



# Copenhagen LED Big

## BRS441 GRN98-3S/740 II O-DK CLO-DDF6 C10

Big Copenhagen LED side entry, LED GreenLine 9800 lm, 740 neutral white, Safety class II, Distribution wet road (DK), Constant light output and DynaDimmer fixed presets version 6, Cable 10 m without plug

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         | GRN98 [LED GreenLine 9800 lm]  | Product family code       | BRS441 [Big Copenhagen LED side entry]                       |
| Light source replaceable | Yes  | Lighting Technology       | LED  |
| Number of gear units     | 1 unit   | Embedded control          | Constant light output and DynaDimmer fixed presets version 6 |
| Driver included          | Yes  | CE mark                   | 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. | Warranty period           | 5 years  |
| Light source engine type | LED  | Flammability mark         | For mounting on normally flammable surfaces                  |
|                          |  | ENEC mark                 | -  |
|                          |  | EU RoHS compliant         | Yes  |
|                          |  | Light Technical           |  |
|                          |  | Upward light output ratio | 0  |
|                          |  | Luminous Flux             | 9,040 lumen  |

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|                                    |                            |
|------------------------------------|----------------------------|
| Standard tilt angle posttop        | 0°                         |
| Standard tilt angle side entry     | 0°                         |
| Correlated Color Temperature (Nom) | 4000 K                     |
| Luminous Efficacy (rated) (Nom)    | 109 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 wet road (DK) |

## Operating and Electrical

|  |                         |
|--|-------------------------|
| Input Voltage                            | 220/240 V               |
| Line Frequency                           | 50 to 60 Hz             |
| Initial CLO power consumption            | 62 W                    |
| Average CLO power consumption            | 70 W                    |
| End CLO power consumption                | 78 W                    |
| Inrush current                           | 53 A                    |
| Inrush time                              | 0.30 ms                 |
| Power Consumption                        | 70 W                    |
| Power Factor (Fraction)                  | 0.9                     |
| Connection                               | -                       |
| Cable                                    | Cable 10 m without plug |
| Number of products on MCB of 16 A type B | 8                       |

## Temperature

|                           |               |
|---------------------------|---------------|
| Ambient temperature range | -40 to +50 °C |
|---------------------------|---------------|

## Controls and Dimming

|                               |  |
|-------------------------------|--|
| Dimmable                      | No   |
| Driver/power unit/transformer | Power supply unit with DynaDimmer and constant light output (integrated) |
| Control interface             | -  |
| Constant light output         | Yes  |

## Mechanical and Housing

|                        |                               |
|------------------------|-------------------------------|
| Reflector material     | -                             |
| Optic material         | Polycarbonate                 |
| Optical cover material | Glass                         |
| Fixation material      | Aluminum                      |
| Housing Color          | Opal                          |
| Mounting device        | Side-entry for diameter 48 mm |

|                          |         |
|--------------------------|---------|
| Optical cover shape      | Flat    |
| Optical cover finish     | Clear   |
| Overall height           | 367 mm  |
| Overall diameter         | 462 mm  |
| Effective projected area | 0.13 m² |

## 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 8 kV common mode |
| Protection class IEC                   | Safety class II  |

## Initial Performance (IEC Compliant)

|                                       |                        |
|---------------------------------------|------------------------|
| Luminous flux tolerance               | +/-7%                  |
| Initial chromaticity                  | (0.382, 0.380) SDCM <5 |
| 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        | L100 |

## Application Conditions

|                                    |       |
|------------------------------------|-------|
| Performance ambient temperature Tq | 25 °C |
|------------------------------------|-------|

## Product Data

|                                 |  |
|---------------------------------|--|
| Full product code               | 871869685912400                          |
| Order product name              | BRS441 GRN98-3S/740 II O-DK CLO-DDF6 C10 |
| Order code                      | 919008632536                             |
| Numerator - Quantity Per Pack   | 1  |
| Numerator - Packs per outer box | 1  |
| Material Nr. (12NC)             | 919008632536                             |
| Full product name               | BRS441 GRN98-3S/740 II O-DK CLO-DDF6 C10 |
| EAN/UPC - Case                  | 8718696859124                            |
| EAN/UPC - Product/Case          | 8718696859124                            |

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