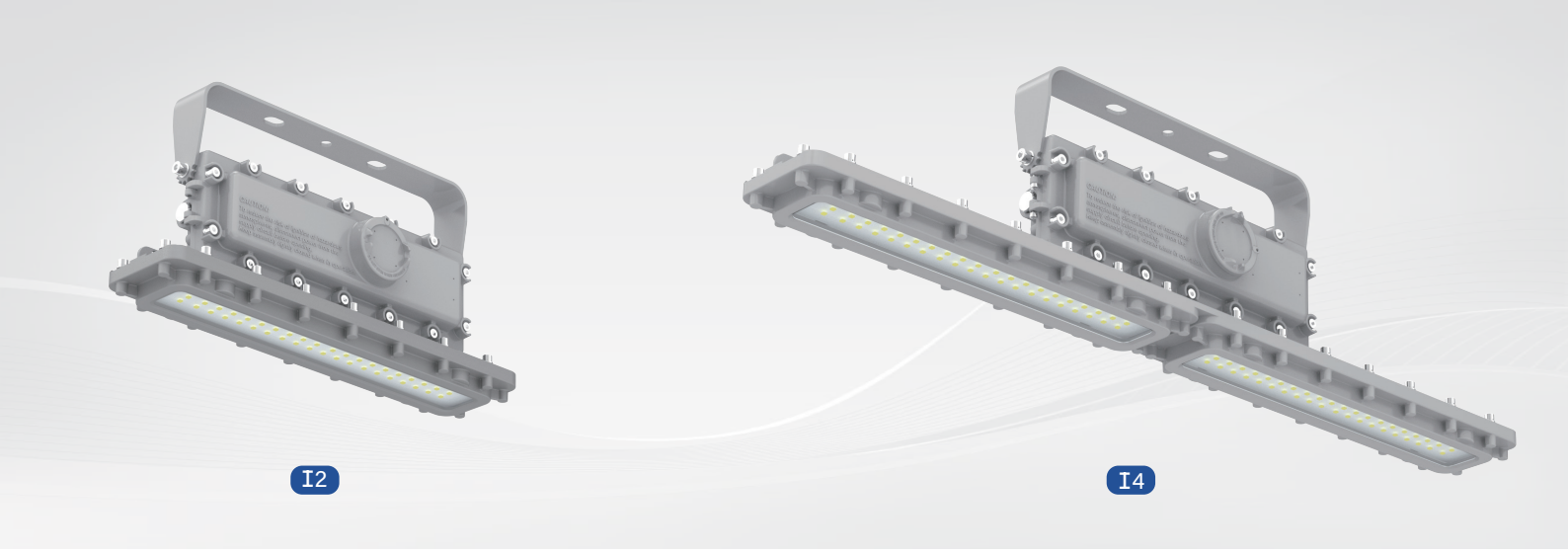
HAZARDOUS LOCATIONS LED LUMINAIRE
EX-I Spec Sheet

Pan American
Professional Lighting Manufacturer



EX- I Spec Sheet

The EX-I Series LED luminaire is the ideal choice formarine and hazardous applications where a lineardesign is required. Featuring the design of structure,the power box can be opened from the side by openingthe M75 circular cover, without the need to loosenmultiple screws, easy and convenient for installationand maintenance.

Compliance

- UL 844 Hazardous Locations
  Class I Division 1, Groups C and D
  Class I Division 2, Groups A, B, C and D
  Class II Division 1, Group E, F and G
  Class II Division 2, Group F and G
  Class III
- UL 1598 Wet Locations
- UL 1598A Marine Type
- DNV
- Vibration 3G
- NEMA Type 4X
- IP66
- IK08

