

# 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 inserted 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\*** 2x 36, 2x 58 W

**Power supply** **SD Version:** Universal Multi Voltage  
93–265 V<sub>AC</sub> 50/60 Hz  
176–250 V<sub>DC</sub>  
**ED Version:** 230 V<sub>AC</sub> ±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** ceiling, suspended mounting

**Body** galvanised Sheet steel painted with  
polyester powders RAL 9003

**Lenses** transparent PMMA

**UGR** <19

**Luminance** 65° < 3 000 cd/mq

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

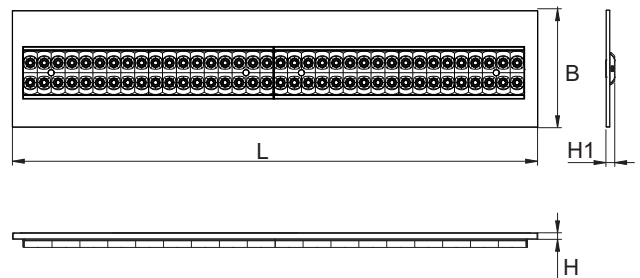
**MTFB Control gear\*\*** 80 000 h

**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	
1 200x300	1 196	296	8	19	4.9

## Accessories **SD**

supplied

Order code Description

**15039** 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** BUILDING AUTOMATION CENTRAL UNIT

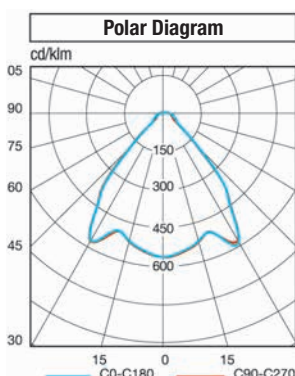
**20124** BUILDING AUTOMATION CENTRAL UNIT WIFI

**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**

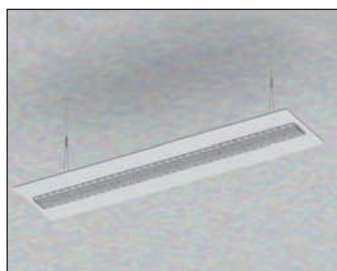
**1. Autodimmer Natural Light**

**2. Autodimmer Dynamic Light**

**3. opticom TECHNOLOGY Smartphone Interface to control and set up system**

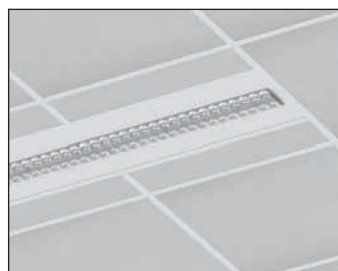


**SUSPENDED MOUNTING**

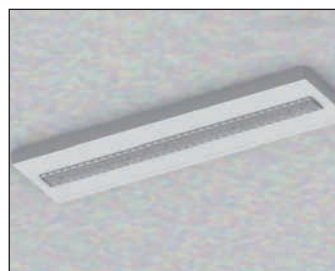


70033 SUSPENSION KIT

**RECESSED MOUNTING**



**CEILING MOUNTING**



20100 CEILING ADAPTER 300x1200

**MULTI-LENTICULAR SCREEN**



**SPECIAL VARIANTS: 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**

TR AT LG LGFM

<b>INVERTER</b>	<b>19358</b>	INVERTER PLUG&LIGHT LED SE/SA 1H 20-60 V	to be ordered separately
	<b>19359</b>	INVERTER PLUG&LIGHT LED SE/SA 3H 20-60 V	to be ordered separately
	<b>19364</b>	INV LED IP65 AT/LG 123H (addressable)	to be ordered separately
	<b>19365</b>	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
2× 36	<b>LP236HCL</b>	LP HCL 236 300x1200 UGR19 SD	38	2 700/6 000	>80	41	72	6 100	5 300	130	A++	1/3
2× 58	<b>LP258HCL</b>	LP HCL 258 300x1200 UGR19 SD	50	2 700/6 000	>80	56	72	7 500	7 000	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
2× 36	<b>LP236SD</b>	LENS PAN 236 300x1200 UGR19 SD4K	38	4 000	>80	41	72	6 100	5 300	130	A++	1/3
2× 58	<b>LP258SD</b>	LENS PAN 258 300x1200 UGR19 SD4K	50	4 000	>80	56	72	7 500	7 000	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
2× 36	<b>LP236ED</b>	LENS PAN 236 300x1200 UGR19 ED4K	29	4 000	>80	32	72	5 400	4 500	140	A++	1/3
2× 58	<b>LP258ED</b>	LENS PAN 258 300x1200 UGR19 ED4K	46	4 000	>80	50	72	7 100	6 500	130	A++	1/3