



GentleSpace gen2

BY471P GRN250S/840 PSD HRO PC SI

GentleSpace 2 - LED GreenLine system flux 25000 lm - 840 neutral white - Power supply unit with DALI interface - High-rack optic - Polycarbonate bowl/cover - 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		Embedded control	No [-]
Number of light sources	16 [16 pcs]	Control interface	DALI
Lamp family code	GRN250S [LED GreenLine system flux 25000 lm]	Connection	CE [External connector]
Beam angle of light source	114 °	Cable	Cord with plug Wieland/Adels compatible 5-pole
Light source colour	840 neutral white	Protection class IEC	Safety class I (I)
Cap base	- [-]	Mounting	SMT [Suspension set twin, triangle]
Light source replaceable	Yes	Coating	-
Number of gear units	2 units	Glow-wire test	850/5 [Temperature 850 °C, duration 5 s]
Gear	EB [Electronic]	Flammability mark	D [For mounting on easily flammable surfaces]
Driver/power unit/transformer	PSD [Power supply unit with DALI interface]	CE mark	CE mark
Driver included	Yes	ENEC mark	ENEC mark
Optic type	HRO [High-rack optic]	Ball impact resistance mark	-
Optical cover/lens type	PC [Polycarbonate bowl/cover]	Design award-winner marking	Design Award Winner 2014
Luminaire light beam spread	16° x 47°		

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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
EU RoHS compliant	Yes
Product Family Code	BY471P [GentleSpace 2]
Unified glare rating CEN	Not applicable

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	Aluminum
Reflector material	-
Optic material	Acrylate
Optical cover/lens material	Polymethyl methacrylate
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
Colour	Silver
Dimensions (height x width x depth)	150 x 450 x 600 mm (5.9 x 17.7 x 23.6 in)

Approval and Application

Ingress protection code	IP65 [Dust penetrates-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	152 lm/W
Init. Corr. Colour Temperature	4000 K
Init. colour 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)

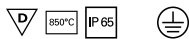
Control gear failure rate at median useful life 50,000 h	5 %
Control gear failure rate at median useful life 100,000 h	10 %
Lumen maintenance at median useful life* 50,000 h	L85
Lumen maintenance at median useful life* 100,000 h	L70

Application Conditions

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

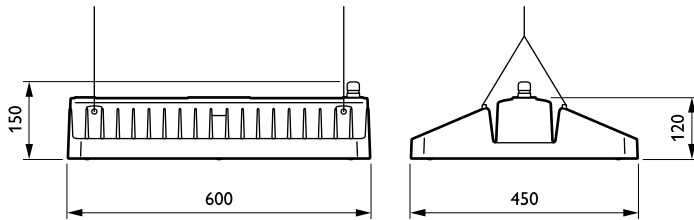
Product Data

Full product code	871869632277200
Order product name	BY471P GRN250S/840 PSD HRO PC SI
EAN/UPC – product	8718696322772
Order code	32277200
Numerator – quantity per pack	1
Numerator – packs per outer box	1
Material no. (12NC)	910930206037
Net weight (piece)	15.600 kg



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Dimensional drawing



GentleSpace gen2 BY470P-BY473P

