



# GentleSpace gen2

## BY471P GRN170S/840 PSD NB GC SI

GentleSpace 2, LED GreenLine system flux 17000 lm, 840 neutral white, Power supply unit with DALI interface, Narrow 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 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 850 °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                  | Narrow beam       |
| Optical cover type          | Clear glass       |
| Luminaire light beam spread | 26° x 31°         |
| Unified glare rating CEN    | 19                |

### 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<br>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 | Glass           |
| 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 NB GC SI |
| Full product name               | BY471P GRN170S/840 PSD NB GC SI |
| Full product code               | 871869632191100                 |
| Order code                      | 32191100                        |
| Material Nr. (12NC)             | 910930205950                    |
| Numerator - Quantity Per Pack   | 1                               |
| EAN/UPC - Product/Case          | 8718696321911                   |
| Numerator - Packs per outer box | 1                               |
| EAN/UPC - Case                  | 8718696321911                   |

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### Dimensional drawing

