

Enzo ATEX Floodlight Installationsmanual



lumindex

Applications:

- Wastewater treatment, oil and gas refineries, drilling rigs, petrochemical facilities, food and beverage facilities, tunnels, outdoor wall and stanchion mounted general area lighting, and where flammable vapors, gases, ignitable dusts, fibers or flyings are present.
- Applies to hazardous locations of Zone 1 and Zone2 with explosive gas atmosphere.
- Applies to hazardous locations of Zone 21 and Zone22 with explosive dust atmosphere.

Features:

- Industry-leading efficacy: up to 130 LPW;
- CTT: 3000K-6500K;
- CRI: ≥ 70 ;
- -20°C to $+40^{\circ}\text{C}$ Ambient operating temperature;
- Low profile fixture;
- Flush, swivel and pole mount options;
- Wide optics for uniform illumination;
- Fixture warranty;
- Entry Size: M26X1.5 or M25X1.5 or NPT 3/4"-14;
- Beam angle: 8° , 15° , 35° , 60° , 90° , 120° ;

Standard Materials:

- Housing –Aluminum alloy (ADC12);
- Lens –tempered glass;

Mounting (ordered separately):

Versatile mounting options:

- Ceiling mount
- Drop mount
- Pole mount
- Wall Mount

Mounting Angle: 0° to $\pm 90^{\circ}$;

Certifications and compliances:

ATEX:

- $\text{Ex II 2G Ex eb mb op is IIC T4 Gb}$;
- $\text{Ex II 2D Ex op is tb IIIC T95}^{\circ}\text{C Db}$;
- IP66;
- Certificate No: IEP 19ATEX 0714

Standard :

ATEX: EN 60079-0: 2013 ; EN 60079-7: 2015 ; EN 60079-18: 2015 ; EN 60079-28: 2015 ; EN 60079-31: 2014;

Warning:

ATEX :

- "WARNING – DO NOT OPEN WHEN ENERGIZED"
- "WARNING – DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT"
- "WARNING – ONLY USE CABLES SUITABLE FOR 85°C "
- End user shall use certified cable gland or conduit with suitable type of protection for final installation purpose.
- External earthing wire shall be connected when used and the cross-sectional area shall be more than 4mm^2 or 10AWG.
- Under rating condition, maximum temperature on the luminaire's shell shall not be higher than 95°C for T4. Temperature at cable inlet shall not be higher than allowable limit of the cable applied, to ensure the cable operation normally.

Technical table:

Model	Power (W)	Input voltage: AC100V-277V; Frequency: 50/60Hz;					
		Output voltage: 33V~42Vdc;					
		CCT: 3000K-6500K					
		Power factor:0.97					
		Luminous flux (LM)	Light efficiency (Lm/W)	LEDs Chip	LEDs Type (3V)	Weights (kg)	Size(mm) L x W x H
CES-J20	20	≥ 2200	120-130	36PCS	3030	4	200 x 200 x 147
CES-J30	30	≥ 3300	110	36PCS	3030	4	200 x 200 x 147
CES-J40S	40	≥ 4400	110	36PCS	3030	4	200 x 200 x 147
CES-J60	60	≥ 6600	110	108PCS	3030	7.5	300 x 300 x 165
CES-J80	80	≥ 8800	110	108PCS	3030	7.5	300 x 300 x 165
CES-J100	100	≥ 11000	110	108PCS	3030	7.5	300 x 300 x 165
CES-J120	120	≥ 13200	110	192PCS	3030	10.5	400 x 400 x 169
CES-J150	150	≥ 16500	110	192PCS	3030	10.5	400 x 400 x 169
CES-J180	180	≥ 19800	110	192PCS	3030	10.5	400 x 400 x 169
CES-J200	200	≥ 22000	110	192PCS	3030	10.5	400 x 400 x 169

Dimensions:

Figure 1 applies to CES-J20, CES-J30, CES-J40S.

L x W x H: 200mm x 200mm x 147(195.5)mm

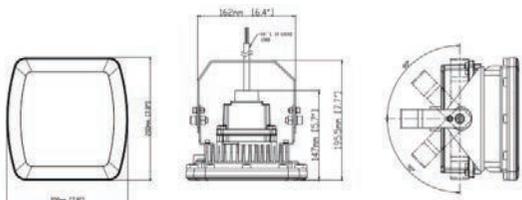


Figure 1

Figure 2 applies to CES-J60, CES-J80, CES-J100.

L x W x H: 300mm x300mm x 165(251)mm

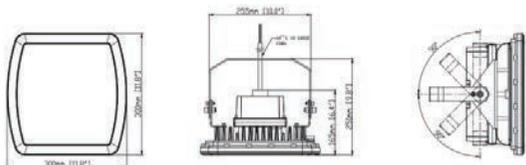


Figure 2

Figure 3 applies to CES-J120, CES-J150, CES-J180, CES-J200.

