



GentleSpace gen2

BY470P GRN130S/840 PSD HRO PC BR SI

GentleSpace 2, LED GreenLine system flux 13000 lm, 840 neutral white, Power supply unit with DALI interface, High-rack optic, Polycarbonate 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 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 | - [-] | Service tag | Yes |
| Light source replaceable | Yes | Product family code | BY470P [GentleSpace 2] |
| Number of gear units | 1 unit | Lighting Technology | LED |
| Gear | EB [Electronic] | Glow-wire test | Temperature 850 °C, duration 5 s |
| Driver included | Yes | Flammability mark | For mounting on easily flammable surfaces |
| Remarks | *-Per Lighting Europe guidance paper "Evaluating performance of LED based luminaires - January 2018": statistically there is no relevant difference in lumen | 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 | High-rack optic |
| Optical cover type | Polycarbonate bowl/cover |
| Luminaire light beam spread | 16° x 47° |
| Unified glare rating CEN | Not applicable |

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 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 | Polymethyl methacrylate |
| Fixation material | 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 HRO PC BR SI |
| Full product name | BY470P GRN130S/840 PSD HRO PC BR SI |
| Full product code | 871869632263500 |
| Order code | 910930206023 |
| Material Nr. (12NC) | 910930206023 |
| Numerator - Quantity Per Pack | 1 |
| EAN/UPC - Product/Case | 8718696322635 |
| Numerator - Packs per outer box | 1 |
| EAN/UPC - Case | 8718696322635 |

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Dimensional drawing

