# **PHILIPS** Lighting



## Luma

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

LUMA 1, 80, LED module 20000 lm, 740 neutral white, Power supply unit (On/Off), Safety class II, Distribution extra wide 10, Acrylate micro-lens optic, Grey, Constant light output, Philips standard surge protection level, Spigot for diameter 76 mm

Luma is a REVOLED<sup>™</sup> 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. This eliminates over-lighting at the beginning, enabling additional extra energy savings. Luma's truly flat design prevents upward light, and the OPTIFLUX™ lens optics meet current lighting standards. To optimize the light distribution for varying road geometries and/or glare restrictions, the tilt angle can easily be adjusted on installation.

#### Product data

General Information		
Lamp family code	LED200 [LED module 20000 lm]	
Light source replaceable	Yes	
Number of gear units	1 unit	
Driver included	Yes	
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
Light source engine type	LED
Product family code	BGP623 [LUMA 1]
Lighting Technology	LED
Embedded control	Constant light output
CE mark	Yes

#### Luma

Warranty period	5 years
Flammability mark	-
ENEC mark	ENEC mark
EU RoHS compliant	Yes
Light Technical	
Upward light output ratio	0
Luminous Flux	17,000 lm
Standard tilt angle posttop	5°
Standard tilt angle side entry	-
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	142 lm/W
Color rendering index (CRI)	≥70
Number of light sources	80
Light source color	740 neutral white
Optical cover type	Acrylate micro-lens optic
Luminaire light beam spread	20° - 4° x 150°
Optic type outdoor	Distribution extra wide 10
Operating and Electrical	
Input Voltage	220 to 240 V
Line 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 Consumption	120 W
Power Factor (Fraction)	0.99
Connection	Connection unit 3-pole
Cable	-
Number of products on MCB of 16 A type	8

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Iom	perat	OIL

Ambient temperature range

Controls and Dimming	
Dimmable	No
Driver/power unit/transformer	Power supply unit (On/Off)
Control interface	Analog
Constant light output	Yes
Mechanical and Housing	
Housing Material	Aluminum
Reflector material	-
Optic material	Polycarbonate
Optical cover material	Polycarbonate

-40 to +50 °C

Fixation material	Aluminum
Housing Color	Grey
Mounting device	Spigot for diameter 76 mm
Optical cover shape	Flat
Optical cover finish	Clear
Overall length	649 mm
Overall width	435 mm
Overall height	235 mm
Overall diameter	76 mm
Effective projected area	0.057 m²
Dimensions (Height x Width x Depth)	235 x 435 x 649 mm

#### Approval and Application

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

Initial Performance (IEC Compliant)	
Luminous flux tolerance	+/-7%
Initial chromaticity	(0.382, 0.379) SDCM <5
Power consumption tolerance	+/-10%
Init. Color Rendering Index Tolerance	+/-2

Control gear failure rate at median useful $~10~\%$	
life 100000 h	
Lumen maintenance at median useful	L100

life\* 100000 h

#### **Application Conditions**

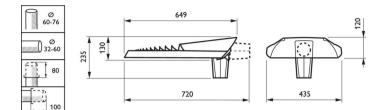
Performance ambient temperature Tq	25 °C
Maximum dim level	Not applicable

#### Product Data

Order product name	BGP623 80xLED200-4S/740 PSU II DX10 AL
	G
Full product name	BGP623 80xLED200-4S/740 PSU II DX10 AL
	G
Full product code	871869945988800
Order code	45988800
Material Nr. (12NC)	912300024008
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8718699459888
Numerator - Packs per outer box	1
EAN/UPC - Case	8718699459888

#### Luma

#### Dimensional drawing





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