# **PHILIPS** Lighting



# Stela+ gen2 Long, **Square & Wide**

# BPP614 GRN27/NW PSD SRN GR D9 SRG10 60/7

STELA-SQUARE GEN2, LED GreenLine 2700 lm, Power supply unit with DALI interface, Standard 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	GRN27 [LED GreenLine 2700 lm]
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	_

## Stela+ gen2 Long, Square & Wide

CE mark	Yes
Warranty period	5 years
Flammability mark	-
ENEC mark	-
EU RoHS compliant	Yes
Light Technical	
Upward light output ratio	0.5
Luminous Flux	2,430 lm
Standard tilt angle posttop	0°
Standard tilt angle side entry	-
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	101 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	96° x 151°
Optic type outdoor	Standard road optic for S-class

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 I
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 10 %	
life 100000 h	
Lumen maintenance at median useful life* 180	

100000 h

#### **Application Conditions**

Performance ambient temperature Tq	25 °C
Maximum dim level	25%

#### **Product Data**

Order product name	BPP614 GRN27/NW PSD SRN GR D9 SRG10
	60/7
Full product name	BPP614 GRN27/NW PSD SRN GR D9 SRG10
	60/7
Full product code	871794325372200
Order code	912300026519
Material Nr. (12NC)	912300026519
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8717943253722
Numerator - Packs per outer box	1
EAN/UPC - Case	8717943253722

#### Line Frequency

Input Voltage

**Operating and Electrical** 

Line Frequency	50 to 60 Hz
Inrush current	65 A
Inrush time	100 ms
Power Consumption	24 W
Power Factor (Fraction)	0.93
Connection	Screw connection with pug and socket
Cable	-
Number of products on MCB of 16 A type	1

220 to 240 V

-40 to +50 °C

в

### Temperature

Ambient temperature range

#### **Controls and Dimming**

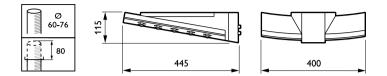
Dimmable	Yes
Driver/power unit/transformer	Power supply unit with DALI interface
Control interface	DALI
Constant light output	No

#### Mechanical and Housing

Housing Material	Aluminum
Reflector material	-
Optic material	Glass
Optical cover material	Polymethyl methacrylate
Fixation material	Aluminum
Housing Color	Grey

# Stela+ gen2 Long, Square & Wide

#### Dimensional drawing





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