

# Durable Lighting Made for Industrial Safety



## Hazardous Location LED Luminaire C Series (Zone 1, 2, 21, 22)



C2



C



C3



## 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

ATEX Standard:

Ex II 2 G D

Ex db IIB T6...T3 Gb

Ex tb IIC T80°C...T195°C Db

IECEX Standard:

Ex db IIB T6...T3 Gb

Ex tb IIIC T80°C...T195°C Db

Zone 1&2, Zone 21&22

CB (Ref. Certif. No.: DE 2-038462-M1)

IP66/IP67

IK08 (glass cover)

IK10 (with wire guard)

1000 hours salt spray



## 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 C2**D**	EX-40W C2**D**	EX-60W C2**D**	EX-80W C2**D**
Rated Power	20W	40W	60W	80W
Input Voltage	100-277VAC/120-250VAC/12-48VDC			
Input Frequency	50/60Hz			
Power Factor	> 0.95			
Emergency Time*	3 hours			

\*Emergency function optional.

### • Optical

Specification	EX-20W C2**D**	EX-40W C2**D**	EX-60W C2**D**	EX-80W C2**D**
Lumen Output	2800lm	5,600lm	8,400lm	11200lm
Lumens Per Watt	140lm/W			
CCT	3000K-6500K			
CRI	> 70			
Beam Angle	40°/60°/90°/120°			
Dimming	0-10V dimming			

### • Environmental

Specification	EX-20W C2**D**	EX-40W C2**D**	EX-60W C2**D**	EX-80W C2**D**
Ambient Temperature	100-277VAC: Ta≤+40/60°C (T6/T5) 120-250VAC: Ta≤+80°C (T4) 12-48VDC: Ta≤+80°C (T4)			

### • Mechanical

Specification	EX-20W C2**D**	EX-40W C2**D**	EX-60W C2**D**	EX-80W C2**D**
Housing Material	Copper-free aluminum			
Diffuser	Tempered glass			
Hardware	Stainless steel			
Protection	IP66/IP67/IK08 (glass cover)/IK10 (with wire guard)			
Mounting	Ceiling, Wall, Hook pendant, Pole, Stanchion			
Cable Entries*	Side: 3/4 NPT, M20, M25, 1/2NPT Top: 3/4 NPT, M25			

\*Cable Entries: For side and top, 3/4 NPT is standard. If others are required, customer needs to indicate when placing an order.

## Technical Parameter

### • Electrical

Specification	EX-100W C**D**	EX-150W C**D**
Rated Power	100W	150W
Input Voltage	100-277VAC/120-250VAC/12-48VDC	
Input Frequency	50/60Hz	
Power Factor	> 0.95	
Emergency Time*	3 hours	

\*Emergency function optional.

### • Optical

Specification	EX-100W C**D**	EX-150W C**D**
Lumen Output	14000lm	21000lm
Lumens Per Watt	140lm/W	
CCT	3000K-6500K	
CRI	> 70	
Beam Angle	40°/60°/90°/120°	
Dimming	0-10V dimming	

### • Environmental

Specification	EX-100W C**D**	EX-150W C**D**
Ambient Temperature	100-277VAC: Ta≤+40/60°C (T5/T4) 120-250VAC: Ta≤+80°C (T4) 12-48VDC: Ta≤+80°C (T4)	

### • Mechanical

Specification	EX-100W C**D**	EX-150W C**D**
Housing Material	Copper-free aluminum	
Diffuser	Tempered glass	
Hardware	Stainless steel	
Protection	IP66/IP67/IK08 (glass cover)/IK10 (with wire guard)	
Mounting	Ceiling, Wall, Hook pendant, Pole, Stanchion	
Cable Entries*	Side: 3/4 NPT, M20, M25, 1/2NPT Top: 3/4 NPT, M25	

\*Cable Entries: For side and top, 3/4 NPT is standard. If others are required, customer needs to indicate when placing an order.

## Technical Parameter

### • Electrical

Specification	EX-200W C3**D**	EX-250W C3**D**	EX-280W C3**D**
Rated Power	200W	250W	280W
Input Voltage	100-277VAC/120-250VAC/12-48VDC		
Input Frequency	50/60Hz		
Power Factor	> 0.95		
Emergency Time*	3 hours		

\*Emergency function optional.

