

Alux Ex1

High bay LED Lighting fixture for zone 1/21



The Alux Ex1 LED series luminaire is the ideal choice for hazardous applications. Especially in environment where moisture, dirt, dust, corrosion and vibration may be present, or areas where wind, water, snow or high ambient temperature can be expected.

- 0-10V dimming
- High luminous efficacy -
Up to 148 lumens per watt
- Compact and robust structure,
excellent reliability
- Various installation ways for
different applications
- Great impact resistance with
IK08/IK10 certified
- Aluminum housing, great corrosion
resistance and cooling
- L70 > 78,000 Operation Hours
@Ta 55 °C

Reference standards

Directive 2014/34/EU	
ATEX Ex protection type	Ⓔ II 2 G Ex eb mb IIC T6...T4 Gb Ⓔ II 2 D Ex tb IIIC T80°C...T100 °C Db
ATEX certificate number	TPS 25 ATEX 133310 0003 X
IECEX Ex protection type	Ex eb mb IIC T6...T4 Gb Ex tb IIIC T80°C...T100 °C Db
IECEX certificate number	IECEX TPS 25.0055X
Ingress protection	IP66
Impact Protection	IK08 (glass cover) IK10 (with wire guard)
Temperature range	-40 °C ÷ +65 °C

Electrical characteristics

Power supply	200-250VAC
Lamp source	CRI >70 CCT 4000 K (as standard) Life time L70 > 78,000 Operation Hours @Ta 55 120° optics (as standard)
Connection	Terminals 3 x 2.5 mm ² (3 x 4.0 mm ² on request)

Technical data

Order code	Wattage [W]	Output [lm]	Power input [W]	Efficiency [lm/W]	Model size	Ambient temperature	T class	Net Weight [kg]
ALXZ1020WA2N412020	20	2800	23	143	A2	-40 °C ≤ Ta ≤ +65 °C	T5/T100 °C	4.15
ALXZ1040WA2N412020	40	5600	39	145	A2	-40 °C ≤ Ta ≤ +55 °C	T5/T100 °C	4.15
ALXZ1050WAXN412020	50	7000	52	142	AX	-40 °C ≤ Ta ≤ +55 °C	T6/T80 °C	4.15
ALXZ1080WA3N412020	80	11200	84	142	A3	-40 °C ≤ Ta ≤ +55 °C	T6/T80 °C	6.95
ALXZ1100WA3N412020	100	14000	107	141	A3	-40 °C ≤ Ta ≤ +55 °C	T6/T80 °C	6.95
ALXZ1120WA4N412020	120	16800	123	144	A4	-40 °C ≤ Ta ≤ +55 °C	T4/T100 °C	8.30
ALXZ1150WA4N412020	150	21000	156	142	A4	-40 °C ≤ Ta ≤ +55 °C	T4/T100 °C	8.30
ALXZ1200WA4N412020	200	28000	213	146	A4	-40 °C ≤ Ta ≤ +55 °C	T4/T100 °C	8.30
ALXZ1250WA4N412020	250	35000	240	148	A4	-40 °C ≤ Ta ≤ +40 °C	T5/T100 °C	15.1
ALXZ1300WA4N412020	300	42000	320	142	A4	-40 °C ≤ Ta ≤ +40 °C	T5/T100 °C	15.1
ALXZ1400WA4N412020	400	56000	398	144	A4	-40 °C ≤ Ta ≤ +25 °C	T5/T100 °C	15.1

Mechanical characteristics

Body	Low copper aluminum, color grey RAL7040
Diffuser	Tempered glass & PC
Gasket	silicone: Temperature range -70°C ÷ +250°C
Hardware	stainless steel 316
Cable entry	Side: 4 x ¾" NPT Top: 1 x ¾" NPT
Standard fixing	Adjustable bracket for ceiling and wall mounting

Installation

hazardous areas - Zone 1 (Gases) - Zone 21 (Dusts)

