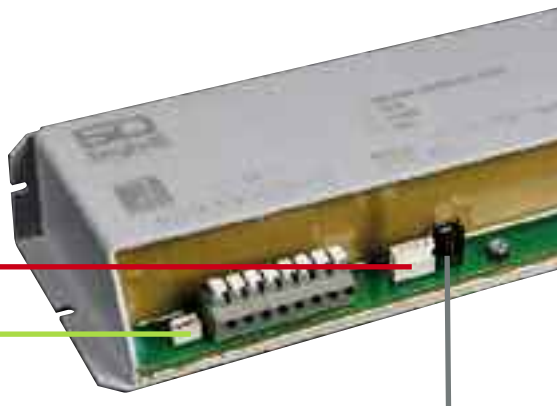
DOMOTIC
RADIO
MODULE

GRANDE
ESCo
ITALIA
MODULE

1÷10V
MODULE

DALI
MODULE

SD BUILDING AUTOMATION MODULES INDIVIDUALLY CONNECTED TO THE BEGHELLI SMARTDRIVER



INTELLIGENT PHOTSENSOR

1. Autodimmer Natural Light
2. Autodimmer Dynamic Light
3. **opticom** TECHNOLOGY Smartphone Interface Device programming and control system

GROUND MOUNTING



WALL MOUNTING



SUSPENDED MOUNTING



12663 *to be ordered separately*

PROTECTIVE GRID



GONIOMETRIC BRACKET



12658 PROTECTIVE GRID

Efficiency and dimming

The increase in luminous efficacy (lm/W) and the useful life of the device may vary significantly according to the degree to which it is dimmed. Assuming an average level of 50% of the luminous flux, the following results are obtained with the FH350 LED:

- Dimming SD** 50%
- Device duration** +40%
- Luminous efficiency** +10%

SPECIAL VARIATIONS:
COLOUR TEMPERATURE ON REQUEST,, COLOUR RENDERING ≥90
Contact the Beghelli sales network

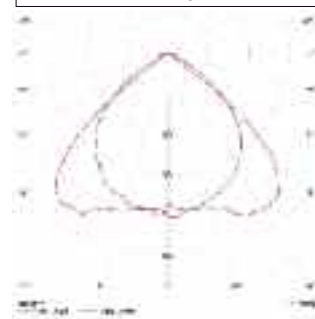
EMERGENCY WITH LED INVERTER

TR AT LG LGFM

- 19368 INVERTER PLUG&LIGHT LED SE/SA 1H 20-60V IP65 *to be ordered separately*
- 19364 INV LED IP65 AT/LG 123H *to be ordered separately*
- 19365 INV LED IP65 LGFM 123H *to be ordered separately*
- RA02 AUTORIPARA INVERTER BATTERY 7.2V 1.7Ah *to be ordered separately*

INVERTER

Polar Diagram



Wide symmetrical optics

FH350 LED

SmartDriver electronic reactor **SD**

Potenza* W	Order code	Description	Optic	LED Power W	Colour Temp. K	Colour rendering	Power consumption Max W	N° LEDs	Flux of LEDs Im (Tj=25°C)	Flux of fixture Im	Luminous efficiency lm/W	Energy Class	Packaging
350	FH350SD	PRO/RIF LED 350 SD 4K	DIF/SIM	157	4000	>80	175	384	27800	23000	131	A++	1

OUTDOOR LOUVRES





Installation on external façade with devices pointing downwards. The optic has been positioned asymmetrically in order to reduce downwards glare and render the lighting effect across the façade more uniform. Installing the domotic radio receiver interface enables operators to access all of the automated and domotic options that can be managed by remote control.



**INTEGRATED INTELLIGENT
PHOTOSENSOR ON SD VERSIONS**

AUTODIMMER NATURAL LIGHT

COMPENSATION FOR NATURAL LIGHT IN THE
ENVIRONMENT, FOR ENERGY SAVINGS OF OVER 75%

AUTODIMMER DYNAMIC LIGHT

AUTOMATIC REDUCTION OF LIGHT EMITTED IN THE
ABSENCE OF PEOPLE, FOR POTENTIAL FURTHER ENERGY
SAVINGS OF MORE THAN 20% - OVERALL EXPECTED
SAVINGS OF MORE THAN 85%

F250/400 LED

Aluminium, steel and glass: sturdy
and completely recyclable

Industrial lighting,
but street lighting too

A projector that combines design, sturdiness and superlative technical lighting features, conceived for illuminating large outdoor areas. The dual possibility of light diffusion offers total coverage in outdoor lighting, solving the most complex lighting problems thanks to optics of the latest generation that focus on efficiency and glare control. The small dimensions of the housing contrast with the depth of the beam of light which has no limits of use.





GENERAL CHARACTERISTICS

Equivalent Power* 250, 400 W

Standard EN 60598-1, EN 60598-2-1, EN 60598-2-22 (fundamental requirements), EN 62471 (Photobiological hazard)

Power supply Universal Multy Voltage
93÷265 Vac - 50/60Hz 176÷250 Vdc

Protection grade IP66 with ventilation valve, IK09

Working temp. -20 ÷ +40°C

Mounting on the ground, wall, spotlight towers

Housing Die-cast aluminium RAL 7040

Louvre Sheet metal with parabolic development in anti-iridescent, mirror finished, anodised aluminium. Symmetrical Asymmetrical

Diffuser Prismatic toughened glass 4mm

Electronic gear SELV electronic SD (Cos $\varphi \geq 0.97$)
Electronic with intelligent dimming

MTBF Control gear** 100.000h

Luminous flux maintenance**
>60.000h (1x400W) (L80B20)
>70.000h (1x250W) (L80B20)

Colour tolerance 3 SDCM

* Equivalent power for comparison with metal halide fixtures

** At a reference working temperature of 25°C

F250/400 LED

Louvres

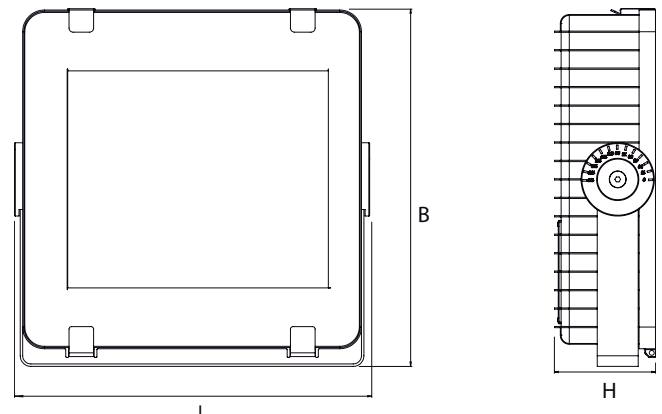
The F250/F400 LED is a fixture of the latest generation able to combine the advantages of the LED light source with state-of-the-art optic systems, as regards both performance and flexibility of application. The LED sources used, with very high efficiency, produce unprecedented lighting that allows the illumination of building façades or hardstands, even at considerable distance. The diffuser has an ample and uniform area of emission, allowing very low luminosity and therefore reduced glare with high visual comfort. The excellent mechanical characteristics (IP66-IK09) allow installation in outdoor settings even in extreme conditions, while the possibility of versions with a symmetrical or asymmetrical beam makes the fixture particularly versatile.

