



CoreLine High-bay – superior light quality and lower energy and maintenance costs

CoreLine Highbay

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.

Benefits

- Simple point-to-point replacement for 250 and 400 W HPI high-bay luminaires
- Energy savings of up to 69%
- Additional energy savings via occupancy sensing with the integrated PIR sensor version
- Significant reduction in maintenance

Features

- High efficiency: up to 145 lumens per watt
- Consistent colour rendering (CRI = 80) in compliance with EN-12464-1
- Lifetime of 50,000 hours

CoreLine Highbay

Application

- Industry
- Warehouses
- Exhibition halls
- Retail outlets

Specifications

Type	BY120P (10,500 lm version)
	BY121P (20,500 lm version)
Light source	Non-replaceable LED module
Power (+/-10%)	85 W (BY120P)
	155 W (BY121P)
Beam angle	2 x 50°
Luminous flux	10,500 lm (BY120P)
	20,500 lm (BY121P)
Correlated Colour Temperature	4,000 K
Colour Rendering Index	≥80
Lumen maintenance at median useful life*	L70
50,000 h	
Control gear failure rate at median useful life	5%
50,000 h	

Performance Ambient Temperature T_a	+25 °C
Operating temperature range	-30 to +40 °C
Driver	Built-in
Mains voltage	230 V / 50-60 Hz
Dimming	Yes
Material	Housing: die-cast aluminium
	Cover: polycarbonate, flat
Colour	Grey (RAL 7035)
Connection	External IP65 push-in connector
Maintenance	No internal cleaning required
Installation	Hook/asymmetric mounting bracket
	Through-wiring not possible
	Installation without removing lamp and cover

Versions



CoreLine Highbay

Product details



CoreLine_Highbay_gen3-BY121P-PIR-1DPP.TIF



CoreLine_Highbay_gen3-BY121P-PIR-2DPP.TIF



CoreLine_Highbay_gen3-BY121P-PIR-3DPP.TIF

Application Conditions

Ambient temperature range	-30 to +45 °C
Maximum dimming level	25%
Suitable for random switching	Yes

Approval and Application

Mech. impact protection code	IK07
Ingress protection code	IP65

Controls and Dimming

Dimmable	Yes
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Operating and Electrical

Input Voltage	220 to 240 V
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General Information

Beam angle of light source	- °
CE mark	CE mark
Protection class IEC	Safety class I
Optical cover/lens type	PC
Driver included	Yes
ENEC mark	-
Flammability mark	F
Glow-wire test	Temperature 650 °C, duration 5 s
Light source replaceable	No
Number of gear units	1 unit
Number of light sources	1
Optic type	WB

Initial Performance (IEC Compliant)

Initial chromaticity	(0.38, 0.38) SDCM <5
Init. Corr. Colour Temperature	4000 K
Init. Colour rendering index	≥80
Luminous flux tolerance	+/-10%

Mechanical and Housing

Colour	Grey
Diameter	-

General Information

Order Code	Full Product Name	Lamp family code
31716800	BY120P G3 LED105S/840 PIR WB GR	LED105S
31714400	BY121P G3 LED205S/840 PIR WB GR	LED205S

Initial Performance (IEC Compliant)

Order Code	Full Product Name	Initial LED luminaire efficacy	Initial luminous flux	Initial input power
31716800	BY120P G3 LED105S/840 PIR WB GR	129 lm/W	10500 lm	85 W
31714400	BY121P G3 LED205S/840 PIR WB GR	130 lm/W	20500 lm	155 W

