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	*-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
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 Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	147 lm/W
Color rendering index (CRI)	≥80

GentleSpace gen2

Number of light sources	16		Overall height	150 mm
Beam angle of light source	114 degree(s)		Dimensions (Height x Width x Depth)	150 x 450 x 600 mm
Light source color	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

Input Voltage	220-240 V
Line Frequency	50 to 60 Hz
Inrush current	9.6 A
Inrush time	2.3 ms
Power Consumption	218 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	6

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	Aluminum
Reflector material	–
Optic material	Acrylate
Optical cover material	Glass
Fixation material	Stainless steel
Housing Color	Silver
Optical cover finish	Clear
Overall length	600 mm
Overall width	450 mm

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 50000 h	5 %
Control gear failure rate at median useful life 100000 h	10 %
Lumen maintenance at median useful life* 50000 h	L80
Lumen maintenance at median useful life* 100000 h	L65

Application Conditions

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

Product Data

Order product name	BY471P ECO320S/840 PSD MB GC SI
Full product name	BY471P ECO320S/840 PSD MB GC SI
Full product code	871869634793500
Order code	34793500
Material Nr. (12NC)	910925863382
Numerator – Quantity Per Pack	1
EAN/UPC – Product/Case	8718696347935
Numerator – Packs per outer box	1
EAN/UPC – Case	8718696347935

GentleSpace gen2

Dimensional drawing

www.lighting.philips.com

2023, April 29 – data subject to change