The "square cut" design of the FH350 LED allows movements through 360°, on the axis of rotation of the goniometric bracket, thus enabling great flexibility of movement and mounting.

In the versions with intelligent dimming, to ensure maximum energy saving, self-adapting technology is used on the sensor integrated in the fixture, to automatically adjust the emission of light according to the reading of the natural light present on the work surface.

A LED INVERTER is also available which transforms the fixture into an emergency maintained fixture, to light a section of the LED source in the event of a black-out.

The versions with intelligent dimming are enabled in the "Grande ESCo Italia" project.



Power * W	• Dimensions (mm) •			Weight max kg
	L	B	H	
250	438	434	121	8.8
400	438	434	121	8.8

Accessories

supplied

Order code	Description
-	ANTI-VANDAL SCREWS
-	GONIOMETRIC BRACKET
-	CABLE GLAND M20 WITH VENTILATION VALVE

Building automation to be ordered separately

Order code	Description
20102	DOMOTIC CENTER
20124	WiFi BUILDING AUTOMATION CENTRAL UNIT
20104	BUILDING AUTOMATION CENTRAL UNIT
15022	BUILDING AUTOMATION RADIO MODULE
15024	DALI MODULE
15034	1-10V MODULE
15025	GRANDE ESCO ITALIA RADIO MODULE

Accessories supplied

Order code	Description
15039	INTELLIGENT OPTICOM PHOTOSENSOR

Accessories to be ordered separately

Order code	Description
12661	POST HEAD 2x 60-76
12662	POST HEAD 4x 60-76
12658	PROTECTIVE GRID



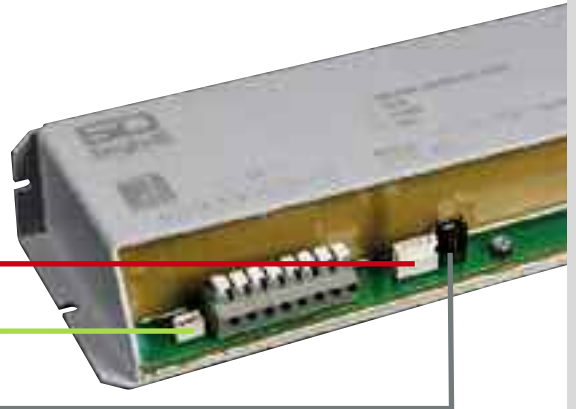
DOMOTIC RADIO MODULE

GRANDE ESCo ITALIA MODULE

1÷10V MODULE

DALI MODULE

SD BUILDING AUTOMATION MODULES INDIVIDUALLY CONNECTED TO THE BEGHELLI SMARTDRIVER



INTELLIGENT PHOTOSENSOR

1. **Autodimmer Natural Light**
2. **Autodimmer Dynamic Light**
3. **opticom TECHNOLOGY Smartphone Interface Device programming and control system**

GROUND MOUNTING



WALL MOUNTING



PROTECTIVE GRID



GONIOMETRIC BRACKET



12658 PROTECTIVE GRID

SPECIAL VARIATIONS:
COLOUR TEMPERATURE ON REQUEST,, COLOUR RENDERING ≥90
Contact the Beghelli sales network

Efficiency and dimming

The increase in luminous efficacy (lm/W) and the useful life of the device may vary significantly according to the degree to which it is dimmed. Assuming an average level of 50% of the luminous flux, the following results are obtained with the F250/400 LED:

- Dimming SD 50%**
- Device duration +40%**
- Luminous efficiency +10%**

POST MOUNTING



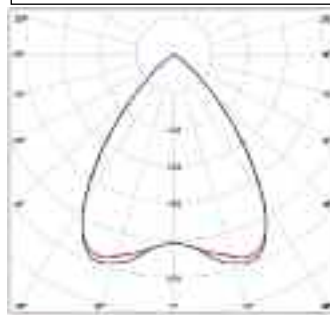
12661 POST HEAD 2x 60-76

to be ordered separately

12662 POST HEAD 4x 60-76

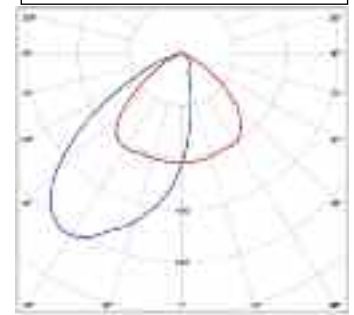
to be ordered separately

POLAR DIAGRAM



Symmetrical optics

POLAR DIAGRAM



Asymmetrical optics

EMERGENCY WITH LED INVERTER

TR AT LG LGFM

- 19368** INVERTER PLUG&LIGHT LED SE/SA 1H 20-60V IP65 *to be ordered separately*
- 19364** INV LED IP65 AT/LG 123H *to be ordered separately*
- 19365** INV LED IP65 LGFM 123H *to be ordered separately*
- RA02** AUTORIPARA INVERTER BATTERY 7.2V 1.7Ah *to be ordered separately*

F250/400 LED

SmartDriver electronic reactor **SD**

Potenza* W	Order code	Description	Optic	LED Power W	Colour Temp. K	Colour rendering	Power consumption Max W	N° LEDs	Flux of LEDs lm (Tj=25°C)	Flux of fixture lm	Luminous efficiency lm/W	Energy Class	Packaging
250	F250SSD	PRO LED 250 SM SD 4000K	SIMMETRICA	110	4000	>80	119	256	18500	16000	134	A++	1
400	F400SSD	PRO LED 400 SM SD 4000K	SIMMETRICA	216	4000	>80	234	512	35000	30000	128	A++	1
250	F250ASD	PRO LED 250 AS SD 4000K	ASIMMETRICA	110	4000	>80	119	256	18500	16000	134	A++	1
400	F400ASD	PRO LED 400 AS SD 4000K	ASIMMETRICA	216	4000	>80	234	512	35000	30000	128	A++	1





F250/400 LED Floodlight has a practical adjustable bracket that allows mounting on the wall or on the ground. The possibility of an asymmetrical optic, with very high illumination, makes it particularly suitable for the illumination of large industrial façades.



