PHILIPS

Lighting



GentleSpace gen2

BY471P GRN170S/840 PSD-CLO MB GC SI

GentleSpace 2 - LED GreenLine system flux 17,000 lm - 840 neutral white - Power supply unit with DALI interface and constant light output - 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 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	12 pcs
Lamp family code	GRN170S [LED GreenLine system flux 17,000 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 and constant light output

Driver included	Yes
Optic type	Medium beam
Optical cover/lens type	Clear glass
Luminaire light beam spread	40° x 40°
Embedded control	-
Control interface	DALI
Connection	External connector
Cable	Cord with plug Wieland/Adels compatible 5-pole
Protection class IEC	Safety class I
Mounting	Suspension set twin, triangle
Coating	-

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Glow-wire test	Temperature 850 °C, duration 5 s
Flammability mark	For mounting on easily flammable surfaces
CE mark	CE mark
ENEC mark	ENEC mark
Ball impact resistance mark	-
Design Award Winner mark	Design Award Winner 2014
Warranty period	5 years
Suspension accessories	-
Constant light output	Programmable
Number of products on MCB of 16 A type B	12
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
Initial CLO power consumption	88 W
Average CLO power consumption	99 W
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	Stainless 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)	17000 lm
Luminous flux tolerance	+/-7%
Initial LED luminaire efficacy	155 lm/W
Init. Corr. Color Temperature	4000 K
Init. Color Rendering Index	≥80
Initial chromaticy	(0.38, 0.38) SDCM <3
Initial input power	110 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

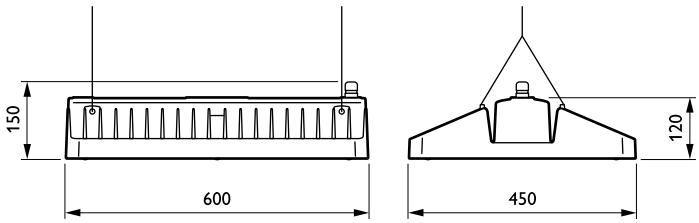
Ambient temperature range	-30 to +45 °C
Average ambient temperature	25 °C
Maximum dim level	10%
Suitable for random switching	No

Product Data

Full product code	871869632259800
Order product name	BY471P GRN170S/840 PSD-CLO MB GC SI
EAN/UPC - Product	8718696322598
Order code	910930206019
Numerator - Quantity Per Pack	1
Numerator - Packs per outer box	1
Material Nr. (12NC)	910930206019
Net Weight (Piece)	15.200 kg

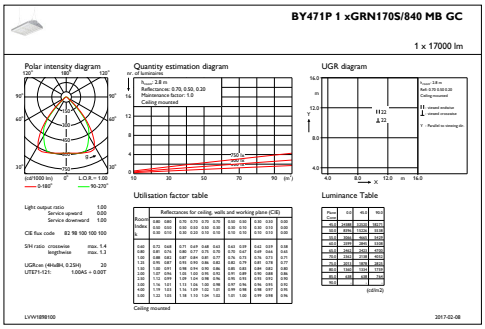
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Dimensional drawing

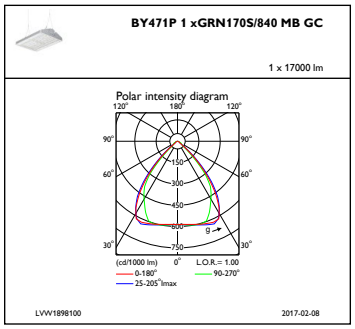


GentleSpace gen2 BY470P/BY471P

Photometric data



IFGU1_BY471P1xGRN170S840MBGC



IFPC1_BY471P1xGRN170S840MBGC

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