GentleSpace gen2

BY471P GRN250S/840 PSD HRO PC BR 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

Lamp family code	GRN250S [LED GreenLine system flux 25000 lm]
Cap-Base	– [–]
Light source replaceable	Yes
Number of gear units	2 units
Gear	EB [Electronic]
Driver included	Yes
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.

Service tag	Yes
Product family code	BY471P [GentleSpace 2]
Lighting Technology	LED
Embedded control	–
CE mark	Yes
Warranty period	5 years
Flammability mark	For mounting on easily flammable surfaces
ENEC mark	ENEC mark
Glow-wire test	Temperature 850 °C, duration 5 s
EU RoHS compliant	Yes

Light Technical

Luminous Flux	25,000 lm
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	152 lm/W

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Color rendering index (CRI)	≥80		**Overall height**	150 mm
Number of light sources	16		**Dimensions (Height x Width x Depth)**	150 x 450 x 600 mm
Beam angle of light source	114 degree(s)			
Light source color	840 neutral white		**Approval and Application**	
Optic type	High-rack optic		**Ingress protection code**	IP65 [Dust penetration-protected, jet-proof]
Optical cover type	Polycarbonate bowl/cover		**Mech. impact protection code**	IK07 [2 J reinforced]
Luminaire light beam spread	16° x 47°		**Protection class IEC**	Safety class I
Unified glare rating CEN	Not applicable			
			Initial Performance (IEC Compliant)	
Operating and Electrical			**Luminous flux tolerance**	+/-7%
Input Voltage	220–240 V		**Initial chromaticity**	(0.38, 0.38) SDCM <3
Line Frequency	50 to 60 Hz		**Power consumption tolerance**	+/-11%
Inrush current	9.6 A			
Inrush time	2.3 ms		**Over Time Performance (IEC Compliant)**	
Power Consumption	164 W		**Control gear failure rate at median useful life 50000 h**	5 %
Power Factor (Fraction)	0.9			
Connection	External connector		**Control gear failure rate at median useful life 100000 h**	10 %
Cable	Cord with plug Wieland/Adels compatible 5-pole			
			Lumen maintenance at median useful life* 50000 h	L85
Number of products on MCB of 16 A type B	6			
			Lumen maintenance at median useful life* 100000 h	L70
Temperature				
Ambient temperature range	–30 to +45 °C		**Application Conditions**	
			Performance ambient temperature Tq	25 °C
Controls and Dimming			**Maximum dim level**	10%
Dimmable	Yes		**Suitable for random switching**	No
Driver/power unit/transformer	Power supply unit with DALI interface			
Control interface	DALI		**Product Data**	
Constant light output	No		**Order product name**	BY471P GRN250S/840 PSD HRO PC BR SI
			Full product name	BY471P GRN250S/840 PSD HRO PC BR SI
Mechanical and Housing			**Full product code**	871869632219200
Housing Material	Aluminum		**Order code**	32219200
Reflector material	–		**Material Nr. (12NC)**	910930205978
Optic material	Acrylate		**Numerator – Quantity Per Pack**	1
Optical cover material	Polymethyl methacrylate		**EAN/UPC – Product/Case**	8718696322192
Fixation material	Steel		**Numerator – Packs per outer box**	1
Housing Color	Silver		**EAN/UPC – Case**	8718696322192
Optical cover finish	Clear			
Overall length	600 mm			
Overall width	450 mm			

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Dimensional drawing

www.lighting.philips.com

2023, April 29 – data subject to change