

Durable Lighting for Industrial Safety



Hazardous Location LED Luminaire O Series (for North America)

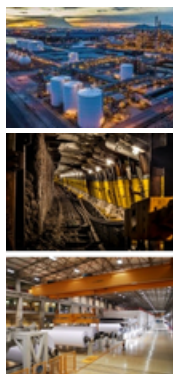
Product Description

The O Series LED luminaire is the ideal choice for marine and hazardous applications. They can be used in locations where moisture, dirt, dust, corrosion and vibration may be present, or areas where wind, water, snow or high ambient can be expected.

Great reliability with waterproof and dust-proof design, no need for internal cleaning and maintenance. Compact structure and small size, ideal for use in various places where spot light is required, such as mine, brewery, aisle, etc.

Application

- Power Plants
- Heavy Industrials Storage Facility
- Paper mills
- Wastewater Treatment Plants
- Loading Docks Platforms
- Offshore Environments
- Chemical Processing Facility
- Petrochemical Processing Facility
- Metallurgical Industry
- Coal Mine
- Food and Alcohol industry



Compliance

Class I Division 2, Group A, B, C, D T6/T5/T4
Class II Division 1, Group E, F, G T80°C/T95°/T130°C
Class II Division 2, Group F, G T80°C/T95°C/T130°C
Class III

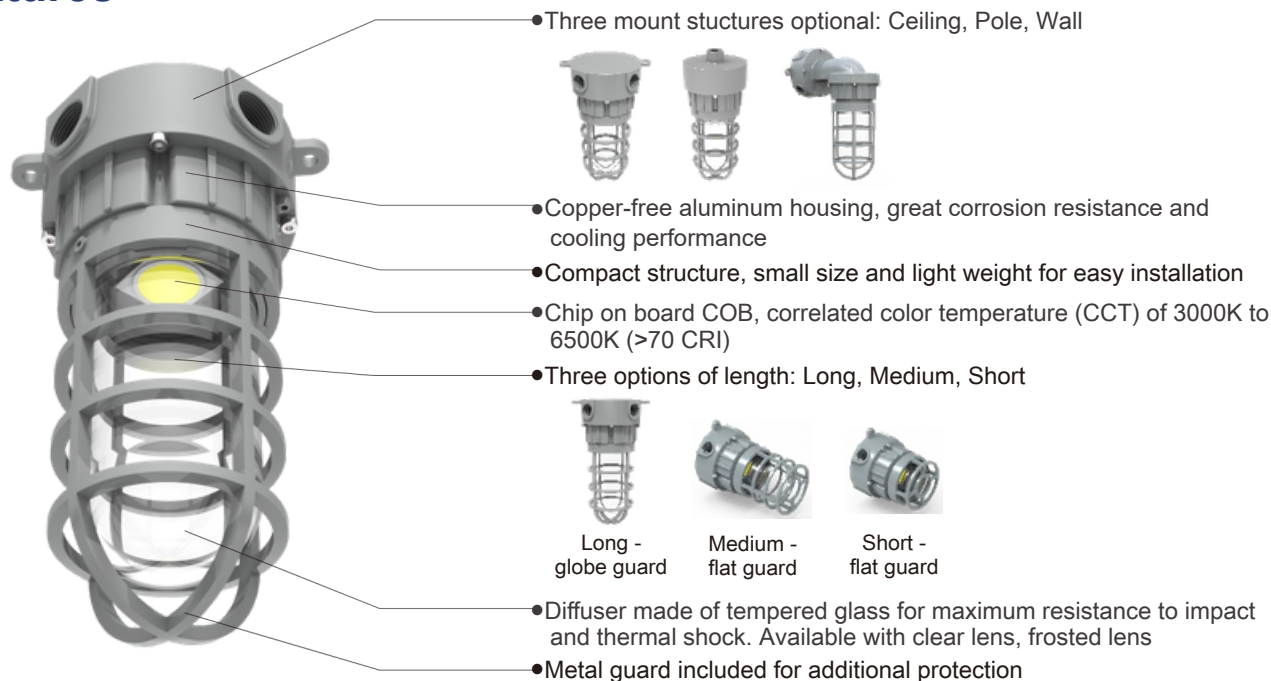
Class I, Zone 2, Group IIC T6/T5/T4
Zone 20, 21, 22

