



GentleSpace gen2

BY471P GRN250S/840 PSD HRO AC SI

GentleSpace 2 - LED GreenLine system flux 25000 lm - 840 neutral white - Power supply unit with DALI interface - High-rack optic - Acrylic 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			
Number of light sources	16 [16 pcs]	Embedded control	No [-]
Lamp family code	GRN250S [LED GreenLine system flux 25000 lm]	Control interface	DALI
Beam angle of light source	114 °	Connection	External connector
Light source colour	840 neutral white	Cable	Cord with plug Wieland/Adels compatible 5-pole
Cap base	- [-]	Protection class IEC	Safety class I
Light source replaceable	Yes	Mounting	SMT [Suspension set twin, triangle]
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	CE mark	CE mark
Optic type	HRO [High-rack optic]	ENEC mark	ENEC mark
Optical cover/lens type	AC [Acrylic bowl/cover]	Ball impact resistance mark	-
Luminaire light beam spread	16° x 47°	Design award-winner marking	Design Award Winner 2014

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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
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	Aluminium
Reflector material	-
Optic material	Acrylate
Optical cover/lens material	Acrylate
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 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	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	871869632289500
Order product name	BY471P GRN250S/840 PSD HRO AC SI
EAN/UPC – product	8718696322895
Order code	32289500
Numerator – quantity per pack	1
Numerator – packs per outer box	1
Material no. (12NC)	910930206049
Net weight (piece)	15.600 kg



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Dimensional drawing



GentleSpace gen2 BY470P-BY473P