L x W x H: 400mm x 400mm x 169(248)mm

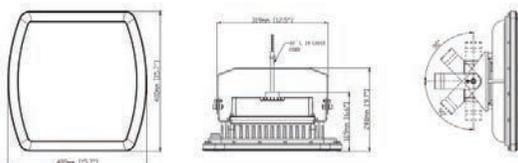


Figure 3

Dimensions:

The product can be mounted as shown in Figure 4 - 6 below.

U-Bracket Size, applies to CES-J20, CES-J30, CES-J40S:

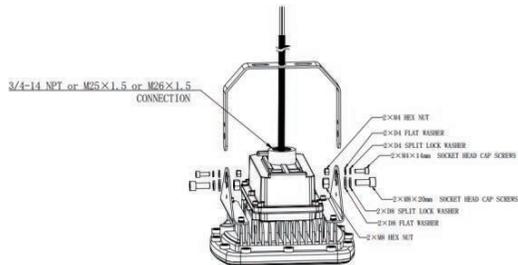
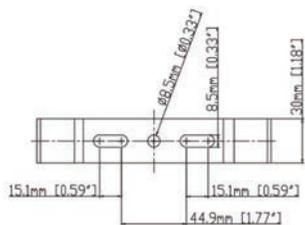


Figure 4

U-Bracket Size, applies to CES-J60, CES-J80, CES-J100, CES-J120, CES-J150, CES-J180, CES-J200:

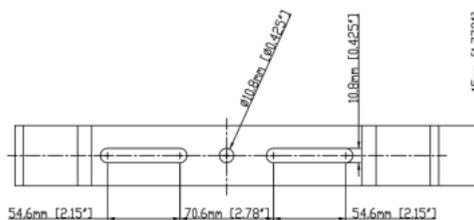
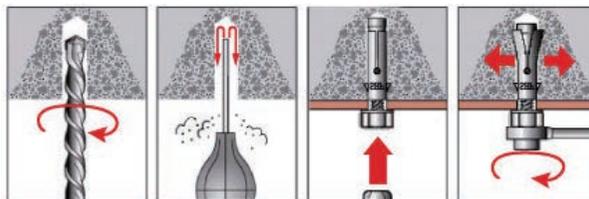


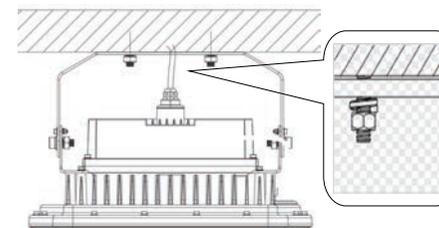
Figure 5

U bracket mounting:

1. The mounting method of M10X60MM expansion bolt as shown on the right: Two M10X60MM expansion bolts can be installed in the wall mounting position, the distance between two bolts is 75-160MM



2. Make the mounting holes of U bracket through the expansion bolt heads, putting in the spring washer and screw on the nuts. Make fully tighten between and explosion bolts with the wall by the wrench. Expansion bolts must be able to withstand four times the weight of the light fixture.



The product can be mounted as shown in Figure 6 below.

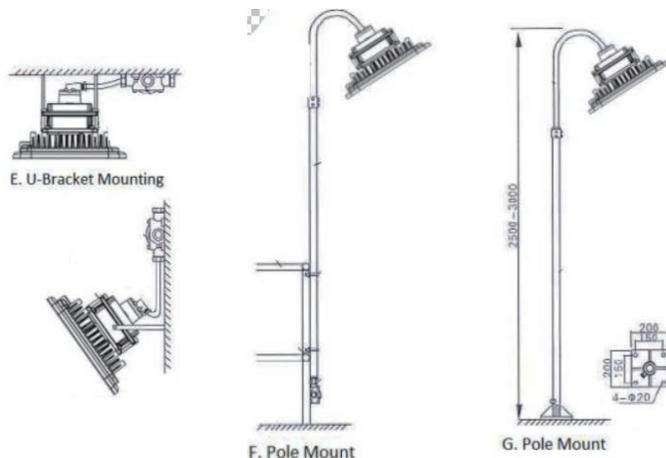
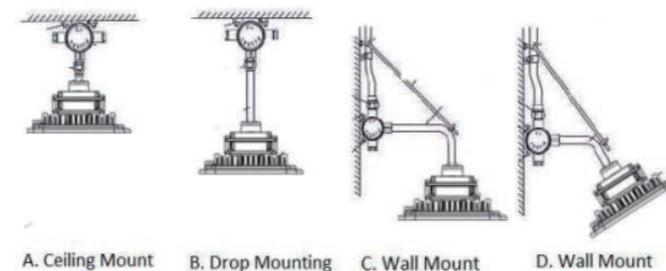
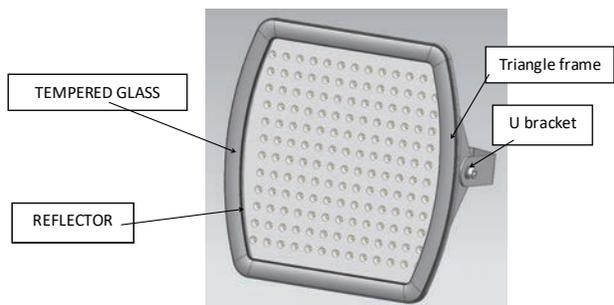


