



GentleSpace gen2

BY470P GRN130S/840 PSD WB PC BR SI

GentleSpace 2 - LED GreenLine system flux 13000 lm - Power supply unit with DALI interface - Wide 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 | 8 [8 pcs] | Embedded control | No [-] |
| Lamp family code | GRN130S [LED GreenLine system flux 13000 lm] | Control interface | DALI |
| Beam angle of light source | 114 ° | Connection | 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 |
| Light source replaceable | Yes | Mounting | BR [Bracket] |
| Number of gear units | 1 unit | Coating | - |
| Gear | EB [Electronic] | Glow-wire test | 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 | WB [Wide 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 | 42° x 44° | 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 | BY470P [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

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|----------|-----|
| Dimmable | Yes |
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Mechanical and Housing

| | |
|-------------------------------------|---|
| Housing material | Aluminium |
| 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 | 450 mm |
| Overall width | 350 mm |
| Overall height | 130 mm |
| Colour | Silver |
| Dimensions (height x width x depth) | 130 x 350 x 450 mm (5.1 x 13.8 x 17.7 in) |

Approval and Application

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

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

Initial Performance (IEC Compliant)

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|--------------------------------|----------------------|
| Initial luminous flux | 13000 lm |
| Luminous flux tolerance | +/-7% |
| Initial LED luminaire efficacy | 149 lm/W |
| Init. Corr. Colour Temperature | 4000 K |
| Init. colour rendering index | ≥80 |
| Initial chromaticity | (0.38, 0.38) SDCM <3 |
| Initial input power | 87 W |
| Power consumption tolerance | +/-11% |

Over Time Performance (IEC Compliant)

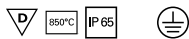
| | |
|---|------|
| Control gear failure rate at median useful life 50,000 h | 5 % |
| Control gear failure rate at median useful life 100,000 h | 10 % |
| Lumen maintenance at median useful life* 50,000 h | L85 |
| Lumen maintenance at median useful life* 100,000 h | L70 |

Application Conditions

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

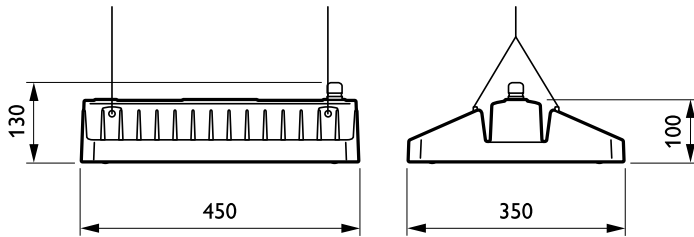
Product Data

| | |
|---------------------------------|------------------------------------|
| Full product code | 871869632209300 |
| Order product name | BY470P GRN130S/840 PSD WB PC BR SI |
| EAN/UPC – product | 8718696322093 |
| Order code | 32209300 |
| Numerator – quantity per pack | 1 |
| Numerator – packs per outer box | 1 |
| Material no. (12NC) | 910930205968 |
| Net weight (piece) | 11.100 kg |



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Dimensional drawing



GentleSpace gen2 BY470P-BY473P

