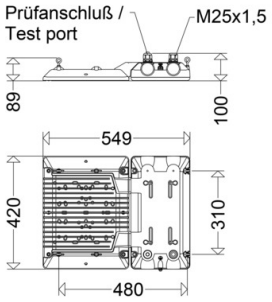
Explosion-protected LED high-bay floodlight

ExDUEVO
nD8301 L160
[Item no. : 83010 0002]

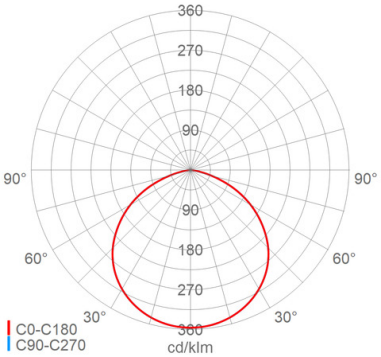
General product description

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≥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
- 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 humiditiy and short operation time, e.g. sewage plants and rainwater retention basins

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Technical data

General

EAN/GTIN:	4041254325170

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:	IBExU22ATEXB013 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:	17000 lm
Luminous efficacy:	177 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

Lighting control

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

Lighting technology

Light distribution:	wide beam
Photobiological safety:	RG1

Service life

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

Electrical connection

Rated voltage:	220 - 240 V, 50/60 Hz
Terminal clamp:	Cage clamp, 5-polig, 1 - 4 mm²

Electrical connection

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))

Product life cycle

Dismountable at end of life:	Yes
recyclable:	80 %
Construction modular:	Yes
Spareparts availability > 10 years:	Yes
luminaire is upgradeable:	Yes
Guarantee 5 years:	Yes
Packaging made of 95% recyclet paper:	Yes

Dimension/Weight

Length:	549.00 mm
Width / Diameter:	420.00 mm
Height:	100.00 mm
Net weight:	8.90 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 9002	DBF 3301/3302	ceiling mounting (1 pair) painted steel
90022 0006	BF SAH Y 420/45 ST P	rope suspension (1 pair) 2-point Y-rope, length 420 mm, load capacity 45 kg, galvanized steel