



CoreLine Highbay Gen5

BY120P G5 LED105S/840 PSU WB

- Power supply unit (ON/OFF) - Beam angle 84° - 85° x 85°

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 energy savings 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		Protection class IEC	Safety class I
Light source color	840 neutral white	Glow-wire test	Temperature 650 °C, duration 30 s
Light source replaceable	No	Flammability mark	For mounting on normally flammable surfaces
Number of gear units	1 unit	CE mark	Yes
Driver/power unit/transformer	Power supply unit (ON/OFF)	ENEC mark	ENEC mark
Driver included	Yes	Warranty period	5 years
Optic type	Beam angle 84°	Constant light output	No
Luminaire light beam spread	85° x 85°	Number of products on MCB of 16 A type B	6
Control interface	-	Photobiological risk	Photobiological risk group 1 @200mm to EN62778
Connection	Connection unit 3-pole		
Cable	Cable 0.3 m with connector 3-pole		

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Photobiological risk specification	18.2 m
EU RoHS compliant	Yes
Unified glare rating CEN	25
Lighting Technology	LED
Brand	Philips

Light Technical

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

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

Temperature

Ambient temperature range	-30 to +50 °C
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Controls and Dimming

Dimmable	No
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Mechanical and Housing

Housing Material	Aluminum die-cast
Reflector material	-
Optic material	Polycarbonate
Optical cover/lens material	Polycarbonate
Fixation material	-
Housing Color	Dark gray
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. Color Temperature	4000 K
Initial chromaticity	(0.385, 0.380) SDCM<5
Power consumption tolerance	+/-10%

Over Time Performance (IEC Compliant)

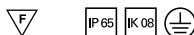
Control gear failure rate at median useful life 50000 h	5 %
Control gear failure rate at median useful life 100000 h	10 %
Lumen maintenance at median useful life* 50000 h	L85
Lumen maintenance at median useful life* 100000 h	L65

Application Conditions

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

Product Data

Full product code	871951495567700
Order product name	BY120P G5 LED105S/840 PSU WB
EAN/UPC - Product	8719514955677
Order code	911401629308
Numerator - Quantity Per Pack	1
Numerator - Packs per outer box	1
Material number (12NC)	911401629308
Net weight	1.990 kg
Full product name	BY120P G5 LED105S/840 PSU WB
EAN/UPC - Case	8719514955677



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Dimensional drawing

