

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

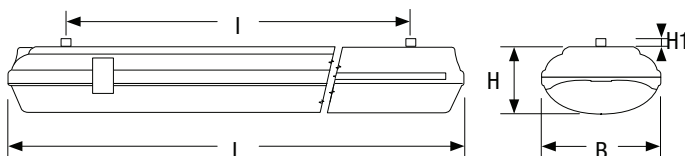
Ceiling light

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 SD LED:

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

Accessories

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

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



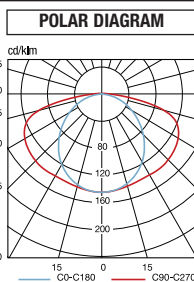
INTELLIGENT PHOTSENSOR (SUPPLIED WITH SD VERSIONS)

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

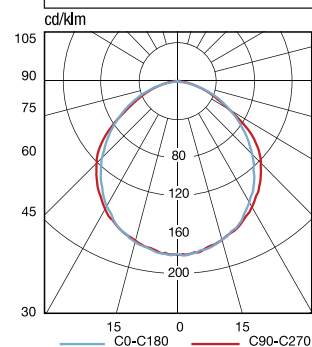
SPECIAL PARKING VERSION



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 20-60	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

**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.