Strada LED

Aluminum, steel and glass:
The street device
strength and complete
recycling
for smart cities.



High-performance street lighting fixture with a double optic system for maximum lighting uniformity. Features geometrical designs that are very elegant as well as technically superior.

The models are perfect for both city and non-city areas with intense traffic and for the lighting of cycle-walking paths and nature areas.

SmartDriver accessories complete the high-technology profile that can be perfectly adapted to the requirements of Smart City architecture.

Strada LED

Street lamp

The Strada LED combines architectural lighting requirements with the Smart necessities of the new smart cities. The range includes fixtures of the latest generation able to combine the advantages of the low luminosity LED source with state-of-the-art optic systems, as regards both performance and flexibility of application. The optic system used has a geometry studied to obtain low luminosity and therefore reduced glare and high visual comfort.

The excellent mechanical characteristics (IP66-IK09) offered by the innovative housing in die-cast aluminium and toughened glass ensure long life in outdoor environments even in extreme conditions. The SmartDriver, installed on the whole S series, allows integration with the various Smart modules in the system, making it possible to use the Street Lamp in a SmartCities setting.



GENERAL CHARACTERISTICS

Equivalent Power* 70, 100, 150, 250 W

Standard EN 60598-1, EN 60598-2-3, EN 60598-2-22, EN 62471 (Photobiological hazard), EN55015; EN 61547, EN 61003-2, EN 61003-2

Power supply 93÷265 Vac - 50/60Hz
176÷250 Vdc

Protezione sovratensioni 10 Kv (SPD integrato)

Protection grade IP66 with ventilation valve, IK09

Working temp. -20 ÷ +40°C

Inclinazione 0-20°

Mounting Pole head or arm Ø60 -76mm

Housing Polyester powder coated die-cast aluminium RAL 7040

Louvre Sheet metal with parabolic development in anti-iridescent, mirror finished, anodised aluminium.
urban roads and extraurban roads (ME2, ME3A, ME3B, ME4A, ME4B, ME5, ME6), footpaths and cycle tracks (CE, S)

Diffuser Toughened glass 5mm thick

Electronic gear Electronic SD (Cos $\varphi \geq 0.95$) with intelligent dimming

LED current adjustable (max 700mA)

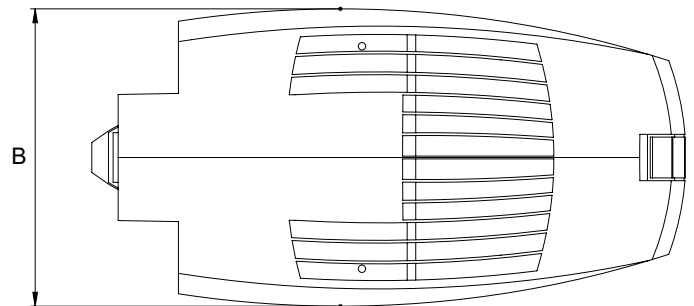
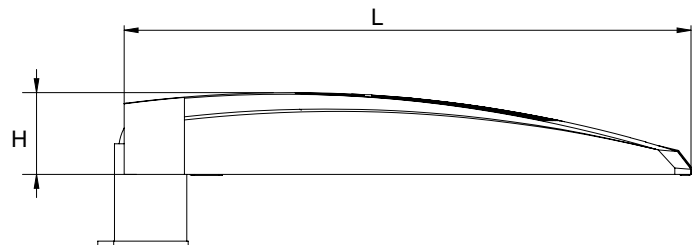
MTBF Control gear** 80.000h

Luminous flux maintenance** >70.000h (S70, S100, S150) (L80B20)
>75.000h (S30, S50) (L80B20)

Colour tolerance 3 SDCM

* Equivalent power for comparison with metal halide fixtures

** At a reference working temperature of 25°C



Power * W	• Dimensions (mm) •			Weight max kg
	L	B	H	
70	611	320	88	5.5
100	611	320	88	5.5
150	611	320	88	5.7
250	611	320	88	5.7

Building automation to be ordered separately

Order code	Description
20102	DOMOTIC CENTER
20104	BUILDING AUTOMATION CENTRAL UNIT
15022	BUILDING AUTOMATION RADIO MODULE
15024	DALI MODULE
15034	1-10V MODULE
15025	GRANDE ESCO ITALIA RADIO MODULE

Accessories

supplied

Order code	Description
-	M20 CABLE GLAND WITH VENTILATION VALVE

SPECIAL VARIATIONS: COLOUR TEMPERATURE ON REQUEST
Contact the Beghelli sales network

**DOMOTIC
RADIO
MODULE**

**GRANDE
ESCO
ITALIA
MODULE**

**1÷10V
MODULE**

**DALI
MODULE**

SD BUILDING AUTOMATION MODULES INDIVIDUALLY CONNECTED TO THE BEGHELLI SMARTDRIVER



Efficiency and dimming

The increase in luminous efficacy (lm/W) and the useful life of the device may vary significantly according to the degree to which it is dimmed. Assuming an average level of 50% of the luminous flux, the following results are obtained with the Strada LED:

