



GentleSpace gen2

BY470P GRN130S/840 PSD MB PC BR SI

GentleSpace 2, LED GreenLine system flux 13000 lm, 840 neutral white, Power supply unit with DALI interface, Medium beam, 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 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 | GRN130S [LED GreenLine system flux 13000 lm] | | useful life (B50) value also represents the B10 value. |
| Cap base | - [-] | Product family code | BY470P [GentleSpace 2] |
| Light source replaceable | Yes | Lighting Technology | LED |
| Number of gear units | Unit | Embedded control | - |
| Gear | EB [Electronic] | CE mark | Yes |
| Driver included | Yes | Warranty period | 5 years |
| Remarks | *- According to the Lighting Europe guidance paper 'Evaluating performance of LED based luminaires – January 2018': statistically there is no relevant difference in lumen maintenance between the B50 and, for example, the B10. Therefore, the median | 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 | 13,000 lm |
| | | Correlated Colour Temperature | 4000 K |

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|----------------------------------|--------------------------|
| Luminous efficacy (rated) (nom.) | 149 lm/W |
| Colour rendering index (CRI) | ≥80 |
| Beam angle of light source | 114 degree(s) |
| Light source colour | 840 neutral white |
| Optic type | Medium beam |
| Optical cover type | Polycarbonate bowl/cover |
| Luminaire light beam spread | 40° x 40° |
| Unified Glare Rating (CEN) | 25 |

Operating and Electrical

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|--|--|
| 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

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|-----------------------------|-------------------------|
| Housing material | Aluminium |
| Reflector material | - |
| Optic material | Acrylate |
| Optical cover/lens material | Polymethyl methacrylate |
| Fixation material | Steel |
| Housing Colour | Silver |
| Optical cover/lens 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)

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|-----------------------------|----------------------|
| Luminous flux tolerance | +/-7% |
| Initial chromaticity | (0.38, 0.38) SDCM <3 |
| Power consumption tolerance | +/-11% |

Over Time Performance (IEC Compliant)

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|---|------|
| 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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|------------------------------------|-------|
| 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 PC BR SI |
| Full product name | BY470P GRN130S/840 PSD MB PC BR SI |
| Full EOC | 871869632210900 |
| Order code | 32210900 |
| Material no. (12 NC) | 910930205969 |
| SAP numerator – quantity per pack | 1 |
| EAN/UPC – Product/Case | 8718696322109 |
| Numerator – packs per outer box | 1 |
| EAN/UPC – Case | 8718696322109 |

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Dimensional drawing

