Durable Lighting Made for Industrial Safety



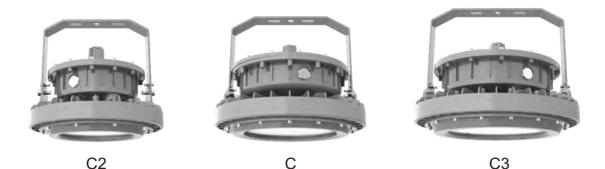
Hazardous Location LED Luminaire

C Series (for North America)



Specsheet-2023-07 EN

VENAS





Product Description

The C 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.

Features

- 0-10V dimming
- High luminous efficacy Up to 140 lumens per watt
- Battery backup function available
- Compact and robust structure, excellent reliability
- Various installation ways for different applications
- Great impact resistance with IK08/IK10 certified
- Copper-free aluminum housing, great corrosion resistance and cooling performance

Compliance

UL 844 Hazardous Locations Class I Division 1, Group C, D Class I Division 2, Group A, B, C, D Class II Division 1, Group E, F, G Class II Division 2, Group F, G Class III Class I, Zone 1, Group IIB Class II, Zone 21, Group IIIC UL 1598 Wet Locations UL 1598A Marine Outside Type UL 924 Emergency Lighting CSA C22.2#137:2018 Ed.2 CSA C22.2#250.0:2021 Ed.5 ETL (ATM for Report 105342415DAL-001/003) ABS DLC* IP66 IK08 (glass cover) IK10 (with wire guard) 1000 hours salt spray

* Not all product variations listed on this spec sheet are DLC qualified. Visit www.designlights.org/search to confirm qualification.

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

Warranty

5-Year Standard Warranty

LED lumen Maintenance: L70> 150,000 Operation Hours@55°C









Technical Parameter

• Electrical

Specification	EX-20W C2YZDA	EX-40W C2YZDA	EX-60W C2YZDA	EX-80W C2YZDA	
Rated Power	20W	40W	60W	80W	
Input Voltage	100-277/200-480VAC	100-277/200-480VAC			
Input Frequency	50/60Hz	50/60Hz			
Power Factor	> 0.95	> 0.95			
Emergency Time*	No Emergency Function	No Emergency Function			

*Emergency function optional.

Optical

Specification	EX-20W C2YZDA	EX-40W C2YZDA	EX-60W C2YZDA	EX-80W C2YZDA	
Lumen Output	2800lm	5,600lm	8,400lm	11200lm	
Lumens Per Watt	140lm/W	140lm/W			
ССТ	2700K-7000K	2700K-7000K			
CRI	> 70	>70			
Beam Angle	40°/60°/90°/120°	40°/60°/90°/120°			
Dimming	0-10V dimming	0-10V dimming			

• Environmental

Specification	EX-20W C2YZDA	EX-40W C2YZDA	EX-60W C2YZDA	EX-80W C2YZDA
Ambient Temperature	T4: -40°C to 60°C (-40°	F to 140°F)		

Mechanical

Specification	EX-20W C2YZDA	EX-40W C2YZDA	EX-60W C2YZDA	EX-80W C2YZDA	
Housing Material	Copper-free aluminum	Copper-free aluminum			
Diffuser	Tempered glass	Tempered glass			
Hardware	Stainless steel	Stainless steel			
Protection	IP66/IK08 (glass cover	IP66/IK08 (glass cover)/IK10 (with wire guard)			
Mounting	Ceiling, Wall, Hook, Pole, Trunnion				
Cable Entries*		Side: 3/4" NPT (standard); M20, M25, 1/2" NPT (optional) Top: 3/4" NPT (standard); M25 (optional)			

* For cable entries, 3/4" NPT is standard. Others can be achieved with an adpater, and customer needs to indicate which is required when placing an order.



Technical Parameter

• Electrical

EX-100W CYZDA	EX-150W CYZDA	
100W	150W	
100-277/200-480VAC		
50/60Hz		
> 0.95		
No Emergency Function		
	100W 100-277/200-480VAC 50/60Hz > 0.95	100W 150W 100-277/200-480VAC 50/60Hz > 0.95

*Emergency function optional.