UL 1598 Wet Locations
UL 1598A Marine Outside Type
UL 8750 LED Safety
UL 924 Emergency Lighting
ABS
CSA (Certificate: 80070037)
DLC*
IP66
IK08

*Not all product variations are DLC qualified.
The DLC qualified product model numbers are as below:
EX-20W ON50D120CM1



Features



Technical Parameter

• Electrical

Rated Power	10W	20W	27W
Input Voltage	100-277VAC		
Input Frequency	50/60Hz		
Power Factor	> 0.95		

• Optical

Lumen Output	1000lm	2000lm	2700lm
Lumens Per Watt	100lm/W		
CCT	3000K-6500K		
CRI	> 70		
Dimming	0-10V dimming (optional)		

• Environmental

Ambient Temperature for Normal Operation	-40°C to +40°C/50°C/60°C		
Ambient Temperature for Emergency Operation	0°C to +40°C		

• Mechanical

Housing Material	Copper-free aluminum		
Diffuser	Tempered glass (both frosted and clear are available)		
Protection	IP66/IK08		
Mounting	Ceiling, Pole, Wall		
Outlet	Regular 1 meter		
Cable Entries	There are four cable entries are at side wall of luminaire housing which are used to install M25, M20, NPT 1/2" or NPT 3/4" certified cable glands or stopping plugs with suitable IP code.		

• Warranty

Warranty	5-Year Standard Warranty		

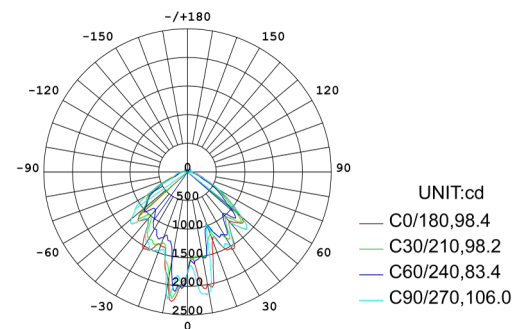
Mounting Methods and Accessories

Ceiling Mount	Pole Mount	90 Degree Wall Mount	Reflector Available
		 Short  Long	
Ceiling Mount Cap  Exterior  Interior	 Pole (ordered separately)  Pendant	 Wall Elbow	 Wall Elbow  Reflector

Packing Information

Model	Image	Net Weight	Gross Weight	Quantity/Carton	Package Dimensions (LxWxH)
O (with Globe Guard; Top Suction Installation)		5.95 lb	7.06 lb	1 pc	14.56x10.63x9.45inch
O (with Globe Guard; 90 Degree Wall Mounting)		8.16 lb	9.26 lb	1 pc	16.54x13.39x9.45inch
O (with flat guard)	/	4.41 lb	5.51lb	1 pc	10.43x14.96x10.04 inch