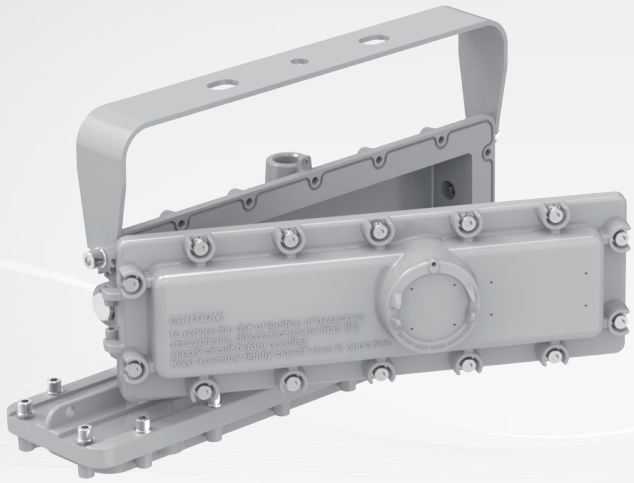
Application

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

HAZARDOUS LOCATIONS LED LUMINAIRE
EX-I Spec Sheet

Pan American
Professional Lighting Manufacturer

Benefits & Features

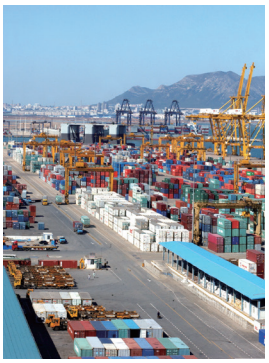


- Stainless-steel hardware, great anti-corrosion
- Copper-free aluminum housing, excellent corrosion resistance and cooling performance
- High-quality SMD LED, efficacy up to 150 lumens per watt
- Available in two lengths: 2 feet, 4 feet
- Power box can be opened from the side by opening the M75 circular cover, convenient for installation and maintenance, significantly saving manpower and installation time
- UV-stable and impact resistant clear diffused tempered glass lens to minimize glare

Key Features and Information

• Electrical

Model	EX-xxxW I2	EX-xxxW I4
Selectable Power	30W/50W/60W	60W/80W/100W
Power Model	I2: SS-75VA-56BHL for 120-277VAC; VA-65V-054B for 277-480VAC I4: SS-100VA-56BHL for 120-277VAC; VA-100V-054B for 277-480VAC	
Input Voltage	120-277VAC or 277-480VAC	
Input Frequency	50/60Hz	
Power Factor	> 0.95	
Optional Emergency Function	Min. 90 mins (Contact sales for EM options)	
Service Life	Up to 50,000 hours	
Salt Spray	500Hours	
Dimming	Driver includes dimming control wiring for 1-10V dimming systems Requires separate 1-10V DC dimming circuit	



HAZARDOUS LOCATIONS LED LUMINAIRE
EX-I Spec Sheet

Pan American
Professional Lighting Manufacturer

• Optical

Model	EX-xxxW I2	EX-xxxW I4
Selectable Power	30W/50W/60W	60W/80W/100W
Lumens Per Watt	150lm/W	150lm/W
Lumen Output	4500-9000lm	9000-15000lm
Selectable CCT	4000K/5000K/6500K	
CRI	＞70	
Beam Angle	120°	
Dimming	0-10V dimming optional	
Lifespan	LED lumen maintenance: L70>150,000 operation hours@55℃	



(Note: Refer to the table of testing data on page 4.)

• Mechanical

Model	EX-xxxW I2/I4
Housing Material	Copper-free aluminum
Diffuser Material	Flat Tempered Glass
Hardware	Stainless steel 304
Gasket Material	Silicone Rubber
Protection Rating	Ingress protection: IP66　Impact protection: IK08
Mounting Options	Ceiling Mount (Included); Pendant Mount (Purchase separately) ; Pole Mount (Purchase separately) ; Wall Mount (Included)
Cable Entries	Top: 3/4 " NPT (standard), Both sides: M20 (standard), Optional M25, 3/4 NPT, 1/2 NPT.
Warranty	5-year limited warranty for fixture ; 3-year limited warranty for battery backup

