



# **GentleSpace gen2**

### **BY471P GRN170S/840 PSD A50 G MBW WH SWP**

GentleSpace 2, LED GreenLine system flux 17000 lm, 840 neutral white, Power supply unit with DALI interface, Asymmetrical mirror axis angle 50°, Glass, White

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         | GRN170S [LED GreenLine system flux 17000        |
|                          | 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           | BY471P [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                 | 17,000 lm                                       |
| Correlated Colour Temperature | 4000 K  |
|                               |   |

Datasheet, 2023, April 29 data subject to change

## GentleSpace gen2

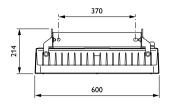
| Luminous efficacy (rated) (nom.)       | 155 lm/W                                  |
|--|---|
| Colour rendering index (CRI)           | ≥80                                       |
| Beam angle of light source             | 114 degree(s)                             |
| Light source colour                    | 840 neutral white                         |
| Optic type                             | Asymmetrical mirror axis angle 50°        |
| Optical cover type                     | Glass                                     |
| Luminaire light beam spread            | 56° x 33°                                 |
| Unified Glare Rating (CEN)             | Not applicable                            |
|  |   |
| Operating and Electrical               |   |
| Input Voltage                          | 220-240 V                                 |
| Line Frequency                         | 50 to 60 Hz                               |
| Inrush current                         | 4.8 A                                     |
| Inrush time                            | 2.3 ms                                    |
| Power Consumption                      | 110 W                                     |
| Power Factor (Fraction)                | 0.9                                       |
| Connection                             | External connector                        |
| Cable                                  | Cord with plug Wieland/Adels compatible 5 |
|  | pole                                      |
| Number of products on MCB of 16 A type | 12  |
| В                                      |   |
|  |   |
| Temperature                            |   |
| Ambient temperature range              | -30 to +45 °C                             |
|  |   |
| Controls and Dimming                   |   |
| Dimmable                               | Yes                                       |
| Driver/power unit/transformer          | Power supply unit with DALI interface     |
| Control interface                      | DALI                                      |
| Constant light output                  | No  |
|  |   |
| Mechanical and Housing                 |   |
| Housing material                       | Aluminium                                 |
| Reflector material                     | -   |
| Optic material                         | Acrylate                                  |
| Optical cover/lens material            | Glass                                     |
| Fixation material                      | Steel                                     |
| Housing Colour                         | White                                     |
| Optical cover/lens finish              | Clear                                     |
| Overall length                         | 600 mm                                    |
| Overall width                          |   |
| Overall width                          | 450 mm                                    |
| Overall height                         | 450 mm<br>150 mm                          |

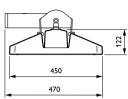
| Dimensions (height x width x depth)                                 | 150 x 450 x 600 mm                           |
|---|--|
| Approval and Application  |  |
| Ingress protection code   | IP65 [Dust penetration-protected, jet-proof] |
| Mech. impact protection code  | IK07 [2 J reinforced]                        |
| Protection class IEC  | Safety class I                               |
|   |  |
| Initial Performance (IEC Compliant)                                 |  |
| Luminous flux tolerance   | +/-7%  |
| Initial chromaticity  | (0.38, 0.38) SDCM <3                         |
| Power consumption tolerance   | +/-11%                                       |
| Over Time Performance (IEC Compli                                   | iant)  |
| Control gear failure rate at median useful                          | 5 %  |
| life 50,000 h   |  |
| Control gear failure rate at median useful                          | 10 %   |
| life 100,000 h  |  |
| Lumen maintenance at median useful                                  | L85  |
| life* 50,000 h  |  |
| Lumen maintenance at median useful                                  | L70  |
| life* 100,000 h   |  |
|   |  |
| Application Conditions  |  |
| Performance ambient temperature Tq                                  | 25 ℃   |
| Maximum dim level   | 10%  |
| Suitable for random switching                                       | Yes  |
|   |  |
| Product Data  |  |
| Order product name  | BY471P GRN170S/840 PSD A50 G MBW WH          |
|   | SWP  |
| Full product name   | BY471P GRN170S/840 PSD A50 G MBW WH          |
|   | SWP  |
| Full EOC  | 871869634599300                              |
|   |  |
| Order code  | 34599300                                     |
|   | 910925863186                                 |
| Order code  |  |
| Order code<br>Material no. (12 NC)                                  | 910925863186                                 |
| Order code  Material no. (12 NC)  SAP numerator – quantity per pack | 910925863186                                 |

### GentleSpace gen2

#### Dimensional drawing









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