Classification

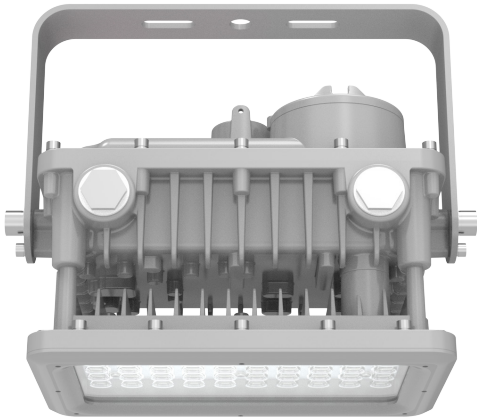
Group II - Category 2G 2D

Available on request

- available without or with 40°, 45°, 60°, and 90° optics
- 3000K / 5000K / 5700K / 6500 K - color temperature
- dimmable electronic ballast (DALI)
- Connection on request:
Side: M20, M25, ½" NPT
Top: M25

Available models

A2 →



AX →



A3 →



A4 →



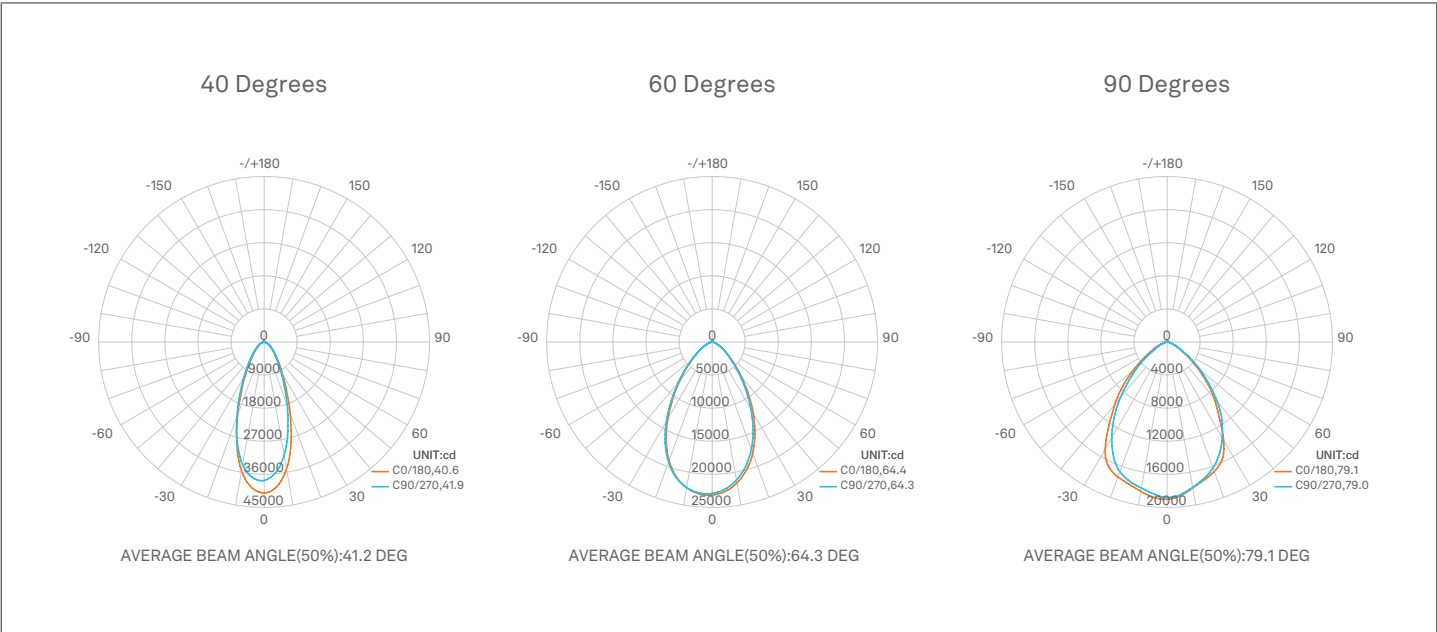
Ordering information

A L X Z 1 0 5 0 W A X N 4 1 2 0 2 0

ALX	Family name Alux floodlight	N	Variant N – Normal ON/OFF* D – dimmable E – Emergency F – Emergency & dimmable
Z1	Zone classification Ex zone 1/21		
050W	Power 020W – 20 W 030W – 30 W 040W – 40 W 050W – 50 W 060W – 60 W 080W – 80 W 100W – 100 W 120W – 120 W 150W – 150 W 200W – 200 W 250W – 250 W 300W – 300 W 400W – 400 W	4	Color temperature CCT 3 – 3000 K 4 – 4000 K* 5 – 5000 K 6 – 6500 K
AX	Model size A2 – model size A2 AX – model size AX A3 – model size A3 A4 – model size A4	12	Beam angle 04 – 40° 06 – 60° 09 – 90° 12 – 120°*
		0	Glass type 0 – flat glass* G – flat glass with guard net C – convex glass
		20	Voltage 20 – 220 - 250 V AC

