GentleSpace gen2

BY470P GRN130S/840 PSD NB GC BR SI SWP

GentleSpace 2, LED GreenLine system flux 13000 lm, 840 neutral white, Power supply unit with DALI interface, Narrow beam, 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

Lamp family code	GRN130S [LED GreenLine system flux 13000 lm]
Cap-Base	– [–]
Light source replaceable	Yes
Number of gear units	1 unit
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	BY470P [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	13,000 lm
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	149 lm/W

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Color rendering index (CRI)	≥80		**Dimensions (Height x Width x Depth)**	130 x 350 x 450 mm
Number of light sources	8			
Beam angle of light source	114 degree(s)		## Approval and Application	
Light source color	840 neutral white		**Ingress protection code**	IP65 [Dust penetration-protected, jet-proof]
Optic type	Narrow beam		**Mech. impact protection code**	IK07 [2 J reinforced]
Optical cover type	Clear glass		**Protection class IEC**	Safety class I
Luminaire light beam spread	30° x 25°			
Unified glare rating CEN	19		## Initial Performance (IEC Compliant)	
			Luminous flux tolerance	+/-7%
## Operating and Electrical			**Initial chromaticity**	(0.38, 0.38) SDCM <3
Input Voltage	220–240 V		**Power consumption tolerance**	+/-11%
Line Frequency	50 to 60 Hz			
Inrush current	4.8 A		## Over Time Performance (IEC Compliant)	
Inrush time	2.3 ms		**Control gear failure rate at median useful life 50000 h**	5 %
Power Consumption	87 W			
Power Factor (Fraction)	0.9		**Control gear failure rate at median useful life 100000 h**	10 %
Connection	External connector			
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	12		**Lumen maintenance at median useful life* 100000 h**	L70
## Temperature			## Application Conditions	
Ambient temperature range	–30 to +45 ℃		**Performance ambient temperature Tq**	25 ℃
			Maximum dim level	10%
## Controls and Dimming			**Suitable for random switching**	No
Dimmable	Yes			
Driver/power unit/transformer	Power supply unit with DALI interface		## Product Data	
Control interface	DALI		**Order product name**	BY470P GRN130S/840 PSD NB GC BR SI SWP
Constant light output	No			
			Full product name	BY470P GRN130S/840 PSD NB GC BR SI SWP
## Mechanical and Housing				
Housing Material	Aluminum		**Full product code**	871869632290100
Reflector material	–		**Order code**	32290100
Optic material	Acrylate		**Material Nr. (12NC)**	910930206050
Optical cover material	Glass		**Numerator – Quantity Per Pack**	1
Fixation material	Steel		**EAN/UPC – Product/Case**	8718696322901
Housing Color	Silver		**Numerator – Packs per outer box**	1
Optical cover finish	Clear		**EAN/UPC – Case**	8718696322901
Overall length	450 mm			
Overall width	350 mm			
Overall height	130 mm			

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Dimensional drawing

www.lighting.philips.com

2023, April 29 – data subject to change