PHILIPS

Lighting



Stela+ gen2 Long, Square & Wide

BPP616 2250/NW PSU SRN CLO 76P L16

STELA-LONG GEN2, Power supply unit (On/Off), Standard road optic for S-class, Constant light output, Post-top for diameter 76 mm

In 2008 the arrival of the Stela family heralded a revolution in street lighting. In Stela + gen2 we are now presenting the next generation of LEDs and introducing programmable drivers. The REVOLED cooling and light distribution concept enables tremendous energy savings and a corresponding reduction in CO2 emissions, whilst meeting current lighting standards. Excellent thermal management of the LEDs ensures a very long lifetime, eliminating the need for lamp replacement. Higher flux per LED, flux tuning (using L-Tune) and the option of employing Constant Light Output (CLO) make it possible either to reduce the number of LEDs needed (lower cost per light point) or, when using the same number of LEDs as before, to reduce the power consumption (lower Total Cost of Ownership).

Product data

General Information	
Lamp family code	XP-G [LED XP-G]
Light source replaceable	No
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.
Light source engine type	LED
Product family code	BPP616 [STELA-LONG GEN2]
Lighting Technology	LED
Value ladder	Performance
Embedded control	Constant light output
CE mark	Yes
Warranty period	5 years
Flammability mark	-

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ENEC mark	-
EU RoHS compliant	Yes

Light Technical

Upward light output ratio	0.5
Luminous Flux	2,025 lm
Standard tilt angle posttop	10°
Standard tilt angle side entry	-
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	119 lm/W
Color rendering index (CRI)	≥70
Number of light sources	18
Light source color	Neutral white
Optical cover type	Polymethyl methacrylate bowl/cover
Luminaire light beam spread	105° x 153°
Optic type outdoor	Standard road optic for S-class

Operating and Electrical

Input Voltage	220 to 240 V
Line Frequency	50 to 60 Hz
Initial CLO power consumption	17 W
Average CLO power consumption	17 W
End CLO power consumption	17 W
Inrush current	65 A
Inrush time	100 ms
Power Consumption	17 W
Power Factor (Fraction)	0.9
Connection	Screw connection with pug and socket
Cable	-
Number of products on MCB of 16 A type B	1

Temperature

Ambient temperature range	-40 to +50 °C

Controls and Dimming

Dimmable	No
Driver/power unit/transformer	Power supply unit (On/Off)
Constant light output	Yes

Mechanical and Housing

Housing Material	Aluminum
Reflector material	-
Optic material	Glass
Optical cover material	Polymethyl methacrylate
Fixation material	Aluminum
Housing Color	Grey
Mounting device	Post-top for diameter 76 mm
Optical cover shape	Curved
Optical cover finish	Clear
Overall length	590 mm
Overall width	265 mm
Overall height	220 mm
Effective projected area	0.05 m²
Dimensions (Height x Width x Depth)	220 x 265 x 590 mm

Approval and Application

Ingress protection code	IP66 [Dust penetration-protected, jet-proof]
Mech. impact protection code	IK10 [20 J vandal-resistant]
Surge Protection (Common/Differential)	Luminaire surge protection level until 6 kV differential mode and 6 kV common mode
Protection class IEC	Safety class I
Photobiological risk	Photobiological risk group 1 @200mm to EN62778

Initial Performance (IEC Compliant)

Luminous flux tolerance	+/-5%
Initial chromaticity	(0.330, 0.340) SDCM <7
Power consumption tolerance	+/-5%
Init. Color Rendering Index Tolerance	+/-2

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

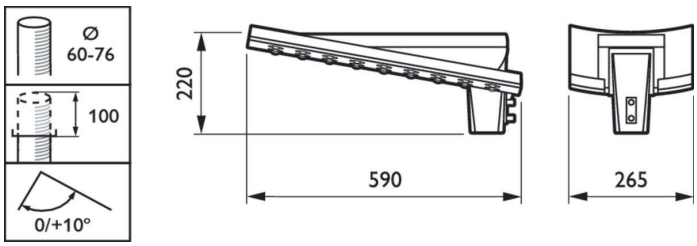
Performance ambient temperature Tq	25 °C

Product Data

Order product name	BPP616 2250/NW PSU SRN CLO 76P L16
Full product name	BPP616 2250/NW PSU SRN CLO 76P L16
Full product code	871794322820100
Order code	912300025937
Material Nr. (12NC)	912300025937
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8717943228201
Numerator - Packs per outer box	1
EAN/UPC - Case	8717943228201

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Dimensional drawing



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