



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
Lumen maintenance at median useful life*	L70
50000 h	
Control gear failure rate	5%
at median useful life	
50000 h	

Performance Ambient	+25 °C
Temperature Tq	
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



BY121P PIR

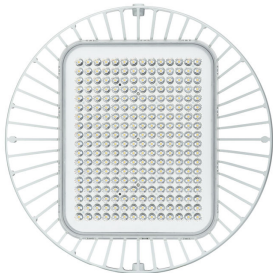


Product details

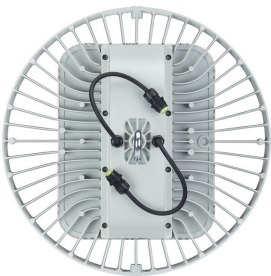
Easy to install – external IP65 connector



Bottom view



Top view



Side view



Side view



Easy to install – external IP65 connector



Bottom view



Top view



CoreLine Highbay

Product details



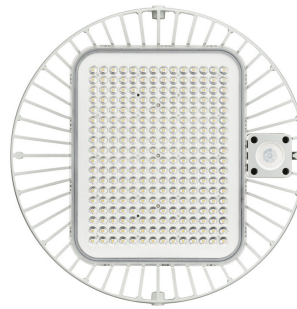
Easy to install – external IP65 connector



CoreLine_Highbay_gen3-BY121P-PIR-1DPP.TIF



CoreLine_Highbay_gen3-BY121P-PIR-2DPP.TIF



CoreLine_Highbay_gen3-BY121P-PIR-3DPP.TIF

Operating and Electrical

Input Voltage 220 to 240 V

General Information

Optical cover/lens type Polycarbonate bowl/cover

Application Conditions

Order Code	Full Product Name	Ambient temperature range	Maximum dim level	Suitable for random switching
911401505331	BY120P G3 LED105S/840 PSU WB GR	-30 to +45 °C	Not applicable	Yes
911401505531	BY120P G3 LED105S/840 PSD WB GR	-30 to +45 °C	10%	Yes
911401524151	BY120P G3 LED105S/840 PSD NB GR	-	-	-
911401524251	BY120P G3 LED105S/840 PSU NB GR	-	-	-
911401571041	BY120P G3 LED105S/865 PSU WB GR	-30 to +45 °C	-	Yes

Order Code	Full Product Name	Ambient temperature range	Maximum dim level	Suitable for random switching
911401505431	BY121P G3 LED205S/840 PSU WB GR	-30 to +45 °C	Not applicable	Yes
911401505631	BY121P G3 LED205S/840 PSD WB GR	-30 to +45 °C	10%	Yes
911401524451	BY121P G3 LED205S/840 PSD NB GR	-	-	-
911401571341	BY121P G3 LED205S/865 PSU WB GR	-30 to +45 °C	-	Yes
911401571141	BY120P G3 LED105S/840 PIR WB GR	-30 to +45 °C	25%	Yes

CoreLine Highbay

Order Code	Full Product Name	Ambient temperature range	Maximum dim level	Suitable for random switching
911401571241	BY121P G3 LED205S/840 PIR WB GR	-30 to +45 °C	25%	Yes
911401571441	BY121P G3 LED205S/865 PIR WB GR	-30 to +45 °C	25%	Yes

Order Code	Full Product Name	Ambient temperature range	Maximum dim level	Suitable for random switching
911401571541	BY120P G3 LED105S/865 PIR WB GR	-30 to +45 °C	25%	Yes

Approval and Application

Order Code	Full Product Name	Mech. impact protection code	Ingress protection code
911401505331	BY120P G3 LED105S/840 PSU WB GR	IK07	IP65
911401505531	BY120P G3 LED105S/840 PSD WB GR	IK07	IP65
911401524151	BY120P G3 LED105S/840 PSD NB GR	-	-
911401524251	BY120P G3 LED105S/840 PSU NB GR	-	-
911401571041	BY120P G3 LED105S/865 PSU WB GR	IK07	IP65
911401505431	BY121P G3 LED205S/840 PSU WB GR	IK07	IP65
911401505631	BY121P G3 LED205S/840 PSD WB GR	IK07	IP65

Order Code	Full Product Name	Mech. impact protection code	Ingress protection code
911401524451	BY121P G3 LED205S/840 PSD NB GR	-	-
911401571341	BY121P G3 LED205S/865 PSU WB GR	IK07	IP65
911401571141	BY120P G3 LED105S/840 PIR WB GR	IK07	IP65
911401571241	BY121P G3 LED205S/840 PIR WB GR	IK07	IP65
911401571441	BY121P G3 LED205S/865 PIR WB GR	IK07	IP65
911401571541	BY120P G3 LED105S/865 PIR WB GR	IK07	IP65

