



# Luma

## BGP623 40xLED60-4S/740 PSU I DM10 AL GR

LUMA 1, 40, LED module 6000 lm, 740 neutral white, Power supply unit (On/Off), Safety class I, Distribution medium 10, Acrylate micro-lens optic, Grey, Philips standard surge protection level, Side-entry for diameter 62 mm

Luma is a REVOLED™ road-lighting luminaire with a clear design identity, offering a perfectly cooled, fit-and-forget solution for all streets and roads. The lumen package, lifetime and energy profile can be tuned to create the desired solution in terms of energy and cost savings. Luma can be programmed to keep the flux of the LEDs at a predefined constant level over the lifetime of the luminaire – by increasing the operating current over time to compensate for the LED lumen depreciation. This eliminates over-lighting at the beginning, enabling additional extra energy savings. Luma’s truly flat design prevents upward light, and the OPTIFLUX™ lens optics meet current lighting standards. To optimize the light distribution for varying road geometries and/or glare restrictions, the tilt angle can easily be adjusted on installation.

### Product data

| General Information      |  | 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 |                 |
|--------------------------|--|--|-----------------|
| Lamp family code         | LED60 [LED module 6000 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 |  |                 |
|                          |  | Light source engine type   | LED             |
|                          |  | Product family code  | BGP623 [LUMA 1] |
|                          |  | Lighting Technology  | LED             |
|                          |  | CE mark  | Yes             |
|                          |  | Warranty period  | 5 years         |

|                   |           |
|-------------------|-----------|
| Flammability mark | -         |
| ENEC mark         | ENEC mark |
| EU RoHS compliant | Yes       |

Light Technical

|                                    |                           |
|------------------------------------|---------------------------|
| Upward light output ratio          | 0                         |
| Luminous Flux                      | 5,400 lm                  |
| Standard tilt angle posttop        | -                         |
| Standard tilt angle side entry     | 0°                        |
| Correlated Color Temperature (Nom) | 4000 K                    |
| Luminous Efficacy (rated) (Nom)    | 150 lm/W                  |
| Color rendering index (CRI)        | ≥70                       |
| Number of light sources            | 40                        |
| Light source color                 | 740 neutral white         |
| Optical cover type                 | Acrylate micro-lens optic |
| Luminaire light beam spread        | 77° - 11° x 156°          |
| Optic type outdoor                 | Distribution medium 10    |

Operating and Electrical

|  |                        |
|--|------------------------|
| Input Voltage                            | 220 to 240 V           |
| Line Frequency                           | 50 to 60 Hz            |
| Inrush current                           | 80 A                   |
| Inrush time                              | 0.15 ms                |
| Power Consumption                        | 36 W                   |
| Power Factor (Fraction)                  | 0.9                    |
| Connection                               | Connection unit 3-pole |
| Cable                                    | -                      |
| Number of products on MCB of 16 A type B | 11                     |

Temperature

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

Controls and Dimming

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

Mechanical and Housing

|                        |               |
|------------------------|---------------|
| Housing Material       | Aluminum      |
| Reflector material     | -             |
| Optic material         | Polycarbonate |
| Optical cover material | Polycarbonate |
| Fixation material      | Aluminum      |
| Housing Color          | Grey          |

|                                     |                               |
|-------------------------------------|-------------------------------|
| Mounting device                     | Side-entry for diameter 62 mm |
| Optical cover shape                 | Flat                          |
| Optical cover finish                | Clear                         |
| Overall length                      | 720 mm                        |
| Overall width                       | 435 mm                        |
| Overall height                      | 130 mm                        |
| Overall diameter                    | 62 mm                         |
| Effective projected area            | 0.057 m²                      |
| Dimensions (Height x Width x Depth) | 130 x 435 x 720 mm            |

Approval and Application

|  |  |
|--|--|
| Ingress protection code                | IP66 [Dust penetration-protected, jet-proof] |
| Mech. impact protection code           | IK09 [10 J]                                  |
| Surge Protection (Common/Differential) | Philips standard surge protection level      |
| Protection class IEC                   | Safety class I                               |

Initial Performance (IEC Compliant)

|                                       |                        |
|---------------------------------------|------------------------|
| Luminous flux tolerance               | +/-7%                  |
| Initial chromaticity                  | (0.382, 0.379) 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        | L96  |

Application Conditions

|                                    |                |
|------------------------------------|----------------|
| Performance ambient temperature Tq | 25 °C          |
| Maximum dim level                  | Not applicable |

Product Data

|                                 |   |
|---------------------------------|---|
| Order product name              | BGP623 40xLED60-4S/740 PSU I DM10 AL GR |
| Full product name               | BGP623 40xLED60-4S/740 PSU I DM10 AL GR |
| Full product code               | 871869947321100                         |
| Order code                      | 47321100                                |
| Material Nr. (12NC)             | 912300024043                            |
| Numerator - Quantity Per Pack   | 1                                       |
| EAN/UPC - Product/Case          | 8718699473211                           |
| Numerator - Packs per outer box | 1                                       |
| EAN/UPC - Case                  | 8718699473211                           |

## Dimensional drawing

