



Luma

BGP623 80xLED200--4S/740 PSU II DX10 AL

LUMA 1 - 80 pcs - LED module 20000 lm - 4th generation, screw fixation - 740 neutral white - Power supply unit - Safety class II - Distribution extra wide 10 - Acrylate micro-lens optic - Gray - Constant light output - Philips standard surge protection level - - - Spigot for diameter 76 mm

Luma is a high-performance road-lighting luminaire with a clear design identity, offering a perfectly cooled, fit-and-forget solution for all streets and roads. The lumen package, lifetime and energy profile can be tuned to create the desired solution in terms of energy and cost savings. Luma can be programmed to keep the flux of the LEDs at a predefined constant level over the lifetime of the luminaire – by increasing the operating current over time to compensate for the LED lumen depreciation. Luma uses the high-performance LEDGINE-O engine with latest LED performance and a wide range of optics to latest standards. Moreover Luma's trully flat design prevents upward light to optimize the light distribution for varying road geometries and/or glare restrictions, the tilt angle can easily be adjusted on installation. Luma is also equipped with a dedicate light recipes that preserves a dark night sky.

Product data

General Information			
Number of light sources	80 pcs	Driver included	Yes
Lamp family code	LED200 [LED module 20000 lm]	Optical cover/lens type	Acrylate micro-lens optic
Lamp version	4S [4th generation, screw fixation]	Luminaire light beam spread	20° - 4° x 150°
Light source color	740 neutral white	Embedded control	Constant light output
Light source replaceable	Yes	Control interface	Analog
Number of gear units	1 unit	Connection	Connection unit 3-pole
Driver/power unit/transformer	Power supply unit	Cable	-
		Protection class IEC	Safety class II

Flammability mark	-
CE mark	CE mark
ENEC mark	ENEC mark
Warranty period	5 years
Optic type outdoor	Distribution extra wide 10
Remarks	*-Per Lighting Europe guidance paper "Evaluating performance of LED based luminaires - January 2018": statistically there is no relevant difference in lumen maintenance between B50 and for example B10. Therefore the median useful life (B50) value also represents the B10 value. * At extreme ambient temperatures the luminaire might automatically dim down to protect components
Luminaire fixation bolts	Length 16 mm
Constant light output	Yes
Number of products on MCB of 16 A type B	8
RoHS mark	RoHS mark
Light source engine type	LED
Serviceability class	Class A, luminaire is equipped with serviceable parts (when applicable): LED board, driver, control units, surge protection device, optics, front cover and mechanical parts
Product family code	BGP623 [LUMA 1]

Light Technical

Upward light output ratio	0
Standard tilt angle posttop	5°
Standard tilt angle side entry	-

Operating and Electrical

Input Voltage	220 to 240 V
Input Frequency	50 to 60 Hz
Initial CLO power consumption	118 W
Average CLO power consumption	122 W
End CLO power consumption	126 W
Inrush current	53 A
Inrush time	0.3 ms
Power Factor (Min)	0.99

Controls and Dimming

Dimmable	No
----------	----

Mechanical and Housing

Housing Material	Aluminum
Reflector material	-
Optic material	Polycarbonate
Optical cover/lens material	Polycarbonate
Fixation material	Aluminum

Mounting device	Spigot for diameter 76 mm
Optical cover/lens shape	Flat
Optical cover/lens finish	Clear
Fixation angle	Mounting device angle 5°
Overall length	649 mm
Overall width	435 mm
Overall height	235 mm
Overall diameter	76 mm
Effective projected area	0.057 m²
Color	Gray

Approval and Application

Ingress protection code	IP66 [Dust penetration-protected, jet-proof]
Mech. impact protection code	IK09 [10 J]
Surge Protection (Common/Differential)	Philips standard surge protection level

Initial Performance (IEC Compliant)

Initial luminous flux (system flux)	17000 lm
Luminous flux tolerance	+/-7%
Initial LED luminaire efficacy	142 lm/W
Init. Corr. Color Temperature	4000 K
Init. Color Rendering Index	≥70
Initial chromaticity	(0.382, 0.379) SDCM <5
Initial input power	120 W
Power consumption tolerance	+/-11%

Over Time Performance (IEC Compliant)

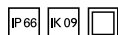
Control gear failure rate at median useful life 100000 h	10 %
Lumen maintenance at median useful life* 100000 h	L100

Application Conditions

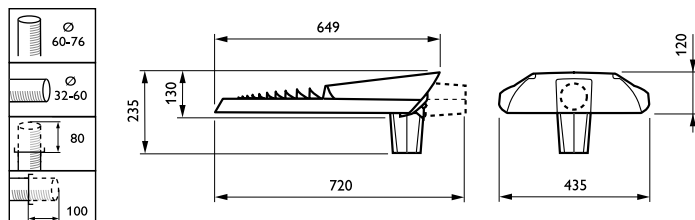
Ambient temperature range	-40 to +50 °C
Performance ambient temperature Tq	25 °C
Maximum dim level	Not applicable

Product Data

Full product code	871869945988800
Order product name	BGP623 80xLED200--4S/740 PSU II DX10 AL
EAN/UPC - Product	8718699459888
Order code	912300024008
Numerator - Quantity Per Pack	1
Numerator - Packs per outer box	1
Material Nr. (12NC)	912300024008
Net Weight (Piece)	10.925 kg

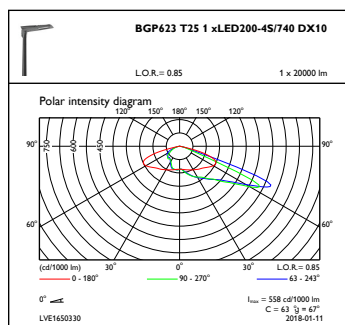
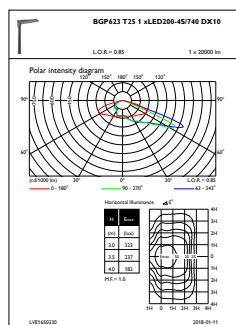


Dimensional drawing



Luma BGP621-627

Photometric data



OFPL1_BGP623T251xLED200-4S740DX10

OFPC1_BGP623T251xLED200-4S740DX10