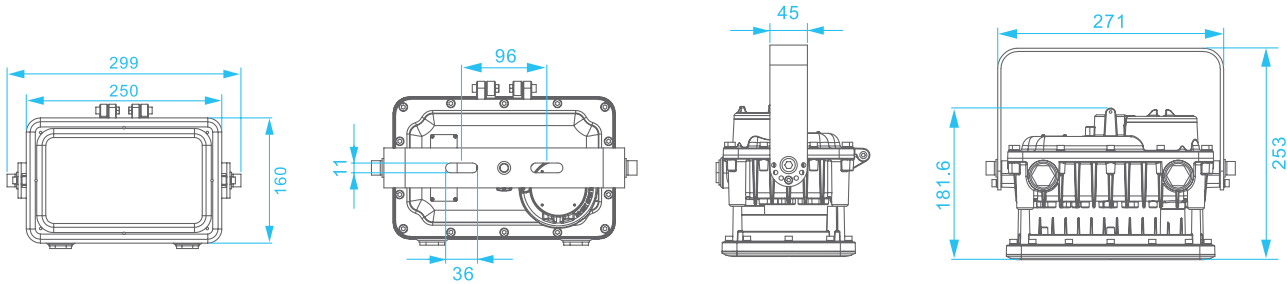
* Standard version

Photometric data

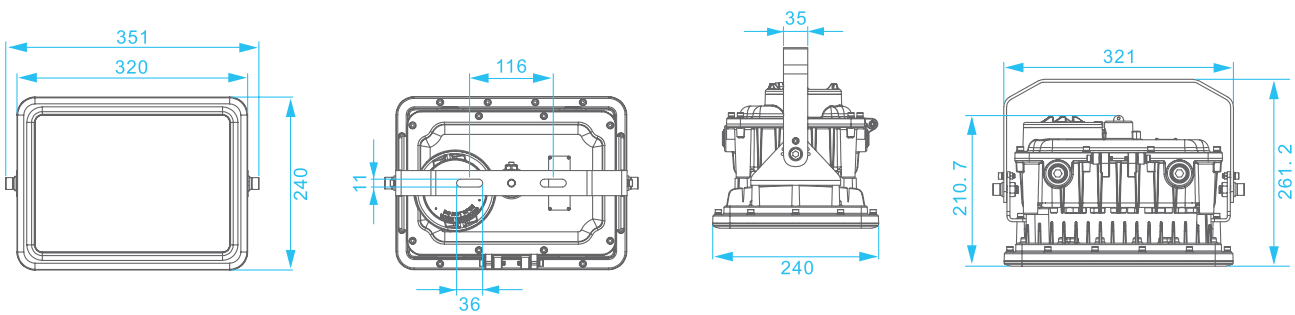


Dimensions in mm

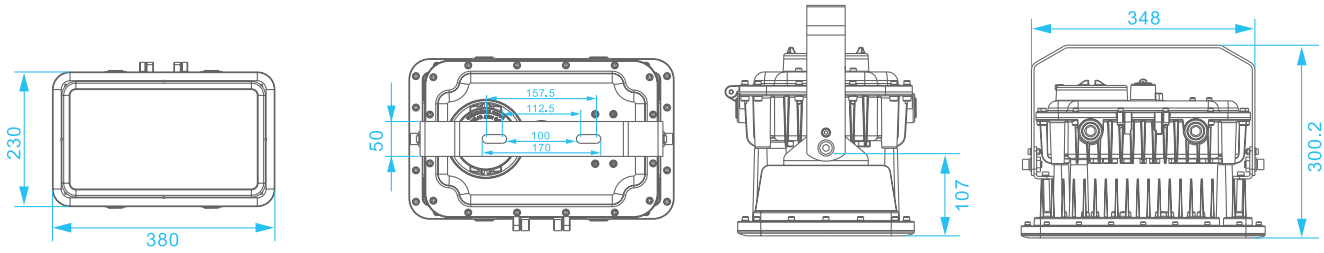
A2 →



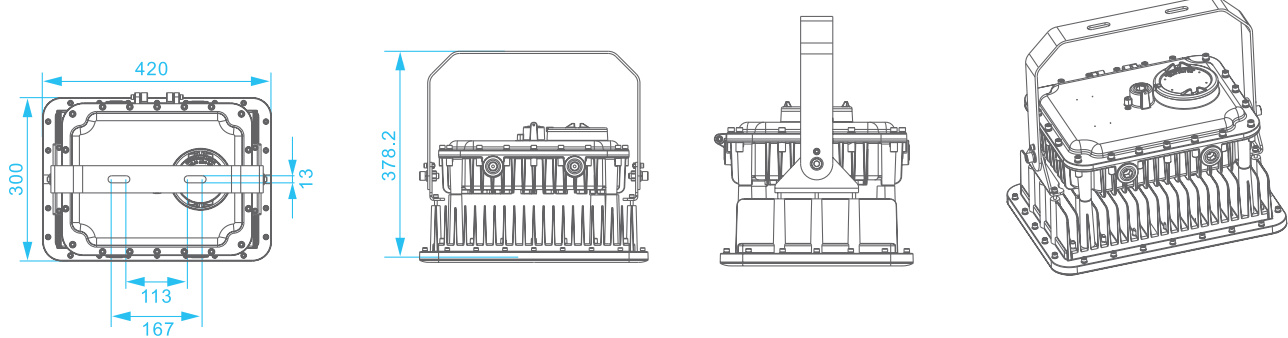
AX →



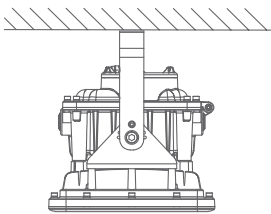
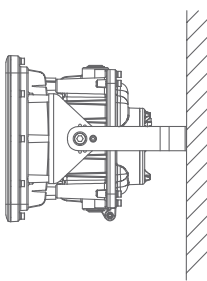
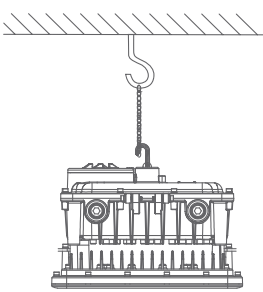
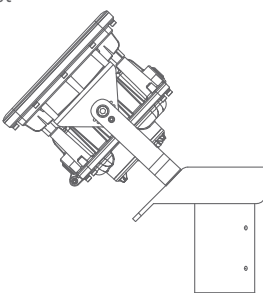
A3 →



A4 →



Mounting Methods and Accessories

Option 1: Ceiling Mounting → As a standard 	Accessory → Bracket 
Option 2: Wall Mounting → As a standard 	Accessory → Bracket 
Option 3: Hook Mounting → Available on request 	Accessories → Hook Ex-Hook Pendant Chain Ex-Straight Chain 
Option 4: Trunnion Mounting (Only for A) → Available on request 	Accessory → EX-Slip Fitter Mounting Kit 

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.