

## Explosion-protected LED high-bay floodlight

### ExDUEVO

#### nD8301 L110

[ Item no. : 83010 0001 ]



#### General product description

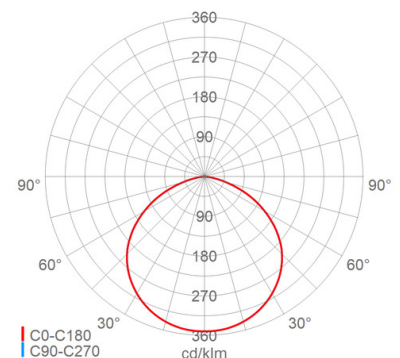
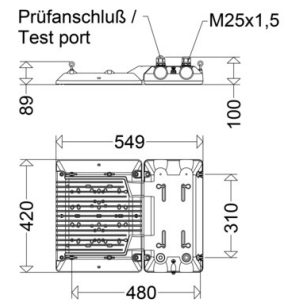
Explosion-protected LED high bay light fitting ExDUEVO of the GreenLine series with outstanding sustainable product design for zone 2/22. Die-cast aluminium housing, multi-part, thermally separated, powder-coated, consisting of: ECG housing with incorporated ECG and smooth surface as well as LED housing with LED modules, frameless tempered safety glass pane and surface with flat cooling fins. LED modules direct beam, Multi-Layer-Technology, with direct connection to the housing for perfect thermal management. ECG with overvoltage, overload and short circuit protection as well as DALI interface for dimming operation.

#### General product benefits

- extremely high service life even at maximum admissible ambient temperature
- perfect thermal management due to direct connection of the LED modules to the housing and separation of ECG and LED housing, large cooling surface, excellent thermal conductivity
- DALI interface (standard) for dimming operation
- colour rendering index  $CRI \geq 80$ , according to the workplace guidelines suitable for nearly all plant locations
- uniform illumination due to Multi-Layer-Technology, i.e. every individual LED illuminates the whole surface, the light distribution curves of the LED are overlapping
- sustainable, interchangeable components
- future proof by using standardised Zhaga LED modules
- GreenLine luminaire, outstanding sustainable design

#### Applications

Hazardous areas zone 2 (gas) and zone 22 (dust), Production, assembly and storage halls in the chemical and pharmaceutical industries, mills, paper mills, etc.



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Technical data

|                                     |  |  |  |
|-------------------------------------|--|--|--|
| <b>Explosion protection</b>         |  | <b>Cover</b>                                   |  |
| EX-Zone:                            | 2 , 22   | Cover type/material:                           | Pane (Safety glass)                            |
| EX-marking gas:                     | II 3 G Ex nR IIC T4 Gc   | Cover characteristic:                          | clear  |
| EX-marking dust:                    | II 3 D Ex tc IIIC T100°C Dc  | Closure:                                       | screwed (Stainless steel (1.4301))             |
| Primary ignition protection method: | nR   | <b>Mounting</b>                                |  |
| Temperature class:                  | T4   | Mounting method (accessories possibly needed): | Suspended                                      |
| Surface temperature:                | T100°C   | Operating position:                            | downwards radiation                            |
| <b>Key technical data</b>           |  | Mounting:                                      | Multi-point                                    |
| Light source:                       | LED  | <b>Features/Certificates</b>                   |  |
| LED module standard:                | Zhaga  | Protection class:                              | I  |
| Exchangeability:                    | light source and control gear replaceable by qualified person  | IP rating:                                     | IP65   |
| Connected load:                     | 67 W   | IK rating:                                     | IK10   |
| Luminaire luminous flux:            | 10800 lm   | Approval marks:                                | CE   |
| Luminous efficacy:                  | 161 lm/W   | Energy efficiency class:                       | D  |
| Colour temperature:                 | 4000 K   | <b>Dimension/Weight</b>                        |  |
| Colour rendering (CRI):             | ≥ 80   | Length:  | 549.00 mm                                      |
| Light colour:                       | 840  | Width/Diameter:                                | 420.00 mm                                      |
| Admissible ambient temperature Ta:  | -20 °C to +40 °C   | Height:  | 100.00 mm                                      |
| Control gear:                       | 1 x ECG, Overload protection , Short circuit protection  | Net weight:                                    | 8.90 kg  |
| <b>Lighting control</b>             |  | EAN/GTIN:                                      | 4041254325033                                  |
| Dimmable:                           | Yes  | <b>Lighting technology</b>                     |  |
| Dimming method:                     | DALI (DIMD)  | Light distribution:                            | wide beam                                      |
| Dimming range:                      | 10 - 100 %   | Photobiological safety:                        | RG1  |
| <b>Service life</b>                 |  | <b>Electrical connection</b>                   |  |
| Service life LED:                   | L70>100000 h (@Ta ≤50°C),<br>L70>90000 h (@Ta >50°C),<br>L80>100000 h (@Ta 25°C), L80>60000 h (@ Ta max) | Rated voltage:                                 | 220 - 240 V, 50/60 Hz                          |
| <b>Housing</b>                      |  | Terminal clamp:                                | Cage clamp, 5-polig, 1 - 4 mm²                 |
| Housing material:                   | Die-cast aluminium   | Max. no. (with CB B16):                        | 22   |
| Varnished:                          | Yes  | CB B10/B13/B20:                                | 14/18/28                                       |
| Colour:                             | grey, DB 702   | CB C10/C13/C16/C20:                            | 22/29/37/45                                    |
|                                     |  | Cable entries:                                 | M25 (1x), cable gland (1x), Plastic, 8 - 17 mm |

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**Optional accessories/spare parts**

| Item no.   | Item name     | Item description  |
|------------|---------------|---|
| 90117 9006 | 2537 G        | cable gland M25 with locknut for Ex-Zone 1/21                   |
| 90119 9001 | 2539 G        | cable gland M25 with blanking plug and locknut for Ex-Zone 1/21 |
| 33001 9004 | 3301/3302 Y P | 1 pair of Y-ropes   |
| 33001 9002 | DBF 3301/3302 | ceiling mounting (1 pair) painted steel                         |