



GentleSpace gen2

BY471P GRN250S/840 PSD-CLO MB GC BR SI S

GentleSpace 2 - LED GreenLine system flux 25000 lm - 840 neutral white - Power supply unit with DALI interface and constant light output - Medium beam - Bracket - Silver - Swimming pool protected coating

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		Optical cover/lens type	
Number of light sources	16 [16 pcs]	Optical cover/lens type	GC [Clear glass]
Lamp family code	GRN250S [LED GreenLine system flux 25000 lm]	Luminaire light beam spread	40° x 40°
Beam angle of light source	114 °	Embedded control	No [-]
Light source colour	840 neutral white	Control interface	DALI
Cap base	- [-]	Connection	CE [External connector]
Light source replaceable	Yes	Cable	Cord with plug Wieland/Adels compatible 5-pole
Number of gear units	2 units	Protection class IEC	Safety class I (I)
Gear	EB [Electronic]	Mounting	BR [Bracket]
Driver/power unit/transformer	PSD-CLO [Power supply unit with DALI interface and constant light output]	Coating	Swimming pool protected coating
Driver included	Yes	Glow-wire test	850/5 [Temperature 850 °C, duration 5 s]
Optic type	MB [Medium beam]	Flammability mark	D [For mounting on easily flammable surfaces]
		CE mark	CE mark

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ENEC mark	ENEC mark
Ball impact resistance 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	Programmable
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
Initial CLO power consumption	131 W
Average CLO power consumption	148 W
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	Glass
Gear tray material	Steel
Fixation material	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]
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	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)

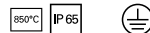
Control gear failure rate at median useful life 50000 h	5 %
Control gear failure rate at median useful life 100000 h	10 %
Lumen maintenance at median useful life* 50000 h	L85
Lumen maintenance at median useful life* 100000 h	L70

Application Conditions

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

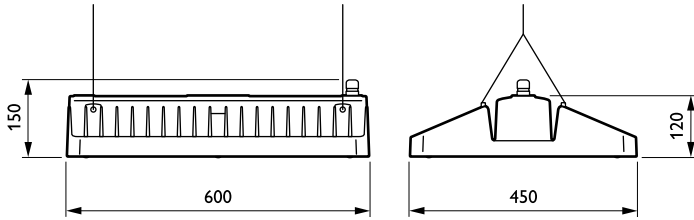
Product Data

Full product code	871869632301400
Order product name	BY471P GRN250S/840 PSD-CLO MB GC BR SI S
EAN/UPC – product	8718696323014
Order code	32301400
Numerator – quantity per pack	1
Numerator – packs per outer box	1
Material no. (12NC)	910930206061
Net weight (piece)	17.400 kg



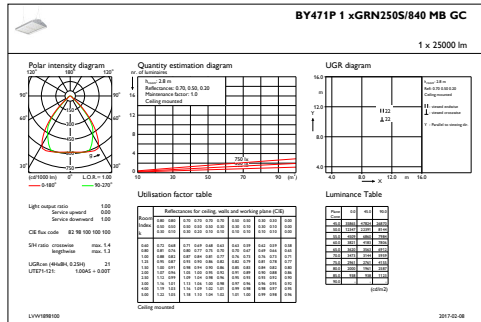
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Dimensional drawing

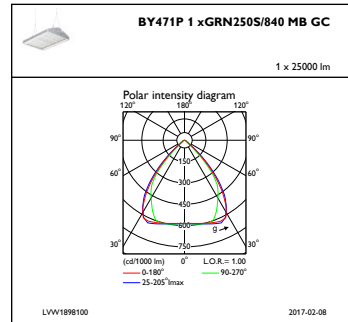


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Photometric data



IFGU1_BY471P1xGRN250S840MBGC



IFPC1_BY471P1xGRN250S840MBGC

