CoreLine Highbay Gen5

BY122P G5 LED300S/840 PSD NB

– Power supply unit with DALI interface – Narrow beam – 55°

CoreLine Highbay Gen5 delivers on the CoreLine promise of innovative, easy-to-use and high-quality luminaires. A reliable, highly efficient luminaire with a very long-lifetime, it delivers great savings on energy and requires less maintenance. At the same time, CoreLine Highbay is very easy to handle. The luminaire can be installed on your existing grid and the electrical connection is a straightforward task, with no need to open the luminaire and an external IP65 connector. With a choice of two beam angles: narrow and wide beam, you can adjust your lighting plan to suit your exact needs. This range also includes Interact Ready luminaires with integrated wireless communications and integrated movement and daylight sensors. So CoreLine Highbay Gen5 is ready to be used with any Interact connected lighting system.

Product data

General information

Light source replaceable	No
Number of gear units	2 units
Driver included	Yes
Lighting Technology	LED

Light technical

Luminous Flux	30,000 lm
Saturated Red (R9)	<50
Correlated Colour Temperature	4000 K
Luminous Efficacy (rated) (Nom)	146 lm/W

Colour rendering index (CRI)	>80
Flickering value (PstLM)	0.5
Stroboscopic effect	1
Light source colour	840 neutral white
Optic type	Narrow beam
Luminaire light beam spread	55°
Unified Glare Rating (CEN)	22

Operating and electrical

Input Voltage	220 to 240 V
Line Frequency	50 or 60 Hz

CoreLine Highbay Gen5

Input frequency	50 or 60 Hz
Power Consumption	205 W
Inrush current	60 A
Inrush time	600 ms
Power Factor (Fraction)	0.95
Connection	Connection unit 3-pole
Cable	Cable 0.3 m with connector 3-pole
Number of products on MCB of 16 A type B	6

Temperature

Ambient temperature range	-30 to +50 °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 die-cast
Reflector material	–
Optic material	Polycarbonate
Optical cover/lens material	Polycarbonate
Fixation material	–
Housing Colour	Grey
Optical cover/lens finish	Clear
Overall height	126 mm
Overall diameter	393 mm

Approval and application

Ingress protection code	IP65 [Dust penetration-protected, jet-proof]
Mech. impact protection code	IK08 [5 J vandal-protected]
Sustainability rating	–
Protection class IEC	Safety class I
Glow-wire test	Temperature 650 °C, duration 30 s
Flammability mark	For mounting on normally flammable surfaces
CE mark	Yes
ENEC mark	ENEC mark

Warranty period	5 years
Photobiological risk	Photobiological risk group 1 @200mm to EN62778
Photobiological risk specification	18.2 m
EU RoHS compliant	Yes

Initial performance (IEC compliant)

Luminous flux tolerance	+/-10%
Initial chromaticity	(0.385, 0.380) SDCM<5
Power consumption tolerance	+/-10%

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	L75

Application conditions

Performance ambient temperature Tq	35 °C
Maximum dim level	13%
Suitable for random switching	Yes

Product data

Full EOC	871951495602500
Order product name	BY122P G5 LED300S/840 PSD NB
EAN/UPC – product	8719514956025
Order code	95602500
SAP numerator – quantity per pack	1
Numerator – packs per outer box	1
Material number (12NC)	911401632808
Full product name	BY122P G5 LED300S/840 PSD NB
EAN/UPC – Case	8719514956025

CoreLine Highbay Gen5

Dimensional drawing

Ø393

126

www.lighting.philips.com

2023, May 16 – data subject to change