



# GentleSpace gen2

## BY471P GRN170S/840 PSD MB GC SI

GentleSpace 2 - LED GreenLine system flux 17000 lm - 840 neutral white - Power supply unit with DALI interface - Medium beam - Clear 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           |   | Optic type                  | Medium beam                                    |
|-------------------------------|---|-----------------------------|--|
| Number of light sources       | 12 pcs  | Optical cover/lens type     | Clear glass                                    |
| Lamp family code              | GRN170S [ LED GreenLine system flux 17000 lm] | Luminaire light beam spread | 40° x 40°                                      |
| Beam angle of light source    | 114°  | Embedded control            | -  |
| Light source color            | 840 neutral white                             | Control interface           | DALI   |
| Cap-Base                      | - [-]   | Connection                  | External connector                             |
| Light source replaceable      | Yes   | Cable                       | Cord with plug Wieland/Adels compatible 5-pole |
| Number of gear units          | 1 unit  | Protection class IEC        | Safety class I                                 |
| Gear                          | EB [ Electronic]                              | Mounting                    | Suspension set twin, triangle                  |
| Driver/power unit/transformer | Power supply unit with DALI interface         | Coating                     | -  |
| Driver included               | Yes   | Glow-wire test              | Temperature 850 °C, duration 5 s               |

## GentleSpace gen2

|  |  |
|--|--|
| Flammability mark                        | For mounting on easily flammable surfaces  |
| CE mark                                  | CE mark  |
| ENEC mark                                | ENEC mark  |
| Ball impact resistance mark              | -  |
| Design Award Winner mark                 | Design Award Winner 2014   |
| Warranty period                          | 5 years  |
| Suspension accessories                   | -  |
| Remarks                                  | *-Per Lighting Europe guidance paper<br>"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 of 16 A type B | 12   |
| RoHS mark                                | RoHS mark  |
| Product family code                      | BY471P [ GentleSpace 2]  |
| Unified glare rating CEN                 | 25   |

### 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 | Glass           |
| Gear tray material          | Steel           |
| Fixation material           | Stainless steel |
| Optical cover/lens finish   | Clear           |
| Overall length              | 600 mm          |
| Overall width               | 450 mm          |
| Overall height              | 150 mm          |
| Color                       | Silver          |

### 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 (system flux) | 17000 lm             |
| Luminous flux tolerance             | +/-7%                |
| Initial LED luminaire efficacy      | 155 lm/W             |
| Init. Corr. Color Temperature       | 4000 K               |
| Init. Color 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 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

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

### Product Data

|                                 |                                 |
|---------------------------------|---------------------------------|
| Full product code               | 871869632190400                 |
| Order product name              | BY471P GRN170S/840 PSD MB GC SI |
| EAN/UPC - Product               | 8718696321904                   |
| Order code                      | 910930205949                    |
| Numerator - Quantity Per Pack   | 1                               |
| Numerator - Packs per outer box | 1                               |
| Material Nr. (12NC)             | 910930205949                    |
| Net Weight (Piece)              | 15.200 kg                       |

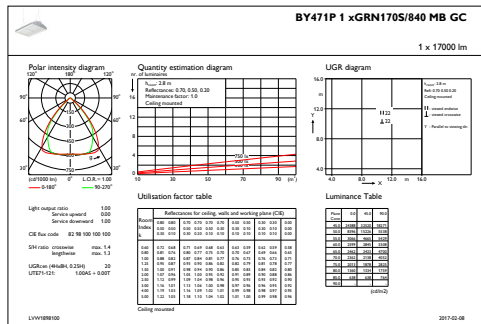
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## Dimensional drawing

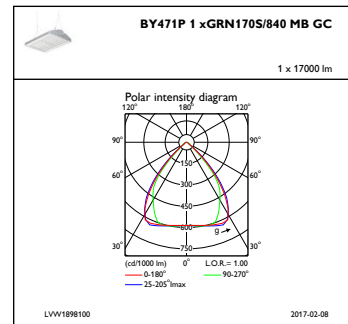


**GentleSpace gen2 BY470P-BY473P**

## Photometric data



**IFGU1\_BY471P1xGRN170S840MBGC**



**IFPC1\_BY471P1xGRN170S840MBGC**

