



GentleSpace gen2

BY471P PRO250S/840 PSD WB GC SMT-HD SI X

GentleSpace 2 - LED ProfessionalLine, system flux 25000 lm - 840 neutral white - Power supply unit with DALI interface - Wide beam - Clear glass - Silver - Xtreme (high operating temperature, long lifetime)

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		Luminaire light beam spread	
Number of light sources	16 [16 pcs]	Luminaire light beam spread	44° x 42°
Lamp family code	PRO250S [LED ProfessionalLine, system flux 25000 lm]	Embedded control	No [-]
Beam angle of light source	114 °	Control interface	DALI
Light source colour	840 neutral white	Connection	External connector
Cap base	- [-]	Cable	Cord with plug Wieland/Adels compatible 5-pole
Light source replaceable	Yes	Protection class IEC	Safety class I
Number of gear units	2 units	Coating	-
Gear	EB [Electronic]	Glow-wire test	Temperature 650 °C, duration 5 s
Driver/power unit/transformer	PSD [Power supply unit with DALI interface]	Flammability mark	D [For mounting on easily flammable surfaces]
Driver included	Yes	Type description	Xtreme (high operating temperature, long lifetime)
Optic type	WB [Wide beam]	CE mark	CE mark
Optical cover/lens type	GC [Clear glass]		

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ENEC mark	ENEC mark
Ball impact resistance mark	-
Design award-winner marking	Design Award Winner 2014
Warranty period	5 years
Suspension accessories	No [-]
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	6
RoHS mark	RoHS mark
Product Family Code	BY471P [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	9.6 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	Aluminium
Reflector material	-
Optic material	Polycarbonate
Optical cover/lens material	Glass
Fixation material	Stainless steel
Optical cover/lens finish	Clear
Overall length	600 mm
Overall width	450 mm
Overall height	150 mm
Colour	Silver

Approval and Application

Ingress protection code	IP65 [Dust penetration-protected, jet-proof]
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Mech. impact protection code	IK07 [2 J reinforced]
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Initial Performance (IEC Compliant)

Initial luminous flux	25000 lm
Luminous flux tolerance	+/-7%
Initial LED luminaire efficacy	123 lm/W
Init. Corr. colour temperature	4000 K
Init. colour rendering index	≥80
Initial chromaticity	(0.38, 0.38) SDCM <3
Initial input power	191 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	L95
Lumen maintenance at median useful life* 100000 h	L85

Application Conditions

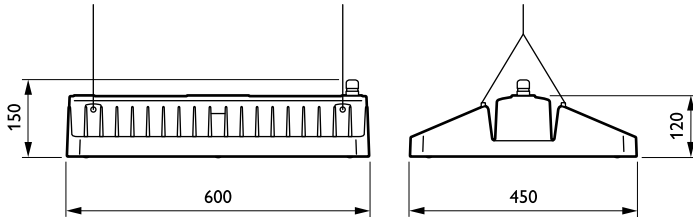
Ambient temperature range	-30 to +60 °C
Performance ambient temperature Tq	25 °C
Maximum dimming level	10%
Suitable for random switching	No

Product Data

Full product code	871869634831400
Order product name	BY471P PRO250S/840 PSD WB GC SMT-HD SI X
EAN/UPC – product	8718696348314
Order code	34831400
Numerator – quantity per pack	1
Numerator – packs per outer box	1
Material no. (12NC)	910925863421
Net weight (piece)	15.600 kg

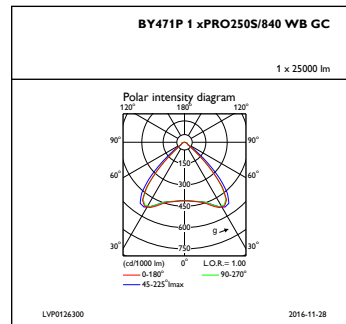
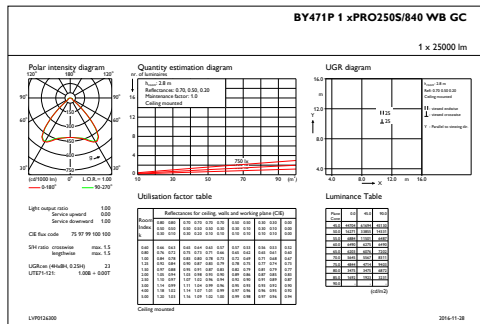
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Dimensional drawing



GentleSpace gen2 BY470P-BY473P

Photometric data



IFGU1_BY471P1xPRO250S840WBGC

IFPC1_BY471P1xPRO250S840WBGC

