



# CoreLine Highbay

## BY120P G3 LED105S/840 PSD WB GR

CoreLine Highbay, 81 W, 10500 lm, 4000 K, DALI, 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		Flammability mark	
Lamp family code	LED105S [LED module, system flux 10500 lm]	ENEC mark	-
Light source replaceable	No	Glow-wire test	Temperature 650 °C, duration 5 s
Number of gear units	Unit	EU RoHS compliant	Yes
Driver included	Yes	Light Technical	
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.	Luminous Flux	10,500 lm
Light source engine type	LED	Correlated Colour Temperature	4000 K
CE mark	CE mark	Luminous efficacy (rated) (nom.)	125 lm/W
Warranty period	3 years + 2 years upon registration	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	75 W
Inrush current	46 A
Inrush time	0.25 ms
Power Consumption	81 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 11

B

## Temperature

Ambient temperature range	-30 to +45 °C
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## Controls and Dimming

Dimmable	Yes
Driver/power unit/transformer	Power supply unit with DALI interface
Control interface	DALI
Constant light output	Yes

## 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	10%
Suitable for random switching	Yes

## Product Data

Order product name	BY120P G3 LED105S/840 PSD WB GR
Full product name	BY120P G3 LED105S/840 PSD WB GR
Full EOC	871016330146400
Order code	30146400
Material no. (12 NC)	911401505531
SAP numerator – quantity per pack	1
EAN/UPC – Product/Case	8710163301464
Numerator – packs per outer box	1
EAN/UPC – Case	8710163301464

## Dimensional drawing



