



# GentleSpace gen2

## BY471P GRN170S/840 PSD NB PC BR SI

GentleSpace 2 - LED GreenLine system flux 17000 lm - 840 neutral white - Power supply unit with DALI interface - Narrow beam - Polycarbonate bowl/cover - Bracket - 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           |   |                             |  |
|-------------------------------|---|-----------------------------|--|
| Number of light sources       | 12 [ 12 pcs]                                  | Embedded control            | No [ -]  |
| Lamp family code              | GRN170S [ LED GreenLine system flux 17000 lm] | Control interface           | DALI   |
| Beam angle of light source    | 114 °   | Connection                  | CE [ External connector]                       |
| Light source colour           | 840 neutral white                             | Cable                       | Cord with plug Wieland/Adels compatible 5-pole |
| Cap base                      | - [ -]  | Protection class IEC        | Safety class I (I)                             |
| Light source replaceable      | Yes   | Mounting                    | BR [ Bracket]                                  |
| Number of gear units          | 1 unit  | Coating                     | -  |
| Gear                          | EB [ Electronic]                              | Glow-wire test              | 850/5 [ Temperature 850 °C, duration 5 s]      |
| Driver/power unit/transformer | PSD [ Power supply unit with DALI interface]  | Flammability mark           | D [ For mounting on easily flammable surfaces] |
| Driver included               | Yes   | CE mark                     | CE mark  |
| Optic type                    | NB [ Narrow beam]                             | ENEC mark                   | ENEC mark                                      |
| Optical cover/lens type       | PC [ Polycarbonate bowl/cover]                | Ball impact resistance mark | Ball Impact Resistance mark                    |
| Luminaire light beam spread   | 26° x 31°                                     | Design award-winner marking | Design Award Winner 2014                       |

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|                           |   |
|---------------------------|---|
| Warranty period           | 5 years   |
| Suspension accessories    | No [-]  |
| 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. |
| Constant light output     | No  |
| Number of products on MCB | 12  |
| EU RoHS compliant         | Yes   |
| Product Family Code       | BY471P [ GentleSpace 2]   |
| Unified glare rating CEN  | 19  |

### Operating and Electrical

|                        |                |
|------------------------|----------------|
| Input voltage          | 220-240 V      |
| Input frequency        | 50 to 60 Hz    |
| Control signal voltage | 0-16 V DC DALI |
| Inrush current         | 4.8 A          |
| Inrush time            | 2.3 ms         |
| Power factor (min.)    | 0.9            |

### Controls and Dimming

|          |     |
|----------|-----|
| Dimmable | Yes |
|----------|-----|

### Mechanical and Housing

|                                     |   |
|-------------------------------------|---|
| Housing material                    | Aluminum                                  |
| Reflector material                  | -   |
| Optic material                      | Acrylate                                  |
| Optical cover/lens material         | Polymethyl methacrylate                   |
| Gear tray material                  | Steel                                     |
| Fixation material                   | Steel                                     |
| Optical cover/lens finish           | Clear                                     |
| Overall length                      | 600 mm                                    |
| Overall width                       | 450 mm                                    |
| Overall height                      | 150 mm                                    |
| Colour                              | Silver                                    |
| Dimensions (height x width x depth) | 150 x 450 x 600 mm (5.9 x 17.7 x 23.6 in) |

### Approval and Application

|                         |   |
|-------------------------|---|
| Ingress protection code | IP65 [ Dust penetration-protected, jet-proof] |
|-------------------------|---|

|                              |                        |
|------------------------------|------------------------|
| Mech. impact protection code | IK07 [ 2 J reinforced] |
|------------------------------|------------------------|

### Initial Performance (IEC Compliant)

|                                |                      |
|--------------------------------|----------------------|
| Initial luminous flux          | 17000 lm             |
| Luminous flux tolerance        | +/-7%                |
| Initial LED luminaire efficacy | 155 lm/W             |
| Init. Corr. Colour Temperature | 4000 K               |
| Init. colour rendering index   | ≥80                  |
| Initial chromaticity           | (0.38, 0.38) SDCM <3 |
| Initial input power            | 110 W                |
| Power consumption tolerance    | +/-11%               |

### Over Time Performance (IEC Compliant)

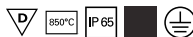
|   |      |
|---|------|
| Control gear failure rate at median useful life 50,000 h  | 5 %  |
| Control gear failure rate at median useful life 100,000 h | 10 % |
| Lumen maintenance at median useful life* 50,000 h         | L85  |
| Lumen maintenance at median useful life* 100,000 h        | L70  |

### Application Conditions

|                                    |               |
|------------------------------------|---------------|
| Ambient temperature range          | -30 to +45 °C |
| Performance ambient temperature Tq | 25 °C         |
| Maximum dimming level              | 10%           |
| Suitable for random switching      | No            |

### Product Data

|                                 |                                    |
|---------------------------------|------------------------------------|
| Full product code               | 871869632214700                    |
| Order product name              | BY471P GRN170S/840 PSD NB PC BR SI |
| EAN/UPC – product               | 8718696322147                      |
| Order code                      | 32214700                           |
| Numerator – quantity per pack   | 1                                  |
| Numerator – packs per outer box | 1                                  |
| Material no. (12NC)             | 910930205973                       |
| Net weight (piece)              | 17.000 kg                          |



## GentleSpace gen2

### Dimensional drawing



GentleSpace gen2 BY470P-BY473P

