# **PHILIPS** Lighting



# **GentleSpace gen2**

## BY470P GRN130S/840 PSD WB PC BR SI

GentleSpace 2, LED GreenLine system flux 13000 lm, Power supply unit with DALI interface, Wide beam, Polycarbonate bowl/cover, Silver

With the introduction of the GentleSpace LED luminaire in 2011, Philips achieved a breakthrough in high-bay lighting, offering a huge reduction in power consumption, a long service life and an innovative design. Now, with GentleSpace gen2, Philips is setting a new standard in the market, with an improved total cost of ownership, even in extreme conditions. In addition, a high diversity of options are available to ensure an ideal solution for your application like optics, coatings and enabling the use of a central emergency grid (PSED).

#### **Product data**

| General Information      |   |  |
|--------------------------|---|--|
| Lamp family code         | GRN130S [LED GreenLine system flux 13000        |  |
|                          | lm]   |  |
| Cap base                 | - [-]   |  |
| Light source replaceable | Yes   |  |
| Number of gear units     | Unit  |  |
| Gear                     | EB [Electronic]                                 |  |
| 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.  |  |
| Product family code           | BY470P [GentleSpace 2]                          |  |
| Lighting Technology           | LED   |  |
| Embedded control              | -   |  |
| CE mark                       | Yes   |  |
| Warranty period               | 5 years   |  |
| Flammability mark             | For mounting on easily flammable surfaces       |  |
| ENEC mark                     | ENEC mark                                       |  |
| Glow-wire test                | Temperature 850 °C, duration 5 s                |  |
| EU RoHS compliant             | Yes   |  |
|                               |   |  |
| Light Technical               |   |  |
| Luminous Flux                 | 13,000 lm                                       |  |
| Correlated Colour Temperature | 4000 K  |  |
|                               |   |  |

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| Luminous efficacy (rated) (nom.)       | 149 lm/W                                   | Overall height                             | 130 mi  |
|--|--|--|---------|
| Colour rendering index (CRI)           | ≥80  | Dimensions (height x width x depth)        | 130 x 3 |
| Beam angle of light source             | 114 degree(s)                              |  |         |
| Light source colour                    | 840 neutral white                          | Approval and Application                   |         |
| Optic type                             | Wide beam                                  | Ingress protection code                    | IP65 [I |
| Optical cover type                     | Polycarbonate bowl/cover                   | Mech. impact protection code               | IK07 [2 |
| Luminaire light beam spread            | 42° x 44°                                  | Protection class IEC                       | Safety  |
| Unified Glare Rating (CEN)             | 25   |  |         |
|  |  | Initial Performance (IEC Compliant)        |         |
| Operating and Electrical               |  | Luminous flux tolerance                    | +/-7%   |
| Input Voltage                          | 220-240 V                                  | Initial chromaticity                       | (0.38,  |
| Line Frequency                         | 50 to 60 Hz                                | Power consumption tolerance                | +/-11%  |
| Inrush current                         | 4.8 A                                      |  |         |
| Inrush time                            | 2.3 ms                                     | Over Time Performance (IEC Compliant)      |         |
| Power Consumption                      | 87 W                                       | Control gear failure rate at median useful | 5 %     |
| Power Factor (Fraction)                | 0.9  | life 50,000 h                              |         |
| Connection                             | External connector                         | Control gear failure rate at median useful | 10 %    |
| Cable                                  | Cord with plug Wieland/Adels compatible 5- | life 100,000 h                             |         |
|  | pole                                       | Lumen maintenance at median useful         | L85     |
| Number of products on MCB of 16 A type | 12   | life* 50,000 h                             |         |
| В                                      |  | Lumen maintenance at median useful         | L70     |
|  |  | life* 100,000 h                            |         |
| Temperature                            |  |  |         |
| Ambient temperature range              | -30 to +45 °C                              | Application Conditions                     |         |
|  |  | Performance ambient temperature Tq         | 25 °C   |
| Controls and Dimming                   |  | Maximum dim level                          | 10%     |
| Dimmable                               | Yes  | Suitable for random switching              | No      |
| Driver/power unit/transformer          | Power supply unit with DALI interface      |  |         |
| Control interface                      | DALI                                       | Product Data                               |         |
| Constant light output                  | No   | Order product name                         | BY470   |
|  |  | Full product name                          | BY470   |
| Mechanical and Housing                 |  | Full EOC                                   | 871869  |
| Housing material                       | Aluminium                                  | Order code                                 | 32209   |
| Reflector material                     | -  | Material no. (12 NC)                       | 91093   |
| Optic material                         | Acrylate                                   | SAP numerator – quantity per pack          | 1       |
| Optical cover/lens material            | Polymethyl methacrylate                    | EAN/UPC — Product/Case                     | 871869  |
| Fixation material                      | Steel                                      | Numerator – packs per outer box            | 1       |
| Housing Colour                         | Silver                                     | EAN/UPC - Case                             | 87186   |
| Optical cover/lens finish              | Clear                                      |  |         |
| Overall length                         | 450 mm                                     |  |         |
| Overall width                          | 350 mm                                     |  |         |
|  |  |  |         |

130 mm

+/-11%

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871869632209300 32209300 910930205968

8718696322093

8718696322093

130 x 350 x 450 mm

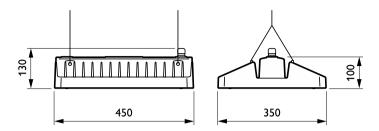
IK07 [2 J reinforced] Safety class I

(0.38, 0.38) SDCM <3

IP65 [Dust penetration-protected, jet-proof]

### GentleSpace gen2

#### Dimensional drawing





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