# Harmony 1&2 LED

## BGP660 LED20-4S/830 DS50 FG GR-2900 DDF1

Harmony 1 LED, LED Module 2000 lm, 830 warm white, Safety class I, Distribution symmetrical 50, Flat glass, Post-top for diameter 60 mm

Harmony LED is based on a clean shape, a modular construction and complementary optical systems. It can be adapted to all styles of setting and types of application. Available in two sizes and designed for heights from 4 to 10 metres, the luminaire can be combined with several brackets and wall-mounted solutions, allowing you to compose varied, yet consistent installations. Harmony LED is the overall lighting solution for classic and contemporary urban settings, delivering outstanding levels of lighting and energy performance thanks to its LED engine and its application-tailored optics. Harmony LED is also equipped with dedicated light recipe that preserves a dark night sky.

## Product data

### General Information

| | |
|---|---|
| Lamp family code | LED20 [LED Module 2000 lm] |
| Light source replaceable | Yes |
| Number of gear units | Unit |
| Driver included | Yes |
| Remarks | *- According to the Lighting Europe guidance paper 'Evaluating performance of LED based luminaires – January 2018': statistically there is no relevant difference in lumen maintenance between the B50 and, for example, the 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 | BGP660 [Harmony 1 LED] |
| Lighting Technology | LED |
| Value ladder | Performance |
| Embedded control | DynaDimmer with fixed presets version 1 |
| CE mark | Yes |
| Warranty period | 5 years |
| Flammability mark | - |
| ENEC mark | - |
| EU RoHS compliant | Yes |

# Harmony 1&2 LED

## Light Technical

| | |
|---|---|
| Upwards light output ratio | 0.03 |
| Luminous Flux | 1,760 lm |
| Standard tilt angle post-top | 0° |
| Standard tilt angle side entry | 0° |
| Correlated Colour Temperature | 3000 K |
| Luminous efficacy (rated) (nom.) | 110 lm/W |
| Colour rendering index (CRI) | ≥80 |
| Light source colour | 830 warm white |
| Optical cover type | Flat glass |
| Luminaire light beam spread | 152° x 155° |
| Optic type outdoor | Distribution symmetrical 50 |

## Operating and Electrical

| | |
|---|---|
| Input Voltage | 220 to 240 V |
| Line Frequency | 50 to 60 Hz |
| Inrush current | 21 A |
| Inrush time | 0.225 ms |
| Power Consumption | 16 W |
| Power Factor (Fraction) | 0.94 |
| Connection | Plug-in connector 3-pole Wieland/Adels compatible |
| Cable | – |
| Number of products on MCB of 16 A type B | 26 |

## Temperature

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

## Controls and Dimming

| | |
|---|---|
| Dimmable | No |
| Driver/power unit/transformer | Power supply unit with DynaDimmer |
| Constant light output | No |

## Mechanical and Housing

| | |
|---|---|
| Housing material | Aluminium |
| Reflector material | Glass |
| Optic material | Polymethyl methacrylate |
| Optical cover/lens material | Glass |
| Fixation material | Aluminium |
| Housing Colour | Grey |
| Mounting device | Post-top for diameter 60 mm |
| Optical cover/lens shape | Flat |
| Optical cover/lens finish | Clear |

| | |
|---|---|
| Overall length | 685 mm |
| Overall width | 685 mm |
| Overall height | 640 mm |
| Overall diameter | 640 mm |
| Effective projected area | 0.021 m² |
| Dimensions (height x width x depth) | 640 x 685 x 685 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 |
| Sustainability rating | – |
| Protection class IEC | Safety class I |

## Initial Performance (IEC Compliant)

| | |
|---|---|
| Luminous flux tolerance | +/–7% |
| Initial chromaticity | (0.380, 0.390) 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 100,000 h | 10 % |
| Lumen maintenance at median useful life* 100,000 h | L98 |

## Application Conditions

| | |
|---|---|
| Performance ambient temperature Tq | 25 °C |

## Product Data

| | |
|---|---|
| Order product name | BGP660 LED20-4S/830 DS50 FG GR-2900 DDF1 |
| Full product name | BGP660 LED20-4S/830 DS50 FG GR-2900 DDF1 |
| Full EOC | 871869945023600 |
| Order code | 45023600 |
| Material no. (12 NC) | 912300023971 |
| SAP numerator – quantity per pack | 1 |
| EAN/UPC — Product/Case | 8718699450236 |
| Numerator – packs per outer box | 1 |
| EAN/UPC – Case | 8718699450236 |

**Dimensional drawing**

Ø 25

224

Ø 536