CoreLine Highbay

BY120P G3 LED105S/840 PSU WB GR

CoreLine Highbay, 85 W, 10500 lm, 4000 K, 100°

Following the successful introduction of the CoreLine High-bay in 2013, the upgrade to a new generation of LEDs has further improved colour rendering and total cost of ownership. Designed as a replacement for HPI 250/400 W luminaires, CoreLine High-bay offers customers all the benefits of LED lighting – fresh light quality, longer service lifetime, reduced energy consumption and maintenance – from a trusted manufacturer. At the same time, it delivers clear benefits for the installer too. The luminaire can be installed on the existing grid. Electrical connection is straightforward: there is no need to open the luminaire for installation or servicing. And being smaller and lighter than conventional luminaires, it is very easy to handle.
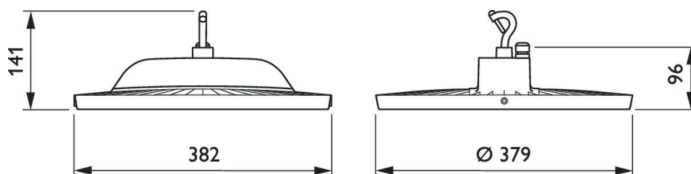
Product data

General Information

Lamp family code	LED105S [LED module, system flux 10500 lm]
Light source replaceable	No
Number of gear units	Unit
Driver included	Yes
Remarks	*– According to the Lighting Europe guidance paper 'Evaluating performance of LED based luminaires – January 2018': statistically there is no relevant difference in lumen maintenance between the B50 and, for example, the B10. Therefore, the median useful life (B50) value also represents the B10 value.
Light source engine type	LED
CE mark	CE mark
Warranty period	3 years + 2 years upon registration

Flammability mark	For mounting on normally flammable surfaces
ENEC mark	–
Glow-wire test	Temperature 650 °C, duration 5 s
EU RoHS compliant	Yes

Light Technical

Luminous Flux	10,500 lm
Correlated Colour Temperature	4000 K
Luminous efficacy (rated) (nom.)	125 lm/W
Colour rendering index (CRI)	≥80
Beam angle of light source	– degree(s)
Light source colour	840 neutral white
Optic type	Wide beam
Optical cover type	Polycarbonate bowl/cover
Luminaire light beam spread	100°

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Operating and Electrical

Input Voltage	220 to 240 V
Line Frequency	50 to 60 Hz
Average CLO power consumption	false W
Inrush current	46 A
Inrush time	0.44 ms
Power Consumption	85 W
Power Factor (Fraction)	0.9
Connection	Connection unit 3-pole
Cable	Cable 0.5 m with cable connector 3-pole
Number of products on MCB of 16 A type B	11

Temperature

Ambient temperature range	–30 to +45 °C

Controls and Dimming

Dimmable	No
Driver/power unit/transformer	Power supply unit (On/Off)
Control interface	–
Constant light output	No

Mechanical and Housing

Housing material	Aluminium
Reflector material	–
Optic material	Polycarbonate
Optical cover/lens material	Polycarbonate
Fixation material	–
Housing Colour	Grey
Optical cover/lens finish	Clear
Overall length	382 mm
Overall width	379 mm
Overall height	141 mm
Overall diameter	379 mm
Dimensions (height x width x depth)	141 x 379 x 382 mm

Approval and Application

Ingress protection code	IP65 [Dust penetration-protected, jet-proof]
Mech. impact protection code	IK07 [2 J reinforced]
Protection class IEC	Safety class I

Initial Performance (IEC Compliant)

Luminous flux tolerance	+/–10%
Initial chromaticity	(0.38, 0.38) SDCM <5
Power consumption tolerance	+/–10%

Over Time Performance (IEC Compliant)

Control gear failure rate at median useful life 50,000 h	5 %
Lumen maintenance at median useful life* 50,000 h	L70

Application Conditions

Performance ambient temperature Tq	25 °C
Maximum dim level	Not applicable
Suitable for random switching	Yes

Product Data

Order product name	BY120P G3 LED105S/840 PSU WB GR
Full product name	BY120P G3 LED105S/840 PSU WB GR
Full EOC	871016330144000
Order code	30144000
Material no. (12 NC)	911401505331
SAP numerator – quantity per pack	1
EAN/UPC — Product/Case	8710163301440
Numerator – packs per outer box	1
EAN/UPC – Case	8710163301440

Dimensional drawing

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www.lighting.philips.com

2023, April 29 – data subject to change