

GentleSpace gen2

BY471P GRN170S/840 PSD A50 PC MBW SI

GentleSpace 2 - LED GreenLine system flux 17,000 lm - 840 neutral white - Power supply unit with DALI interface - Asymmetrical mirror axis angle 50° - 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	
Number of light sources	12 [12 pcs]
Lamp family code	GRN170S [LED GreenLine system flux 17,000 lm]
Beam angle of light source	114 °
Light source colour	840 neutral white
Cap base	- [-]
Light source replaceable	Yes
Number of gear units	1 unit
Gear	EB [Electronic]
Driver/power unit/transformer	PSD [Power supply unit with DALI interface]
Driver included	Yes
Optic type	A50 [Asymmetrical mirror axis angle 50°]
Optical cover/lens type	PC [Polycarbonate bowl/cover]
Luminaire light beam spread	56° x 33°

Embedded control	No [-]
Control interface	DALI
Connection	CE [External connector]
Cable	Cord with plug Wieland/Adels compatible 5-pole
Protection class IEC	Safety class I (I)
Mounting	MBW [Wall-mounting bracket]
Coating	-
Glow-wire test	850/5 [Temperature 850 °C, duration 5 s]
Flammability mark	D [For mounting on easily flammable surfaces]
CE mark	CE mark
ENEC mark	ENEC mark
Ball impact resistance mark	Ball Impact Resistance mark
Design award-winner marking	Design Award Winner 2014
Warranty period	5 years

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Suspension accessories	MBW [Wall-mounting bracket]
Constant light output	No
Number of products on MCB	12
RoHS mark	RoHS mark
Product Family Code	BY471P [GentleSpace 2]

Operating and Electrical

Input voltage	220-240 V
Input frequency	50 to 60 Hz
Control signal voltage	0-16 V DC DALI
Inrush current	4.8 A
Inrush time	2.3 ms
Power factor (min.)	0.9

Controls and Dimming

Dimmable	Yes

Mechanical and Housing

Housing material	Aluminium
Reflector material	-
Optic material	Acrylate
Optical cover/lens material	Polymethyl methacrylate
Gear tray material	Steel
Fixation material	Steel
Optical cover/lens finish	Clear
Overall length	600 mm
Overall width	450 mm
Overall height	150 mm

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	17000 lm
Luminous flux tolerance	+/-7%
Initial LED luminaire efficacy	155 lm/W
Init. Corr. colour temperature	4000 K
Init. colour rendering index	≥80
Initial chromaticity	(0.38, 0.38) SDCM <3
Initial input power	110 W
Power consumption tolerance	+/-11%

Over Time Performance (IEC Compliant)

Driver failure rate at 5,000 hours	0.5 %
Median useful life L70B50	70000 h
Median useful life L80B50	50000 h
Median useful life L90B50	25000 h

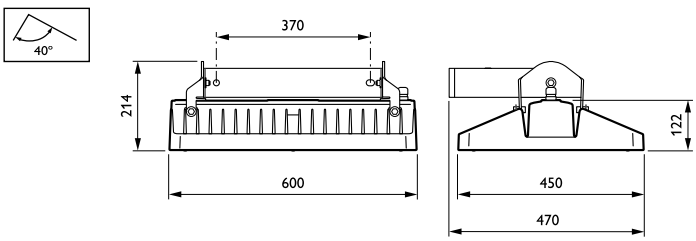
Application Conditions

Ambient temperature range	-30 to +45 °C
Average ambient temperature	25 °C
Maximum dimming level	10%
Suitable for random switching	Yes (relates to presence/ movement detection and daylight harvesting)

Product Data

Full product code	871869634601300
Order product name	BY471P GRN170S/840 PSD A50 PC MBW SI
EAN/UPC – product	8718696346013
Order code	34601300
Numerator – quantity per pack	1
Numerator – packs per outer box	1
Material no. (12NC)	910925863188
Net weight (piece)	19.000 kg

Dimensional drawing



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2017, May 15 - data subject to change