

Explosion-protected LED high-bay floodlight

ExDUEVO**nD8301 L160TB**

[Item no. : 83010 0008]

**General product description**

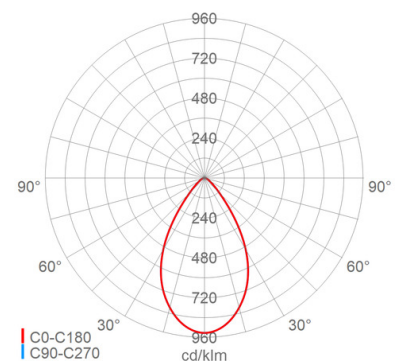
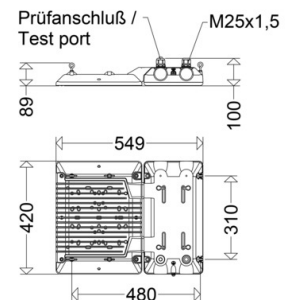
Explosion-protected LED high bay light fitting ExDUEVO of the GreenLine series with outstanding sustainable product design for zone 2/22. Die-cast aluminium housing, multi-part, thermally separated, powder-coated, consisting of: ECG housing with incorporated ECG and smooth surface as well as LED housing 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.
- light fitting is not suitable for use in areas with permanently high humidity and short operation time, e.g. sewage plants and rainwater retention basins



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Technical data

General

EAN/GTIN: 4041254325231

Explosion protection

EX-Zone: 2, 22
 EX-marking gas: II 3 G Ex nR IIC T4 Gc
 EX-marking dust: II 3 D Ex tc IIIC T100°C Dc
 Primary ignition protection method: nR
 Temperature class: T4
 Surface temperature: T100°C
 ATEX: IExU22ATEXB013 X
 IECEx: IECEx IBE 22.0022X

Key technical data

Light source: LED
 LED module standard: Zhaga
 Exchangeability: light source and control gear replaceable by qualified person
 Connected load: 96 W
 Luminaire luminous flux: 15000 lm
 Luminous efficacy: 156 lm/W
 Colour temperature: 4000 K
 Colour rendering (CRI): ≥ 80
 Light colour: 840
 Admissible ambient temperature T_a : -20 °C to +40 °C
 Control gear: 1 x ECG, Overload protection, Short circuit protection
 Energy efficiency class: D
 BEG-eligible (Germany): Yes

Lighting control

Dimmable: Yes
 Dimming method: DALI (DIMD)
 Dimming range: 10 - 100 %
 DALI-addresses per luminaire: 1
 DALI-standard: DT6

Lighting technology

Optical system: Lens optics
 Optical system material: PMMA
 Light distribution: narrow wide beam
 Beam angle: 60 °
 Photobiological safety: RG1

Service life

Service life LED: L80>60000 h (@ T_a max), L80>100000 h (@ T_a 25°C), L70>90000 h (@ T_a >50°C), L70>100000 h (@ T_a ≤50°C)

Electrical connection

Rated voltage: 220 - 240 V, 50/60 Hz
 Terminal clamp: Cage clamp, 5-polig, 1 - 4 mm²
 Max. no. with circuit breaker B16: 22
 CB B10/B13/B20: 14/18/28
 CB C10/C13/C16/C20: 22/29/37/45
 Cable entries: M25 (1x), cable gland (1x), Plastic, 8 - 17 mm

Features/Certificates

Protection class: I
 IP rating: IP65
 IK rating: IK10
 Approval marks: CE

Mounting

Mounting method (accessories possibly needed): Suspended
 Operating position: downwards radiation
 Mounting: Multi-point

Housing

Housing material: Die-cast aluminium
 Varnished: Yes
 Colour: grey, DB 702

Cover

Cover type / material: Pane (Safety glass)
 Cover characteristic: clear
 Closure: screwed (Stainless steel (1.4301))

Sustainability

GreenLine: Yes
 Rezyklat material content ≥ 50%: 50 %
 Dismountable at end of life: Yes
 ≥ 80% recyclable: 80 %
 Construction modular: Yes
 Spareparts availability > 10 years: Yes
 luminaire is upgradeable: Yes
 Guarantee 5 years: Yes
 Packaging made of 100% recyclet paper: Yes

Dimension/Weight

Length: 549.00 mm
 Width / Diameter: 420.00 mm
 Height: 100.00 mm
 Net weight: 9.20 kg

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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