Optical

Specification	EX-100W CYZDA	EX-150W CYZDA	
Lumen Output	14000lm	21000lm	
Lumens Per Watt	140lm/W		
ССТ	2700K-7000K		
CRI	>70		
Beam Angle	40°/60°/90°/120°		
Dimming	0-10V dimming		

• Environmental

Specification	EX-100W CYZDA	EX-150W CYZDA
Ambient Temperature	T4: -40°C to 60°C (-40°F to 140°F)	

Mechanical

Specification	EX-100W CYZDA	EX-150W CYZDA		
Housing Material	Copper-free aluminum			
Diffuser	Tempered glass	Tempered glass		
Hardware	Stainless steel			
Protection	IP66/IK08 (glass cover)/IK10 (with wire guard)			
Mounting	Ceiling, Wall, Hook, Pole			
Cable Entries*	Side: 3/4" NPT (standard); M20, M25, 1/2" NPT (Top: 3/4" NPT (standard); M25 (optional)	optional)		

* For cable entries, 3/4" NPT is standard. Others can be achieved with an adpater, and customer needs to indicate which is required when placing an order.



Technical Parameter

• Electrical

Specification	EX-200W C3YZDA	EX-250W C3YZDA	EX-280W C3YZDA		
Rated Power	200W	250W	280W		
Input Voltage	100-277/200-480VAC	00-277/200-480VAC			
Input Frequency	50/60Hz				
Power Factor	> 0.95	> 0.95			
Emergency Time*	3 hours				

*Emergency function optional.

Optical

Specification	EX-200W C3YZDA	EX-250W C3YZDA	EX-280W C3YZDA
Lumen Output	28000lm	35000lm	39200lm
Lumens Per Watt	140lm/W		
ССТ	2700K-7000K		
CRI	>70		
Beam Angle	40°/60°/90°/120°		
Dimming	0-10V dimming		

Environmental

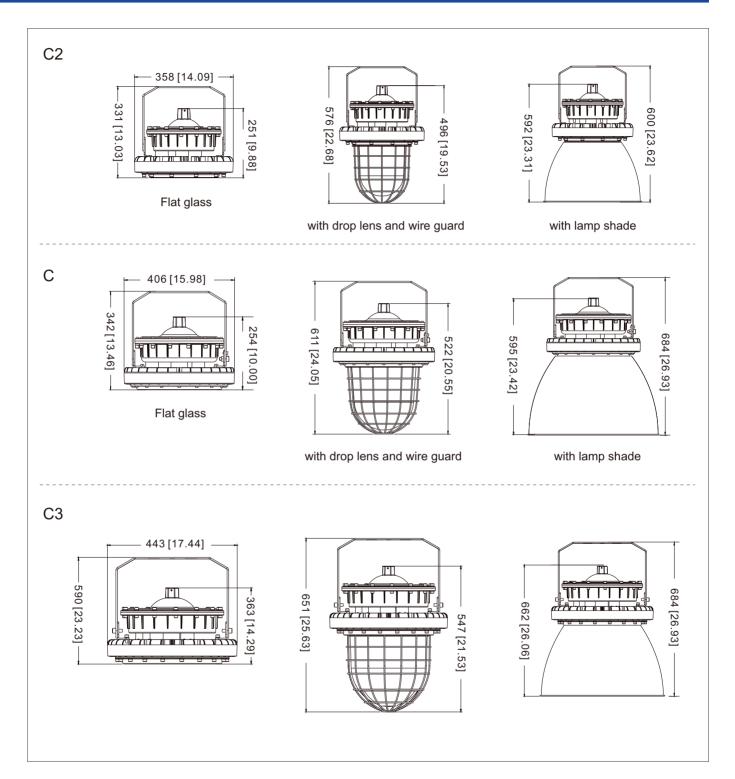
Specification	EX-200W C3YZDA	EX-250W C3YZDA	EX-280W C3YZDA
Ambient Temperature	T4: -40°C to 60°C (-40°F to 140°F)		

Mechanical

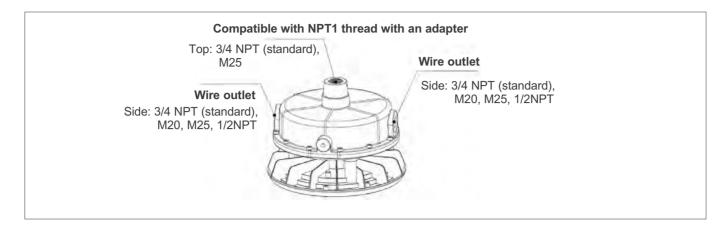
Specification	EX-200W C3YZDA	EX-250W C3YZDA	EX-280W C3YZDA	
Housing Material	Copper-free aluminum	Copper-free aluminum		
Diffuser	Tempered glass	Tempered glass		
Hardware	Stainless steel	Stainless steel		
Protection	IP66/IK08 (glass cover)/IK10 (with wire guard)			
Mounting	Ceiling, Wall, Hook, Pole			
Cable Entries*	Side: 3/4" NPT (standard); M Top: 3/4" NPT (standard); M	120, M25, 1/2" NPT (optional) 25 (optional)		

* For cable entries, 3/4" NPT is standard. Others can be achieved with an adpater, and customer needs to indicate which is required when placing an order.