Dimming **50%**
Device duration **+40%**
Luminous efficiency **+10%**

POST HEAD MOUNTING Ø60



ARM MOUNTING Ø60



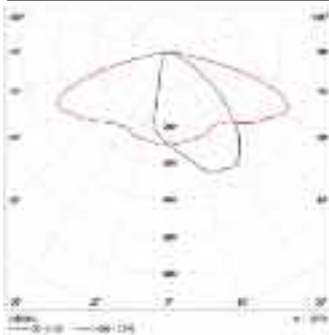
FAST WIRING CONNECTOR



DOUBLE POWER SUPPLY

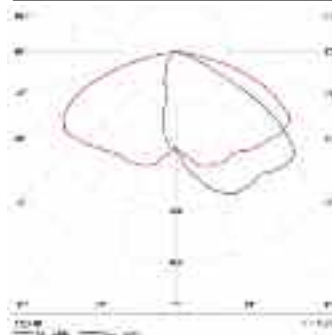


POLAR DIAGRAM



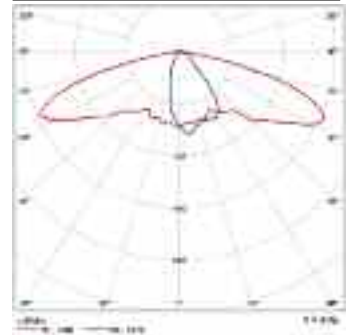
Urban optic

POLAR DIAGRAM



Long beam city/non-city optic

POLAR DIAGRAM



Cycle/pedestrian city/parking optic

Strada LED

SmartDriver electronic reactor

Potenza* W	Order code	Description	Optic	LED Power W	Colour Temp. K	Colour rendering	Power consumption Max W	N° LEDs	Flux of LEDs lm (Tj=25°C)	Flux of fixture lm	Luminous efficiency lm/W	Energy Class	Packaging
1x50	S50EXSD	STRA LED EX 1x50 SD 4K	Extrurban Street	32	4000	>70	34	24	4800	4000	115	A++	1/1
1x70	S70EXSD	STRA LED EX 1x70 SD 4K	Extrurban Street	47	4000	>70	51	24	6700	5600	110	A++	1/1
1x100	S100EXSD	STRA LED EX 1x100 SD 4K	Extrurban Street	66	4000	>70	72(56***)	48	10000	8000	112	A++	1/1
1x150 2	S150EXSD	STRA LED EX 1x150 SD 4K	Extrurban Street	94	4000	>70	103	48	13500	11500	105	A++	1/1
1x250 2	S250EXSD	STRA LED EX 1x250 SD 4K	Extrurban Street	120	4000	>70	130(113***)	48	17000	14000	110	A++	1/1
1x50	S50EXLSD	STRA LED EX LONG 1x50 SD 4K	Extrurban Wide Street	32	4000	>70	34	24	4800	4000	115	A++	1/1
1x70	S70EXLSD	STRA LED EX LONG 1x70 SD 4K	Extrurban Wide Street	47	4000	>70	51	24	6700	5600	110	A++	1/1
1x100	S100EXLSD	STRA LED EX LONG 1x100 SD 4K	Extrurban Wide Street	66	4000	>70	72(56***)	48	10000	8000	112	A++	1/1
1x150 2	S150EXLSD	STRA LED EX LONG 1x150 SD 4K	Extrurban Wide Street	94	4000	>70	103	48	13500	11500	105	A++	1/1
1x250 2	S250EXLSD	STRA LED EX LONG 1x250 SD 4K	Extrurban Wide Street	120	4000	>70	130(113***)	48	17000	14000	109	A++	1/1
1x30	S30UCSD	STRA LED UC 1x30 SD 4K	Urb. Cycle-ped. Street/ Park	22	4000	>70	24	16	3400	2900	120	A++	1/1
1x50	S50UCSD	STRA LED UC 1x50 SD 4K	Urb. Cycle-ped. Street/ Park	31	4000	>70	34	16	4500	3900	115	A++	1/1
1x70	S70UCSD	STRA LED UC 1x70 SD 4K	Urb. Cycle-ped. Street/ Park	44	4000	>70	48	32	6700	5300	110	A++	1/1
1x100 P	S100UCSD	STRA LED UC 1x100 SD 4K	Urb. Cycle-ped. Street/ Park	60	4000	>70	66(56***)	32	9400	7200	109	A++	1/1

* Specific fixture for outdoor Parking Areas (to determine Area Dimensions contact Beggelli Sales Network)

*** The power consumption has an auto derating to the power indicated in parenthesis if the product is powered by voltage less than 110 Vac.

2 Versions 150 and 200 are equipped with dual drivers which require two domotic radio modules to control the device. The two LED sources are managed independently from each other.



Strada LED replaces traditional fixtures with VM lamps from 80 to 250W and SAP lamps from 70 to 150W





Centrostrada 50/70 LED

Aluminium, steel and glass:
The street lighting device
robust and fully recyclable
for smart cities.



This device completes the range of street lighting. Suspended mounting on cables or pull-cords, for installation where poles cannot be used, such as in the middle of roads or in historical city centres.

With a simple, geometric design, this device is both elegant and technologically advanced. The SmartDriver accessories provided serve to further enhance the technological features of the device, enabling it to adapt so that it can be seamlessly integrated into Smart City technologies.

Centrostrada 50/70 LED

Street lamp



GENERAL CHARACTERISTICS

Equivalent Power* 50, 70 W

Standard EN 60598-1, EN 60598-2-3, EN 60598-2-22, EN 62471 (Photobiological hazard), EN55015; EN 61547, EN 61003-2, EN 61003-2

Power supply Universal Multy Voltage
93÷265 Vac - 50/60Hz 176÷250 Vdc

Protection grade IP66 with ventilation valve, IK09

Working temp. -20 ÷ +40°C

Inclinazione -20° ÷ +20°

Mounting suspended on tensioned cable

Housing Painted die-cast aluminium with polyester powder coating RAL 7040

Optic Sheet metal with parabolic development in anti-iridescent, mirror finished, anodised aluminium.

Louvre Tempered glass 4mm thick

Power supply SELV electronic SD (Cos $\varphi \geq 0,95$) with intelligent dimming

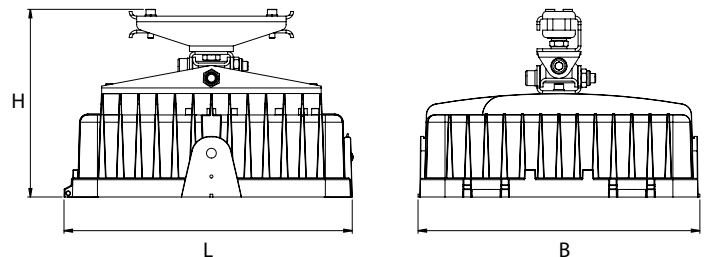
MTBF Control gear** 80.000h

Luminous flux maintenance** 80.000h (L80B20)

Colour tolerance 3 SDCM

* Equivalent power for comparison with metal halide fixtures

** At a reference working temperature of 25°C



Power * W	• Dimensions (mm) •			Weight max kg
	L	B	H	
50	309	302	201	5.5
70	309	302	201	5.5

SPECIAL VARIATIONS:
COLOUR TEMPERATURE ON REQUEST, COLOUR RENDERING ≥ 90
Contact the Beghelli sales network

Accessories

supplied

Order code	Description
-	M20 CABLE GLAND WITH VENTILATION VALVE
-	ADJUSTABLE BRACKET FOR TENSIONED CABLE (-20° +20°)

Accessories

to be ordered separately

Order code	Description
12657	PROTECTIVE GRID

Building automation

to be ordered separately

Order code	Description
20102	DOMOTIC CENTER
20124	BUILDING AUTOMATION WiFi CONTROL UNIT
20104	BUILDING AUTOMATION CENTRAL UNIT
5022	BUILDING AUTOMATION RADIO MODULE
15024	DALI MODULE
15034	1-10V MODULE
15025	GRANDE ESCO ITALIA RADIO MODULE
15021	AUTODIMMER SENSOR

