

GentleSpace gen2

BY471P PRO250S/840 PSD MB GC SI XT

GentleSpace 2 - LED ProfessionalLine, system flux 25,000 lm - 840 neutral white - Power supply unit with DALI interface - 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 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	
Number of light sources	16 [16 pcs]
Lamp family code	LED ProfessionalLine, system flux 25,000 lm
Beam angle of light source	114 °
Light source colour	840 neutral white
Cap base	- [-]
Light source replaceable	Yes
Number of gear units	2 units
Gear	EB [Electronic]
Driver/power unit/transformer	PSD [Power supply unit with DALI interface]
Driver included	Yes
Optic type	MB [Medium beam]
Optical cover/lens type	GC [Clear glass]
Luminaire light beam spread	40° x 40°

Embedded control	No [-]
Control interface	DALI
Connection	CE [External connector]
Cable	Cord with plug Wieland/Adels compatible 5-pole
Protection class IEC	Safety class I (I)
Mounting	SMT [Suspension set twin, triangle]
Coating	-
Glow-wire test	650/5 [Temperature 650 °C, duration 5 s]
Flammability mark	D [For mounting on easily flammable surfaces]
CE mark	CE mark
ENEC mark	ENEC mark
Ball impact resistance mark	-
Design award-winner marking	Design Award Winner 2014
Warranty period	5 years

GentleSpace gen2

Suspension accessories	No [-]
Constant light output	No
Number of products on MCB	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	Aluminium
Reflector material	-
Optic material	Polycarbonate
Optical cover/lens material	Glass
Gear tray material	Metal
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	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)

Driver failure rate at 5,000 hours	0.5 %
Median useful life L70B50	70000 h
Median useful life L80B50	50000 h
Median useful life L90B50	25000 h

Application Conditions

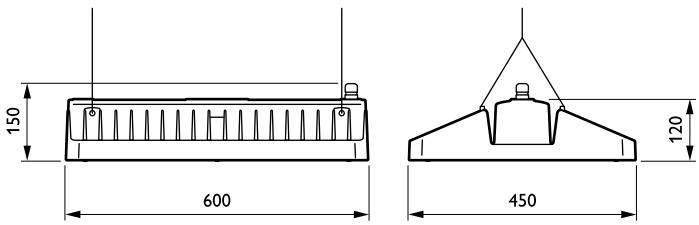
Ambient temperature range	-30 to +60 °C
Average ambient temperature	25 °C
Maximum dimming level	10%
Suitable for random switching	No

Product Data

Full product code	871869634832100
Order product name	BY471P PRO250S/840 PSD MB GC SI XT
EAN/UPC – product	8718696348321
Order code	34832100
Numerator – quantity per pack	1
Numerator – packs per outer box	1
Material no. (12NC)	910925863422
Net weight (piece)	15.600 kg



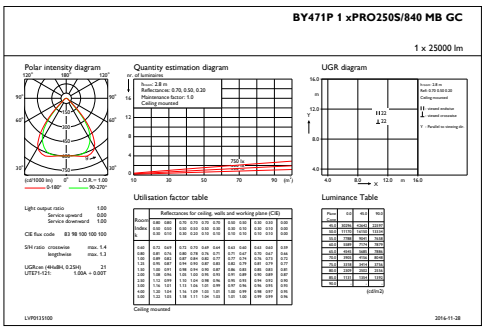
Dimensional drawing



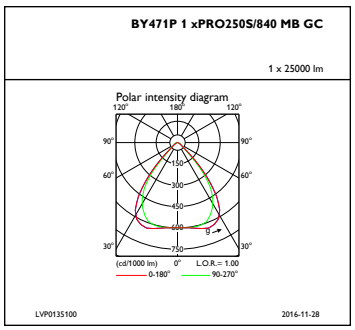
GentleSpace gen2 BY470P/BY471P

GentleSpace gen2

Photometric data



IFGU1_BY471P1xPRO250S840MBGC



IFPC1_BY471P1xPRO250S840MBGC

© 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.