Controls and Dimming

Order Code	Full Product Name	Dimmable
911401505331	BY120P G3 LED105S/840 PSU WB GR	No
911401505531	BY120P G3 LED105S/840 PSD WB GR	Yes
911401524151	BY120P G3 LED105S/840 PSD NB GR	-
911401524251	BY120P G3 LED105S/840 PSU NB GR	-
911401571041	BY120P G3 LED105S/865 PSU WB GR	No
911401505431	BY121P G3 LED205S/840 PSU WB GR	No
911401505631	BY121P G3 LED205S/840 PSD WB GR	Yes

Order Code	Full Product Name	Dimmable
911401524451	BY121P G3 LED205S/840 PSD NB GR	-
911401571341	BY121P G3 LED205S/865 PSU WB GR	No
911401571141	BY120P G3 LED105S/840 PIR WB GR	Yes
911401571241	BY121P G3 LED205S/840 PIR WB GR	Yes
911401571441	BY121P G3 LED205S/865 PIR WB GR	Yes
911401571541	BY120P G3 LED105S/865 PIR WB GR	Yes

General Information (1/2)

Order Code	Full Product Name	Beam angle of light source	Protection class		Driver included	ENEC mark	Flammability mark	Glow-wire test
			CE mark	IEC				
911401505331	BY120P G3 LED105S/840 PSU WB GR	- °	CE mark	Safety class I	Yes	-	For mounting on normally flammable surfaces	Temperature 650 °C, duration 5 s
911401505531	BY120P G3 LED105S/840 PSD WB GR	- °	CE mark	Safety class I	Yes	-	For mounting on normally flammable surfaces	Temperature 650 °C, duration 5 s
911401524151	BY120P G3 LED105S/840 PSD NB GR	-	-	-	-	-	-	-
911401524251	BY120P G3 LED105S/840 PSU NB GR	-	-	-	-	-	-	-
911401571041	BY120P G3 LED105S/865 PSU WB GR	- °	CE mark	Safety class I	Yes	-	For mounting on normally flammable surfaces	Temperature 650 °C, duration 5 s
911401505431	BY121P G3 LED205S/840 PSU WB GR	- °	CE mark	Safety class I	Yes	-	For mounting on normally flammable surfaces	Temperature 650 °C, duration 5 s
911401505631	BY121P G3 LED205S/840 PSD WB GR	- °	CE mark	Safety class I	Yes	-	For mounting on normally flammable surfaces	Temperature 650 °C, duration 5 s

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Order Code	Full Product Name	Beam angle	Protection class		Driver included	ENEC mark	Flammability mark	Glow-wire test
		of light source	CE mark	IEC				
911401524451	BY121P G3 LED205S/840 PSD NB GR	-	-	-	-	-	-	-
911401571341	BY121P G3 LED205S/865 PSU WB GR	- °	CE mark	Safety class I	Yes	-	For mounting on normally flammable surfaces	Temperature 650 °C, duration 5 s
911401571141	BY120P G3 LED105S/840 PIR WB GR	- °	CE mark	Safety class I	Yes	-	For mounting on normally flammable surfaces	Temperature 650 °C, duration 5 s
911401571241	BY121P G3 LED205S/840 PIR WB GR	- °	CE mark	Safety class I	Yes	-	For mounting on normally flammable surfaces	Temperature 650 °C, duration 5 s
911401571441	BY121P G3 LED205S/865 PIR WB GR	- °	CE mark	Safety class I	Yes	-	For mounting on normally flammable surfaces	Temperature 650 °C, duration 5 s
911401571541	BY120P G3 LED105S/865 PIR WB GR	- °	CE mark	Safety class I	Yes	-	For mounting on normally flammable surfaces	Temperature 650 °C, duration 5 s

General Information (2/2)

Order Code	Full Product Name	Lamp family	Light source	Number of gear units	Number of light sources	Optic type
		code	replaceable			
911401505331	BY120P G3 LED105S/840 PSU WB GR	LED105S	No	1 unit	1 pc	Wide beam
911401505531	BY120P G3 LED105S/840 PSD WB GR	LED105S	No	1 unit	1 pc	Wide beam
911401524151	BY120P G3 LED105S/840 PSD NB GR	-	-	-	-	-
911401524251	BY120P G3 LED105S/840 PSU NB GR	-	-	-	-	-
911401571041	BY120P G3 LED105S/865 PSU WB GR	LED105S	No	1 unit	1 pc	Wide beam
911401505431	BY121P G3 LED205S/840 PSU WB GR	LED205S	No	1 unit	1 pc	Wide beam
911401505631	BY121P G3 LED205S/840 PSD WB GR	LED205S	No	1 unit	1 pc	Wide beam
911401524451	BY121P G3 LED205S/840 PSD NB GR	-	-	-	-	-
911401571341	BY121P G3 LED205S/865 PSU WB GR	LED205S	No	1 unit	1 pc	Wide beam
911401571141	BY120P G3 LED105S/840 PIR WB GR	LED105S	No	1 unit	1 pc	Wide beam
911401571241	BY121P G3 LED205S/840 PIR WB GR	LED205S	No	1 unit	1 pc	Wide beam
911401571441	BY121P G3 LED205S/865 PIR WB GR	LED205S	No	1 unit	1 pc	Wide beam
911401571541	BY120P G3 LED105S/865 PIR WB GR	LED105S	No	1 unit	1 pc	Wide beam

