



# GentleSpace gen2

BY471P GRN250S/840 PSD A50 G MBW SI

GentleSpace 2, LED GreenLine system flux 25000 lm, 840 neutral white, Power supply unit with DALI interface, Asymmetrical mirror axis angle 50°, Glass, 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 continues to improve even further: an improved total cost of ownership, even in extreme conditions with the the GS-2 Xtreme version, which can be used up to +60 °C or 100,000 hrs of lifetime (L80), both ensured by an integrated over-heat protection. In addition, a wide variety of options – e.g. optics, coatings, mounting possibilities, cover materials and suitable for explosive zones 2/22 – are available to ensure an ideal solution for your application. Additionally, the GentleSpace gen2 can be equipped for use in a central emergency grid (PSED).

## Product data

| General Information      |  |   |   |
|--------------------------|--|---|---|
| Lamp family code         | GRN250S [LED GreenLine system flux 25000 lm]   | maintenance between B50 and for example B10. Therefore, the median useful life (B50) value also represents the B10 value. |   |
| Cap-Base                 | - [-]  | Service tag   | Yes                                       |
| Light source replaceable | Yes  | Product family code   | BY471P [GentleSpace 2]                    |
| Number of gear units     | 2 units  | Lighting Technology   | LED                                       |
| Gear                     | EB [Electronic]  | Glow-wire test  | Temperature 850 °C, duration 5 s          |
| Driver included          | Yes  | Flammability mark   | For mounting on easily flammable surfaces |
| Remarks                  | *-Per Lighting Europe guidance paper "Evaluating performance of LED based luminaires - January 2018": statistically there is no relevant difference in lumen | CE mark   | Yes                                       |
|                          |  | ENEC mark   | ENEC mark                                 |
|                          |  | Warranty period   | 5 years                                   |
|                          |  | EU RoHS compliant   | Yes                                       |

## GentleSpace gen2

|                  |   |
|------------------|---|
| Embedded control | - |
|------------------|---|

### Light Technical

|                                    |                                    |
|------------------------------------|------------------------------------|
| Luminous Flux                      | 25,000 lm                          |
| Correlated Color Temperature (Nom) | 4000 K                             |
| Luminous Efficacy (rated) (Nom)    | 152 lm/W                           |
| Color rendering index (CRI)        | ≥80                                |
| Number of light sources            | 16                                 |
| Beam angle of light source         | 114 degree(s)                      |
| Light source color                 | 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          | 9.6 A  |
| Inrush time             | 2.3 ms   |
| Power Consumption       | 164 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 B 6

### 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       | Aluminum |
| Reflector material     | -        |
| Optic material         | Acrylate |
| Optical cover material | Glass    |
| Fixation material      | Steel    |
| Housing Color          | Silver   |

|                                     |                    |
|-------------------------------------|--------------------|
| Optical cover finish                | Clear              |
| Overall length                      | 600 mm             |
| Overall width                       | 450 mm             |
| Overall height                      | 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 Compliant)

|  |      |
|--|------|
| Control gear failure rate at median useful life 50000 h  | 5 %  |
| Control gear failure rate at median useful life 100000 h | 10 % |
| Lumen maintenance at median useful life* 50000 h         | L85  |
| Lumen maintenance at median useful life* 100000 h        | L70  |

### Application Conditions

|                                    |       |
|------------------------------------|-------|
| Performance ambient temperature Tq | 25 °C |
| Maximum dim level                  | 10%   |
| Suitable for random switching      | Yes   |

### Product Data

|                                 |                                     |
|---------------------------------|-------------------------------------|
| Order product name              | BY471P GRN250S/840 PSD A50 G MBW SI |
| Full product name               | BY471P GRN250S/840 PSD A50 G MBW SI |
| Full product code               | 871869634594800                     |
| Order code                      | 910925863181                        |
| Material Nr. (12NC)             | 910925863181                        |
| Numerator - Quantity Per Pack   | 1                                   |
| EAN/UPC - Product/Case          | 8718696345948                       |
| Numerator - Packs per outer box | 1                                   |
| EAN/UPC - Case                  | 8718696345948                       |

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### Dimensional drawing