• Ambient Temperature

Model	Input Voltage	Power Model	Temperature Class
I2	120-277VAC	SS-75VA-56BHL	T5:-40°C to +60°C (CIDII)
	277-480VAC	VA-65V-054B	
I4	120-277VAC	SS-100VA-56BHL	T5:-40°C to +60°C (CIDII)
	277-480VAC	VA-100V-054B	T6:-40°C to +55°C (CIDII)

HAZARDOUS LOCATIONS LED LUMINAIRE
EX-I Spec Sheet

Pan American
Professional Lighting Manufacturer

- Electrical specification (actual measurement)

Model	EX-60WI2D50D120V75T								
Test Power	60W			50W			30W		
Test CCT (K)	6500	5000	4000	6500	5000	4000	6500	5000	4000
Lumens Per Watt (lm/W)	140.29	145.59	142.23	140.9	145.52	142.95	140.16	143.04	142.24
Lumen Output (lm)	8492.7	8615	8586.2	7099.5	7197.3	7211	4425.9	4449.2	4491.1
Beam Angle	101.3	101.4	101.4	101.3	101.4	101.5	101.3	101.5	101.5
CCT (K)	6246	4969	4085	6236	4969	4085	6216	4962	4082
CRI	72.9	73.5	72.9	72.9	73.5	72.9	73	73.6	73
Power Factor	0.9947	0.9945	0.9927	0.9927	0.9925	0.9927	0.9843	0.984	0.9842
Test Voltage	120VAC								
Test Power Model	SS-75VA-56BHL								

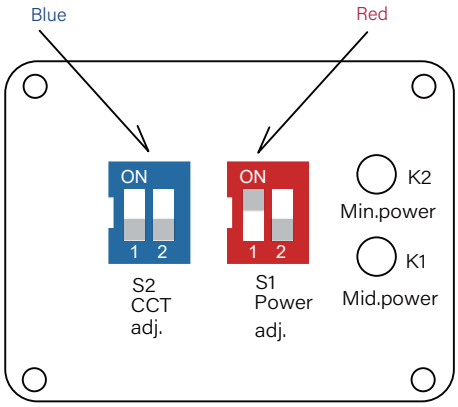
Model	EX-100WI4D50D120V10T								
Test Power	100W			80W			60W		
Test CCT (K)	6500	5000	4000	6500	5000	4000	6500	5000	4000
Lumens Per Watt (lm/W)	147.64	151.81	150.47	149.3	145.82	151.97	150.79	154.21	153.49
Lumen Output (lm)	14867	15097	15060	12014	11522	12221	9067.1	9127.1	9219.7
Beam Angle	103.5	103.3	103	103.4	101.4	103	103.3	103.1	102.9
CCT (K)	6432	5067	4186	6422	5062	4183	6403	5057	4181
CRI	73.1	73.6	73.2	73.1	73.6	73.2	73.2	73.6	73.3
Power Factor	0.9977	0.9976	0.9978	0.9965	0.9964	0.9965	0.9941	0.9939	0.9941
Test Voltage	120VAC								
Test Power Model	SS-100VA-56BHL								

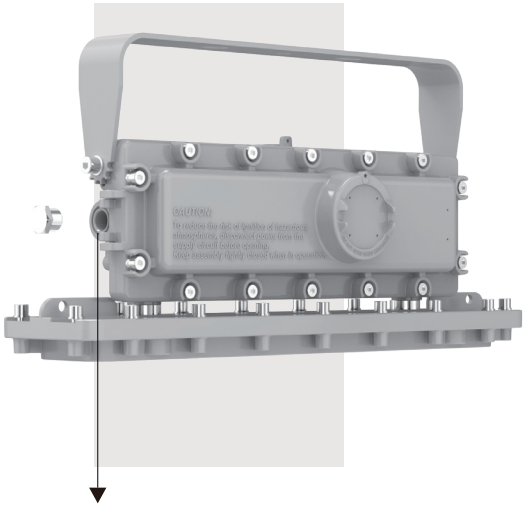


HAZARDOUS LOCATIONS LED LUMINAIRE
EX-I Spec Sheet

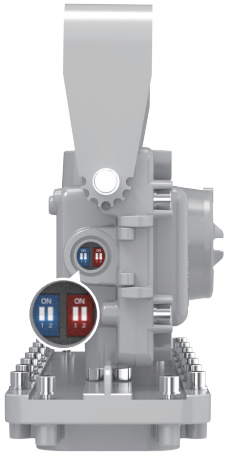
Pan American
Professional Lighting Manufacturer

