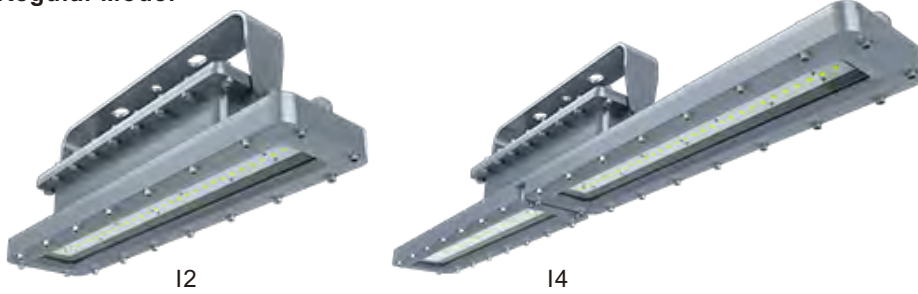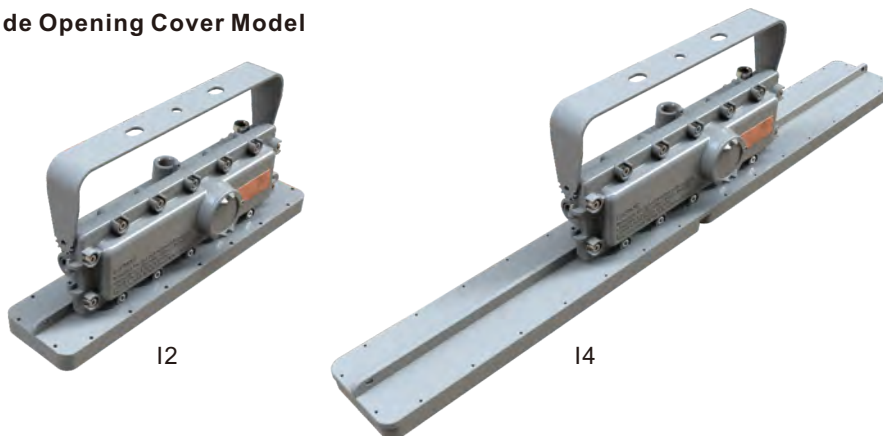# Durable Lighting Made for Industrial Safety

Hazardous Location LED Luminaire
I Series (for North America)

VENAS
Venas International Co., Ltd

VENAS

Regular Model

I2

I4

Side Opening Cover Model

I2

I4

ABS HazLoc c(UL)us LISTED c(ETL)us Intertek DLC

Product Description

The I Series LED luminaire is the ideal choice for marine and hazardous applications where a linear design is required. 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
- Emergency function optional
- 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

VENAS

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/IP67
IK08 (glass cover)
IK10 (with wire guard)

** 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

VENAS

Technical Parameter

● Electrical

Specification	EX-20W I2YZD	EX-40W I2YZD	EX-60W I2YZD
Rated Power	20W	40W	60W
Input Voltage	100-277VAC/200-480VAC		
Input Frequency	50/60Hz		
Power Factor	> 0.95		
Emergency Time*	1.5 hours		

Emergency function optional.

● Optical

Specification	EX-20W I2YZD	EX-40W I2YZD	EX-60W I2YZD
Lumen Output	2800lm	5600lm	8400lm
Lumens Per Watt	140lm/W		
CCT	2700K-7000K		
CRI	> 70		
Beam Angle	120°		
Dimming	0-10V dimming		

● Environmental

Specification	EX-20W I2YZD	EX-40W I2YZD	EX-60W I2YZD
Ambient Temperature	-40°C to +60°C (-40°F to +140°F)		
Temperature Code	T4		

● Mechanical

Specification		EX-20W I2YZD	EX-40W I2YZD	EX-60W I2YZD
Housing Material		Copper-free aluminum		
Diffuser		Tempered glass		
Hardware		Stainless steel		
Protection		IP66/IP67/IK08 (glass cover)/IK10 (with wire guard)		
Mounting		Ceiling, Pole, Wall, Chain, Pendant		
Cable Entries	Regular Model	Top: 3/4 NPT(standard), 1/2 NPT Two sides: 3/4 NPT(standard), 1/2 NPT		
	Side Opening Cover Model	Top: 3/4 NPT(standard), 1/2 NPT Two sides: 3/4 NPT(standard), 1/2 NPT		

VENAS

Technical Parameter

● Electrical

Specification	EX-40W I4YZD	EX-60W I4YZD	EX-80W I4YZD	EX-100W I4YZD	EX-120W I4YZD
Rated Power	40W	60W	80W	100W	120W
Input Voltage	100-277VAC/200-480VAC				
Input Frequency	50/60Hz				
Power Factor	> 0.95				
Emergency Time*	1.5 hours				

Emergency function optional.