Initial Performance (IEC Compliant)

Order Code	Full Product Name	Initial chromaticity	Init. Corr. Color	Init. Color	Initial LED luminaire efficacy	Initial luminous flux	Luminous flux tolerance	Initial input power
			Temperature	Rendering Index				
911401505331	BY120P G3 LED105S/840 PSU WB GR	(0.38, 0.38) SDCM <5	4000 K	≥80	125 lm/W	10500 lm	+/-10%	85 W
911401505531	BY120P G3 LED105S/840 PSD WB GR	(0.38, 0.38) SDCM <5	4000 K	≥80	125 lm/W	10500 lm	+/-10%	81 W

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Order Code	Full Product Name	Initial chromaticity	Init. Corr. Color Temperature	Init. Color Rendering Index	Initial LED luminaire efficacy	Initial luminous flux	Luminous flux tolerance	Initial input power
911401524151	BY120P G3 LED105S/840 PSD NB GR	-	-	-	-	-	-	-
911401524251	BY120P G3 LED105S/840 PSU NB GR	-	-	-	-	-	-	-
911401571041	BY120P G3 LED105S/865 PSU WB GR	(0.38, 0.38) SDCM <5	6500 K	≥80	125 lm/W	10500 lm	+/-10%	85 W
911401505431	BY121P G3 LED205S/840 PSU WB GR	(0.38, 0.38) SDCM <5	4000 K	≥80	130 lm/W	20500 lm	+/-10%	155 W
911401505631	BY121P G3 LED205S/840 PSD WB GR	(0.38, 0.38) SDCM <5	4000 K	≥80	130 lm/W	20500 lm	+/-10%	155 W
911401524451	BY121P G3 LED205S/840 PSD NB GR	-	-	-	-	-	-	-
911401571341	BY121P G3 LED205S/865 PSU WB GR	(0.38, 0.38) SDCM <5	6500 K	≥80	130 lm/W	20500 lm	+/-10%	155 W
911401571141	BY120P G3 LED105S/840 PIR WB GR	(0.38, 0.38) SDCM <5	4000 K	≥80	129 lm/W	10500 lm	+/-10%	85 W
911401571241	BY121P G3 LED205S/840 PIR WB GR	(0.38, 0.38) SDCM <5	4000 K	≥80	130 lm/W	20500 lm	+/-10%	155 W
911401571441	BY121P G3 LED205S/865 PIR WB GR	(0.38, 0.38) SDCM <5	6500 K	≥80	130 lm/W	20500 lm	+/-10%	155 W
911401571541	BY120P G3 LED105S/865 PIR WB GR	(0.38, 0.38) SDCM <5	6500 K	≥80	125 lm/W	10500 lm	+/-10%	85 W

Mechanical and Housing

Order Code	Full Product Name	Color	Diameter	Order Code	Full Product Name	Color	Diameter
911401505331	BY120P G3 LED105S/840 PSU WB GR	Gray	-	911401524451	BY121P G3 LED205S/840 PSD NB GR	-	-
911401505531	BY120P G3 LED105S/840 PSD WB GR	Gray	-	911401571341	BY121P G3 LED205S/865 PSU WB GR	Gray	-
911401524151	BY120P G3 LED105S/840 PSD NB GR	-	-	911401571141	BY120P G3 LED105S/840 PIR WB GR	Gray	-
911401524251	BY120P G3 LED105S/840 PSU NB GR	-	-	911401571241	BY121P G3 LED205S/840 PIR WB GR	Gray	-
911401571041	BY120P G3 LED105S/865 PSU WB GR	Gray	-	911401571441	BY121P G3 LED205S/865 PIR WB GR	Gray	-
911401505431	BY121P G3 LED205S/840 PSU WB GR	Gray	-	911401571541	BY120P G3 LED105S/865 PIR WB GR	Gray	-
911401505631	BY121P G3 LED205S/840 PSD WB GR	Gray	-				

