BARTEC

Escape Ex2

Emergency LED Lighting fixture for zone 2/21

The Escape Ex2 series lighting fixtures are specifically designed for use in potentially explosive areas, certified for ATEX Zone 2/21 hazardous environments. High quality LED components guarantee exceptional efficiency up to 159 lm/W and extremely long lifetime of more than 100,000 hours even at elevated temperatures.

Their IP66/IP67 and IK08 protection ratings guarantee reliable performance even in the harshest industrial conditions. The lightweight yet robust body, made of UV-stable polycarbonate (RAL 7035), ensures long-term durability without degradation from environmental factors. The opal polycarbonate cover provides effective light diffusion while maintaining high impact resistance, further enhancing their operational reliability. These fixtures offer versatile mounting solutions and feature innovative emergency function control that enables safe operation without opening the luminaire in hazardous areas.

- High efficiency with 100,000+ hour lifetime at L90B50 Ta@ 25 °C
- ATEX / IECEx certification ZONE 2/21
- Compact design with robust IK08 housing
- Made in Europe
- Wide temperature range: -30 °C to +60°C

Reference standards

Directive 2014/34/EU	
ATEX Ex protection type	Ⓔx II 3G Ex nR IIC T6 Gc Ⓔx II 2D Ex tb IIIC T85°C Db
ATEX certificate number	*FTZU 26 ATEX 0008X*
Rules of compliance	EN/IEC 60079-0: 2017 EN/IEC 60079-15: 2017 EN/IEC 60079-31: 2022
IECEx Ex protection type	Ex nR IIC T6 Gc Ex tb IIIC T85°C Db
IECEx certificate number	*IECEx FTZU 26.0006X*
Ingress protection	IP66 / IP67
Impact Protection	IK08
Temperature range	-30 °C to +60 °C

Electrical characteristics

Power supply	EP – electronic - 220-240 V AC, 50/60 Hz 220 -240 V DC
Lamp source	LED 4000K, CRI +80 Lifetime: > 100.000 hours L80B50 Ta@ 50/60 °C > 100.000 hours L90B50 Ta@ 25 °C
Connection	Polyamid cable gland M20x1,5mm (6-12 mm diameter)
Terminals	Screwless terminal block, max. wire cross-section 4 mm²
Emergency unit	emergency unit composed of inverter charger and Ni-Cd battery pack, autonomy 180 min

Mechanical characteristics

Body	Plastic material PC (polycarbonate), colour grey RAL 7035
Gasket	Silicon
Cover	PC (polycarbonate) opal
Fastening	Direct fixing to the ceiling or wall of the illuminated space by means of two self-locking clips (standard equipment), self-locking cable suspension on two clips, cable suspension by means of suspension lugs.
Protective cage	Painted iron

Installation

hazardous areas - Zone 2 (Gases) - Zone 21 (Dusts)

Classification

Group II - Category 3G 2D

Available on request

- 3000 K / 5000 K / 6500 K - color temperature
- For acessoris see reference details

Technical data

Order number	Lighting fixture luminous flux [lm]	Power input [W]	Rated power output [lm/W]	Version*	Emergency unit autonomy / output	Temperature range [°C]	Weight [kg]
ESCZ260N0070PS465FE	1086	7.00	149	N0	-	-30 °C to +60 °C	2.33
ESCZ255N0130PS465FE	2148	13.00	159	N0	-	-30 °C to +55 °C	2.33
ESCZ250N0200PS465FE	3189	20.00	145	N0	-	-30 °C to +50 °C	2.73
ESCZ255ND130PS465FE	2148	13.00	159	ND	-	-30 °C to +55°C	2.35
ESCZ240EN070PS465FE	1086	7.00	110	EN	180 min / 438 lm	0 °C to +40 °C	2.73
ESCZ240EN130PS465FE	2148	13.00	129	EN	180 min / 438 lm	0 °C to +40 °C	2.73
ESCZ240EA070PS465FE	1086	7.00	110	EA	180 min / 438 lm	0 °C to +40 °C	2.73
ESCZ240EA130PS465FE	2148	13.00	129	EA	180 min / 438 lm	0 °C to +40 °C	2.73
ESCZ240ED130PS465FE	2148	13.00	129	ED	180 min / 438 lm	0 °C to +40 °C	2.75
ESCZ244E0025PS465FE	438	2.50	175	E0	180 min / 438 lm	0 °C to +45 °C	2.56
ESCZ244D0025PS465FE	438	2.50	175	D0	180 min / 438 lm	0 °C to +45 °C	2.58
ESCZ260CB050PS465FE	815	5.00	163	CB	815 lm	-30 °C to +60 °C	2.33

Legend for type of luminaire

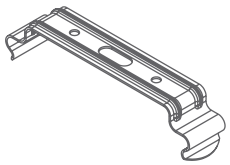
N0	normal version
ND	normal version with DALI2 driver
EA	maintained emergency version with 3h autonomy and battery autotest function
ED	maintained emergency version with 3h autonomy, DALI inverter and DALI2 driver
D0	non-maintained emergency version with 3h autonomy and DALI inverter
EN	maintained emergency version with 3h autonomy
E0	non-maintained emergency version with 3h autonomy
CB	suitable for central battery system