● Optical

Specification	EX-40W I4YZD	EX-60W I4YZD	EX-80W I4YZD	EX-100W I4YZD	EX-120W I4YZD
Lumen Output	5600lm	8400lm	11200lm	14000lm	16800lm
Lumens Per Watt	140lm/W				
CCT	2700K-7000K				
CRI	> 70				
Beam Angle	120°				
Dimming	0-10V dimming				

● Environmental

Specification	EX-40W I4YZD	EX-60W I4YZD	EX-80W I4YZD	EX-100W I4YZD	EX-120W I4YZD
Ambient Operating Temperature	-40°C to +60°C (-40°F to +140°F)			-40°C to +40°C (-40°F to +104°F)	
Temperature Code	T4			T4	

● Mechanical

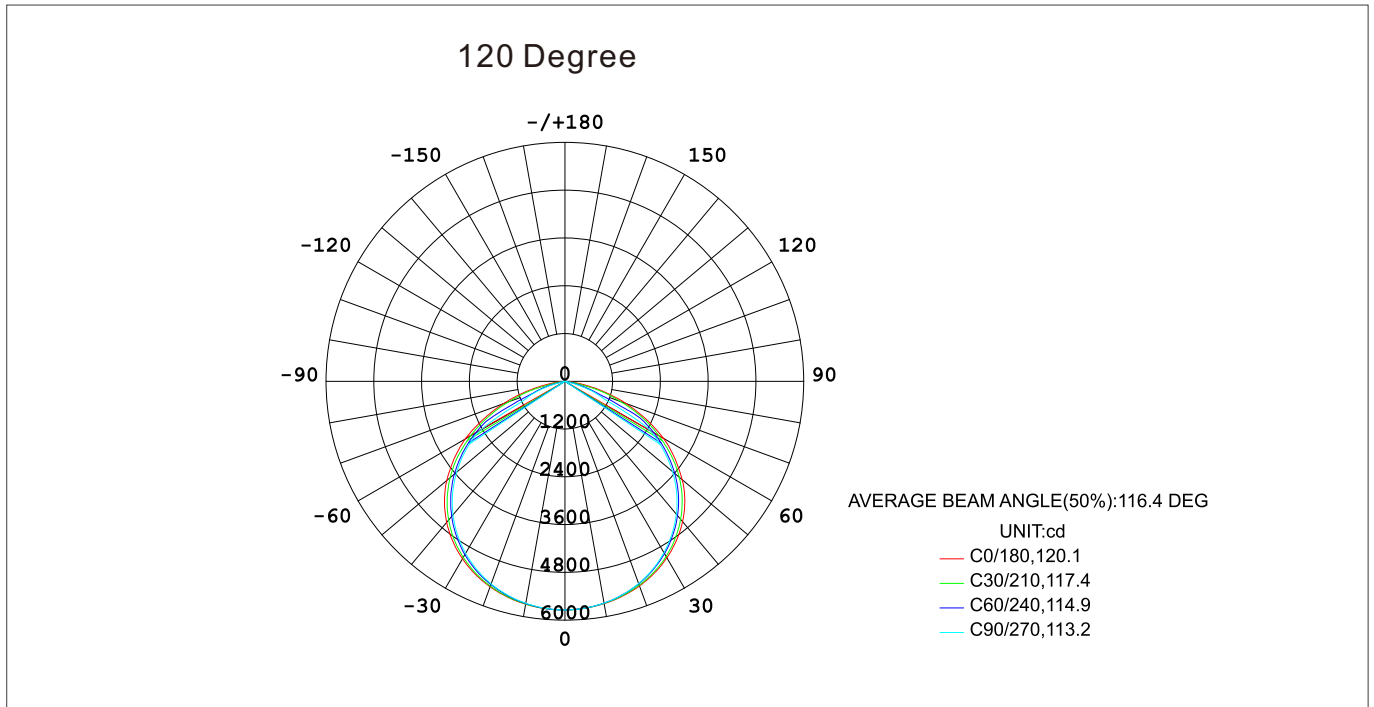| Specification		EX-40W I4YZD	EX-60W I4YZD	EX-80W I4YZD	EX-100W I4YZD	EX-120W I4YZD
Housing Material		Copper-free aluminum				
Diffuser		Tempered glass				
Hardware		Stainless steel				
Protection		IP66/IP67/IK08 (glass cover)/IK10 (with wire guard)				
Mounting		Ceiling, Pole, Wall, Chain, Pendant				
Cable Entries	Regular Model	Top: 3/4 NPT(standard), 1/2 NPT Two sides: 3/4 NPT(standard), 1/2 NPT				
	Side Opening Cover Model	Top: 3/4 NPT(standard), 1/2 NPT Two sides: 3/4 NPT(standard), 1/2 NPT				

