# Copenhagen LED Big

## BRS441 GRN98-3S/740 II DC CLO-DDF1 C10K

Big Copenhagen LED side entry, LED GreenLine 9800 lm, 740 neutral white, Safety class II, Distribution comfort, Constant light output and DynaDimmer fixed presets version 1, 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] |
| Light source replaceable | Yes |
| 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 | BRS441 [Big Copenhagen LED side entry] |
| Lighting Technology | LED |
| Embedded control | Constant light output and DynaDimmer fixed presets version 1 |
| CE mark | Yes |
| Warranty period | 5 years |
| Flammability mark | For mounting on normally flammable surfaces |
| ENEC mark | – |
| EU RoHS compliant | Yes |

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## Light Technical

| | |
|---|---|
| Upward light output ratio | 0 |
| Luminous Flux | 8,240 lumen |
| Standard tilt angle posttop | 0° |
| Standard tilt angle side entry | 0° |
| Correlated Color Temperature (Nom) | 4000 K |
| Luminous Efficacy (rated) (Nom) | 125 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 comfort |

## Operating and Electrical

| | |
|---|---|
| Input Voltage | 220/240 V |
| Line Frequency | 50 to 60 Hz |
| Initial CLO power consumption | 57 W |
| Average CLO power consumption | 65 W |
| End CLO power consumption | 73 W |
| Inrush current | 53 A |
| Inrush time | 0.30 ms |
| Power Consumption | 65 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 | 871829198616400 |
| Order product name | BRS441 GRN98-3S/740 II DC CLO-DDF1 C10K |
| Order code | 919008632196 |
| Numerator – Quantity Per Pack | 1 |
| Numerator – Packs per outer box | 1 |
| Material Nr. (12NC) | 919008632196 |
| Full product name | BRS441 GRN98-3S/740 II DC CLO-DDF1 C10K |
| EAN/UPC – Case | 8718291986164 |
| EAN/UPC – Product/Case | 8718291986164 |

# Copenhagen LED Big

## Dimensional drawing



Ø 48

100

367

Ø 462

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2023, September 4 – data subject to change