Lens Panel LED

Ceiling, Suspension, M600

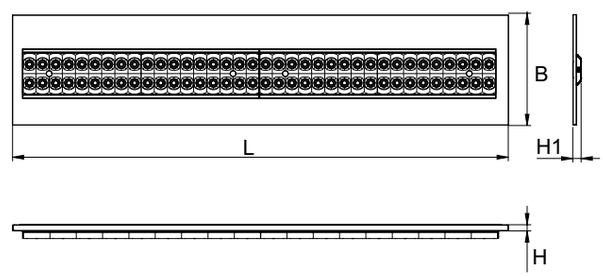
This product is designed for flush-mounting installation in M600 modules, but its true elegance emerges in ceiling-mounting and suspended installations without an adapter frame. The profile is one of the slimmest on the market (8mm). In the Eco Driver version, the power supply unit is inserted in the lamp profile. Slimmer than a LED panel, but offering a far higher EFFICIENCY level (>125lm/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*	2x36, 2x58 W
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 (visible side), IP20 (recessed side)
Working temp.	-20 ÷ +40°C
Mounting	ceiling, suspended mounting
Body	galvanised Sheet steel painted with polyester powders RAL 9003
Lenses	transparent PMMA
UGR	<19
Luminance	65° <3000 cd/mq
Driver	**SD version**: Electronic SD (Cos φ≥ 0,96) Electronic intelligent dimming system **ED version**: Electronic ED (Cos φ≥ 0,95)
MTBF Control gear**	80.000h
Luminous flux maintenance**	> 60.000h (L80B20)
Colour deviation	3 SDCM

* Equivalent power for comparison with fluorescent tube fixtures

** At a reference working temperature of 25°C



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

Accessories SD

supplied

Order code	Description
15039	OPTICOM PHOTOSENSOR

Accessories

to be ordered separately

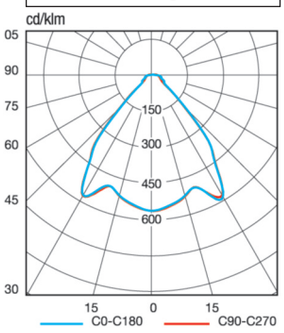
Order code	Description
70033	SUSPENSION KIT
20100	CEILING FRAME LED PANEL 300X1200 (only for SD versions or when paired with the Plug&Light inverter)

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

Polar Diagram



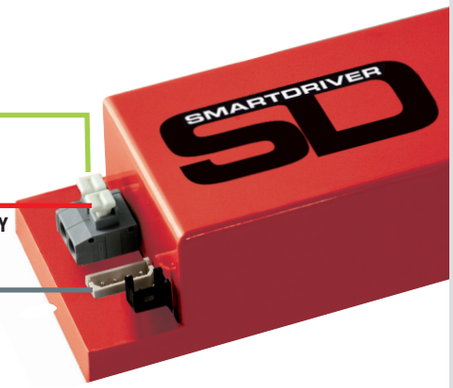
Efficiency and dimming

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%**

DOMOTIC RADIO MODULE | 1÷10V MODULE | DALI MODULE | PLUG&LIGHT MODULE

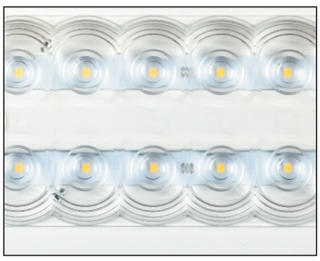
OPTIONAL MODULES TO EXTEND BEGHELLI SD TOWIFI CONTROL OR DALI / 1-10V SYSTEMS AND EMERGENCY



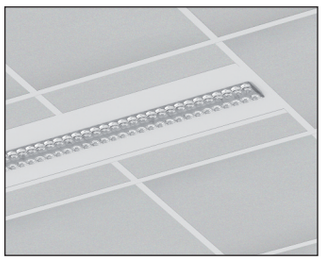
INTELLIGENT PHOTOSENSOR

1. Autodimmer Natural Light
2. Autodimmer Dynamic Light
3. opticom TECHNOLOGY Smartphone Interface to control and set up system

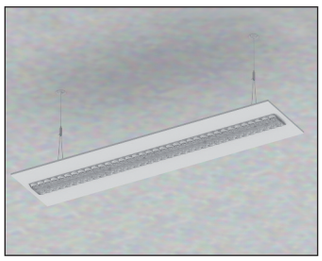
MULTI-LENTICULAR SCREEN



RECESSED MOUNTING

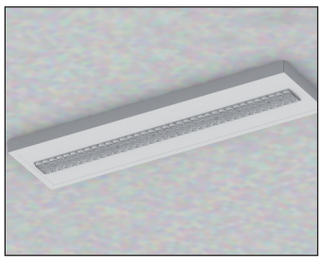


SUSPENDED MOUNTING



70033 SUSPENSION KIT

CEILING MOUNTING



20100 CEILING ADAPTER 300x1200

SPECIAL VARIANTS: 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 20-60V	to be ordered separately
19364	INV LED IP65 AT/LG 123H (addressable)	to be ordered separately
19365	INV LED IP65 AT/LG 123H (addressable)	to be ordered separately
RA02* **	AUTORIPARA INVERTER BATTERY 7.2V 1.7Ah	to be ordered separately

***Contact the Beghelli sales network for availability

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

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

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

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