Product Dimensions

Regular Model

I2

5.51 inch
23.23 inch
7.5 inch

I4

5.51 inch
46.61 inch
16.85 inch
8 inch

Side Opening Cover Model

I2

18.11 inch
7.75 inch
11.18 inch
23.23 inch
6.18 inch
1.18 inch
0.81 inch
5.51 inch
7.08 inch
23.23 inch

I4

18.11 inch
7.75 inch
11.18 inch
46.61 inch
6.18 inch
1.18 inch
0.81 inch
5.51 inch
7.08 inch
46.61 inch
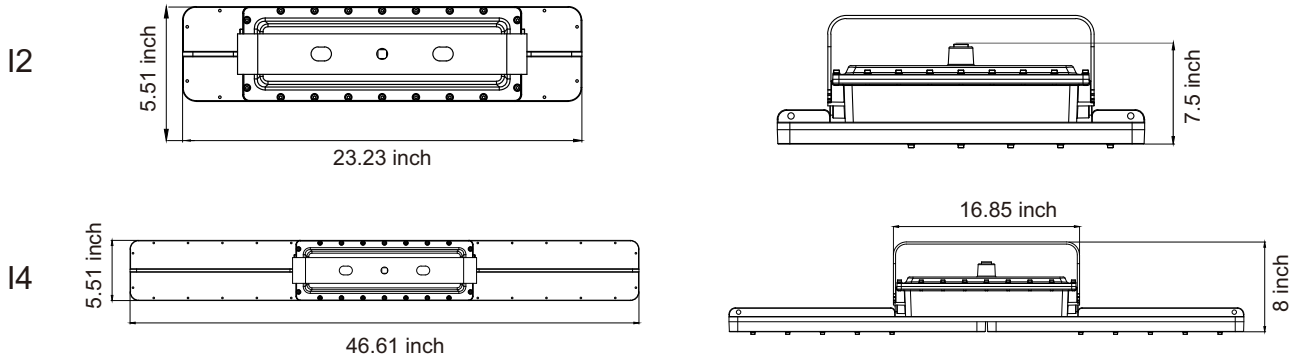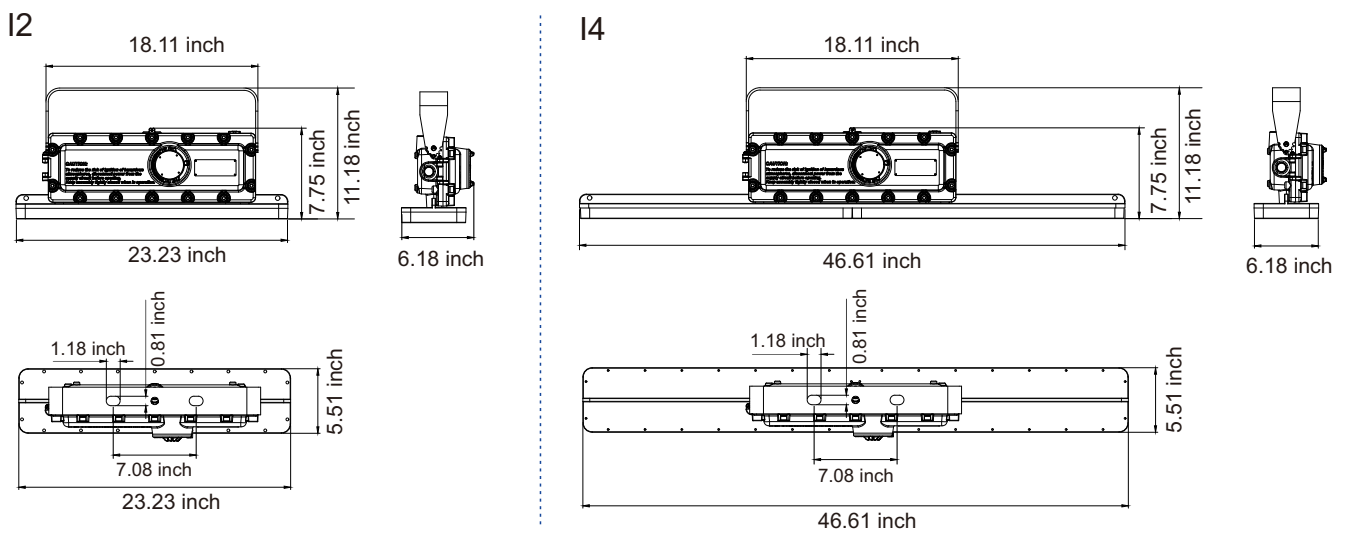
● Packing Information

