



# Coreline Highbay Gen4

## BY120P G4 LED100S/840 PSD WB

Coreline Highbay Gen4, 73 W, 10500 lm, 4000 K, DALI, 90°, IP65, IK07

CoreLine Highbay Gen4 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 savings on energy 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 Gen4 is ready to be used with any Interact connected lighting system.

### Product data

| General Information      |   | Light Technical                  |                                   |
|--------------------------|---|----------------------------------|-----------------------------------|
| Light source replaceable | No  | ENEC mark                        | ENEC mark                         |
| Number of gear units     | Unit                                      | Glow-wire test                   | Temperature 650 °C, duration 30 s |
| Driver included          | Yes                                       | EU RoHS compliant                | Yes                               |
| Light source engine type | LED                                       |                                  |                                   |
| Value ladder             | Performance                               | Luminous Flux                    | 10,500 lm                         |
| CE mark                  | CE mark                                   | Correlated Colour Temperature    | 4000 K                            |
| Warranty period          | 5 years                                   | Luminous efficacy (rated) (nom.) | 144 lm/W                          |
| Flammability mark        | For mounting on easily flammable surfaces | Colour rendering index (CRI)     | >80                               |
|                          |   | Beam angle of light source       | 90 x 90 degree(s)                 |

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|                             |                          |
|-----------------------------|--------------------------|
| Light source colour         | 840 neutral white        |
| Optic type                  | Wide beam                |
| Optical cover type          | Polycarbonate bowl/cover |
| Luminaire light beam spread | 90°                      |
| Unified Glare Rating (CEN)  | 24                       |

## Operating and Electrical

|  |                                   |
|--|-----------------------------------|
| Input Voltage                            | 220 to 240 V                      |
| Line Frequency                           | 50 to 60 Hz                       |
| Initial CLO power consumption            | - W                               |
| Average CLO power consumption            | - W                               |
| Inrush current                           | 53 A                              |
| Inrush time                              | 0.3 ms                            |
| Power Consumption                        | 73 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 | 13                                |

## 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         | No                                    |

## Mechanical and Housing

|                             |               |
|-----------------------------|---------------|
| Housing material            | Aluminium     |
| Reflector material          | -             |
| Optic material              | Polycarbonate |
| Optical cover/lens material | Polycarbonate |
| Fixation material           | Aluminium     |
| Housing Colour              | Grey          |
| Optical cover/lens finish   | Clear         |
| Overall height              | 445 mm        |
| Overall diameter            | 385 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                                 |
| Photobiological risk         | Photobiological risk group 0 @200mm to EN62778 |

## 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)

|  |       |
|--|-------|
| Driver failure rate at 5,000 hours                       | 0.3 % |
| Control gear failure rate at median useful life 50,000 h | 5 %   |
| Lumen maintenance at median useful life* 50,000 h        | L80   |

## Application Conditions

|                                    |       |
|------------------------------------|-------|
| Performance ambient temperature Tq | 35 °C |
| Maximum dim level                  | 1%    |
| Suitable for random switching      | Yes   |

## Product Data

|                                   |                              |
|-----------------------------------|------------------------------|
| Order product name                | BY120P G4 LED100S/840 PSD WB |
| Full product name                 | BY120P G4 LED100S/840 PSD WB |
| Full EOC                          | 871016333703600              |
| Order code                        | 33703600                     |
| Material no. (12 NC)              | 911401574551                 |
| SAP numerator – quantity per pack | 1                            |
| EAN/UPC – Product/Case            | 8710163337036                |
| Numerator – packs per outer box   | 1                            |
| EAN/UPC – Case                    | 8710163337036                |

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Dimensional drawing