Reference details

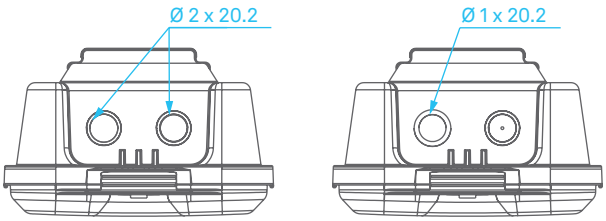
Standard equipment →

2x cable plug M20

2x cable gland M20

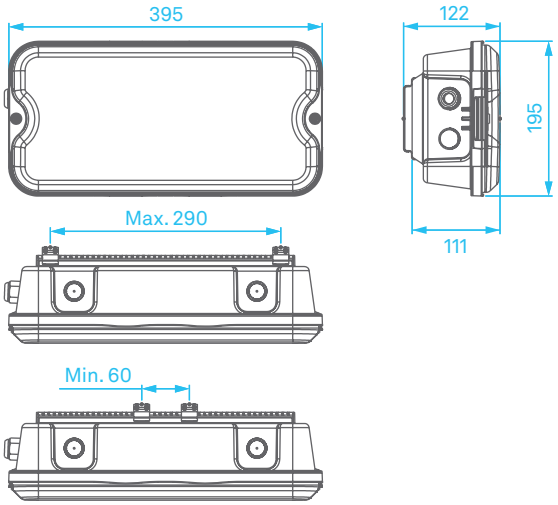


2x mounting clip



The luminaire is normally equipped with 3x openings with a diameter of 20.2 mm. The wall thickness of the luminaire is 2.5 mm.

Dimensions in mm →



Pictograms →

Emergency version includes all 5 pictograms in package by standard

ESCACP100

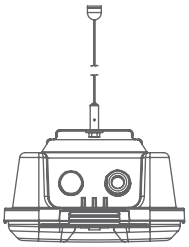
ESCACP200

ESCACP300

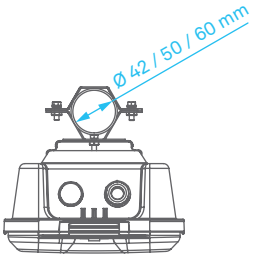
ESCACP400

ESCACP500

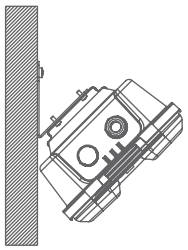
Available on request →



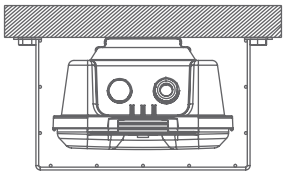
Suspensions bracket
ESCACM100



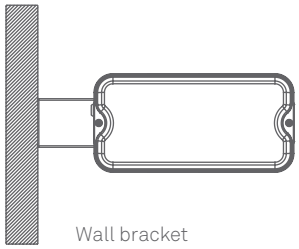
Mounting procedure
using a tube bracket
ESCACM242 - 42 mm
ESCACM250 - 50 mm
ESCACM260 - 60 mm



Wall bracket - angle 45°
ESCACM300



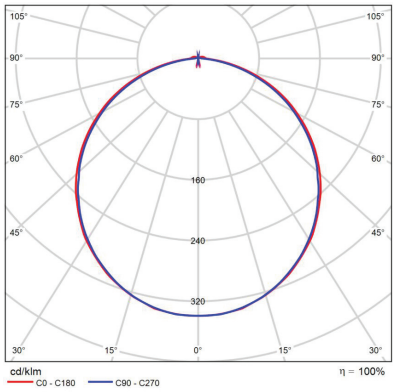
Protective cage
ESCACM500



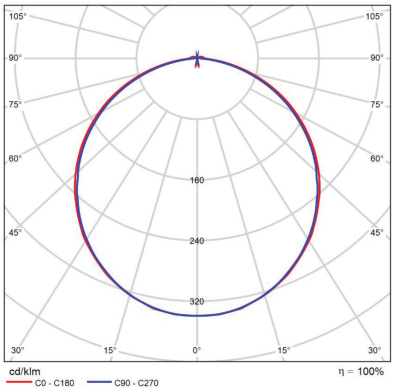
Wall bracket
ESCACM400

Polar diagrams – photometric data

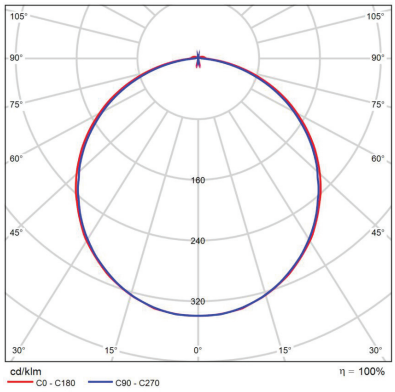
Type: ESCZ260N0070P65FE
Power: 7,0 W
Flux: 1086 lm
Efficiancy: 149 lm/W
CCT: 4000 K
CRI: 80



Type: ESCZ255N0130P65FE
Power: 13,0 W
Flux: 2148 lm
Efficiancy: 159 lm/W
CCT: 4000 K
CRI: 80



Type: ESCZ250N0200P65FE
Power: 20,0 W
Flux: 3189 lm
Efficiancy: 145 lm/W
CCT: 4000 K
CRI: 80



REMARK:
Due to the development of the national and international specifications and of the technology, the above technical characteristics showed on this bulletin can be considered as binding on our confirmation only.