GentleSpace gen2

BY470P GRN130S/840 PSD WB PC BR SI

GentleSpace 2, LED GreenLine system flux 13000 lm, Power supply unit with DALI interface, Wide beam, 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	GRN130S [LED GreenLine system flux 13000 lm]
Cap base	– [-]
Light source replaceable	Yes
Number of gear units	Unit
Gear	EB [Electronic]
Driver included	Yes
Remarks	*– According to the Lighting Europe guidance paper 'Evaluating performance of LED based luminaires – January 2018': statistically there is no relevant difference in lumen maintenance between the B50 and, for example, the B10. Therefore, the median

	useful life (B50) value also represents the B10 value.
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 Colour Temperature	4000 K

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Luminous efficacy (rated) (nom.)	149 lm/W
Colour rendering index (CRI)	≥80
Beam angle of light source	114 degree(s)
Light source colour	840 neutral white
Optic type	Wide beam
Optical cover type	Polycarbonate bowl/cover
Luminaire light beam spread	42° x 44°
Unified Glare Rating (CEN)	25

Operating and Electrical

Input Voltage	220-240 V
Line Frequency	50 to 60 Hz
Inrush current	4.8 A
Inrush time	2.3 ms
Power Consumption	87 W
Power Factor (Fraction)	0.9
Connection	External connector
Cable	Cord with plug Wieland/Adels compatible 5-pole
Number of products on MCB of 16 A type B	12

Temperature

Ambient temperature range	-30 to +45 °C

Controls and Dimming

Dimmable	Yes
Driver/power unit/transformer	Power supply unit with DALI interface
Control interface	DALI
Constant light output	No

Mechanical and Housing

Housing material	Aluminium
Reflector material	–
Optic material	Acrylate
Optical cover/lens material	Polymethyl methacrylate
Fixation material	Steel
Housing Colour	Silver
Optical cover/lens finish	Clear
Overall length	450 mm
Overall width	350 mm

Overall height	130 mm
Dimensions (height x width x depth)	130 x 350 x 450 mm

Approval and Application

Ingress protection code	IP65 [Dust penetration-protected, jet-proof]
Mech. impact protection code	IK07 [2 J reinforced]
Protection class IEC	Safety class I

Initial Performance (IEC Compliant)

Luminous flux tolerance	+/-7%
Initial chromaticity	(0.38, 0.38) SDCM <3
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

Performance ambient temperature Tq	25 °C
Maximum dim level	10%
Suitable for random switching	No

Product Data

Order product name	BY470P GRN130S/840 PSD WB PC BR SI
Full product name	BY470P GRN130S/840 PSD WB PC BR SI
Full EOC	871869632209300
Order code	32209300
Material no. (12 NC)	910930205968
SAP numerator – quantity per pack	1
EAN/UPC — Product/Case	8718696322093
Numerator – packs per outer box	1
EAN/UPC – Case	8718696322093

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Dimensional drawing

130

450

100

350

www.lighting.philips.com

2023, April 29 – data subject to change