GentleSpace gen2

BY471P ECO320S/840 PSD MB GC SI

GentleSpace 2, LED EconomyLine 32000 lm, 840 neutral white, Power supply unit with DALI interface, Medium beam, Clear glass, 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	ECO320 [LED EconomyLine 32000 lm]
Cap base	- [-]
Light source replaceable	Yes
Number of gear units	2 units
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	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 650 °C, duration 5 s
EU RoHS compliant	Yes

Light Technical

Luminous Flux	32,000 lm
Correlated Colour Temperature	4000 K
Luminous efficacy (rated) (nom.)	147 lm/W
Colour rendering index (CRI)	≥80

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Beam angle of light source	114 degree(s)		Dimensions (height x width x depth)	150 x 450 x 600 mm
Light source colour	840 neutral white			
Optic type	Medium beam		**Approval and Application**	
Optical cover type	Clear glass		Ingress protection code	IP65 [Dust penetration–protected, jet–proof]
Luminaire light beam spread	40° x 40°		Mech. impact protection code	IK07 [2 J reinforced]
Unified Glare Rating (CEN)	25		Protection class IEC	Safety class I

Operating and Electrical			**Initial Performance (IEC Compliant)**	
Input Voltage	220–240 V		Luminous flux tolerance	+/–7%
Line Frequency	50 to 60 Hz		Initial chromaticity	(0.38, 0.38) SDCM <3
Inrush current	9.6 A		Power consumption tolerance	+/–11%
Inrush time	2.3 ms			
Power Consumption	218 W		**Over Time Performance (IEC Compliant)**	
Power Factor (Fraction)	0.9		Control gear failure rate at median useful life 50,000 h	5 %
Connection	External connector			
Cable	Cord with plug Wieland/Adels compatible 5–pole		Control gear failure rate at median useful life 100,000 h	10 %
Number of products on MCB of 16 A type B	6		Lumen maintenance at median useful life* 50,000 h	L80
			Lumen maintenance at median useful life* 100,000 h	L65

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 ECO320S/840 PSD MB GC SI
			Full product name	BY471P ECO320S/840 PSD MB GC SI
Mechanical and Housing			Full EOC	871869634793500
Housing material	Aluminium		Order code	34793500
Reflector material	–		Material no. (12 NC)	910925863382
Optic material	Acrylate		SAP numerator – quantity per pack	1
Optical cover/lens material	Glass		EAN/UPC — Product/Case	8718696347935
Fixation material	Stainless steel		Numerator – packs per outer box	1
Housing Colour	Silver		EAN/UPC – Case	8718696347935
Optical cover/lens finish	Clear			
Overall length	600 mm			
Overall width	450 mm			
Overall height	150 mm			

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Dimensional drawing

www.lighting.philips.com

2023, April 29 – data subject to change