



CoreLine Highbay Gen5

BY121P G5 LED200S/840 PSD WB

CoreLine Highbay Gen5, 126 W, 20500 lm, 4000 K, DALI, Wide beam, IP65, IK08

CoreLine Highbay Gen5 delivers on the CoreLine promise of innovative, easy-to-use and high-quality luminaires. A reliable, highly-efficient luminaire with a very long-lifetime, it delivers great energy savings and requires less maintenance. At the same time, CoreLine Highbay is very easy to handle. The luminaire can be installed on your existing grid and the electrical connection is a straightforward task, with no need to open the luminaire and an external IP65 connector. With a choice of two beam angles: narrow and wide beam, you can adjust your lighting plan to suit your exact needs. This range also includes Interact Ready luminaires with integrated wireless communications and integrated movement and daylight sensors. So CoreLine Highbay Gen5 is ready to be used with any Interact connected lighting system.

Product data

| General Information | |
|--------------------------|-------------|
| Light source replaceable | No |
| Number of gear units | 1 unit |
| Driver included | Yes |
| Service tag | Yes |
| Lighting Technology | LED |
| Value ladder | Performance |
| Warranty period | 5 years |

| Light Technical | |
|------------------------------------|-------------------|
| Luminous Flux | 20,500 lm |
| Saturated Red (R9) | <50 |
| Correlated Color Temperature (Nom) | 4000 K |
| Luminous Efficacy (rated) (Nom) | 163 lm/W |
| Color rendering index (CRI) | >80 |
| Light source color | 840 neutral white |
| Optic type | Wide beam |
| Luminaire light beam spread | 85° x 85° |

CoreLine Highbay Gen5

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| Unified glare rating CEN | 25 |
|--------------------------|----|

Operating and Electrical

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|--|-----------------------------------|
| Input Voltage | 220 to 240 V |
| Line Frequency | 50 or 60 Hz |
| Inrush current | 53 A |
| Inrush time | 0.3 ms |
| Power Consumption | 126 W |
| Power Factor (Fraction) | 0.95 |
| Connection | Connection unit 3-pole |
| Cable | Cable 0.3 m with connector 3-pole |
| Number of products on MCB of 16 A type B | 8 |
| Suitable for random switching | Yes |
| Protection class IEC | Safety class I |
| Total harmonic distortion | 15 % |

Controls and Dimming

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|-------------------------------|---------------------------------------|
| Dimmable | Yes |
| Driver/power unit/transformer | Power supply unit with DALI interface |
| Control interface | DALI |
| Constant light output | No |
| DALI Standard | DALI-2™ |
| Maximum dim level | 10% |

Mechanical and Housing

| | |
|------------------------------|--|
| Housing Material | Aluminum die-cast |
| Reflector material | - |
| Optic material | Polycarbonate |
| Optical cover material | Polycarbonate |
| Fixation material | - |
| Housing Color | Grey |
| Optical cover finish | Clear |
| Overall length | 330 mm |
| Overall height | 99 mm |
| Overall diameter | 330 mm |
| Ingress protection code | IP65 [Dust penetration-protected, jet-proof] |
| Mech. impact protection code | IK08 [5 J vandal-protected] |
| Net Weight (Piece) | 3.540 kg |

Approval and Application

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| Glow-wire test | Temperature 650 °C, duration 30 s |
| Flammability mark | For mounting on normally flammable surfaces |
| CE mark | Yes |
| ENEC mark | ENEC mark |
| Photobiological risk | Photobiological risk group 1 @200mm to EN62778 |
| Photobiological risk specification | 18.2 m |
| EU RoHS compliant | Yes |
| Performance ambient temperature Tq | 35 °C |
| Flickering value (PstLM) - Flickering value as per EN 61000-3-3 | 0.5 |

| | |
|--|---------------|
| Stroboscopic effect visibility measure (SVM) 1 | |
| Ambient temperature range | -30 to +50 °C |

Initial Performance (IEC Compliant)

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|--|-----------------------|
| Luminous flux tolerance | +/-10% |
| Initial chromaticity | (0.385, 0.380) SDCM<5 |
| Power consumption tolerance | +/-10% |
| Standard Deviation of Colour Matching (McAdam ellipse) | SDCM<5 |

Over Time Performance (IEC Compliant)

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|--|------|
| Control gear failure rate at median useful life 50000 h | 5 % |
| Control gear failure rate at median useful life 100000 h | 10 % |
| Lumen maintenance (EN-IEC 62722-2-1) at median useful life* 50000 h | L85 |
| Lumen maintenance (EN-IEC 62722-2-1) at median useful life* 100000 h | L75 |

Sustainability Data

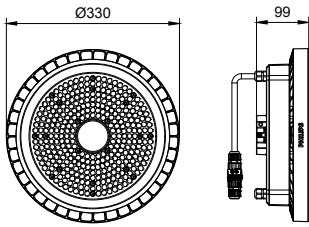
| | |
|--|--|
| Sustainability rating | Unclassified |
| Repair class | Repair Class D, this product is not designed to be repaired. |
| Embedded carbon (A1-A3) | 62.3 kg CO ₂ e |
| Product non-virgin material ratio | 6.64 % |
| Recyclable content ratio of the finished product | 51.6 % |
| GWP total B6 (kg CO ₂ eq) Declared Unit | Please calculate using your local energy mix value: Power Declared Unit (kW) * Service life (hrs) Declared Unit * Energy mix (kg CO ₂ eq / kwh) |
| GWP total B6 (kg CO ₂ eq) Functional Unit | Please calculate using your local energy mix value: Power Declared Unit (kW) * 1000 (lm) /lumen output (lm) Declared Unit * 35000 (hrs) * Energy mix (kg CO ₂ eq / kwh) |

Product Data

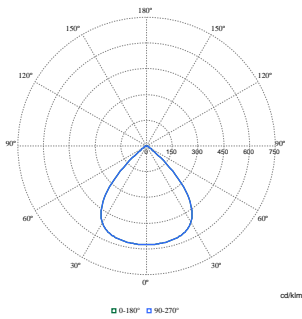
| | |
|---------------------------------|------------------------------|
| Order product name | BY121P G5 LED200S/840 PSD WB |
| Full product name | BY121P G5 LED200S/840 PSD WB |
| Full product code | 871951495573800 |
| Order code | 911401629908 |
| Material Nr. (12NC) | 911401629908 |
| Numerator - Quantity Per Pack | 1 |
| EAN/UPC - Product/Case | 8719514955738 |
| Numerator - Packs per outer box | 1 |
| EAN/UPC - Case | 8719514955738 |

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Dimensional drawing



Photometric data



Polar Normal (separate) - 911401629908