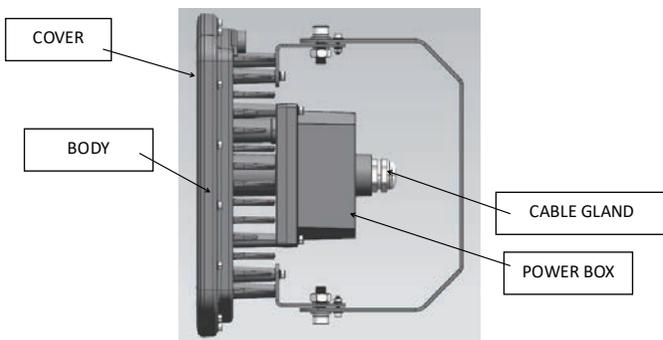
Figure 6

Appearance and Cable gland connection chart :



Front view

a) Connect the equipment's using suitable cable gland and armored cable.



Type A (With 1pc cable gland)

- i) Choose the accurate cable section and cable glands for the appropriate mounting type features.
- ii) Do not use the equipment on the fittings that have a lower protection class.
- iii) Use the suitable cable series according to the equipment inlet diameter or cable diameter.

b) Do the mounting of the equipment parts by using the sealed piping system.



Type B (Without cable glands, pipe mounting as the above **Figure 6**)

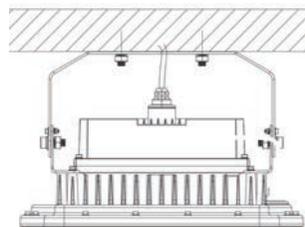
- i) Use the accurate cable section for the appropriate mounting type features.
- ii) Do not use the equipment on the fittings that have a lower protection class.
- iii) Equipment mounting charts were given on the **Figure 6**.
- iv) Subsequent to the completion of the fittings works, the equipment is checked and sealing is applied.
- v) Please implement reading the instructions carefully.

Energy connection chart:

- Put on the cable gland or conduit before the installation,
- Do not remove the cover without cutting of the energy.
- In the case that deformation occurs on the equipment due to misuse or improper mounting, do not remove the cover and the frame.
- Make the product electrical cable connections as shown below.



L=Live N=NEUTRAL
Thread=NPT 3/4"
Ground wire area 2.5 mm²



Use and maintenance:

- 1) Clean up
Please keep light fixtures clean during use, whether the external or internal. Also do not allow water and oil into light fixtures. The light fixture shall be inspected regularly (at least once a year) for junction boxes and glass covers according to the condition of site. Dust shall be removed with compressed air using a hand bellows or a hose with a wooden or rubber nozzle. If one or more electrical components of the luminaire fail, please contact the manufacturer as soon as possible.

2) Flame-proof surface
Pay attention to protect the flameproof surface, do not damage or corrosion it, otherwise the safe operation can not be guaranteed. Please contact the manufacturing company as soon as possible.

3) Bolt
Always check the tightening degree of all bolts, especially the bolts fixing the explosion-proof part and the rotating part must be in a tight state.

Storage and transportation of light fixtures:

Light fixtures are packed into strong wooden boxes or cardboard boxes by the manufacturer, then shipped. The packaging shall not be dismantled during transportation. The lamp shall be cleaned of dust spots immediately after the packaging is removed and the exposed surface shall be wiped clean.

When carriage, light fixtures must be prevented to invert to avoid damages.

Ordering information:

CES-J W-A-B-C-D-E
CES- SHENZHEN CESP;
J- Series ;
W-Power , 20:20W; 30:30W; 40S:40W; 60:60W; 80:80W; 100:100W; 120:120W; 150:150W; 180:180W; 200:200W;
A- Certification type, 01: CUL UL844 C1D2; 02: ATEX Zone 1/21; 03: IECEx Zone2; 04: UL1598A;
B- CCT, 01:3000K; 02: 4000K;03: 6500K; 04: 5000K; 05: 5700K....;
C- Mounting, 01: U bracket mount; 02:Pole mount; 03:Other mount....;
D-Color, 01: Yellow; 02: Gray; 03: White; 04: Green; 05: Blue; 06: Orange red....;
E-Other;

Part number example: CES-J100-02-05-01-02; That means 100W, Certification type is ATEX Zone 1/21, CCT 5700K, U bracket mount, Gray.