**DOMOTIC
RADIO
MODULE**

**GRANDE
ESCO
ITALIA
MODULE**

**1÷10V
MODULE**

**DALI
MODULE**

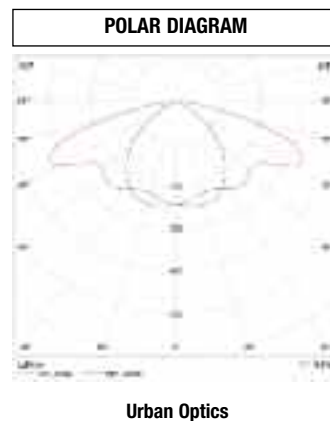
SD BUILDING AUTOMATION MODULES INDIVIDUALLY CONNECTED TO THE BEGHELLI SMARTDRIVER



ADJUSTABLE BRACKET FOR TENSIONED CABLE



- ADJUSTABLE BRACKET FOR TENSIONED CABLE supplied



Centrostrada 50/70 LED

SmartDriver electronic reactor **SD**

Potenza* W	Order code	Description	Optic	LED Power W	Colour Temp. K	Colour rendering	Power consumption Max W	N° LEDs	Flux of LEDs Im (Tj=25°C)	Flux of fixture Im	Luminous efficiency lm/W	Energy Class	Packaging
1x50	CS50SD	CENTROSTRADA LED 1x50 SD 4K	32	4000	>80	35	24	5300	4400	126	A++	1/1	
1x70	CS70SD	CENTROSTRADA LED 1x70 SD 4K	45	4000	>80	50	24	7600	6200	124	A++	1/1	



Centrostrada 100/150/250 LED

Aluminium, steel and glass:
The street lighting device
robust and fully recyclable
for smart cities



This device completes the range of street lighting. Suspended mounting on cables or pull-cords, for installation where poles cannot be used, such as in the middle of roads or in historical city centres. With a simple, geometric design, this device is both elegant and technically advanced. The SmartDriver accessories provided serve to further enhance the technological features of the device, enabling it to adapt so that it can be seamlessly integrated into Smart City technologies.



Centrostrada 100/150/250 LED

Street lamp

Suspended street lighting combines architectural lighting requirements with the needs of the new smart cities. The range includes a number of latest-generation devices that combine the advantages of low luminance LED light sources with state-of-the-art optical systems, offering excellent performance and superb flexibility across a host of applications. The optical system used is designed with a geometry created to obtain very low luminance, for minimal glare and high visual comfort.

The excellent mechanical properties (IP66-IK09) of the innovative die-cast aluminium and tempered glass body ensure the longevity of the device in outdoor environments, even in extreme conditions.

GENERAL CHARACTERISTICS

Equivalent Power* 100, 150, 250 W

Standard EN 60598-1, EN 60598-2-3, EN 60598-2-22, EN 62471 (Photobiological hazard), EN55015; EN 61547, EN 61003-2, EN 61003-2

Power supply Universal Multy Voltage
93÷265 Vac - 50/60Hz
176÷250 Vdc

Protection grade IP66 with ventilation valve, IK09

Working temp. -20 ÷ +40°C

Inclinazione -20° ÷ +20°

Mounting suspended on tensioned cable

Housing Polyester powder coated die-cast aluminium RAL 7040

Louvre Sheet metal with parabolic development in anti-iridescent, mirror finished, anodised aluminium.

Diffuser Toughened glass 4mm thick

Electronic gear Electronic SD (Cos $\varphi \geq 0.95$) with intelligent dimming

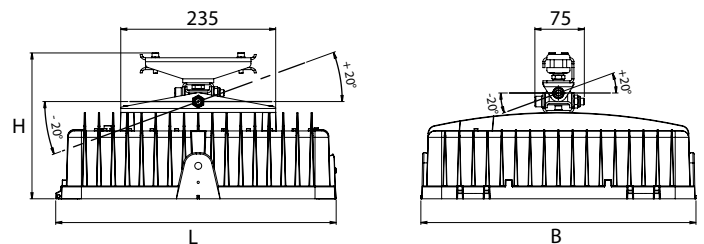
MTBF Control gear** 100.000h

Luminous flux maintenance** 80.000h (L80B20)

Colour tolerance 3 SDCM

* Equivalent power for comparison with metal halide fixtures

** At a reference working temperature of 25°C



Power *	• Dimensions (mm) •			Packaging	Weight max kg
	W	L	B		
100	425	417	221	1	7.7
150	425	417	221	1	7.7
250	425	417	221	1	7.7

SPECIAL VARIATIONS:

COLOUR TEMPERATURE ON REQUEST, COLOUR RENDERING ≥ 90
Contact the Beghelli sales network

Accessories

supplied

Order code	Description
-	M20 CABLE GLAND WITH VENTILATION VALVE
-	ADJUSTABLE BRACKET FOR TENSIONED CABLE (-20° +20°)

Accessories

to be ordered separately

Order code	Description
12658	PROTECTIVE GRID

Building automation

to be ordered separately

Order code	Description
20102	DOMOTIC CENTER
20124	BUILDING AUTOMATION WiFi CONTROL UNIT
20104	BUILDING AUTOMATION CENTRAL UNIT
15022	BUILDING AUTOMATION RADIO MODULE
15024	DALI MODULE
15034	1-10V MODULE
15025	GRANDE ESCO ITALIA RADIO MODULE

DOMOTIC
RADIO
MODULE

GRANDE
ESCO
ITALIA
MODULE

1÷10V
MODULE

DALI
MODULE

SD BUILDING AUTOMATION MODULES INDIVIDUALLY CONNECTED TO THE BEGHELLI SMARTDRIVER

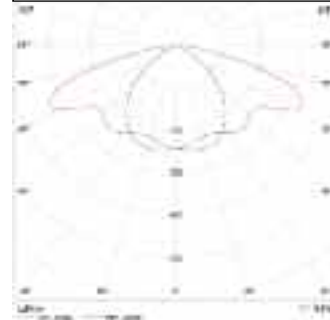


ADJUSTABLE BRACKET FOR TENSIONED CABLE



- ADJUSTABLE BRACKET FOR TENSIONED CABLE supplied

POLAR DIAGRAM



Urban Optic

Centrostrada 100/150/250 LED

SmartDriver electronic reactor 

Potenza* W	Order code	Description	LED Power W	Colour Temp. K	Colour rendering	Power consumption Max W	N° LEDs	Flux of LEDs lm (Tj=25°C)	Flux of fixture lm	Luminous efficiency lm/W	Energy Class	Packaging
1x100	CS100SD	CENTROSTRADA LED 1x100 SD 4K	64	4000	>80	70	48	10400	8600	124	A++	1/1
1x150	CS150SD	CENTROSTRADA LED 1x150 SD 4K	92	4000	>80	100	48	14500	12000	120	A++	1/1
1x250	CS250SD	CENTROSTRADA LED 1x250 SD 4K	120	4000	>80	130	48	18500	15000	115	A++	1/1