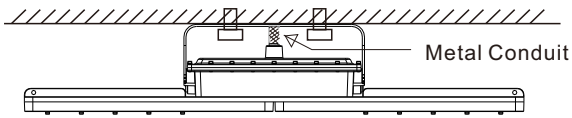| Model	Net Weight	Gross Weight	Quantity/Carton	Package Dimensions (LxWxH)
I2 (Regular)	26.46 lb	28.66 lb	1 pc	30.31x13.39x10.43 inch
I4 (Regular)	40.79 lb	47.40 lb	1 pc	53.94x14.17x11.42inch
I2 (Side Opening Cover Model)	33.07 lb	35.27 lb	1 pc	30.31x13.39x10.43 inch
I4 (Side Opening Cover Model)	40.79 lb	47.40 lb	1 pc	53.94x14.17x11.42inch

Photometric

120 Degree

AVERAGE BEAM ANGLE(50%):116.4 DEG
UNIT:cd
— C0/180,120.1
— C30/210,117.4
— C60/240,114.9
— C90/270,113.2

Ordering Guide

EX - yyyW XYZD -1
1   2   3 4 5 6 7

1. Product Categories	2. Wattage	3. Shell Shape Series	4. Dimming or Not
Explosion Proof Light	I2: 20/40/60W I4: 40/60/80/100/120W	"X" Can be: I2 (2=2FT) I4 (4=4FT)	"Y" Can be: D: dimmable N: non-dimmable

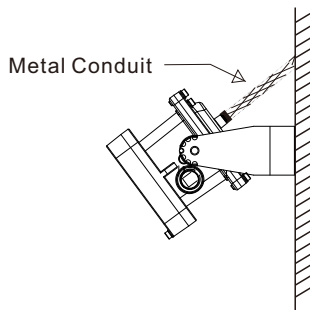| 5. Color Temperature	6. Beam Angle	7. Optional
"Z" can be 27 to 70 denotes 2700K to 7000K, and each 100K gradually increase, max 7000K	"D" can be: D120: 120°	"-1" NA (optional)

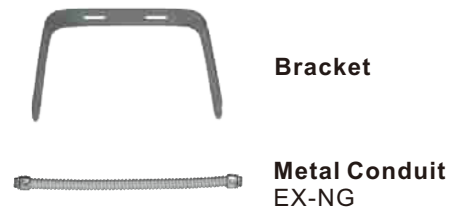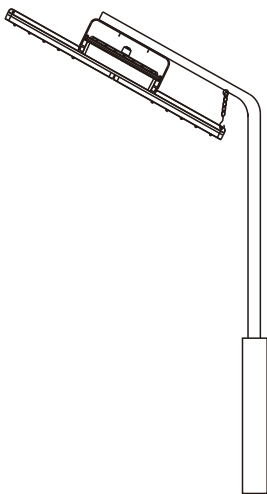# Mounting Methods and Accessories

● Option 1: Ceiling Mounting

Metal Conduit

● Accessories

Bracket

Metal Conduit
EX-NG

● Option 2: Wall Mounting

Metal Conduit

● Accessories

Bracket

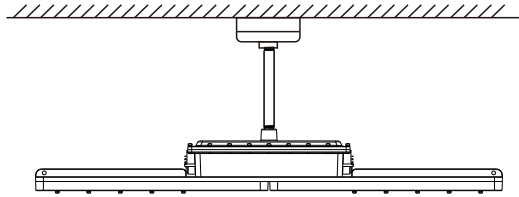**Metal Conduit**
EX-NG
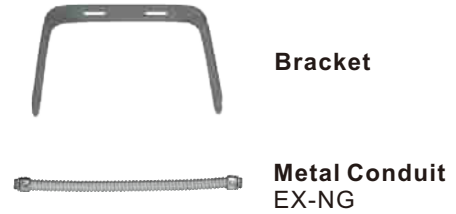
● Option 3: Pole Mounting

● Accessory

Bracket

Mounting Methods and Accessories

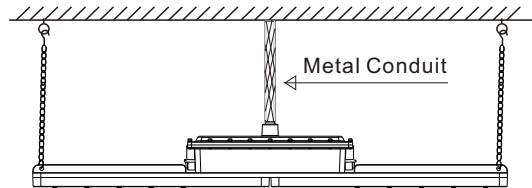● Option 4: Pendant Mounting

● Accessories

Junction Box
EX-HD51-KB1

Pole
Ex-Straight Pipe

● Option 5: Chain Mounting

● Accessories

Metal Conduit

Pendant Chain
Ex-Straight Chain

Metal Conduit
EX-NG