



# Copenhagen LED Small

## BRS443 GRN20-3S/740 II DW GR CLO-DDF6

Little Copenhagen LED side entry, LED GreenLine 2000 lm, 740 neutral white, Safety class II, Distribution wide, Flat glass, Constant light output and DynaDimmer fixed presets version 6

Copenhagen LED was co-designed together with Copenhagen's Office of City Architecture in order to enhance the aesthetic appeal of the city's lighting. The luminaire's timeless design comes in two sizes – mini and large – to ensure that the dimensions of the luminaire and pole are well balanced, and that the installation blends in harmoniously with its surroundings. A variety of suspensions are available, offering maximum freedom in the overall design of the installation. A choice of symmetrical or asymmetrical distributions and state-of-the-art LED technology complete the specification of an extremely adaptable luminaire.

### Product data

| General Information      |   |   |  |
|--------------------------|---|---|--|
| Lamp family code         | GRN20 [LED GreenLine 2000 lm]   | extreme ambient temperatures the luminaire might automatically dim down to protect components |  |
| Light source replaceable | Yes   |   |  |
| Number of gear units     | 1 unit  | Light source engine type  |  |
| Driver included          | Yes   | LED   |  |
| 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 | Product family code   |  |
|                          |   | BRS443 [Little Copenhagen LED side entry]   |  |
|                          |   | Lighting Technology   |  |
|                          |   | LED   |  |
|                          |   | Embedded control  |  |
|                          |   | Constant light output and DynaDimmer fixed presets version 6                                  |  |
|                          |   | CE mark   |  |
|                          |   | Yes   |  |
|                          |   | Warranty period   |  |
|                          |   | 5 years   |  |
|                          |   | Flammability mark   |  |
|                          |   | For mounting on normally flammable surfaces   |  |
|                          |   | ENEC mark   |  |
|                          |   | -   |  |

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|  |  |
|--|--|
| EU RoHS compliant                        | Yes  |
| <b>Light Technical</b>                   |  |
| Upward light output ratio                | 0  |
| Luminous Flux                            | 1,680 lumen  |
| Standard tilt angle posttop              | 0°   |
| Standard tilt angle side entry           | 0°   |
| Correlated Color Temperature (Nom)       | 4000 K   |
| Luminous Efficacy (rated) (Nom)          | 116 lm/W   |
| Color rendering index (CRI)              | ≥70  |
| Number of light sources                  | 1  |
| Light source color                       | 740 neutral white  |
| Optical cover type                       | Flat glass   |
| Luminaire light beam spread              | 180°   |
| Optic type outdoor                       | Distribution wide  |
| <b>Operating and Electrical</b>          |  |
| Input Voltage                            | 220/240 V  |
| Line Frequency                           | 50 to 60 Hz  |
| Initial CLO power consumption            | 13 W   |
| Average CLO power consumption            | 14 W   |
| End CLO power consumption                | 16 W   |
| Inrush current                           | 27 A   |
| Inrush time                              | 0.265 ms   |
| Power Consumption                        | 16 W   |
| Power Factor (Fraction)                  | 0.9  |
| Connection                               | -  |
| Cable                                    | Cable 10 m without plug  |
| Number of products on MCB of 16 A type B | 20   |
| <b>Temperature</b>                       |  |
| Ambient temperature range                | -40 to +50 °C  |
| <b>Controls and Dimming</b>              |  |
| Dimmable                                 | No   |
| Driver/power unit/transformer            | Power supply unit with DynaDimmer and constant light output (integrated) |
| Control interface                        | -  |
| Constant light output                    | Yes  |
| <b>Mechanical and Housing</b>            |  |
| Reflector material                       | -  |
| Optic material                           | Polycarbonate  |

|  |  |
|--|--|
| Optical cover material                                   | Glass  |
| Fixation material  | Aluminum   |
| Housing Color  | Grey   |
| Mounting device  | Side-entry for diameter 48 mm  |
| Optical cover shape                                      | Flat   |
| Optical cover finish                                     | Clear  |
| Overall height   | 312 mm   |
| Overall diameter   | 380 mm   |
| Effective projected area                                 | 0.08 m²  |
| <b>Approval and Application</b>                          |  |
| 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 8 kV common mode |
| Protection class IEC                                     | Safety class II  |
| <b>Initial Performance (IEC Compliant)</b>               |  |
| Luminous flux tolerance                                  | +/-7%  |
| Initial chromaticity                                     | (0.382, 0.380) SDCM <5   |
| Power consumption tolerance                              | +/-10%   |
| Init. Color Rendering Index Tolerance                    | +/-2   |
| <b>Over Time Performance (IEC Compliant)</b>             |  |
| Control gear failure rate at median useful life 100000 h | 10 %   |
| Lumen maintenance at median useful life* 100000 h        | L100   |
| <b>Application Conditions</b>                            |  |
| Performance ambient temperature Tq                       | 25 °C  |
| <b>Product Data</b>                                      |  |
| Full product code  | 871829108401300  |
| Order product name                                       | BRS443 GRN20-3S/740 II DW GR CLO-DDF6  |
| Order code   | 919008632089   |
| Numerator - Quantity Per Pack                            | 1  |
| Numerator - Packs per outer box                          | 1  |
| Material Nr. (12NC)                                      | 919008632089   |
| Full product name  | BRS443 GRN20-3S/740 II DW GR CLO-DDF6  |
| EAN/UPC - Case   | 8718291084013  |
| EAN/UPC - Product/Case                                   | 8718291084013  |

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### Dimensional drawing

