



# GentleSpace gen2

## BY471P GRN170S/840 PSD MB AC SI

GentleSpace 2, LED GreenLine system flux 17000 lm, 840 neutral white, Power supply unit with DALI interface, Medium beam, Acrylic 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         | GRN170S [LED GreenLine system flux 17000 lm]   | Service tag                        | Yes                                       |
| Cap-Base                 | - [-]  | Product family code                | BY471P [GentleSpace 2]                    |
| Light source replaceable | Yes  | Lighting Technology                | LED                                       |
| Number of gear units     | 1 unit   | Embedded control                   | -   |
| Gear                     | EB [Electronic]  | CE mark                            | Yes                                       |
| Driver included          | Yes  | Warranty period                    | 5 years                                   |
| Remarks                  | *-Per Lighting Europe guidance paper "Evaluating performance of LED based luminaires - January 2018": statistically there is no relevant difference in lumen maintenance between B50 and for example B10. Therefore, the median useful life (B50) value also represents the B10 value. | Flammability mark                  | For mounting on easily flammable surfaces |
|                          |  | ENEC mark                          | ENEC mark                                 |
|                          |  | Glow-wire test                     | Temperature 650 °C, duration 5 s          |
|                          |  | EU RoHS compliant                  | Yes                                       |
| Light Technical          |  |                                    |   |
|                          |  | Luminous Flux                      | 17,000 lm                                 |
|                          |  | Correlated Color Temperature (Nom) | 4000 K                                    |
|                          |  | Luminous Efficacy (rated) (Nom)    | 155 lm/W                                  |

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|                             |                    |
|-----------------------------|--------------------|
| Color rendering index (CRI) | ≥80                |
| Number of light sources     | 12                 |
| Beam angle of light source  | 114 degree(s)      |
| Light source color          | 840 neutral white  |
| Optic type                  | Medium beam        |
| Optical cover type          | Acrylic bowl/cover |
| Luminaire light beam spread | 40° x 40°          |
| Unified glare rating CEN    | 25                 |

### 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 B | 12   |

### 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 | Acrylate        |
| Fixation material      | Stainless 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      | No    |

### Product Data

|                                 |                                 |
|---------------------------------|---------------------------------|
| Order product name              | BY471P GRN170S/840 PSD MB AC SI |
| Full product name               | BY471P GRN170S/840 PSD MB AC SI |
| Full product code               | 871869632283300                 |
| Order code                      | 32283300                        |
| Material Nr. (12NC)             | 910930206043                    |
| Numerator - Quantity Per Pack   | 1                               |
| EAN/UPC - Product/Case          | 8718696322833                   |
| Numerator - Packs per outer box | 1                               |
| EAN/UPC - Case                  | 8718696322833                   |

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### Dimensional drawing

