

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 (8 mm). In the Eco Driver version, the power supply unit is embedded in the lamp profile. Slimmer than a LED panel, but offering a far higher EFFICIENCY level (>125 lm/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.



GENERAL CHARACTERISTICS

Equivalent Power* 4x 18 W

Power supply SD Version: Universal Multi Voltage
93–265 V_{AC} 50/60 Hz
176–250 V_{DC}
ED Version: 230 V_{AC} ±10 % 50 Hz

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

Protection grade IP40 (visible side), IP20 (recessed side)

Working temp. -20 °C ÷ +40 °C

Mounting recessed M600, ceiling, suspension

Body galvanised Sheet steel painted with
polyester powders RAL 9003

Optic transparent plexiglass

UGR <19

Luminance 65° < 3 000 cd/mq

Driver SD Version:
Electronic SD (cos φ ≥ 0.96)
with intelligent dimming
ED Version:
Electronic ED (cos φ ≥ 0.95)

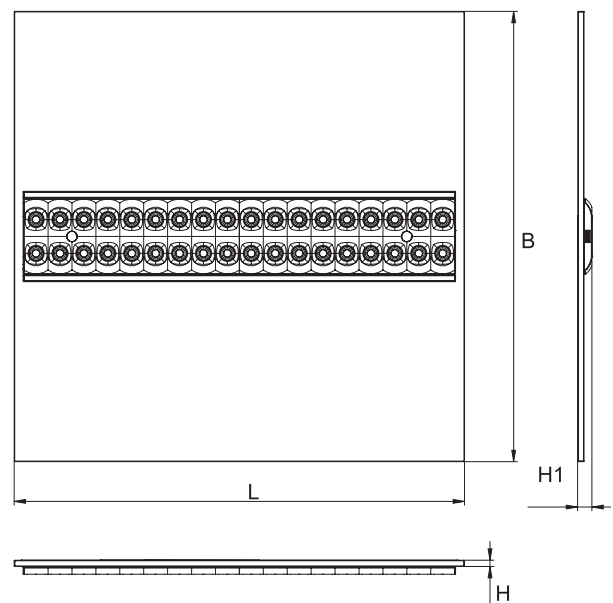
MTFB Control gear** 80 000 h

**Luminous flux
maintenance**** >60 000 (L80B20)

Colour deviation 3 SDCM

* Equivalent power for comparison with fluorescent tube fixtures

** At environmental reference temperature of 25 °C



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

Accessories **SD**

supplied

Order code Description

15039 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 BUILDING AUTOMATION CENTRAL UNIT

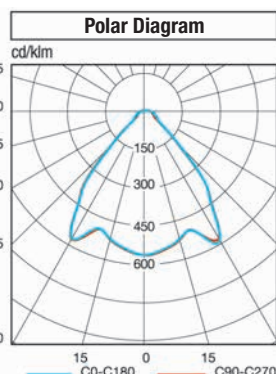
20124 BUILDING AUTOMATION CENTRAL UNIT WIFI

20104 2 INPUT INTERFACE – RADIO TRANSMITTER

15022 BUILDING AUTOMATION RADIO MODULE

15024 DALI MODULE

15034 1-10V 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 %

DOMOTIC RADIO MODULE

1÷10V MODULE

DALI MODULE

PLUG&LIGHT MODULE

OPTIONAL MODULES TO EXTEND BEGHELLI SD TO RADIO CONTROL OR DALI / 1-10V SYSTEMS AND EMERGENCY



INTELLIGENT PHOTOSENSOR

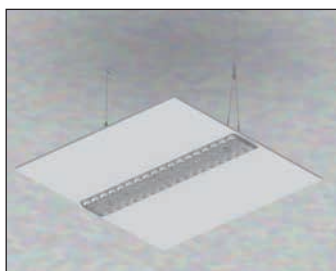
1. Autodimmer Natural Light

2. Autodimmer Dynamic Light

3. **opticom** TECHNOLOGY

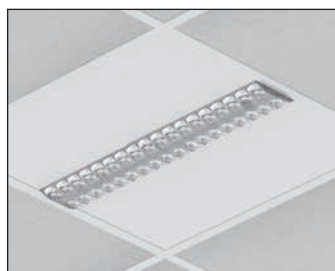
Smartphone Interface to control and set up system

SUSPENDED MOUNTING



70033 Suspension Kit

RECESSED MOUNTING



CEILING MOUNTING



20097 Ceiling Frame LED Panel 600x600 SD model only

MULTI-LENTICULAR OPTIC



SPECIAL VARIANTS: COLOUR RENDERING ≥90, COLOUR TEMPERATURE
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

TR AT LG LGFM

INVERTER	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	lm/W	Energy Class	Packaging
19358	INVERTER PLUG&LIGHT LED SE/SA 1H 20-60 V	to be ordered separately										
19359	INVERTER PLUG&LIGHT LED SE/SA 3H 20-60 V	to be ordered separately										
19364	INV LED IP65 AT/LG 123H (addressable)	to be ordered separately										
19365	INV LED IP65 LGFM 123H (addressable)	to be ordered separately										

Lens Panel Human Centric Lighting (HCL) – 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	lm/W	Energy Class	Packaging
4× 18	LP418HCL	LP HCL 418 M600 UGR19 SD	32	2 700/6 000	>80	35	36	4 700	4 400	125	A++	1/3

Lens Panel – UGR <19

SmartDriver **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	lm/W	Energy Class	Packaging
4× 18	LP418SD	LENS PAN 418 M600 UGR19 SD 4K	32	4 000	>80	35	36	4 700	4 400	125	A++	1/3

Lens Panel – UGR <19

Eco Driver **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	lm/W	Energy Class	Packaging
4× 18	LP418ED	LENS PAN 418 M600 UGR19 ED4K	23	4 000	>80	25	36	3 700	3 400	136	A++	1/3