



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 |
|----------|----|

Operating and Electrical

| | |
|---------------|-----------|
| Input Voltage | 220-240 V |
|---------------|-----------|

General Information

| | |
|----------------------------|---|
| Beam angle of light source | 120 ° |
| CE mark | CE mark |
| Protection class IEC | Safety class I |
| Optical cover/lens type | Micro-lens optic in polycarbonate cover |
| Driver included | Yes |
| ENEC mark | - |
| Flammability mark | - |
| Gear | - |
| Glow-wire test | Temperature 650 °C, duration 30 s |
| Light source replaceable | No |
| Optic type | Wide beam |
| UL mark | - |

Initial Performance (IEC Compliant)

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

Mechanical and Housing

| | |
|-------|---------------|
| Color | Gray and gray |
|-------|---------------|

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) | 6500 K | 90 lm/W | 18000 lm |
| | | SDCM <5 | | | |

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

| 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) SDCM <5 | 6500 K | 87 lm/W | 5200 lm |
| 911401560721 | BY218P LED50/NW PSU | (0.38, 0.38) SDCM <5 | 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 |