Power and CCT Selectable





Power and CCT Selectable



DIP switch

Operating Instructions

- **S1 DIP switch - Red (S1 Power adj.)**

The luminaire incorporates a dual-dial power configuration switch enabling three selectable output ratings. Factory default settings and power levels can be customized based on project requirements.

1. Maximum Output (100% nominal power)
Switch configuration: Dial 1 = OFF, Dial 2 = OFF;



I2: 60W

2. Medium Output (70%-90% of nominal power, depending on specification)Switch configuration: Dial 1 = ON, Dial 2 = OFF



I2: 50W

3. Minimum Output (50%-70% of nominal power, depending on specification)Switch configuration: Dial 1 = OFF, Dial 2 = ON



I2: 30W

- **S2 DIP switch - Blue (S2 CCT adj.)**

The luminaire incorporates a dual-dial power configuration switch enabling three preset color temperature options. The factory default setting can be customized according to order requirements.

1. Cool white, e.g. 6500K
Switch configuration: Dial 1 = OFF, Dial 2 = OFF



6500K

2. Neutral white, e.g. 5000K
Switch configuration: Dial 1 = ON, Dial 2 = OFF



5000K

3. Warm white, e.g. 4000K
Switch configuration: Dial 1 = ON, Dial 2 = ON



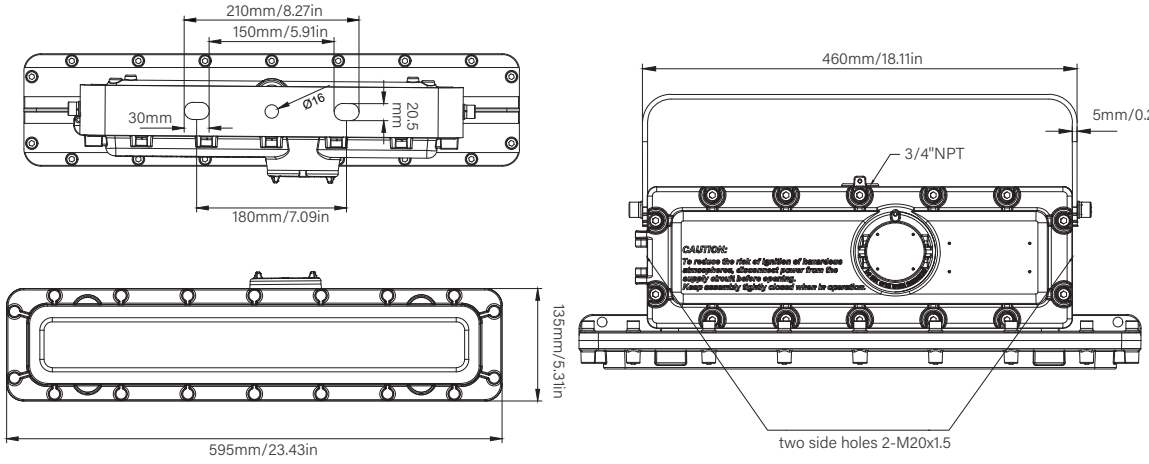
4000K

HAZARDOUS LOCATIONS LED LUMINAIRE
EX-I Spec Sheet

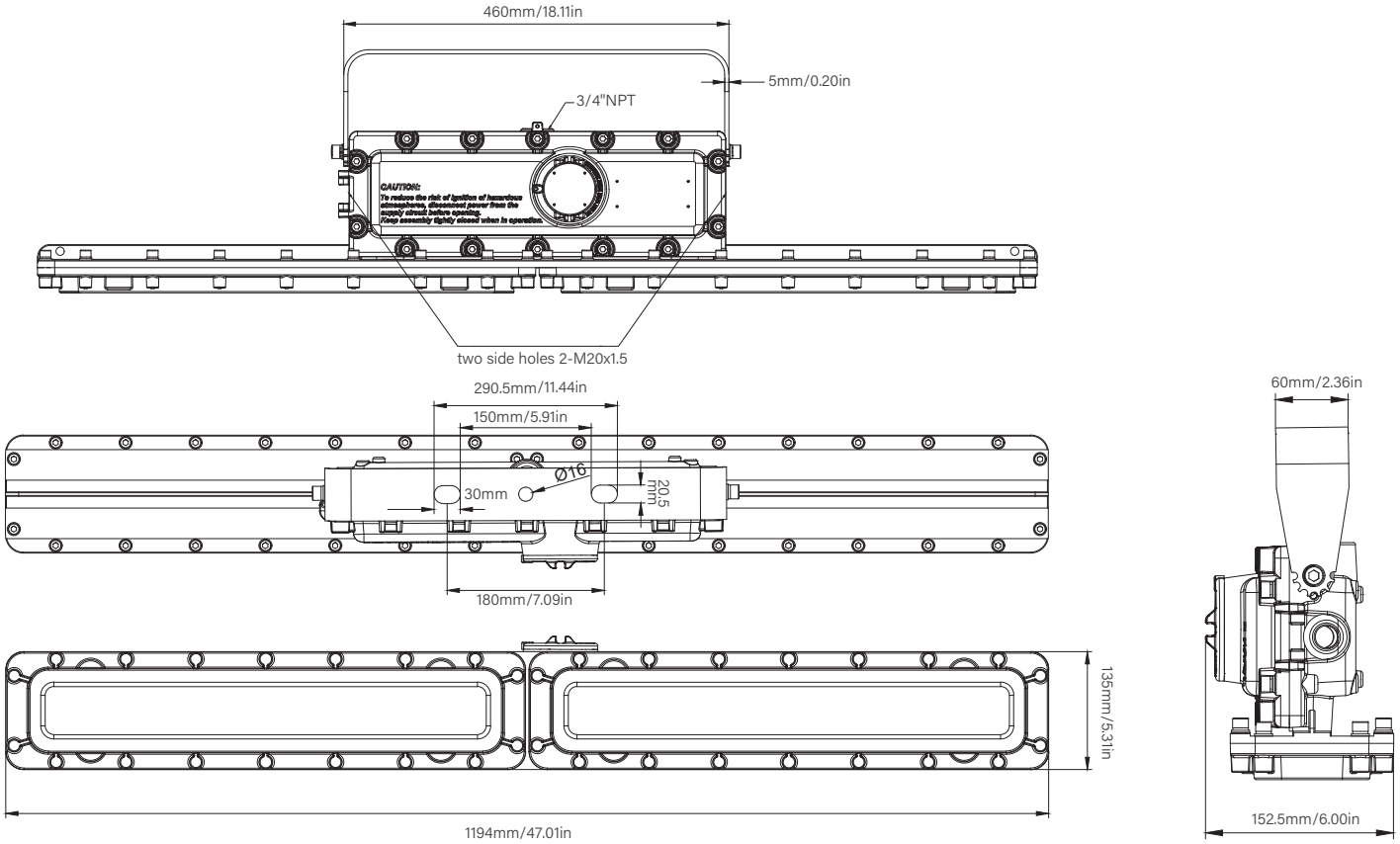
Pan American
Professional Lighting Manufacturer

Product Dimensions Unit: mm[inch]

