# GentleSpace gen2

## BY471P ECO250S/840 PSD MB GC SI

GentleSpace 2, LED EconomyLine 25000 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 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 | ECO250 [LED EconomyLine 25000 lm] |
| Cap base | - [-] |
| Light source replaceable | Yes |
| Number of gear units | 2 units |
| Gear | EB [Electronic] |
| Driver included | Yes |
| 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 useful life (B50) value also represents the B10 value. |

| | |
|---|---|
| Product family code | BY471P [GentleSpace 2] |
| Lighting Technology | LED |
| Embedded control | - |
| CE mark | Yes |
| Warranty period | 5 years |
| Flammability mark | For mounting on easily flammable surfaces |
| ENEC mark | ENEC mark |
| Glow-wire test | Temperature 650 °C, duration 5 s |
| EU RoHS compliant | Yes |

### Light Technical

| | |
|---|---|
| Luminous Flux | 25,000 lm |
| Correlated Colour Temperature | 4000 K |
| Luminous efficacy (rated) (nom.) | 144 lm/W |
| Colour rendering index (CRI) | ≥80 |

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| | |
|---|---|
| Beam angle of light source | 114 degree(s) |
| Light source colour | 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 | 9.6 A |
| Inrush time | 2.3 ms |
| Power Consumption | 177 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 | 6 |

## 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 | Aluminium |
| Reflector material | – |
| Optic material | Acrylate |
| Optical cover/lens material | Glass |
| Fixation material | Stainless steel |
| Housing Colour | Silver |
| Optical cover/lens 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 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 | L80 |
| Lumen maintenance at median useful life* 100,000 h | L65 |

## Application Conditions

| | |
|---|---|
| Performance ambient temperature Tq | 25 °C |
| Maximum dim level | 10% |
| Suitable for random switching | No |

## Product Data

| | |
|---|---|
| Order product name | BY471P ECO250S/840 PSD MB GC SI |
| Full product name | BY471P ECO250S/840 PSD MB GC SI |
| Full EOC | 871869634792800 |
| Order code | 34792800 |
| Material no. (12 NC) | 910925863381 |
| SAP numerator – quantity per pack | 1 |
| EAN/UPC — Product/Case | 8718696347928 |
| Numerator – packs per outer box | 1 |
| EAN/UPC – Case | 8718696347928 |

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**Dimensional drawing**



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