PHILIPS

Lighting



GentleSpace gen2

BY471P GRN250S/840 PSD A50 G MBW SI

GentleSpace 2 - LED GreenLine system flux 25,000 lm - 840 neutral white - Power supply unit with DALI interface - Asymmetrical mirror axis angle 50° - 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 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	16 pcs
Lamp family code	GRN250S [LED GreenLine system flux 25,000 lm]
Beam angle of light source	114 °
Light source color	840 neutral white
Cap-Base	- [-]
Light source replaceable	Yes
Number of gear units	2 units
Gear	EB [Electronic]
Driver/power unit/transformer	Power supply unit with DALI interface
Driver included	Yes

Optic type	Asymmetrical mirror axis angle 50°
Optical cover/lens type	Glass
Luminaire light beam spread	56° x 33°
Embedded control	-
Control interface	DALI
Connection	External connector
Cable	Cord with plug Wieland/Adels compatible 5-pole
Protection class IEC	Safety class I
Mounting	Wall-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	Wall-mounting bracket
Constant light output	No
Number of products on MCB of 16 A type B	6
RoHS mark	RoHS mark
Product family code	BY471P [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	9.6 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	600 mm
Overall width	450 mm
Overall height	150 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)	25000 lm
Luminous flux tolerance	+/-7%
Initial LED luminaire efficacy	152 lm/W
Init. Corr. Color Temperature	4000 K
Init. Color Rendering Index	≥80
Initial chromaticity	(0.38, 0.38) SDCM <3
Initial input power	164 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

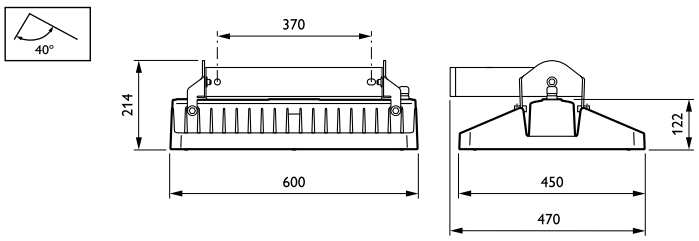
Application Conditions

Ambient temperature range	-30 to +45 °C
Average ambient temperature	25 °C
Maximum dim level	10%
Suitable for random switching	Yes (relates to presence/ movement detection and daylight harvesting)

Product Data

Full product code	871869634594800
Order product name	BY471P GRN250S/840 PSD A50 G MBW SI
EAN/UPC - Product	8718696345948
Order code	910925863181
Numerator - Quantity Per Pack	1
Numerator - Packs per outer box	1
Material Nr. (12NC)	910925863181
Net Weight (Piece)	19.400 kg

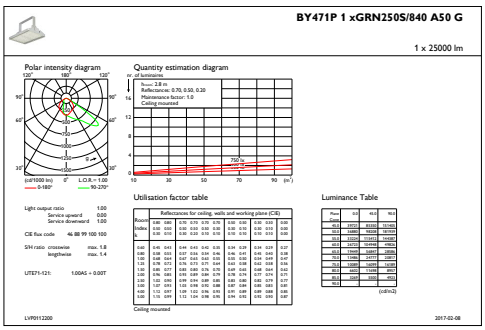
Dimensional drawing



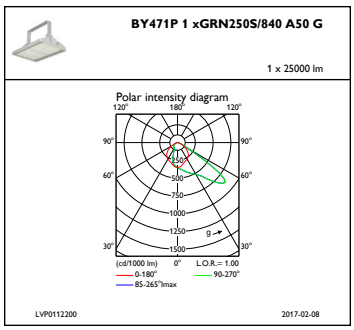
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GentleSpace gen2

Photometric data



IFGU1_BY471P1xGRN250S840A50G



IFPC1_BY471P1xGRN250S840A50G

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