



# SpeedStar

## BGP323 GRN185--3S/740 I DM FG AL SI P3-7

SpeedStar Large, LED GreenLine 18500 lm, Distribution medium, Flat glass

Municipalities are under pressure to meet energy conservation goals by reducing their energy consumption and carbon footprint while complying with lighting norms and standards. Our SpeedStar LED luminaire addresses these fundamental issues and provides a solution to reduce the impact on our environment. SpeedStar is an energy-efficient luminaire requiring minimal maintenance and incorporating the easy-to-upgrade LEDGINE, which can be connected to lighting regulation systems for further energy savings. This carbon-neutral luminaire is the ideal solution for functional road and street lighting.

### Product data

| General Information      |   |                                    |                                  |
|--------------------------|---|------------------------------------|----------------------------------|
| Lamp family code         | GRN185 [LED GreenLine 18500 lm]   | Embedded control                   | -                                |
| Light source replaceable | Yes   | CE mark                            | Yes                              |
| Number of gear units     | 1 unit  | Warranty period                    | 5 years                          |
| Driver included          | Yes   | Flammability mark                  | -                                |
| Photocell                | Minicell (hole 20 mm) preset for 70 lx  | ENEC mark                          | ENEC mark                        |
| Remarks                  | *-Per Lighting Europe guidance paper<br>"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. | Glow-wire test                     | Temperature 650 °C, duration 5 s |
| Light source engine type | LED   | EU RoHS compliant                  | Yes                              |
| Product family code      | BGP323 [SpeedStar Large]  | Light Technical                    |                                  |
| Lighting Technology      | LED   | Upward light output ratio          | 0.03                             |
|                          |   | Luminous Flux                      | 19,400 lm                        |
|                          |   | Standard tilt angle posttop        | 5°                               |
|                          |   | Standard tilt angle side entry     | 0°                               |
|                          |   | Correlated Color Temperature (Nom) | 4000 K                           |
|                          |   | Luminous Efficacy (rated) (Nom)    | 139 lm/W                         |

|                             |                     |
|-----------------------------|---------------------|
| Color rendering index (CRI) | 70                  |
| Number of light sources     | 144                 |
| Light source color          | 740 neutral white   |
| Optical cover type          | Flat glass          |
| Luminaire light beam spread | 180°                |
| Optic type outdoor          | Distribution medium |

#### Operating and Electrical

|  |              |
|--|--------------|
| Input Voltage                            | 220 to 240 V |
| Line Frequency                           | 50 to 60 Hz  |
| Inrush current                           | 53 A         |
| Inrush time                              | 0.3 ms       |
| Power Consumption                        | 140 W        |
| Power Factor (Fraction)                  | 0.8          |
| Connection                               | -            |
| Cable                                    | -            |
| Number of products on MCB of 16 A type B | 3            |

#### Temperature

|                           |               |
|---------------------------|---------------|
| Ambient temperature range | -20 to +35 °C |
|---------------------------|---------------|

#### Controls and Dimming

|                               |                              |
|-------------------------------|------------------------------|
| Dimmable                      | No                           |
| Driver/power unit/transformer | Power supply unit regulating |
| Control interface             | -                            |
| Constant light output         | No                           |

#### Mechanical and Housing

|                        |                                    |
|------------------------|------------------------------------|
| Housing Material       | Aluminum                           |
| Reflector material     | -                                  |
| Optic material         | Polycarbonate                      |
| Optical cover material | Glass                              |
| Fixation material      | Aluminum                           |
| Housing Color          | Silver                             |
| Mounting device        | Universal for diameter 42 to 76 mm |
| Optical cover shape    | Convex lens                        |
| Optical cover finish   | Clear                              |
| Overall length         | 1,021 mm                           |
| Overall width          | 400 mm                             |

|                                     |                     |
|-------------------------------------|---------------------|
| Overall height                      | 144 mm              |
| Effective projected area            | 0.041 m²            |
| Dimensions (Height x Width x Depth) | 144 x 400 x 1021 mm |
| Parts color                         | All parts colored   |

#### Approval and Application

|  |  |
|--|--|
| Ingress protection code                | IP65 [Dust penetration-protected, jet-proof]                                       |
| Mech. impact protection code           | IK08 [5 J vandal-protected]  |
| Surge Protection (Common/Differential) | Luminaire surge protection level until 6 kV differential mode and 6 kV common mode |
| Protection class IEC                   | Safety class I   |

#### Initial Performance (IEC Compliant)

|                                       |                        |
|---------------------------------------|------------------------|
| Luminous flux tolerance               | +/-7%                  |
| Initial chromaticity                  | (0.380, 0.370) SDCM <3 |
| Power consumption tolerance           | +/-10%                 |
| 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          |
| Maximum dim level                  | Not applicable |

#### Product Data

|                                 |  |
|---------------------------------|--|
| Order product name              | BGP323 GRN185--3S/740 I DM FG AL SI P3-7 |
| Full product name               | BGP323 GRN185--3S/740 I DM FG AL SI P3-7 |
| Full product code               | 871829134493300                          |
| Order code                      | 910505016359                             |
| Material Nr. (12NC)             | 910505016359                             |
| Numerator - Quantity Per Pack   | 1  |
| EAN/UPC - Product/Case          | 8718291344933                            |
| Numerator - Packs per outer box | 1  |
| EAN/UPC - Case                  | 8718291344933                            |

Dimensional drawing

