



# GentleSpace gen2

## BY470P GRN130S/840 PSD MB GC SI

GentleSpace 2, LED GreenLine system flux 13000 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      |                                                                                                                                                              |                                                                                                                           |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Lamp family code         | GRN130S [LED GreenLine system flux 13000 lm]                                                                                                                 | maintenance between B50 and for example B10. Therefore, the median useful life (B50) value also represents the B10 value. |
| Cap-Base                 | - [-]                                                                                                                                                        |                                                                                                                           |
| Light source replaceable | Yes                                                                                                                                                          |                                                                                                                           |
| Number of gear units     | 1 unit                                                                                                                                                       |                                                                                                                           |
| Gear                     | EB [Electronic]                                                                                                                                              |                                                                                                                           |
| Driver included          | Yes                                                                                                                                                          |                                                                                                                           |
| Remarks                  | *-Per Lighting Europe guidance paper "Evaluating performance of LED based luminaires - January 2018": statistically there is no relevant difference in lumen |                                                                                                                           |
| Service tag              | Yes                                                                                                                                                          |                                                                                                                           |
| Product family code      | BY470P [GentleSpace 2]                                                                                                                                       |                                                                                                                           |
| Lighting Technology      | LED                                                                                                                                                          |                                                                                                                           |
| Glow-wire test           | Temperature 850 °C, duration 5 s                                                                                                                             |                                                                                                                           |
| Flammability mark        | For mounting on easily flammable surfaces                                                                                                                    |                                                                                                                           |
| CE mark                  | Yes                                                                                                                                                          |                                                                                                                           |
| ENEC mark                | ENEC mark                                                                                                                                                    |                                                                                                                           |
| Warranty period          | 5 years                                                                                                                                                      |                                                                                                                           |
| EU RoHS compliant        | Yes                                                                                                                                                          |                                                                                                                           |

## GentleSpace gen2

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

### Light Technical

|                                    |                   |
|------------------------------------|-------------------|
| Luminous Flux                      | 13,000 lm         |
| Correlated Color Temperature (Nom) | 4000 K            |
| Luminous Efficacy (rated) (Nom)    | 149 lm/W          |
| Color rendering index (CRI)        | ≥80               |
| Number of light sources            | 8                 |
| Beam angle of light source         | 114 degree(s)     |
| Light source color                 | 840 neutral white |
| Optic type                         | Medium beam       |
| Optical cover type                 | Clear glass       |
| 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       | 87 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                      | 450 mm             |
| Overall width                       | 350 mm             |
| Overall height                      | 130 mm             |
| Dimensions (Height x Width x Depth) | 130 x 350 x 450 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              | BY470P GRN130S/840 PSD MB GC SI |
| Full product name               | BY470P GRN130S/840 PSD MB GC SI |
| Full product code               | 871869632181200                 |
| Order code                      | 910930205940                    |
| Material Nr. (12NC)             | 910930205940                    |
| Numerator - Quantity Per Pack   | 1                               |
| EAN/UPC - Product/Case          | 8718696321812                   |
| Numerator - Packs per outer box | 1                               |
| EAN/UPC - Case                  | 8718696321812                   |

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### Dimensional drawing