Example of Centrostrada device for public lighting where installation of reinforced poles is not possible







Controls Systems

Control units, devices and software



Building automation control Unit

Enables domotic control of all SD devices with radio module: scenarios can be programmed according to specific timings within the astronomical calendar year, both locally via WiFi or remotely using a PC, via the Software SD Manager, included



Building Automation Radio Transmitter Interface

Radio module for activating scenarios on SD devices equipped with radio modules. Switching ED devices equipped with domotic radio receiver interface on and off



Building Automation Radio receiver Interface

Receiver module for switching ED devices on and off via radio, using the domotic radio transmitter interface or control unit



Building automation radio module

When inserted into the SmartDriver, it activates the radio connection with the control unit or domotic radio receiver interface. Control and programming via PC with SD Manager



DALI Module

Module for communicating with the DALI communication protocol



1/10V Module

Module for interfacing for direct command analogue dimming



Grande ESCo Italia radio Module

Module for collecting energy consumption data, used to provide the necessary information to the accredited energy company (ESCo)



Intelligent Opticom Photosensor

The intelligent eye of the SD system. Enables the Autodimmer with natural light compensation (Natural Light) and Autodimmer with movement detector (Dynamic Light). Opticom also receives commands from the flash on a smartphone



Building automation control unit

Building automation lighting



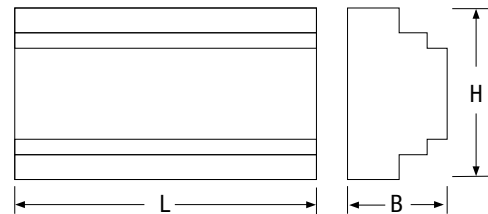
GENERAL CHARACTERISTICS

- Protection grade** IP20
- Working temp.** -20 ÷ +40°C
- Mounting** on 9 module DIN bar
- Fixtures managed** up to 992 including lighting and emergency
- Local transmission** Spread Spectrum radio system SFH DSSS in 16 channels
- Remote transmission** GSM, can be connected to a Beghelli Services databases, Interfaceable with BMS (Building Management Systems) by RS-485 interface, MODBUS protocol
- Functions** Complete control of operation of the lighting system, in particular:
 - Switching up to 256 groups on and off
 - setting the dimmer level
 - Defining the operating mode (fixed luminosity at the set value or automatic adjustment of luminosity)
 - Diagnostics
 - Measurement of the energy consumed and saved
 - Creation of lighting scenarios
 - Timed switching on/off of groups of lamps
 - Configuration of the lighting system
 - Management of all the functions of the emergency system
 - Synchronization and timing of the test functions
 - Inhibition/enabling of the emergency
 - Detailed management of errors
 - Alternate tests on 50% of the system

Control unit for light fixtures and emergency lighting with radio control equipped with the Beghelli Spread Spectrum transceiver integrated in the Electronic Driver with intelligent dimming. The control unit sends the light fixtures the necessary commands to regulate their operation and receives information from the fixtures on their status, diagnostics and energy consumption data. The control unit is able to control each different light fixture in the system individually. The control unit coordinates operation of the network of communication that allows the control of the light fixtures even in large buildings, by the automatic routing of information packages through the network consisting of the lighting and emergency fixtures. The control unit also includes a GSM communicator that allows remote control of the system.



Power supply V-Hz	• Dimensions (mm) •			Protection grade	Weight kg
	L	B	H		
230-50	160	75	90	IP20	0.6



Building automation

supplied

Order code	Description
20109	BUILDING AUTOMATION PC SOFTWARE
-	CABLE RS485/USB (IN CODE 20102)
-	CONVERTER RS485/WIFI - ETHERNET (in code 20103)

Building automation control unit

Order code	Description	Packaging
20102	DOMOTIC CENTER USB	1
20103	DOMOTIC CENTER WIFI	1



Building Automation Radio Transmitter Interface

Building automation lighting

The transmitter is a radio interface device, supplied at 230Vac, with an input at 230V able to send radio commands to the light fixtures or to appropriate receivers with relay actuators.

The device, with approximate dimensions 46x49x24mm, has 3 screw terminals, two for the power supply (N and P) and one input (I) which reads the voltage present shared with the neutral terminal (N).

The device has a built-in antenna and can be fitted in any type of unshielded container; if used in a 503 box it occupies the internal space of a single socket.

The functions that can be associated with the transmitter are the following:

- Transmission of a timed command (button or movement sensor);
- Status transmission (switch on/off)

The commands sent by the transmitter are associated with a single light fixture or with groups of fixtures.



Order code	Description	Packaging
20104	BUILDING AUTOMATION CENTRAL UNIT	1



Building automation radio receiver interface

Building automation lighting

The Receiver is a radio interface device, supplied at 230Vac, which integrates a relay able to control light fixtures and other electric loads.

With approximate dimensions 46x49x24mm, has 4 screw terminals, two for the power supply (N and P) and two for the 230V output (N and Pout).

The antenna is built-in and can be fitted in any type of unshielded container; if used in a 503 box it occupies the internal space of a single socket.

The relay is able to switch a maximum current of 10A to 230Vac. The receiver also has a built-in power meter and a counter for the electric energy distributed at the output. The counter data are read by radio messages and it is enabled in the "Grande EScO Italia" project.

The device is associated with one or more radio transmitters and activates the corresponding commands.



Order code	Description	Packaging
20108	BUILDING AUTOMATION RADIO RECEIVER INTERFACE	1



Building automation radio module

Building automation lighting

Spread Spectrum radio transceiver operating in the band 2.400-2.483 GHz according to Beghelli FH-DSSS protocol. The device enables the LED Control gear (SmartDriver) of the light fixture in which it is inserted for remote control and wireless control. The building automation radio module is fed by the SmartDriver and allows the following functions:

- Receiving and actuating radio commands
- Possibility of performing automatic functions of regulating luminosity by radio messages
- Calculation of the energy consumed by the light fixture, and for this it is enabled in the "Grande ESCo Italia" project
- Tele-diagnostics of the light fixture



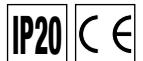
Order code	Description	Packaging
15022	BUILDING AUTOMATION RADIO MODULE	1



DALI/1-10V module

Building automation lighting

The device enables the LED Control gear (SmartDriver) to control the light fixture by the DALI interface or 1-10V analogue interface.