### • Optical

Specification	EX-200W C3**D**	EX-250W C3**D**	EX-280W C3**D**
Lumen Output	28000lm	35000lm	39200lm
Lumens Per Watt	140lm/W		
CCT	3000K-6500K		
CRI	> 70		
Beam Angle	40°/60°/90°/120°		
Dimming	0-10V dimming		

### • Environmental

Specification	EX-200W C3**D**	EX-250W C3**D**	EX-280W C3**D**
Ambient Temperature	100-277VAC: Ta≤+40/60°C (T5/T4) 120-250VAC: Ta≤+80°C (T4) 12-48VDC: Ta≤+80°C (T3)		

### • Mechanical

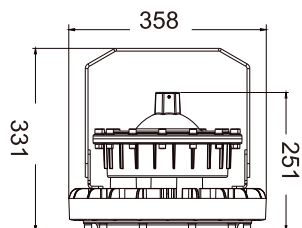
Specification	EX-200W C3**D**	EX-250W C3**D**	EX-280W C3**D**
Housing Material	Copper-free aluminum		
Diffuser	Tempered glass		
Hardware	Stainless steel		
Protection	IP66/IP67/IK08 (glass cover)/IK10 (with wire guard)		
Mounting	Ceiling, Wall, Hook pendant, Pole, Stanchion		
Cable Entries*	Side: 3/4 NPT, M20, M25, 1/2NPT Top: 3/4 NPT, M25		

\*Cable Entries: For side and top, 3/4 NPT is standard. If others are required, customer needs to indicate when placing an order.

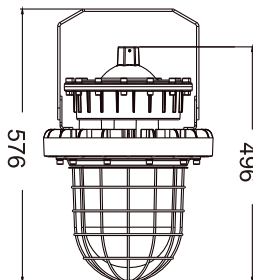


## Product Dimensions (all in millimeters)

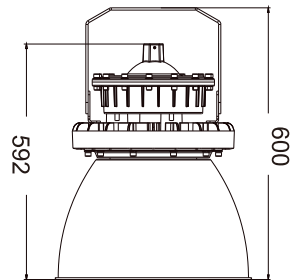
C2



Flat glass

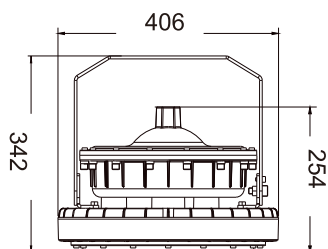


with drop lens and wire guard

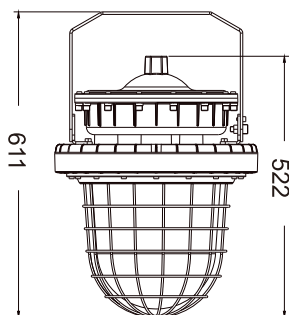


with lamp shade

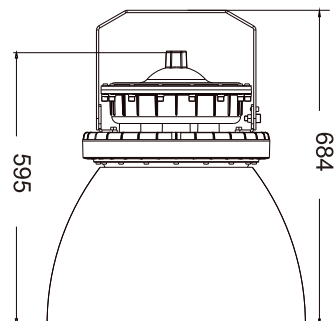
C



Flat glass

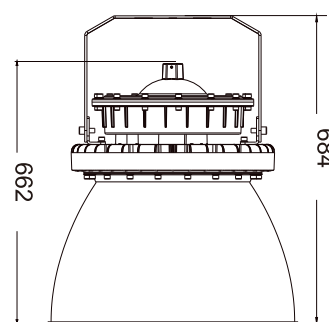
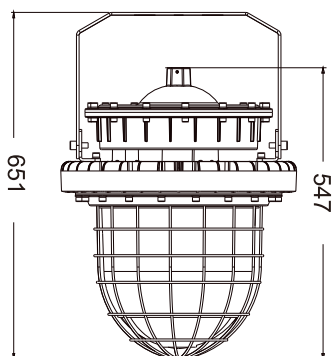
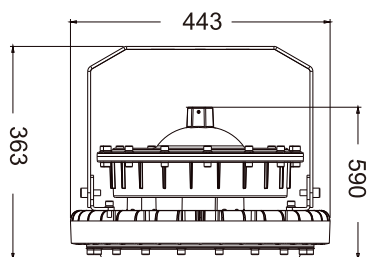


