PHILIPS

Lighting

# CoreLine Highbay

## BY120P G3 LED105S/840 PSD WB GR

CoreLine Highbay, 81 W, 10500 lm, 4000 K, DALI, 100°

Following the successful introduction of the CoreLine High-bay in 2013, the upgrade to a new generation of LEDs has further improved color rendering and total cost of ownership. Designed as a replacement for HPI 250/400 W luminaires, CoreLine High-bay offers customers all the benefits of LED lighting – fresh light quality, longer service lifetime, reduced energy consumption and 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.

### Product data

| General Information | |
|---|---|
| **Lamp family code** | LED105S [LED module, system flux 10500 lm] |
| **Light source replaceable** | No |
| **Number of gear units** | 1 unit |
| **Driver included** | Yes |
| **Remarks** | *-Per Lighting Europe guidance paper "Evaluating performance of LED based luminaires - January 2018": statistically there is no relevant difference in lumen maintenance between B50 and for example B10. Therefore, the median useful life (B50) value also represents the B10 value. |
| **Light source engine type** | LED |
| **Service tag** | Yes |
| **CE mark** | CE mark |
| **Warranty period** | 3 years + 2 years upon registration |

| | |
|---|---|
| **Flammability mark** | For mounting on normally flammable surfaces |
| **ENEC mark** | - |
| **Glow-wire test** | Temperature 650 °C, duration 5 s |
| **EU RoHS compliant** | Yes |

| Light Technical | |
|---|---|
| **Luminous Flux** | 10,500 lm |
| **Correlated Color Temperature (Nom)** | 4000 K |
| **Luminous Efficacy (rated) (Nom)** | 125 lm/W |
| **Color rendering index (CRI)** | ≥80 |
| **Number of light sources** | 1 |
| **Beam angle of light source** | - degree(s) |
| **Light source color** | 840 neutral white |
| **Optic type** | Wide beam |
| **Optical cover type** | Polycarbonate bowl/cover |

# CoreLine Highbay

| | |
|---|---|
| **Luminaire light beam spread** | 100° |

## Operating and Electrical

| | |
|---|---|
| **Input Voltage** | 220 to 240 V |
| **Line Frequency** | 50 to 60 Hz |
| **Average CLO power consumption** | 75 W |
| **Inrush current** | 46 A |
| **Inrush time** | 0.25 ms |
| **Power Consumption** | 81 W |
| **Power Factor (Fraction)** | 0.9 |
| **Connection** | Connection unit 3-pole |
| **Cable** | Cable 0.5 m with cable connector 3-pole |
| **Number of products on MCB of 16 A type B** | 11 |

## Temperature

| | |
|---|---|
| **Ambient temperature range** | -30 to +45 °C |

## Controls and Dimming

| | |
|---|---|
| **Dimmable** | Yes |
| **Driver/power unit/transformer** | Power supply unit with DALI interface |
| **Control interface** | DALI |
| **Constant light output** | Yes |

## Mechanical and Housing

| | |
|---|---|
| **Housing Material** | Aluminum |
| **Reflector material** | - |
| **Optic material** | Polycarbonate |
| **Optical cover material** | Polycarbonate |
| **Fixation material** | - |
| **Housing Color** | Grey |
| **Optical cover finish** | Clear |
| **Overall length** | 382 mm |
| **Overall width** | 379 mm |
| **Overall height** | 141 mm |
| **Overall diameter** | 379 mm |

| | |
|---|---|
| **Dimensions (Height x Width x Depth)** | 141 x 379 x 382 mm |

## Approval and Application

| | |
|---|---|
| **Ingress protection code** | IP65 [Dust penetration-protected, jet-proof] |
| **Mech. impact protection code** | IK07 [2 J reinforced] |
| **Protection class IEC** | Safety class I |

## Initial Performance (IEC Compliant)

| | |
|---|---|
| **Luminous flux tolerance** | +/-10% |
| **Initial chromaticity** | (0.38, 0.38) SDCM <5 |
| **Power consumption tolerance** | +/-10% |

## Over Time Performance (IEC Compliant)

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

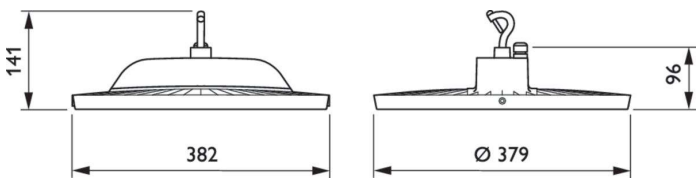
## Application Conditions

| | |
|---|---|
| **Performance ambient temperature Tq** | 25 °C |
| **Maximum dim level** | 10% |
| **Suitable for random switching** | Yes |

## Product Data

| | |
|---|---|
| **Order product name** | BY120P G3 LED105S/840 PSD WB GR |
| **Full product name** | BY120P G3 LED105S/840 PSD WB GR |
| **Full product code** | 871016330146400 |
| **Order code** | 30146400 |
| **Material Nr. (12NC)** | 911401505531 |
| **Numerator - Quantity Per Pack** | 1 |
| **EAN/UPC - Product/Case** | 8710163301464 |
| **Numerator - Packs per outer box** | 1 |
| **EAN/UPC - Case** | 8710163301464 |

## Dimensional drawing



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2023, May 1 - data subject to change