



# CoreLine Highbay

## BY121P G3 LED205S/840 PSD WB GR

CoreLine Highbay, 155 W, 20500 lm, 4000 K, DALI, 100°

Following the successful introduction of the CoreLine High-bay in 2013, the upgrade to a new generation further improves the total cost of ownership and provides optionally DALI dimming for even further savings. Designed as a replacement for HPI 250/400 W luminaires, CoreLine High-bay G3 offers customers all the benefits of LED lighting – fresh light quality, longer service lifetime, reduced energy consumption and less 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         | LED205S [LED module, system flux 20500 lm]   | CE mark                            | CE mark                                     |
| Light source replaceable | No   | Warranty period                    | 3 years + 2 years upon registration         |
| Number of gear units     | 1 unit   | Flammability mark                  | For mounting on normally flammable surfaces |
| Driver included          | Yes  | ENEC mark                          | -   |
| 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. | Glow-wire test                     | Temperature 650 °C, duration 5 s            |
| Light source engine type | LED  | EU RoHS compliant                  | Yes   |
| Service tag              | Yes  | Light Technical                    |   |
|                          |  | Luminous Flux                      | 20,500 lm                                   |
|                          |  | Correlated Color Temperature (Nom) | 4000 K                                      |
|                          |  | Luminous Efficacy (rated) (Nom)    | 130 lm/W                                    |
|                          |  | Color rendering index (CRI)        | ≥80   |
|                          |  | Number of light sources            | 1   |
|                          |  | Beam angle of light source         | - degree(s)                                 |

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|                             |                          |
|-----------------------------|--------------------------|
| Light source color          | 840 neutral white        |
| Optic type                  | Wide beam                |
| Optical cover type          | Polycarbonate bowl/cover |
| Luminaire light beam spread | 100°                     |

Operating and Electrical

|  |   |
|--|---|
| Input Voltage                            | 220 to 240 V                            |
| Line Frequency                           | 50 to 60 Hz                             |
| Average CLO power consumption            | 142 W                                   |
| Inrush current                           | 53 A                                    |
| Inrush time                              | 0.3 ms                                  |
| Power Consumption                        | 155 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 | 8                                       |

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         | 454 mm        |
| Overall width          | 452 mm        |

|                                     |                    |
|-------------------------------------|--------------------|
| Overall height                      | 152 mm             |
| Overall diameter                    | 452 mm             |
| Dimensions (Height x Width x Depth) | 152 x 452 x 454 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              | BY121P G3 LED205S/840 PSD WB GR |
| Full product name               | BY121P G3 LED205S/840 PSD WB GR |
| Full product code               | 871016330147100                 |
| Order code                      | 911401505631                    |
| Material Nr. (12NC)             | 911401505631                    |
| Numerator - Quantity Per Pack   | 1                               |
| EAN/UPC - Product/Case          | 8710163301471                   |
| Numerator - Packs per outer box | 1                               |
| EAN/UPC - Case                  | 8710163301471                   |

Dimensional drawing



