PHILIPS

Lighting

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 color 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 over 50%
- Significant reduction in maintenance

Features

- High efficiency: 105 lumens per watt
- Consistent color rendering (CRI = 80) in compliance with EN-12464-1
- Lifetime of 50,000 hours

Application

- Industry
- Warehouses
- Exhibition halls

CoreLine Highbay

Specifications

Type	BY120P (10,500 lm version)
	BY121P (20,500 lm version)
Light source	Non-replaceable LED module
Power (+/-10%)	100 W (BY120P)
	198 W (BY121P)
Beam angle	2 x 50º
Luminous flux	10,500 lm (BY120P)
	20,500 lm (BY121P)
Correlated Color Temperature	4000 K
Color Rendering Index	≥80
Median useful life L70B50	50,000 hours
Median useful life L80B50	30,000 hours
Median useful life L90B50	15,000 hours

Average ambient temperature	25 ºC
Operating temperature range	-30 to +40 ºC
Driver	Built-in
Mains voltage	230 V / 50-60 Hz
Dimming	Non-dimming
Material	Housing: die-cast aluminum
	Cover: glass, flat
Color	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

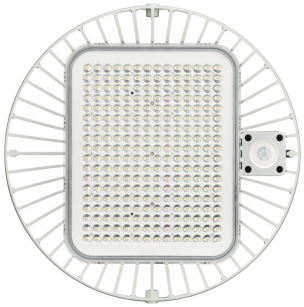
Versions

Product details

CoreLine_Highbay_gen3-BY121P-PIR-1DPP.TIF

CoreLine_Highbay_gen3-BY121P-PIR-2DPP.TIF

Product details



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

Operating and Electrical	
Input Voltage	220 to 240 V

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

Initial Performance (IEC Compliant)	
Initial chromaticy	(0.38, 0.38) SDCM <5
Init. Colour rendering index	≥80
Luminous flux tolerance	+/-10%

Mechanical and Housing	
Colour	Gray
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
31715100	BY121P G3 LED205S/865 PIR WB GR	LED205S
31717500	BY120P G3 LED105S/865 PIR WB GR	LED105S

Initial Performance (IEC Compliant)

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Order Code	Full Product Name	Init. Corr. Colour Temperature	Initial LED luminaire efficacy	Initial luminous flux	Initial input power
31716800	BY120P G3 LED105S/840 PIR WB GR	4000 K	129 lm/W	10500 lm	85 W
31714400	BY121P G3 LED205S/840 PIR WB GR	4000 K	130 lm/W	20500 lm	155 W

Order Code	Full Product Name	Init. Corr. Colour Temperature	Initial LED luminaire efficacy	Initial luminous flux	Initial input power
31715100	BY121P G3 LED205S/865 PIR WB GR	6500 K	130 lm/W	20500 lm	155 W
31717500	BY120P G3 LED105S/865 PIR WB GR	6500 K	125 lm/W	10500 lm	85 W