



# CoreLine Highbay

## BY120P G3 LED105S/840 PIR WB GR

LED module, system flux 10500 lm, 840 neutral white, Power supply unit (On/Off), Wide beam, Grey

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]	CE mark	CE mark
Light source replaceable	No	Warranty period	3 years + 2 years upon registration
Number of gear units	Unit	Flammability mark	For mounting on normally flammable surfaces
Driver included	Yes	ENEC mark	-
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.	Glow-wire test	Temperature 650 °C, duration 5 s
Light source engine type	LED	EU RoHS compliant	Yes
Lighting Technology	LED	Light Technical	
		Luminous Flux	10,500 lm
		Correlated Colour Temperature	4000 K
		Luminous efficacy (rated) (nom.)	129 lm/W
		Colour rendering index (CRI)	≥80
		Beam angle of light source	- degree(s)

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Light source colour	840 neutral white
Optic type	Wide beam
Optical cover type	Polycarbonate bowl/cover
Luminaire light beam spread	100°

### Operating and Electrical

Input Voltage	220 to 240 V
Line Frequency	50 to 60 Hz
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
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### Controls and Dimming

Dimmable	Yes
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	25%
Suitable for random switching	Yes

### Product Data

Order product name	BY120P G3 LED105S/840 PIR WB GR
Full product name	BY120P G3 LED105S/840 PIR WB GR
Full EOC	871016331716800
Order code	31716800
Material no. (12 NC)	911401571141
SAP numerator – quantity per pack	1
EAN/UPC – Product/Case	8710163317168
Numerator – packs per outer box	1
EAN/UPC – Case	8710163317168

## Dimensional drawing



