



# 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 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.

### Benefits

- Simple point-to-point replacement for 250 and 400 W HPI high-bay luminaires
- Energy savings up to 69%
- Significant reduction in maintenance

### Features

- High efficiency: 125 lumens per watt
- Consistent color rendering (CRI = 80) in compliance with EN-12464-1
- Lifetime of 50,000 hours

### Application

- Industry
- Warehouses
- Exhibition halls

### Specifications

# CoreLine Highbay

<b>Type</b>	BY120P (10,500 lm version) BY121P (20,500 lm version)
<b>Light source</b>	Non-replaceable LED module
<b>Power (+/-10%)</b>	85 W (BY120P) 155 W (BY121P)
<b>Beam angle</b>	2 x 50°
<b>Luminous flux</b>	10,500 lm (BY120P) 20,500 lm (BY121P)
<b>Correlated Color Temperature</b>	4000 K
<b>Color Rendering Index</b>	≥80
<b>Lumen maintenance at median useful life*</b>	L70
<b>50000 h</b>	
<b>Control gear failure rate at median useful life</b>	5%
<b>50000 h</b>	

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

## Versions



BY121P PIR

## Product details



CoreLine\_Highbay\_gen3-BY121P-PIR-1DPP.TIF



CoreLine\_Highbay\_gen3-BY121P-PIR-2DPP.TIF

# CoreLine Highbay

## Product details



CoreLine\_Highbay\_gen3-BY121P-  
PIR-3DPP.TIF

# CoreLine Highbay

## Application Conditions

Ambient temperature range	-30 to +45 °C
Maximum dim 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	Polycarbonate bowl/cover
Driver included	Yes
ENEC mark	-
Flammability mark	For mounting on normally flammable surfaces
Glow-wire test	Temperature 650 °C, duration 5 s
Light source replaceable	No
Number of gear units	1 unit
Number of light sources	1 pc
Optic type	Wide beam
Service tag	Yes

## Initial Performance (IEC Compliant)

Initial chromaticity	(0.38, 0.38) SDCM <5
Init. Color Rendering Index	≥80
Luminous flux tolerance	+/-10%

## Mechanical and Housing

Color	Gray
Diameter	-

## General Information

Order Code	Full Product Name	Lamp family code
911401571141	BY120P G3 LED105S/840 PIR WB GR	LED105S
911401571241	BY121P G3 LED205S/840 PIR WB GR	LED205S
911401571441	BY121P G3 LED205S/865 PIR WB GR	LED205S
911401571541	BY120P G3 LED105S/865 PIR WB GR	LED105S

## Initial Performance (IEC Compliant)

Order Code	Full Product Name	Init. Corr. Color Temperature	Initial LED luminaire efficacy	Initial luminous flux	Initial input power
911401571141	BY120P G3 LED105S/840 PIR WB GR	4000 K	129 lm/W	10500 lm	85 W

Order Code	Full Product Name	Init. Corr. Color Temperature	Initial LED luminaire efficacy	Initial luminous flux	Initial input power
911401571241	BY121P G3 LED205S/840 PIR WB GR	4000 K	130 lm/W	20500 lm	155 W

## CoreLine Highbay

Order Code	Full Product Name	Init. Corr. Color Temperature	Initial LED luminaire efficacy	Initial luminous flux	Initial input power
911401571441	BY121P G3 LED205S/865 PIR WB GR	6500 K	130 lm/W	20500 lm	155 W

Order Code	Full Product Name	Init. Corr. Color Temperature	Initial LED luminaire efficacy	Initial luminous flux	Initial input power
911401571541	BY120P G3 LED105S/865 PIR WB GR	6500 K	125 lm/W	10500 lm	85 W

