



CoreLine Highbay Gen5

BY120P G5 LED105S/840 PSU NB

- Power supply unit - Beam angle 55° - 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

Operating and electrical	
Input Voltage	220 to 240 V
Line Frequency	50 or 60 Hz
Input frequency	50 or 60 Hz
Power Consumption	67 W
Inrush current	40 A
Inrush time	600 ms
Power Factor (Fraction)	0.95
General information	
Light source colour	840 neutral white

Light source replaceable	No
Number of gear units	Unit
Driver/power unit/transformer	Power supply unit
Driver included	Yes
Optic type	Beam angle 55°
Luminaire light beam spread	55°
Control interface	-
Connection	Connection unit 3-pole
Cable	Cable 0.3 m with connector 3-pole
Protection class IEC	Safety class I
Glow-wire test	Temperature 650 °C, duration 30 s

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Flammability mark	For mounting on normally flammable surfaces
CE mark	Yes
ENEC mark	ENEC mark
Warranty period	5 years
Constant light output	No
Number of products on MCB of 16 A type B	6
Photobiological risk	Photobiological risk group 1 @200mm to EN62778
Photobiological risk specification	18.2 m
EU RoHS compliant	Yes
Unified Glare Rating (CEN)	22
Lighting Technology	LED
Brand	Philips

Light technical

Luminous Flux	10,500 lm
Saturated Red (R9)	<50
Luminous Efficacy (rated) (Nom)	157 lm/W
Colour rendering index (CRI)	>80
Flickering	0.5
Stroboscopic effect	1

Temperature

Ambient temperature range	-30 to +50 °C
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Mechanical and housing

Housing material	Aluminium die-cast
Reflector material	-
Optic material	Polycarbonate
Optical cover/lens material	Polycarbonate
Fixation material	-
Housing Colour	Dark grey
Optical cover/lens finish	Clear
Overall height	90 mm
Overall diameter	290 mm

Approval and application

Ingress protection code	IP65 [Dust penetration-protected, jet-proof]
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Mech. impact protection code	IK08 [5 J vandal-protected]
Sustainability rating	-

Initial performance (IEC compliant)

Luminous flux tolerance	+/-10%
Init. Corr. Colour Temperature	4000 K
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	L65

Application conditions

Performance ambient temperature Tq	35 °C
Maximum dim level	Not applicable
Suitable for random switching	Yes

Product data

Full EOC	871951495566000
Order product name	BY120P G5 LED105S/840 PSU NB
EAN/UPC – product	8719514955660
Order code	95566000
SAP numerator – quantity per pack	1
Numerator – packs per outer box	1
Material number (12NC)	911401629208
Net weight	1.990 kg
Full product name	BY120P G5 LED105S/840 PSU NB
EAN/UPC – Case	8719514955660



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Dimensional drawing

