



# Luma – the vision is reality

## Luma

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.

### Benefits

- Choice of lens optics to match international road and street geometries
- Combination of lenses and tilt adjustment options ensures high project flexibility
- Dedicated lumen packages deliver energy savings of over 50%, with a related reduction in CO<sub>2</sub> emissions

### Features

- REVOLED™ technology for an integrated, uncompromised approach to LED luminaire design
- COO-LED™ thermal management – the integral design approach taken ensures that many luminaire parts contribute to the coolest and therefore most efficient lighting solution
- L-Tune tool
- Adjustable tilt angle

## Application

- Motorways, inter-urban main roads, boulevards and avenues, roundabouts, pedestrian crossings
- Residential streets, side streets, squares, parks, cycle and pedestrian paths, playgrounds
- Parking areas, industrial areas, petrol stations, rail yards, airports, harbors, waterways

## Specifications

|                      |  |
|----------------------|--|
| <b>Type</b>          | BGP621 (Mini Luma version)<br>BGP623 (Luma 1 version)<br>BGP625 (Luma 2 version)<br>BGP627 (Luma 3 version)  |
| <b>Light source</b>  | Built-in LED-module  |
| <b>Power</b>         | BGP621: 10 to 90 W depending on configuration<br>BGP623: 15 to 180 W depending on configuration<br>BGP625: 40 to 270 W depending on configuration<br>BGP627: 68 to 446 W depending on configuration                            |
| <b>Luminous flux</b> | BGP621: 850 to 11,100 lm depending on configuration<br>BGP623: 1,400 to 22,150 lm depending on configuration<br>BGP625: 4,200 to 32,950 lm depending on configuration<br>BGP627: 6,950 to 54,400 lm depending on configuration |

|   |   |
|---|---|
| <b>Luminaire efficacy</b>                   | Up to 124 lm/W                          |
| <b>Correlated Color</b>                     | 5700 K (CW), 4000 K (NW) or 3000 K (WW) |
| <b>Temperature</b>                          |   |
| <b>Color Rendering Index</b>                | 70 (for CW, NW)<br>80 (for WW)          |
| <b>Maintenance of lumen output - L80F10</b> | Up to 100,000 hours at 25 °C            |
| <b>Operating temperature range</b>          | -20 to +35 °C                           |

## Specifications

|                      |   |
|----------------------|---|
| <b>Driver</b>        | Programmed LED drivers  |
| <b>Mains voltage</b> | 220-240 V / 50-60 Hz  |
| <b>Dimming</b>       | 1-10 V or stand alone DynaDimmer<br>DALI  |
| <b>Options</b>       | Wired for cell (WFC), mini Photocell or NEMA socket<br>Including cable  |
| <b>Optic</b>         | OPTIFLUX™ lenses<br>Narrow, medium, wide or extra wide road optic   |
| <b>Optical cover</b> | Flat cover, glass   |
| <b>Material</b>      | Housing: die-cast aluminum, non corrosive<br>Cover: toughened glass<br>Gear tray: aluminum<br>Spigot: die-cast aluminum |
| <b>Color</b>         | Antracite or light grey<br>Other RAL or AKZO Futura colors or duo colors available on request                           |

|                     |   |
|---------------------|---|
| <b>Connection</b>   | M20 cable gland with strain relief, for cable Ø 10-14 mm  |
| <b>Maintenance</b>  | Canopy with LED module and gear tray hinges upwards and is secured by a stainless steel locking bar (2 positions), making the LED module and gear tray safely accessible from below<br>Safe Maintenance Technology (SMT) safety switch disconnects power on opening                                   |
| <b>Installation</b> | BGP621/623: post top / side entry mounting Ø 32-60 mm<br>BGP625/627: post top / side entry mounting Ø 42-62 mm<br>Recommended mounting height: 6-18 m<br>Standard tilt angle post top: 0°<br>Adjustable tilt angle: 0-5-10°<br>Max SCx: 0.055 m (BGP621), 0.057 m (BGP623), 0.067 m (BGP625), 0.079 m |
| <b>Accessories</b>  | Dedicated spigot for post top Ø 76 mm   |

