GentleSpace gen2

BY471P GRN170S/840 PSD WB GC BR SI SWP

GentleSpace 2, LED GreenLine system flux 17000 lm, 840 neutral white, Power supply unit with DALI interface, Wide 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 continues to improve even further: an improved total cost of ownership, even in extreme conditions with the the GS-2 Xtreme version, which can be used up to +60 °C or 100,000 hrs of lifetime (L80), both ensured by an integrated over-heat protection. In addition, a wide variety of options – e.g. optics, coatings, mounting possibilities, cover materials and suitable for explosive zones 2/22 – are available to ensure an ideal solution for your application. Additionally, the GentleSpace gen2 can be equipped for use in a central emergency grid (PSED).

Product data

General Information

Lamp family code	GRN170S [LED GreenLine system flux 17000 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	BY471P [GentleSpace 2]
Lighting Technology	LED
Glow-wire test	Temperature 850 °C, duration 5 s
Flammability mark	For mounting on easily flammable surfaces
CE mark	Yes
ENEC mark	ENEC mark
Warranty period	5 years
EU RoHS compliant	Yes

GentleSpace gen2

Embedded control	–	**Overall length**	600 mm
		Overall width	450 mm
Light Technical		**Overall height**	150 mm
Luminous Flux	17,000 lm	**Dimensions (Height x Width x Depth)**	150 x 450 x 600 mm
Correlated Color Temperature (Nom)	4000 K		
Luminous Efficacy (rated) (Nom)	155 lm/W	**Approval and Application**	
Color rendering index (CRI)	≥80	**Ingress protection code**	IP65 [Dust penetration-protected, jet-proof]
Number of light sources	12	**Mech. impact protection code**	IK07 [2 J reinforced]
Beam angle of light source	114 degree(s)	**Protection class IEC**	Safety class I
Light source color	840 neutral white		
Optic type	Wide beam	**Initial Performance (IEC Compliant)**	
Optical cover type	Clear glass	**Luminous flux tolerance**	+/-7%
Luminaire light beam spread	44° x 42°	**Initial chromaticity**	(0.38, 0.38) SDCM <3
Unified glare rating CEN	25	**Power consumption tolerance**	+/-11%

Operating and Electrical

Input Voltage	220-240 V	**Over Time Performance (IEC Compliant)**	
Line Frequency	50 to 60 Hz	**Control gear failure rate at median useful life 50000 h**	5 %
Inrush current	4.8 A		
Inrush time	2.3 ms	**Control gear failure rate at median useful life 100000 h**	10 %
Power Consumption	110 W		
Power Factor (Fraction)	0.9	**Lumen maintenance at median useful life* 50000 h**	L85
Connection	External connector		
Cable	Cord with plug Wieland/Adels compatible 5-pole	**Lumen maintenance at median useful life* 100000 h**	L70
Number of products on MCB of 16 A type B	12		

Temperature

		Application Conditions	
Ambient temperature range	–30 to +45 °C	**Performance ambient temperature Tq**	25 °C
		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**	BY471P GRN170S/840 PSD WB GC BR SI SWP
Constant light output	No		
		Full product name	BY471P GRN170S/840 PSD WB GC BR SI SWP
Mechanical and Housing			
Housing Material	Aluminum	**Full product code**	871869632197300
Reflector material	–	**Order code**	910930205956
Optic material	Acrylate	**Material Nr. (12NC)**	910930205956
Optical cover material	Glass	**Numerator – Quantity Per Pack**	1
Fixation material	Steel	**EAN/UPC – Product/Case**	8718696321973
Housing Color	Silver	**Numerator – Packs per outer box**	1
Optical cover finish	Clear	**EAN/UPC – Case**	8718696321973

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Dimensional drawing

www.lighting.philips.com

2023, September 4 – data subject to change