



# 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 further improves the total cost of ownership and provides optionally DALI dimming for even further savings. Designed as a replacement for HPI 250/400 W luminaires, CoreLine High-bay G3 offers customers all the benefits of LED lighting – fresh light quality, longer service lifetime, reduced energy consumption and less 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		Light Technical	
Lamp family code	LED105S [LED module, system flux 10500 lm]	Luminous Flux	10,500 lm
Light source replaceable	No	Correlated Color Temperature (Nom)	4000 K
Number of gear units	1 unit	Luminous Efficacy (rated) (Nom)	125 lm/W
Driver included	Yes	Color rendering index (CRI)	≥80
Remarks	*-Per Lighting Europe guidance paper "Evaluating performance of LED based luminaires - January 2018": statistically there is no relevant difference in lumen maintenance between B50 and for example B10. Therefore, the median useful life (B50) value also represents the B10 value.	Number of light sources	1
Light source engine type	LED	Beam angle of light source	- degree(s)
Service tag	Yes	Light source color	840 neutral white
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		

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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
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 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 with DALI interface
Control interface	DALI
Constant light output	Yes

Mechanical and Housing

Housing Material	Aluminum
Reflector material	-
Optic material	Polycarbonate
Optical cover material	Polycarbonate
Fixation material	-
Housing Color	Grey
Optical cover 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 50000 h	5 %
Lumen maintenance at median useful life* 50000 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 product code	871016330146400
Order code	911401505531
Material Nr. (12NC)	911401505531
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8710163301464
Numerator - Packs per outer box	1
EAN/UPC - Case	8710163301464

Dimensional drawing

