



GentleSpace gen2

BY470P ECO170S/840 PSD WB GC SI

GentleSpace 2 - LED EconomyLine 17000 lm - 840 neutral white - Power supply unit with DALI interface - Wide 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	Optical cover/lens type	Clear glass
Lamp family code	ECO170 [LED EconomyLine 17000 lm]	Luminaire light beam spread	44° x 42°
Beam angle of light source	114°	Embedded control	-
Light source color	840 neutral white	Control interface	DALI
Cap-Base	- [-]	Connection	External connector
Light source replaceable	Yes	Cable	Cord with plug Wieland/Adels compatible 5-pole
Number of gear units	1 unit	Protection class IEC	Safety class I
Gear	EB [Electronic]	Mounting	Suspension set twin, triangle
Driver/power unit/transformer	Power supply unit with DALI interface	Coating	-
Driver included	Yes	Glow-wire test	Temperature 650 °C, duration 5 s
Optic type	Wide beam	Flammability mark	For mounting on easily flammable surfaces

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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	-
Remarks	*-Per Lighting Europe guidance paper "Evaluating performance of LED based luminaires - January 2018": statistically there is no relevant difference in lumen maintenance between B50 and for example B10. Therefore the median useful life (B50) value also represents the B10 value.
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]
Unified glare rating CEN	25

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
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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	450 mm
Overall width	350 mm
Overall height	130 mm
Color	Silver

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	142 lm/W
Init. Corr. Color Temperature	4000 K
Init. Color Rendering Index	≥80
Initial chromaticity	(0.38, 0.38) SDCM <3
Initial input power	120 W
Power consumption tolerance	+/-11%

Over Time Performance (IEC Compliant)

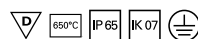
Control gear failure rate at median useful life 50000 h	5 %
Control gear failure rate at median useful life 100000 h	10 %
Lumen maintenance at median useful life* 50000 h	L80
Lumen maintenance at median useful life* 100000 h	L65

Application Conditions

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

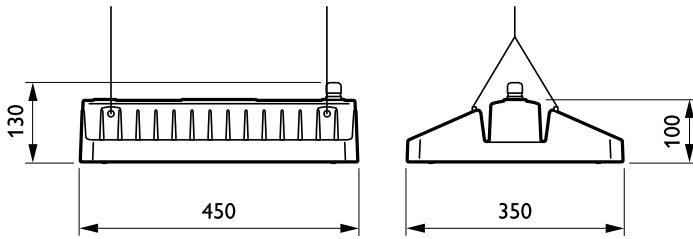
Product Data

Full product code	871869634794200
Order product name	BY470P ECO170S/840 PSD WB GC SI
EAN/UPC - Product	8718696347942
Order code	910925863383
Numerator - Quantity Per Pack	1
Numerator - Packs per outer box	1
Material Nr. (12NC)	910925863383
Net Weight (Piece)	9.300 kg



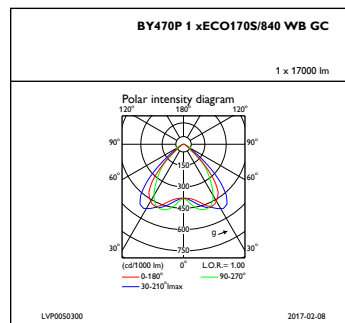
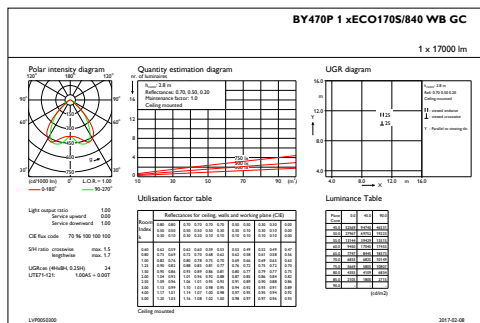
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Dimensional drawing



GentleSpace gen2 BY470P-BY473P

Photometric data



IFGU1_BY470P1xECO170S840WBGC

IFPC1_BY470P1xECO170S840WBGC

