



# ClearWay gen2

## BGP307 LED18-4S/830 II DM11 CLO-DDF1 D18

ClearWay gen2, LED module 1800 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         | LED18 [LED module 1800 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. $^{\ast}$ At |
|--------------------------|---|
|                          | extreme ambient temperatures the luminaire        |
|                          | might automatically dim down to protect           |
|                          | components  |
| Light source engine type | LED   |
| Service tag              | Yes   |
| Product family code      | BGP307 [ClearWay gen2]                            |
| Lighting Technology      | LED   |
| CE mark                  | Yes   |
| Warranty period          | 5 years   |
| Flammability mark        | -   |
|                          |   |

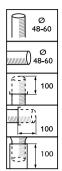
Datasheet, 2024, March 14 data subject to change

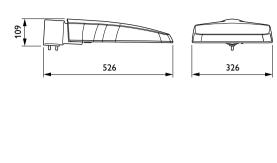
# ClearWay gen2

| ENEC mark                              | ENEC mark                          | Optical cover finish                       | Clear  |
|--|------------------------------------|--|--|
| EU RoHS compliant                      | No                                 | Overall length                             | 482 mm                                       |
|  |                                    | Overall width                              | 330 mm                                       |
| Light Technical                        |                                    | Overall height                             | 93 mm  |
| Upward light output ratio              | 0                                  | Effective projected area                   | 0.1151 m <sup>2</sup>                        |
| Luminous Flux                          | 1,522.5 lm                         | Dimensions (Height x Width x Depth)        | 93 x 330 x 482 mm                            |
| Standard tilt angle posttop            | O°                                 |  |  |
| Standard tilt angle side entry         | O°                                 | Approval and Application                   |  |
| Correlated Color Temperature (Nom)     | 3000 K                             | Ingress protection code                    | IP66 [Dust penetration-protected, jet-proof] |
| Luminous Efficacy (rated) (Nom)        | 106 lm/W                           | Mech. impact protection code               | IK09 [10 J]                                  |
| Color rendering index (CRI)            | 80                                 | Surge Protection (Common/Differential)     | Luminaire surge protection level until 6 kV  |
| Light source color                     | 830 warm white                     |  | differential mode and 8 kV common mode       |
| Optic type                             | -                                  | Sustainability rating                      | Lighting for circularity                     |
| Optical cover type                     | Flat glass                         | Protection class IEC                       | Safety class II                              |
| Luminaire light beam spread            | 160° - 42° x 54°                   | Photobiological risk                       | Photobiological risk group 1 @ 200mm to      |
| Optic type outdoor                     | Distribution medium 11             |  | EN62471                                      |
|  |                                    | Photobiological risk specification         | 3.1 m  |
| Operating and Electrical               |                                    |  |  |
| Input Voltage                          | 220 to 240 V                       | Initial Performance (IEC Compliant)        |  |
| Line Frequency                         | 50 to 60 Hz                        | Luminous flux tolerance                    | +/-7%  |
| Initial CLO power consumption          | 14.4 W                             | Initial chromaticity                       | (0.43, 0.40) SDCM <5                         |
| Average CLO power consumption          | 14.6 W                             | Power consumption tolerance                | +/-10%                                       |
| End CLO power consumption              | 14.8 W                             | Init. Color Rendering Index Tolerance      | +/-2   |
| Inrush current                         | 12 A                               |  |  |
| Inrush time                            | 0.27 ms                            | Over Time Performance (IEC Compl           | iant)  |
| Power Consumption                      | 14.4 W                             | Driver failure rate at 5000 h              | 0.5 %  |
| Power Factor (Fraction)                | 0.98                               | Control gear failure rate at median useful | . 5 %  |
| Connection                             | Push-in connector 5-pole           | life 50000 h                               |  |
| Cable                                  | -                                  | Control gear failure rate at median useful | . 10 %                                       |
| Number of products on MCB of 16 A type | <b>e</b> 20                        | life 100000 h                              |  |
| В                                      |                                    | Lumen maintenance at median useful         | L100   |
|  |                                    | life* 100000 h                             |  |
| Temperature                            |                                    |  |  |
| Ambient temperature range              | -40 to +50 °C                      | Application Conditions                     |  |
|  |                                    | Performance ambient temperature Tq         | 25 ℃   |
| Controls and Dimming                   |                                    | Maximum dim level                          | 0% (digital)                                 |
| Dimmable                               | Yes                                | - <del></del>                              |  |
| Driver/power unit/transformer          | Power supply unit with DynaDimmer  | Product Data                               |  |
| Control interface                      | -                                  | Order product name                         | BGP307 LED18-4S/830 II DM11 CLO-DDF1         |
| Constant light output                  | Yes                                |  | D18  |
|  |                                    | Full product name                          | BGP307 LED18-4S/830 II DM11 CLO-DDF1         |
| Mechanical and Housing                 |                                    |  | D18  |
| Housing Material                       | Aluminum die cast                  | Full product code                          | 871869699693500                              |
| Reflector material                     |                                    | Order code                                 | 910925865215                                 |
| Optic material                         | Polymethyl methacrylate            | Material Nr. (12NC)                        | 910925865215                                 |
| Optical cover material                 | Tempered glass                     | Numerator - Quantity Per Pack              | 1  |
| Fixation material                      | Aluminum                           | EAN/UPC - Product/Case                     | 8718696996935                                |
| Housing Color                          | Gray                               | Numerator - Packs per outer box            | 1  |
| Mounting device                        | Universal for diameter 48 to 60 mm | EAN/UPC - Case                             | 8718696996935                                |
|  | adjustable                         |  |  |
| Optical cover shape                    | Flat                               |  |  |

## ClearWay gen2

### Dimensional drawing







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