Photometric



AVERAGE BEAM ANGLE(50%):96.5 DEG

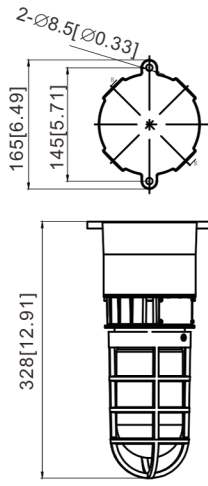
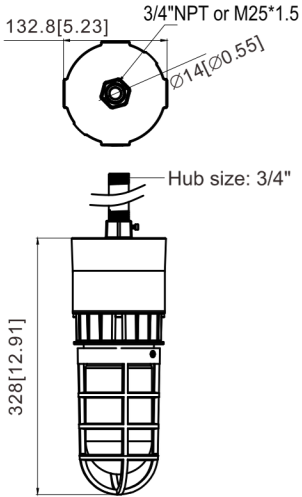
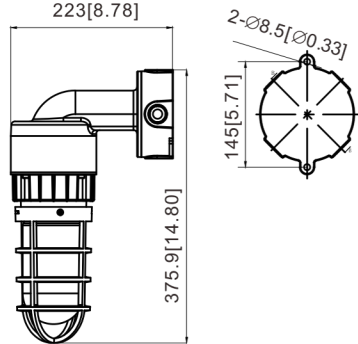
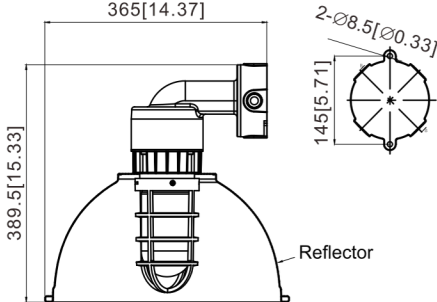
Ordering Guide

Ex- XXXW - O Y Z A M

1 2 3 4 5 6 7

1.Product Category	2.Wattage	3.Product Series	4.Dimmable Option
Ex: Explosion Proof Product	10W/20W/27W		Y: dimmable N: non-dimmable
5.Color Temperature (CCT)	6.Glass Type	7.Mounting Type	
Can be 30, 40,..., 65 denotes 3000K, 4000K, ..., 6500K	C: long globe glass S: short glass M: middle long globe glass	M1: Ceiling mounting M2: Pole mounting M3: 90 degree wall mounting	

Product Dimensions -with Emergency (unit: mm[inch])

Ceiling Mount - Long	Pole Mount - Long	90 Degree Wall Mount - Long
		
90 Degree Wall Mount with Reflector - Long		
		

Product Dimensions -without Emergency (unit: mm[inch])

Ceiling Mount - Long	Pole Mount - Long	90 Degree Wall Mount - Long
2-Ø8.5 [Ø0.33] 165 [6.49] 145 [5.71] 276.5 [10.88] M5*15mm socket head screw	132.8 [5.23] 3/4" NPT or M25*1.5 Ø14 [Ø0.55] Hub size: 3/4" 276.5 [10.88]	223 [8.78] 325.9 [12.83] 145 [5.71] 2-Ø8.5 [Ø0.33] Wall
Ceiling Mount - Medium	Pole Mount - Medium	90 Degree Wall Mount with Reflector - Long
145 [5.71] 80 [3.15] 203.5 [8.01]	Ø130 [Ø5.12] 221.5 [8.72]	365 [14.37] 339.5 [13.36] 145 [5.71] 2-Ø8.5 [Ø0.33] Reflector
Ceiling Mount - Short	Pole Mount - Short	90 Degree Wall Mount - Medium
145 [5.71] 143.5 [5.65]	Ø130 [Ø5.12] 161.5 [6.36]	223 [8.78] 248.5 [9.78] 145 [5.71] 2-Ø8.5 [Ø0.33] Ø130 [Ø5.12]
Ceiling Mount - Short	Pole Mount - Short	90 Degree Wall Mount - Short
145 [5.71] 143.5 [5.65]	Ø130 [Ø5.12] 161.5 [6.36]	223 [8.78] 188.5 [7.42] 145 [5.71] 2-Ø8.5 [Ø0.33] Ø130 [Ø5.12]

Note: Thickness of diffuser is 4.5mm [0.18inch].

Spare Parts

Heat Sink	Extension	Main Part	Reflector	Clear
				
Long Globe Glass	Midium Globe Glass	Short Glass	Long Globe Guard	Medium Flat Guard
				
Short Flat Guard				
				