PHILIPS

Lighting



# ClearWay gen2

## BGP307 LED45-4S/830 II DM11 CLO 48/60S

ClearWay gen2, LED Module 4500 lm, 830 warm white, Safety class II, Distribution medium 11, Universal for diameter 48 to 60 mm adjustable

ClearWay Gen2 enables you to enjoy the benefits of LED technology for urban lighting right from the start. This new second generation of the luminaire builds on the strengths of its predecessor and is designed to further minimize your Total Cost of Ownership. ClearWay Gen2 significantly improves the most important aspects of the street lighting experience compared to conventional urban lighting. Ideal for new streets and for renovating existing installations, this affordable range of urban ClearWay lighting solutions combines clean design, high-quality light with significant energy and maintenance savings. In short, ClearWay Gen2 means good quality light with all the added benefits of LED - energy savings and long lifetime. Offering more benefits, yet packaged in a thinner and lighter design, which makes it easier to install.

### Product data

| General Information | |
|---|---|
| **Lamp family code** | LED45 [LED Module 4500 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** | BGP307 [ClearWay gen2] |
| **Lighting Technology** | LED |
| **CE mark** | Yes |
| **Warranty period** | 5 years |
| **Flammability mark** | - |
| **ENEC mark** | ENEC mark |

# ClearWay gen2

| | |
|---|---|
| **EU RoHS compliant** | No |

## Light Technical

| | |
|---|---|
| **Upward light output ratio** | 0 |
| **Luminous Flux** | 3,741 lm |
| **Standard tilt angle posttop** | 0° |
| **Standard tilt angle side entry** | 0° |
| **Correlated Color Temperature (Nom)** | 3000 K |
| **Luminous Efficacy (rated) (Nom)** | 108 lm/W |
| **Color rendering index (CRI)** | 80 |
| **Light source color** | 830 warm white |
| **Optic type** | - |
| **Optical cover type** | Flat glass |
| **Luminaire light beam spread** | 160° - 42° x 54° |
| **Optic type outdoor** | Distribution medium 11 |

## Operating and Electrical

| | |
|---|---|
| **Input Voltage** | 220 to 240 V |
| **Line Frequency** | 50 to 60 Hz |
| **Initial CLO power consumption** | 34.5 W |
| **Average CLO power consumption** | 35 W |
| **End CLO power consumption** | 35.5 W |
| **Inrush current** | 43 A |
| **Inrush time** | 0.26 ms |
| **Power Consumption** | 34.5 W |
| **Power Factor (Fraction)** | 0.97 |
| **Connection** | Push-in connector 5-pole |
| **Cable** | - |
| **Number of products on MCB of 16 A type B** | 20 |

## Temperature

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

## Controls and Dimming

| | |
|---|---|
| **Dimmable** | No |
| **Driver/power unit/transformer** | Power supply unit (On/Off) |
| **Control interface** | - |
| **Constant light output** | Yes |

## Mechanical and Housing

| | |
|---|---|
| **Housing Material** | Aluminum die cast |
| **Reflector material** | - |
| **Optic material** | Polymethyl methacrylate |
| **Optical cover material** | Tempered glass |
| **Fixation material** | Aluminum |
| **Housing Color** | Gray |
| **Mounting device** | Universal for diameter 48 to 60 mm adjustable |
| **Optical cover shape** | Flat |
| **Optical cover finish** | Clear |
| **Overall length** | 482 mm |
| **Overall width** | 330 mm |
| **Overall height** | 93 mm |
| **Effective projected area** | 0.1151 m² |
| **Dimensions (Height x Width x Depth)** | 93 x 330 x 482 mm |

## Approval and Application

| | |
|---|---|
| **Ingress protection code** | IP66 [Dust penetration-protected, jet-proof] |
| **Mech. impact protection code** | IK09 [10 J] |
| **Surge Protection (Common/Differential)** | Luminaire surge protection level until 6 kV differential mode and 8 kV common mode |
| **Sustainability rating** | Lighting for circularity |
| **Protection class IEC** | Safety class II |
| **Photobiological risk** | Photobiological risk group 1 @ 200mm to EN62471 |
| **Photobiological risk specification** | 3.1 m |

## Initial Performance (IEC Compliant)

| | |
|---|---|
| **Luminous flux tolerance** | +/-7% |
| **Initial chromaticity** | (0.43, 0.40) SDCM <5 |
| **Power consumption tolerance** | +/-10% |
| **Init. Color Rendering Index Tolerance** | +/-2 |

## Over Time Performance (IEC Compliant)

| | |
|---|---|
| **Driver failure rate at 5000 h** | 0.5 % |
| **Control gear failure rate at median useful life 50000 h** | 5 % |
| **Control gear failure rate at median useful life 100000 h** | 10 % |
| **Lumen maintenance at median useful life* 100000 h** | L100 |

## Application Conditions

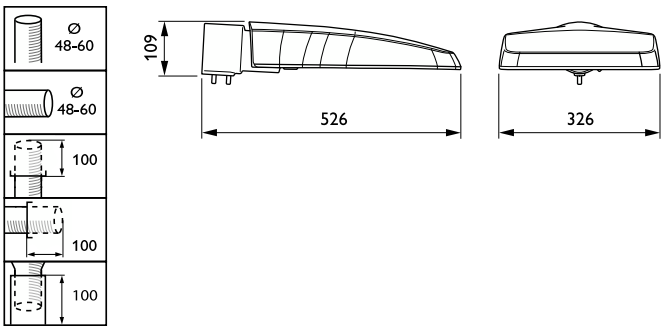
| | |
|---|---|
| **Performance ambient temperature Tq** | 25 °C |
| **Maximum dim level** | 0% (digital) |

## Product Data

| | |
|---|---|
| **Order product name** | BGP307 LED45-4S/830 II DM11 CLO 48/60S |
| **Full product name** | BGP307 LED45-4S/830 II DM11 CLO 48/60S |
| **Full product code** | 871869699691100 |
| **Order code** | 910925865213 |
| **Material Nr. (12NC)** | 910925865213 |
| **Numerator - Quantity Per Pack** | 1 |
| **EAN/UPC - Product/Case** | 8718696996911 |
| **Numerator - Packs per outer box** | 1 |
| **EAN/UPC - Case** | 8718696996911 |

# ClearWay gen2

## Dimensional drawing




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