



CoreLine High-bay G3 – 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

CoreLine Highbay

Application

- Industry
- Warehouses
- Exhibition halls

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 Color	4000 K
Temperature	
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 °C

Operating temperature range	-30 to +40 °C
Driver	Built-in
Mains voltage	230 V / 50-60 Hz
Dimming	Yes
Material	Housing: die-cast aluminum Cover: polycarbonate, 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

CoreLine Highbay gen3 BY120P
luminaire



CoreLine Highbay gen3 BY121P
luminaire



CoreLine High-bay BY121P luminaire



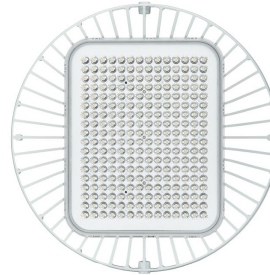
CoreLine Highbay

Product details

Easy to install – external IP65 connector

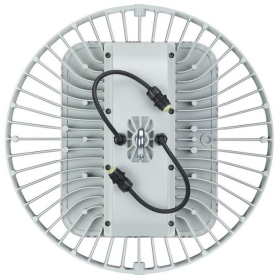


Bottom view



Top view

Side view



Side view

Easy to install – external IP65 connector



Bottom view

Top view



CoreLine Highbay

Product details



Easy to install – external IP65 connector

Accessories

Mounting bracket

Ordercode 911401505731



Mounting bracket

Ordercode 911401505831



Mounting bracket

Ordercode 911401578411



Application Conditions

Average ambient temperature	25 °C
Suitable for random switching	Yes (relates to presence/ motion detection and daylight harvesting)

Approval and Application

Mech. impact protection code	IK07
Ingress protection code	IP65

General Information

Beam angle of light source	- °
CE mark	CE mark
Color	Gray
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 light sources	1 pc
Optic type	Wide beam
Standard RAL color	Light gray

Initial Performance (IEC Compliant)

Initial chromaticity	(0.38, 0.38) SDCM ~LT~5
Init. Corr. Color Temperature	4000 K
Init. Color Rendering Index	≥80
Luminous flux tolerance	+/-10%

Over Time Performance (IEC Compliant)

Driver failure rate at 5000 h	1 %
Median useful life L80B50	30000 h
Median useful life L90B50	15000 h

Application Conditions

order code	Ambient temperature range	Maximum dim level
911401505331	-30 to +45 °C	-
911401505531	-30 to +45 °C	10%
911401505431	-30 to +45 °C	-
911401505631	-30 to +45 °C	10%
911401578311	-30 to +40 °C	Not applicable

Controls and Dimming

order code	Dimmable
911401505331	No
911401505531	Yes
911401505431	No

order code	Dimmable
911401505631	Yes
911401578311	No

Operating and Electrical

order code	Input Voltage
911401505331	200 to 240 V
911401505531	200 to 240 V
911401505431	200 to 240 V

order code	Input Voltage
911401505631	200 to 240 V
911401578311	220 to 240 V

General Information

order code	Lamp family code	Number of gear units
911401505331	LED105S	1 unit

order code	Lamp family code	Number of gear units
911401505531	LED105S	1 unit

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order code	Lamp family code	Number of gear units
911401505431	LED205S	1 unit
911401505631	LED205S	1 unit

order code	Lamp family code	Number of gear units
911401578311	LED205S	-

Initial Performance (IEC Compliant)

order code	Initial LED luminaire efficacy	Initial luminous flux	Initial input power
911401505331	130.000 lm/W	10500 lm	85 W
911401505531	130.000 lm/W	10500 lm	81 W
911401505431	130.000 lm/W	20500 lm	155 W

order code	Initial LED luminaire efficacy	Initial luminous flux	Initial input power
911401505631	130.000 lm/W	20500 lm	155 W
911401578311	104 lm/W	20500 lm	198 W

