



Energy-efficient lighting for industrial and commercial applications

SmartBright Highbay

SmartBright Essential Highbay is a high efficient and reliable LED luminaire, designed for industrial application without humid and dust protection requirements. It enables point to point replacement of HID conventional luminaires, and delivers significant energy savings of up to 64% as compared to HID lamp system. With the innovation of micro prism structure optical plate, it provides an excellent glare control and smooth uniform lighting surface, which effectively improve the comfort of your environment.

Benefits

- High energy efficient
- Elegant design
- High quality light effect

Features

- System efficacy of 90lm/W
- Micro prism optical plate: Low glare, good uniformity
- Solid SPCC housing with anti-fire PC cover
- 25,000hrs lifetime @Ta35C
- Suitable for pole and hook mounting

Application

- Industry
- High ceiling indoor

Versions



BY218P LED180 PSU



BY218P LED90 PSU



BY218P LED50 PSU

Application Conditions

Ambient temperature range	-20 to +40 °C
Average ambient temperature	25 °C
Suitable for random switching	No

Approval and Application

Mech. impact protection code	IK03
Ingress protection code	IP20

Controls and Dimming

Dimmable	No
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Operating and Electrical

Input Voltage	220-240 V
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General Information

Beam angle of light source	120 °
CE mark	CE mark
Protection class IEC	Safety class I (I)
Optical cover/lens type	MLO-PC
Driver included	Yes
ENEC mark	-
Flammability mark	NO
Gear	-
Glow-wire test	650/30
Light source replaceable	No
Optic type	WB
UL mark	-

Initial Performance (IEC Compliant)

Init. Color Rendering Index	>75
Luminous flux tolerance	+/-7.5%

Mechanical and Housing

Color	Gray and gray
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Over Time Performance (IEC Compliant)

Driver failure rate at 5000 h	1 %
Median useful life L80B50	20000 h
Median useful life L90B50	15000 h

General Information

Order Code	Full Product Name	Lamp family code	Number of gear units
911401560221	BY218P LED180/CW PSU	-	2 units
911401560321	BY218P LED180/NW PSU	-	2 units
911401560421	BY218P LED90/CW PSU	LED90S	1 unit
911401560521	BY218P LED90/NW PSU	LED90S	1 unit
911401560621	BY218P LED50/CW PSU	LED52S	1 unit
911401560721	BY218P LED50/NW PSU	LED52S	1 unit

Initial Performance (IEC Compliant) (1/2)

Order Code	Full Product Name	Initial chromaticity	Init. Corr. Color Temperature	Initial LED luminaire efficacy	Initial luminous flux
911401560221	BY218P LED180/CW PSU	(0.31, 0.32) SDCM <5	6500 K	90 lm/W	18000 lm
911401560321	BY218P LED180/NW PSU	(0.38, 0.38) SDCM <5	4000 K	90 lm/W	18000 lm

Order Code	Full Product Name	Initial chromaticity	Init. Corr. Color Temperature	Initial LED luminaire efficacy	Initial luminous flux
911401560421	BY218P LED90/CW PSU	(0.31, 0.32) SDCM <5	6500 K	90 lm/W	9000 lm
911401560521	BY218P LED90/NW PSU	(0.38, 0.38) SDCM <5	4000 K	90 lm/W	9000 lm

Order Code	Full Product Name	Initial chromaticity	Init. Corr. Color Temperature	Initial LED luminaire efficacy	Initial luminous flux
911401560621	BY218P LED50/CW PSU	(0.31, 0.32)	6500 K	87 lm/W	5200 lm

Order Code	Full Product Name	Initial chromaticity	Init. Corr. Color Temperature	Initial LED luminaire efficacy	Initial luminous flux
911401560721	BY218P LED50/NW PSU	(0.38, 0.38)	4000 K	87 lm/W	5200 lm

Initial Performance (IEC Compliant) (2/2)

Order Code	Full Product Name	Initial input power
911401560221	BY218P LED180/CW PSU	200 W
911401560321	BY218P LED180/NW PSU	200 W
911401560421	BY218P LED90/CW PSU	100 W

Order Code	Full Product Name	Initial input power
911401560521	BY218P LED90/NW PSU	100 W
911401560621	BY218P LED50/CW PSU	60 W
911401560721	BY218P LED50/NW PSU	60 W