with drop lens and wire guard

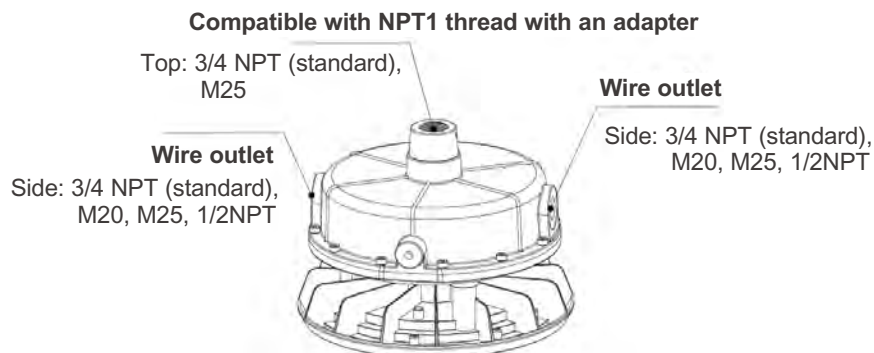


with lamp shade

C3



## Cable Entries



### • Packing Information

Model	Net Weight*	Gross Weight*	Quantity/Carton	Package Dimensions (LxWxH)
C2	14.0kg	16.0kg	1 pc	479x470x345mm
C	17.4kg	19.0kg	1 pc	550x520x360mm
C3	21.0kg	25.0kg	1 pc	555x555x345mm

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

## Ordering Guide

EX - **\*\*\*W** **\*** **\*** **\*** **D\*** **\***

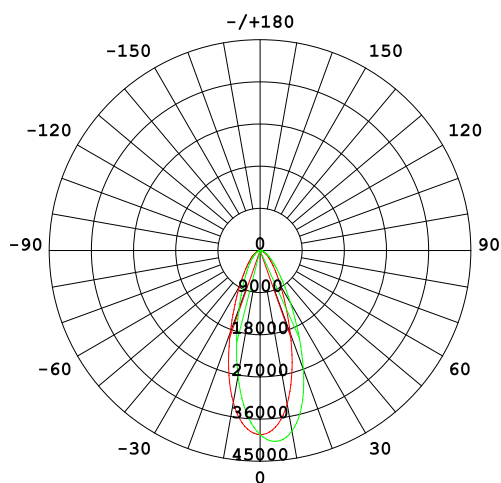
1 2 3 4 5 6

1. Wattage	2. Product Code	3. Dimmable Option
C2: 20/40/60/80W C: 100/150W C3: 200/250/280W	Can be: C2 C C3	D: Dimmable N: Non-dimmable
4. Color Temperature	5. Beam Angle	6. Power Supply
Can be 30, 40, 50, 55, 65 denotes 3000K to 6500K	D40=40° D60=60° D90=90° D120=120°	Blank: Power supply (100-277VAC, 50/60Hz) I: IC power supply (120-250VAC, 50/60Hz) D: DC power supply (optional, 12-48VDC)