- **I2**



- **I4**

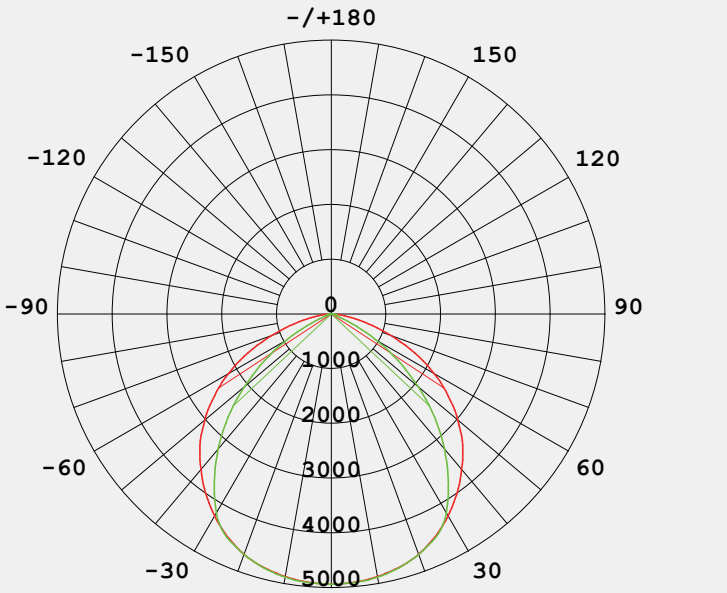


Packing Information

Model	Package Dimensions	Net Weight	Gross Weight	Quantity/Carton
I2	675x255x392mm/26.57×10.04×15.43inch	12.5kg/27.56 lb	13.7 kg/ 30.20 lb	1 pc
I4	1269x255x392mm/49.96×10.04×15.43inch	18.2kg/40.12 lb	19.6 kg/43.21 lb	1 pc