Product Dimensions Unit: mm [inch]



Cable Entries



• Packing Information

Model	Net Weight*	Gross Weight*	Quantity/Carton	Package Dimensions (LxWxH)
C2	30.86 lb	35.27 lb	1 pc	18.50x18.50x13.58 inch
С	38.36 lb	41.89 lb	1 pc	21.65x20.47x14.17 inch
C3	46.30 lb	55.12 lb	1 pc	21.85x21.85x13.58 inch

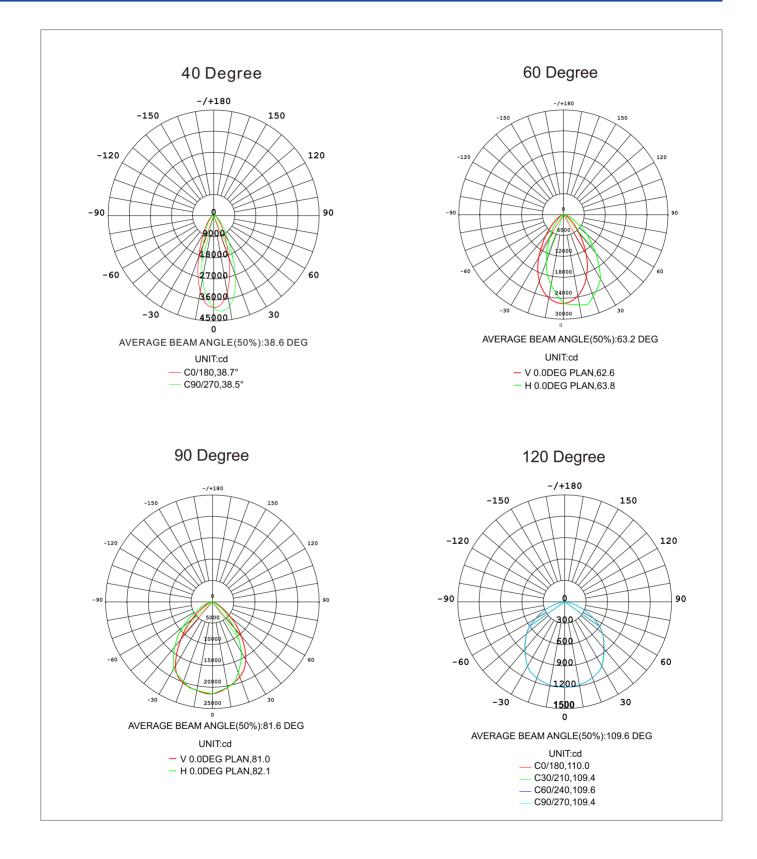
*Please note that net weight and gross weight may be subject to change because of actual configuration.

Ordering Guide

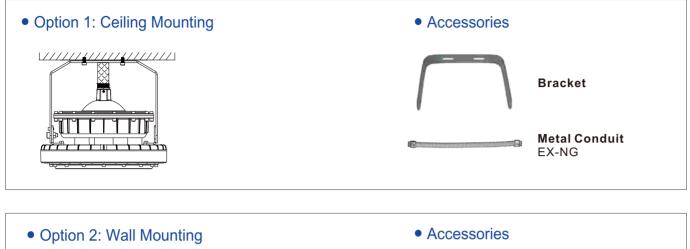
EX - yyyW X Y Z D A -1 1 2 3 4 5 6 7 8						
1. Product Categories	2. Wattage	3. Shell Shape Series	4. Dimming or Not			
Explosion Proof Light	C2: 20/40/60/80W C: 100/150W C3: 200/250/280W	"X" Can be: C C2 C3	"Y" Can be: D: Dimmable N: Non-dimmable			
5. Color Temperature	6. Beam Angle	7. Long Glass Cover Opt	ional 8. Optional			
"Z" can be 27 to 70 denotes 2700K to 7000K, and each 100K gradually increase, max 7000K		"A" = C: long glass cove	r "-1" NA (optional)			



Photometric

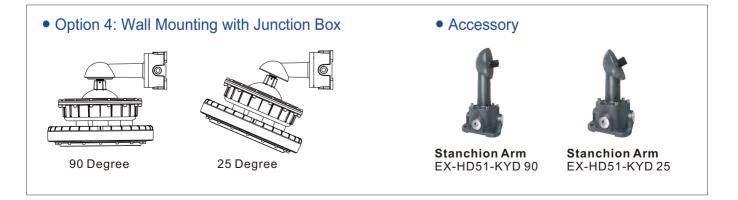


Mounting Methods and Accessories









Mounting Methods and Accessories