# Luma

## Versions



| Application Conditions              |                   |
|-------------------------------------|-------------------|
| Maximum dim level                   | Not applicable    |
| Approval and Application            |                   |
| Mech. impact protection code        | IK09              |
| Controls and Dimming                |                   |
| Dimmable                            | No                |
| General Information                 |                   |
| CE mark                             | CE mark           |
| Light source colour                 | 740 neutral white |
| Optical cover/lens type             | AC-MLO            |
| Driver included                     | Yes               |
| Flammability mark                   | NO                |
| Light source replaceable            | Yes               |
| Number of gear units                | 1 unit            |
| Initial Performance (IEC Compliant) |                   |
| Init. Corr. Colour Temperature      | 4000 K            |
| Init. Colour Rendering Index        | ≥70               |
| Light Technical                     |                   |
| Upward light output ratio           | 0                 |
| Mechanical and Housing              |                   |
| Colour                              | Gray              |

## Approval and Application

| Order Code | Full Product Name                        | Surge Protection (Common/Differential)     |
|------------|--|--|
| 11592000   | BGP623 LED220-4S/740 I DM11 GR DDF27 SRG | Surge protection level until 10 kV         |
| 11596800   | BGP627 LED550-4S/740 I DM11 GR DDF27 SRG | Surge protection level until 10 kV         |
| 45994900   | BGP627 LED400-4S/740 PSU II DX10 GR CLO  | Philips standard surge protection level kV |

## General Information (1/2)

| Order Code | Full Product Name | Luminaire light beam spread | Luminaire fixation bolts | Luminaire | Lamp      |
|------------|-------------------|-----------------------------|--------------------------|-----------|-----------|
|            |                   |                             |                          | family    | Lamp code |
| 11592000   | BGP623            | 78° - 14° x 156°            | Length 30 mm             | LED220    | 4S        |
|            | LED220-4S/740 I   |                             |                          |           |           |
|            | DM11 GR DDF27 SRG |                             |                          |           |           |
| 11596800   | BGP627            | 78° - 14° x 156°            | Length 30 mm             | LED550    | 4S        |
|            | LED550-4S/740 I   |                             |                          |           |           |
|            | DM11 GR DDF27 SRG |                             |                          |           |           |

| Order Code | Full Product Name  | Luminaire light beam spread | Luminaire fixation bolts | Luminaire | Lamp      |
|------------|--------------------|-----------------------------|--------------------------|-----------|-----------|
|            |                    |                             |                          | family    | Lamp code |
| 45994900   | BGP627             | 20° - 4° x 150°             | -                        | LED400    | -         |
|            | LED400-4S/740      |                             |                          |           |           |
|            | PSU II DX10 GR CLO |                             |                          |           |           |

General Information (2/2)

| Order Code | Full Product Name                        | Number of light sources |                        | Product Family Code |
|------------|--|-------------------------|------------------------|---------------------|
|            |  | Optic type              |                        |                     |
| 11592000   | BGP623 LED220-4S/740 I DM11 GR DDF27 SRG | 80                      | Distribution medium 11 | BGP623              |
| 11596800   | BGP627 LED550-4S/740 I DM11 GR DDF27 SRG | 200                     | Distribution medium 11 | BGP627              |

| Order Code | Full Product Name                       | Number of light sources |                            | Product Family Code |
|------------|---|-------------------------|----------------------------|---------------------|
|            |   | Optic type              |                            |                     |
| 45994900   | BGP627 LED400-4S/740 PSU II DX10 GR CLO | -                       | Distribution extra-wide 10 | BGP627              |

Initial Performance (IEC Compliant)

| Order Code | Full Product Name                        | Initial luminous flux |
|------------|--|-----------------------|
| 11592000   | BGP623 LED220-4S/740 I DM11 GR DDF27 SRG | 19580 lm              |
| 11596800   | BGP627 LED550-4S/740 I DM11 GR DDF27 SRG | 49280 lm              |

| Order Code | Full Product Name                       | Initial luminous flux |
|------------|---|-----------------------|
| 45994900   | BGP627 LED400-4S/740 PSU II DX10 GR CLO | 34000 lm              |

Light Technical

| Order Code | Full Product Name                        | Standard tilt    |               |
|------------|--|------------------|---------------|
|            |  | angle side entry | angle posttop |
| 11592000   | BGP623 LED220-4S/740 I DM11 GR DDF27 SRG | 0°               | -             |
| 11596800   | BGP627 LED550-4S/740 I DM11 GR DDF27 SRG | 0°               | -             |

| Order Code | Full Product Name                       | Standard tilt    |               |
|------------|---|------------------|---------------|
|            |   | angle side entry | angle posttop |
| 45994900   | BGP627 LED400-4S/740 PSU II DX10 GR CLO | -                | 0°            |

