

# GentleSpace gen2

## BY470P GRN130S/840 PSD HRO GC BR SI

GentleSpace 2 - LED GreenLine system flux 13,000 lm - 840 neutral white - Power supply unit with DALI interface - High-rack optic - Clear glass - 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 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 | |
|---|---|
| **Number of light sources** | 8 pcs |
| **Lamp family code** | GRN130S [ LED GreenLine system flux 13,000 lm] |
| **Beam angle of light source** | 114 ° |
| **Light source color** | 840 neutral white |
| **Cap-Base** | - [ -] |
| **Light source replaceable** | Yes |
| **Number of gear units** | 1 unit |
| **Gear** | EB [ Electronic] |
| **Driver/power unit/transformer** | Power supply unit with DALI interface |
| **Driver included** | Yes |

| | |
|---|---|
| **Optic type** | High-rack optic |
| **Optical cover/lens type** | Clear glass |
| **Luminaire light beam spread** | 16° x 47° |
| **Embedded control** | - |
| **Control interface** | DALI |
| **Connection** | External connector |
| **Cable** | Cord with plug Wieland/Adels compatible 5-pole |
| **Protection class IEC** | Safety class I |
| **Mounting** | Bracket |
| **Coating** | - |
| **Glow-wire test** | Temperature 850 °C, duration 5 s |

# GentleSpace gen2

| | |
|---|---|
| **Flammability mark** | For mounting on easily flammable surfaces |
| **CE mark** | CE mark |
| **ENEC mark** | ENEC mark |
| **Ball impact resistance mark** | Ball Impact Resistance mark |
| **Design Award Winner mark** | Design Award Winner 2014 |
| **Warranty period** | 5 years |
| **Suspension accessories** | - |
| **Constant light output** | No |
| **Number of products on MCB of 16 A type B** | 12 |
| **RoHS mark** | RoHS mark |
| **Product family code** | BY470P [ GentleSpace 2] |

## 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

| | |
|---|---|
| **Dimmable** | Yes |

## Mechanical and Housing

| | |
|---|---|
| **Housing Material** | Aluminum |
| **Reflector material** | - |
| **Optic material** | Acrylate |
| **Optical cover/lens material** | Glass |
| **Gear tray material** | Steel |
| **Fixation material** | Steel |
| **Optical cover/lens finish** | Clear |
| **Overall length** | 450 mm |
| **Overall width** | 350 mm |
| **Overall height** | 130 mm |

## Approval and Application

| | |
|---|---|
| **Ingress protection code** | IP65 [ Dust penetration-protected, jet-proof] |
| **Mech. impact protection code** | IK07 [ 2 J reinforced] |

## Initial Performance (IEC Compliant)

| | |
|---|---|
| **Initial luminous flux (system flux)** | 13000 lm |
| **Luminous flux tolerance** | +/-7% |
| **Initial LED luminaire efficacy** | 149 lm/W |
| **Init. Corr. Color Temperature** | 4000 K |
| **Init. Color 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)

| | |
|---|---|
| **Driver failure rate at 5000 h** | 0.5 % |
| **Median useful life L70B50** | 70000 h |
| **Median useful life L80B50** | 50000 h |
| **Median useful life L90B50** | 25000 h |

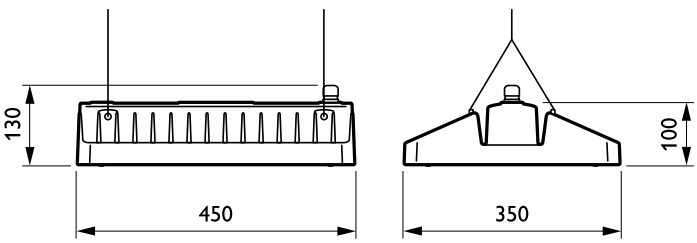
## Application Conditions

| | |
|---|---|
| **Ambient temperature range** | -30 to +45 °C |
| **Average ambient temperature** | 25 °C |
| **Maximum dim level** | 10% |
| **Suitable for random switching** | No |

## Product Data

| | |
|---|---|
| **Full product code** | 871869632262800 |
| **Order product name** | BY470P GRN130S/840 PSD HRO GC BR SI |
| **EAN/UPC - Product** | 8718696322628 |
| **Order code** | 910930206022 |
| **Numerator - Quantity Per Pack** | 1 |
| **Numerator - Packs per outer box** | 1 |
| **Material Nr. (12NC)** | 910930206022 |
| **Net Weight (Piece)** | 11.100 kg |

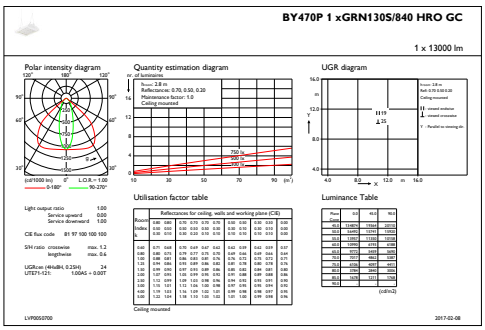
## Dimensional drawing



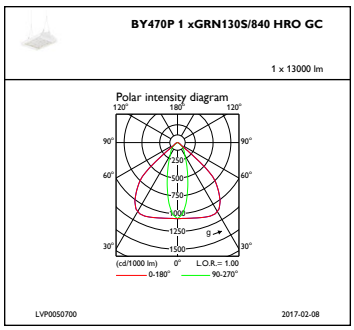

**GentleSpace gen2 BY470P/BY471P**

# GentleSpace gen2

## Photometric data




IFGU1_BY470P1xGRN130S840HROGC




IFPC1_BY470P1xGRN130S840HROGC

© 2017 Philips Lighting Holding B.V. All rights reserved. Philips Lighting reserves the right to make changes in specifications and/or to discontinue any product at any timewithout notice or obligation and will not be liable for any consequences resulting from the use of this publication.