## Photometric

40 Degree

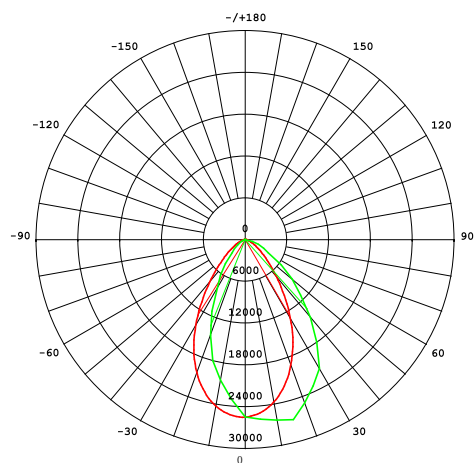


AVERAGE BEAM ANGLE(50%):38.6 DEG

UNIT:cd

— C0/180,38.7°  
— C90/270,38.5°

60 Degree

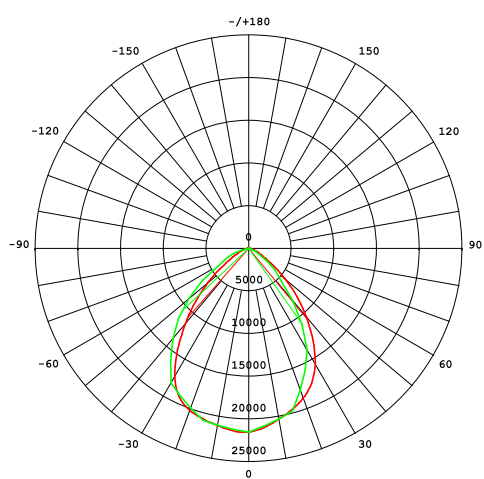


AVERAGE BEAM ANGLE(50%):63.2 DEG

UNIT:cd

— V 0.0DEG PLAN,62.6  
— H 0.0DEG PLAN,63.8

90 Degree

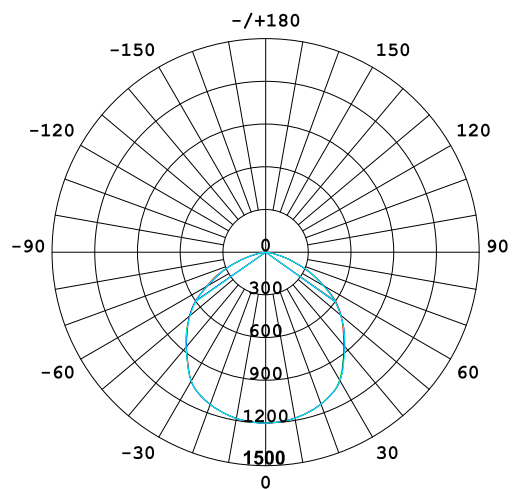


AVERAGE BEAM ANGLE(50%):81.6 DEG

UNIT:cd

— V 0.0DEG PLAN,81.0  
— H 0.0DEG PLAN,82.1

120 Degree



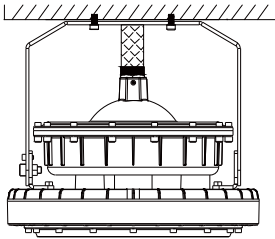
AVERAGE BEAM ANGLE(50%):109.6 DEG

UNIT:cd

— C0/180,110.0  
— C30/210,109.4  
— C60/240,109.6  
— C90/270,109.4

## Mounting Methods and Accessories

### • Option 1: Ceiling Mounting



### • Accessories

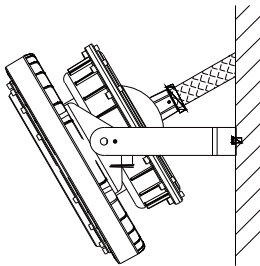


**Bracket**



**Metal Conduit**  
EX-NG

### • Option 2: Wall Mounting



### • Accessories

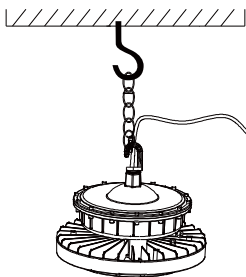


**Bracket**



**Metal Conduit**  
EX-NG

### • Option 3: Hook Pendant Mounting



### • Accessories

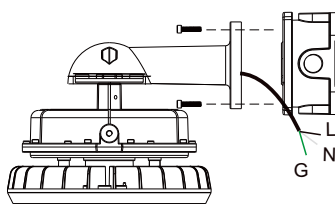


**Hook**  
Ex-Hook



**Pendant Chain**  
Ex-Straight Chain

### • Option 4: Wall Mounting with Junction Box



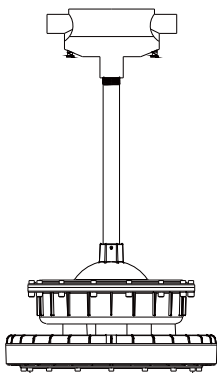
### • Accessory



**Stanchion Arm**  
EX-HD51-KYD 90

## Mounting Methods and Accessories

### • Option 5: Pole Mounting (Vertical)



### • Accessories

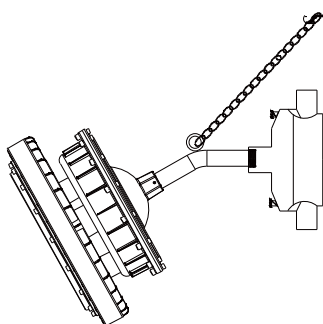


**Junction Box**  
EX-HD51-KB1



**Pole**  
Ex-Straight Pipe

### • Option 6: Pole Mounting (Non-vertical)



### • Accessories



**Junction Box**  
EX-HD51-KB1

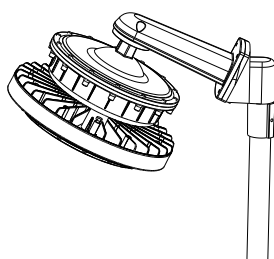


**Pole**  
Ex-Bended Pipe

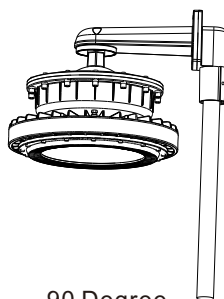


**Pendant Chain**  
Ex-Straight Chain

### • Option 7: Stanchion Mounting



25 Degree



90 Degree

### • Accessories



**Installation Component**  
90 Degrees



**Installation Component**  
25 Degrees