Order code	Description	Packaging
15024	DALI MODULE	1
15034	1-10V MODULE	1



Grande ESCo ITALIA radio module

Building automation lighting

Spread Spectrum radio transceiver operating in the band 2.400-2.483 GHz according to Beghelli FH-DSSS protocol. The device enables the LED Control gear (SmartDriver) of the light fixture in which it is inserted to monitor the energy consumed for the calculation of energy saving. The ESCo radio module is fed by the SmartDriver and allows the following functions:

- Calculation of the energy consumed by the light fixture;
- Tele-diagnostics of the light fixture



Order code	Description	Packaging
15025	GRANDE ESCO ITALIA RADIO MODULE	1



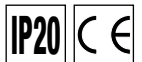
Intelligent Opticom Photosensor

Building automation lighting

Sensor consisting of a SMD phototransistor that can be connected to the SmartDriver electronic Driver, to which it communicates the instantaneous reading of the contribution of natural light to the environmental lighting. This information allows the SmartDriver to calibrate the LED supply power correctly in order to keep the lighting constant and uniform on the work surfaces.

The Autodimmer sensor allows an average consumption saving of 30% for the fixtures on which it is installed.

Each SD device equipped with the new OPTICOM INTELLIGENT PHOTOSENSOR Technology acquires innovative Autodimmer Dynamic Light and Opticom Technology functions, in addition to Autodimmer Natural Light functions.



Order code	Description	Packaging
15039	INTELLIGENT OPTICOM PHOTOSENSOR	1

General terms of sale

1. ORDERS - COMPLETION OF AGREEMENTS

Product purchase orders must be provided in writing. The placing of an order is final. All collaboration schemes, orders, commissions and agreements are considered to be completed when verbal or written confirmation is received from the Seller or once the billing and/or delivery of the ordered products has taken place.

2. CHANGES AND VARIATIONS

Once the order has been completed, any change or addition to the contents and conditions thereof will only be considered valid (and therefore become effective) once the Seller has sent the Buyer confirmation of this change. The text of the confirmation or the confirmation of change received from the Seller will prevail over any other document. Where the Buyer does not wish to accept the updated terms regarding their order, they must declare this within 20 (twenty) days from the date of confirmation. Failure to do so will result in the confirmation of change being deemed to be accepted in full.

3. ACCEPTANCE

The Seller may not be held liable for any non-acceptance of an order, or for failure or delay in the delivery of goods that constitute the order in question. The acceptance and completion of the order are specifically subject to the availability of the products ordered, and to the absence of any circumstance that could have an impact on the availability of these products, and on the prompt delivery thereof.

4. TERMS OF DELIVERY

The delivery terms communicated by the Seller are purely indicative. Delivery dates expressed in days usually refer to working days.

Any changes in the terms of delivery requested by the Buyer must be accepted in writing by the Seller. Delay, disruption and/or total or partial suspension of the delivery, even if not as a result of force majeure and/or unforeseeable circumstances, does not entitle the Buyer to compensation for damages and/or reimbursement of any kind or to repayment of any interest due. In such situations, the Buyer may only cancel the order, having provided the Seller with formal notice of this at least thirty days from the day of receipt of the registered letter sent by the Buyer.

5. FORCE MAJEURE

For indicative and illustrative purposes only, the following are considered to be cases of force majeure:

strikes, lockouts, riots, labour disputes, fire, natural disasters, inability to supply products, interruptions or difficulties in shipping, transport delays, lack of raw materials, government acts, measures introduced by the authorities, any supplier failings or shortcomings and, more generally, any other unpredictable event that is outside of the reasonable control of the Seller (this list is not exhaustive). In all such cases, as well as in the event of other unforeseeable circumstances, the Seller reserves the right to suspend and/or delay the delivery of products and also to cancel orders (including those already confirmed), without this entitling the Buyer to demand compensation for damages and/or reimbursement of any kind from the Seller. This includes direct, indirect and consequential damages.

6. DELIVERY - TRANSPORTATION

Goods always travel at the Buyer's risk, even if sent via prepaid freight and/or in a vehicle owned by the Seller, and accordingly, the Seller will not accept any claims relating to breakages and/or tampering with products.

Products are delivered to the Seller premises in Montevoglio - Valsamoggia (Bologna) or to depositories that belong to third parties, with whom the Seller has entered into agreements relating to this matter ("Ex works" condition - Incoterms 2010).

The transport costs are borne by the Buyer. The Seller does not accept return packages.

7. COMPLAINTS - REPLACEMENT OF GOODS

With regard to replacements and complaints, the safeguards stipulated by the laws and regulations regarding the specific type of customer, consumer or professional operator shall apply. On receipt of the goods, the Buyer must check the condition of these, as well as ensuring that the amount of products supplied corresponds with the delivery note. Any complaints regarding the quality, quantity or type of product must be made in writing within 8 (eight) days from the date of receipt of goods. After that date, and subject to the various warranty conditions laid down for individual products, no claim can be submitted regarding either the substance, quality or general condition of the goods. The Buyer may not return the goods under any circumstances without the prior written consent of the Seller, and similarly, may not delay and/or suspend payment of invoices in full or in part, even in cases where the product in question is the subject of a complaint. Should the complaint be deemed to be founded in the opinion of the Seller, and has been brought within the warranty terms contained in the illustrative booklets that accompany each product, the obligation of the Seller is limited to the simple substitution of the non-compliant product, which shall be

delivered in the same way as the original product supplied. As such, the Buyer does not have the right to cancel the order or to obtain any form of compensation for expenses and/or damages related thereto. The right to replacement of the product that is the subject of a complaint no longer applies in all cases in which the product is not carefully stored, rendered available to the Seller, and immediately returned to the place specified by the latter.

8. APPLICATION OF THE WARRANTY

The warranty only applies to product defects and/or non-conformity where this falls under the terms and conditions indicated in the technical specifications stated and/or agreed, or following the premature breakage of a component of the product.

The period of validity of the above-mentioned warranty is 4 years for products marked 4G (on all parts, including batteries), 3 years for products market 3G (on all parts, except bulbs) and, in general, for the number of years indicated alongside the letter G (e.g. 10 years for products marked 10G).

For products not marked 4G or 3G, the normal legal requirements apply.

The warranty does not apply to products which have been tampered with, or to defects caused by accidental damage of any kind, including during transport and installation, or to damage caused by improper use or by failure to comply with the product specifications. Similarly, the warranty does not apply to defects caused by negligent use and maintenance, by incorrect installation or connection, or by installation of a product by someone other than a qualified professional, or not carried out in accordance with the highest professional standards.

Unless otherwise required by applicable law, the warranty is limited to the replacement/repair of the non-compliant product or parts thereof. The new or repaired product shall be delivered in the same way as the original product supplied.