Photometric

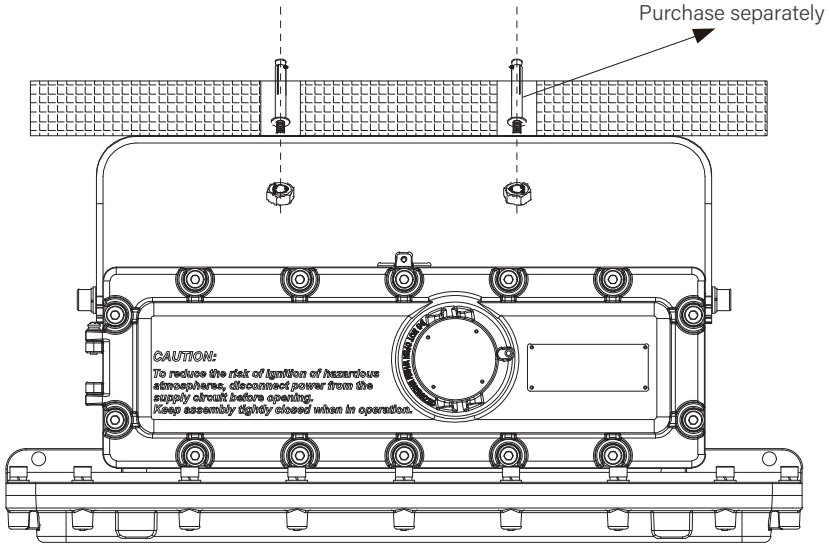
- 120 Degree



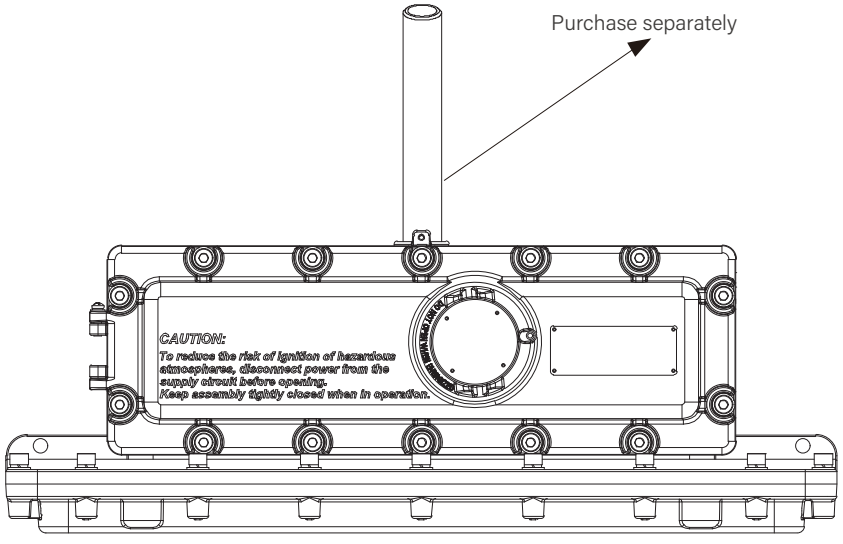
AVERAGE BEAMANGLE(50%): 103.4 DEG

Mounting Methods

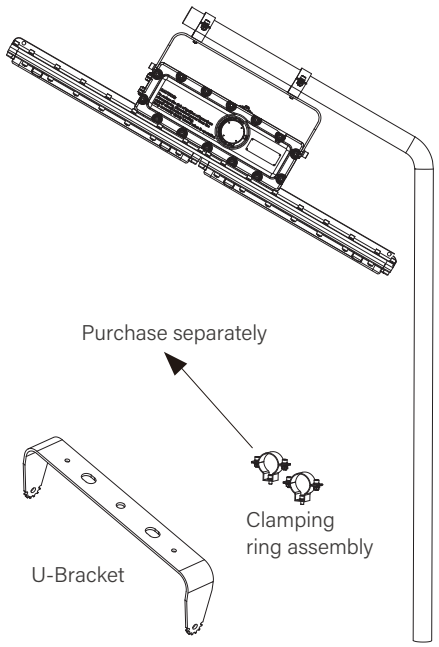
- Option 1: **Ceiling Mounting**



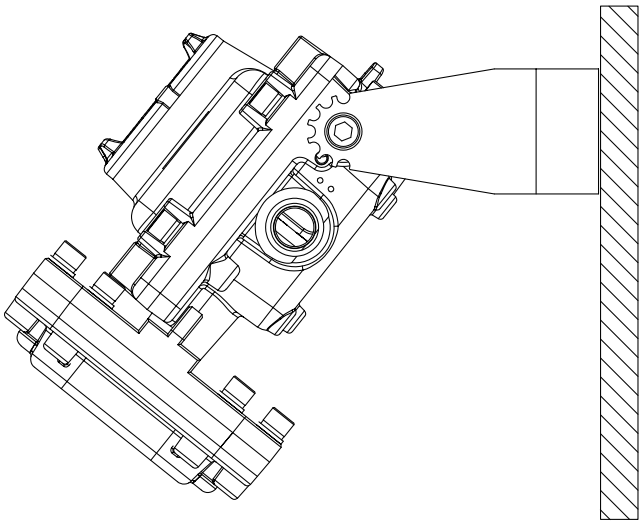
- Option 2: Pendant Mounting



- Option 3: Pole Mounting



- Option 4: Wall Mounting



Accessories



EPC-Straight Chain



EPC-Straight Pipe



EX-HD51-KB1

Ordering Guide

EX xxW I2/I4 D 50 D120 H V10 T -E

Basic Model Series
EX

Luminaire input wattage rating
Selectable:
I2:30W/50W/60W
I4:60W/80W/100W

Lamp Enclosure Heatsink type
I2 = Heatsink (I2)
I4 = Heatsink (I4)

Dimming Function
Blank = No Dimmable
D= Dimmable

CCT
Selectable:
50 = 4000K/5000K/6500K

Beam Angle
D120 = 120 degrees

Input voltage of luminaires
Blank = 120-277 V
H = 277-480 V
M = 120-347 V

LED Driver
V75=SS-75VA-56BHL
V10=SS-100VA-56BHL
A65=VA-65V-054B
A10=VA-100V-054B

Dual Tunable or not
T = With Tunable
Blank = Without Tunable

Backup Power Source
Blank = Without Backup Power Source
-E = With Backup Power Source