



CoreLine Highbay Gen5

BY121P G5 LED105S/840 PSD WB

- Power supply unit with DALI interface - 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			
Light source color	840 neutral white	Cable	Cable 0.3 m with connector 3-pole
Light source replaceable	No	Protection class IEC	Safety class I
Number of gear units	1 unit	Glow-wire test	Temperature 650 °C, duration 30 s
Driver/power unit/transformer	Power supply unit with DALI interface	Flammability mark	For mounting on normally flammable surfaces
Driver included	Yes	CE mark	Yes
Optic type	Beam angle 84°	ENEC mark	ENEC mark
Luminaire light beam spread	85° x 85°	Warranty period	5 years
Control interface	DALI	Constant light output	No
Connection	Connection unit 3-pole	Number of products on MCB of 16 A type B	8

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Photobiological risk	Photobiological risk group 1 @200mm to EN62778
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)	146 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	72 W
Inrush current	53 A
Inrush time	300 ms
Power Factor (Fraction)	0.95

Temperature

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

Dimmable	Yes
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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	99 mm
Overall diameter	330 mm

Approval and Application

Ingress protection code	IP65 [Dust penetration-protected, jet-proof]
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)

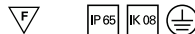
Control gear failure rate at median useful life 50000 h	5 %
Control gear failure rate at median useful life 100000 h	10 %
Lumen maintenance at median useful life* 50000 h	L85
Lumen maintenance at median useful life* 100000 h	L65

Application Conditions

Performance ambient temperature Tq	35 °C
Maximum dim level	20%
Suitable for random switching	Yes

Product Data

Full product code	871951495571400
Order product name	BY121P G5 LED105S/840 PSD WB
EAN/UPC - Product	8719514955714
Order code	911401629708
Numerator - Quantity Per Pack	1
Numerator - Packs per outer box	1
Material number (12NC)	911401629708
Net weight	3.540 kg
Full product name	BY121P G5 LED105S/840 PSD WB
EAN/UPC - Case	8719514955714



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Dimensional drawing

