



# Stela+ gen2 Long, Square & Wide

**BPP614 14x /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   |

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|                   |     |
|-------------------|-----|
| Flammability mark | -   |
| ENEC mark         | -   |
| EU RoHS compliant | Yes |

### Light Technical

|                                    |                                    |
|------------------------------------|------------------------------------|
| Upward light output ratio          | 0.5                                |
| Luminous Flux                      | 1,755 lm                           |
| Standard tilt angle posttop        | 0°                                 |
| Standard tilt angle side entry     | -                                  |
| Correlated Color Temperature (Nom) | 4000 K                             |
| Luminous Efficacy (rated) (Nom)    | 103 lm/W                           |
| Color rendering index (CRI)        | ≥70                                |
| Number of light sources            | 14                                 |
| 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                        | 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         | 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 14x /NW PSU II NRN GR SRG10 60/76 |
| Full product name               | BPP614 14x /NW PSU II NRN GR SRG10 60/76 |
| Full product code               | 871794323725800                          |
| Order code                      | 912300026478                             |
| Material Nr. (12NC)             | 912300026478                             |
| Numerator - Quantity Per Pack   | 1  |
| EAN/UPC - Product/Case          | 8717943237258                            |
| Numerator - Packs per outer box | 1  |
| EAN/UPC - Case                  | 8717943237258                            |

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Dimensional drawing

