

Stela+ gen2 Long, Square & Wide

BPP614 18x /NW PSU II NRN GR SRG10 60/76

STELA-SQUARE GEN2, Power supply unit (On/Off), Narrow road optic for S-class, Spigot for diameter 60 to 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-G2 [LED XP-G2]
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. * At extreme ambient temperatures the luminaire might automatically dim down to protect components
Light source engine type	LED
Product family code	BPP614 [STELA-SQUARE GEN2]
Lighting Technology	LED
Value ladder	Performance
Embedded control	-
CE mark	Yes
Warranty period	5 years

Stela+ gen2 Long, Square & Wide

Flammability mark	-
ENEC mark	-
EU RoHS compliant	Yes

Light Technical

Upward light output ratio	0.5
Luminous Flux	2,250 lm
Standard tilt angle posttop	0°
Standard tilt angle side entry	-
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	102 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	72° x 180°
Optic type outdoor	Narrow road optic for S-class

Operating and Electrical

Input Voltage	220 to 240 V
Line Frequency	50 to 60 Hz
Inrush current	65 A
Inrush time	100 ms
Power Consumption	22 W
Power Factor (Fraction)	0.92
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	No

Mechanical and Housing

Housing Material	Aluminum
Reflector material	-
Optic material	Glass
Optical cover material	Polymethyl methacrylate
Fixation material	Aluminum
Housing Color	Grey
Mounting device	Spigot for diameter 60 to 76 mm
Optical cover shape	Curved
Optical cover finish	Clear
Overall length	445 mm
Overall width	400 mm
Overall height	115 mm
Effective projected area	0.04 m²
Dimensions (Height x Width x Depth)	115 x 400 x 445 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 10 kV differential mode and 10 kV common mode
Protection class IEC	Safety class II
Photobiological risk	Photobiological risk group 1 @200mm to EN62778

Initial Performance (IEC Compliant)

Luminous flux tolerance	+/-5%
Initial chromaticity	(0.380, 0.380) 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	L80

Application Conditions

Performance ambient temperature Tq	25 °C

Product Data

Order product name	BPP614 18x /NW PSU II NRN GR SRG10 60/76
Full product name	BPP614 18x /NW PSU II NRN GR SRG10 60/76
Full product code	871794323708100
Order code	912300026482
Material Nr. (12NC)	912300026482
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8717943237081
Numerator - Packs per outer box	1
EAN/UPC - Case	8717943237081

Stela+ gen2 Long, Square & Wide

Dimensional drawing

© 2023 Signify Holding All rights reserved. Signify does not give any representation or warranty as to the accuracy or completeness of the information included herein and shall not be liable for any action in reliance thereon. The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract, unless otherwise agreed by Signify. Philips and the Philips Shield Emblem are registered trademarks of Koninklijke Philips N.V.