Warranty operations carried out by the Seller are subject to compliance with the terms of payment by the Buyer.

9. PRICES

The prices indicated in the Seller's price lists are not binding, and as such, the Seller reserves the right to modify these up to the time of delivery of the products.

The prices are net of VAT and any other taxes.

10. PAYMENTS

All payments must be made in accordance with the terms and in the manner indicated by the Seller at the headquarters of the latter located at Montevoglio - Valsamoggia (Bologna), or to the person specified by the Seller, who is in possession of written authorisation from the latter. In case of delayed payment, the Buyer shall pay the Seller default interest, running from the expiry of the contractual period until final payment. This default interest will be charged in accordance with the rates stipulated by Legislative Decree 231/2002, except in the case of reimbursement for major damages suffered. Any failure to meet the terms of payment by the Buyer will entitle the Seller to terminate the supply contract with immediate effect, as well as granting the latter the right to suspend delivery of all products on order, with no obligation to communicate this to the Buyer. Furthermore, the Seller reserves the right to demand immediate payment of the entire outstanding balance, and to take steps to recover any damages.

In case of non-payment and/or the worsening of the financial conditions of the Buyer that could negatively affect the collection of the balance due by the Seller, and/or in the case of long delays in payment and/or high total outstanding debts (which may relate to amounts owed for previous purchases) by the Buyer, the Seller reserves the right to apply the provisions of Article 1460 and 1461 of the Italian Civil Code, to take appropriate precautionary measures, and to resort to all other permitted forms of self-preservation; It is further agreed that in such cases, the Seller may suspend any and all future deliveries of products to the Buyer.

11. LIEN AGREEMENT

A lien agreement applies to all products sold; as such, products shall remain the property of the Seller until payment for these is made in full.

Accordingly, the Buyer agrees to inform third parties of the existence and validity of this lien agreement, and to safeguard the rights of the Seller arising therefrom.

12. PROTECTION AND SAFEGUARDING - DISPUTES AND COURT OF JURISDICTION

The invalidity or unenforceability of any provision contained within these General Terms and Conditions shall not prejudice or detract from the validity and enforceability of the other provisions; both the Seller and the Buyer hereby undertake to replace any clause declared ineffective and/or null and void or impracticable with another provision with similar effect.

Any controversy or dispute relating to the interpretation, validity and completion of an order, or to the agreements covered by these Terms and conditions, will be governed by Italian law. The sole court of jurisdiction is the Court of Bologna.

Product safety and European Standards

PRODUCTS SAFETY AND EUROPEAN STANDARDS

Beghelli products are constructed in accordance with the highest safety and quality standards, and no compromise is made with regard to foreseeable overload conditions or to the safety of persons, domestic animals or property, provided that all devices are installed and used for the purpose for which they are intended, under the environmental conditions provided, and are fitted correctly and maintained properly by qualified personnel.

Where applicable, products are manufactured in compliance with the requirements of Community directives 2014/35/EU, 2014/30/EU, 2014/53/EU, 2014/30/EU, 2009/125/EC and 2001/65/EC.

The CE marking affixed to the product and/or packaging and/or any instructions for use which accompany the product certify compliance with the above Directives. Beghelli keeps its own Technical Archive containing the documentation which demonstrates that the product in question has been examined to assess compliance with these Directives. The documentation in the Technical Archive is available for inspection by the competent authorities.

Products that do not fall within the scope of the EC Directives referred to above nonetheless comply with the quality standards set out in the various regulations currently in force, as well as those contained in Directive 2001/95/EC ("the General Product Safety Directive"), implemented by Legislative Decree no. 172/2004.

The information contained in the Beghelli catalogues may be subject to change without notice. All instructions, measurements, drawings and photographs of products and components are provided for information purposes only, and are subject to change without prior notice. This information should not be considered to be pre-contractual information. All products that are to be connected to mains power must be fitted in accordance with the electrical installation rules in force in the country of destination, and with the information contained in the product catalogues and/or the instructions included with the product itself.

The product catalogues are available on the Beghelli website at www.beghelli.it the following link, or can be requested from :
Beghelli S.p.A. Sales Management - Via Mozzeghine, 13/15 Loc. Monteveglio - 40053 Valsamoggia, Bologna

Environmental protection

WEEE 2012/19/EU DIRECTIVE

The amount of waste directly connected to electrical and electronic equipment (WEEE) is rapidly increasing, with much of this attributable to light sources.

The directive is primarily designed to prevent WEEE from being thrown into landfill or incinerators at end of life, causing a further serious impact on the environment.

Accordingly, Directive 2012/19/EU was introduced in order to implement a monitoring mechanism which includes the controlled management of devices at end of life, promoting the reuse or recycling of these. Furthermore, the legislative mechanism promotes design and production concepts which facilitate the disposal of products, both with regard to disassembly and materials.

Industry players from every stage of the marketing chain are called upon to make a contribution - some of these contributions are financial, whereas others involve actions designed to respect and support the spirit of the Directive (as well as to protect the environment).

In Italy, the Directive has been implemented through Legislative Decree No. 49 of 14 March 2014.

THE MAIN OBLIGATIONS ARE AS FOLLOWS

The manufacturer (to be understood in the broadest sense, essentially entailing companies affixing their brand to a given good or goods, and all those importing from third countries) is responsible for the costs relating to the end-of-life disposal of their products.

The consumer is asked to ensure that he/she takes an intelligent approach to managing the product in question at the end of its life, delivering it to a suitably equipped facility or point of sale, or following any other instructions provided by the manufacturer.

Beghelli has always been extremely sensitive to environmental issues, and is a founding member of the ECOLIGHT consortium.

Choosing products from companies that participate in voluntary waste recovery and recycling initiatives is a responsible and environmentally-sound choice, and helps to protect the environment and our future.

The products that fall within the scope of the WEEE Directive are identified by the crossed-through bin symbol, as mentioned alongside here.



DIRETTIVA ROHS 2011/65/UE

In order to facilitate the recovery and recycling of electrical equipment and to prevent dangerous substances from accumulating in the environment, the European Community has published the ROHS (Restriction of Hazardous Substances) Directive. Essentially, this states that:

Without prejudice to Annex 3, it is prohibited to place electrical and electronic equipment falling under the categories identified in Annex 1 on the market, namely those containing lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) or polybrominated diphenyl ether (PBDE) in amounts higher than those provided for in Annex 2.

In Italy, the Directive has been implemented through Legislative Decree No. 27 of 4 March 2014.

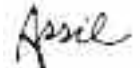
ECOLIGHT



Dealer
IMQ mark



Associated:



Partner DIALux

