Pan American
Professional Lighting Manufacturer



HAZARDOUS LOCATIONS LED LUMINAIRE *(Zone 1)*

A SERIES



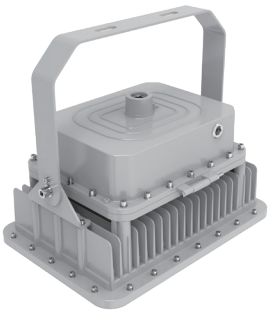
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LUMINAIRE A SERIES


A2


A


A3


A4

Product Description

The EX-A Series LED luminaire is engineered as the ultimate solution for hazardous location applications.Designed to withstand moisture, dirt, dust, corrosion, and vibration, it delivers reliable performance in harsh industrial environments. It also stands up to extreme outdoor conditions, including wind, rain, snow, and high ambient temperatures, ensuring consistent operation in even the most demanding settings.

Feature

- 0-10V/1-10V dimming optional
- High luminous efficacy
- Compact and robust structure, excellent reliability
- Various installation ways for different applicationsd
- Great impact resistance with IK10 certified
- Die-cast aluminum housing, great corrosion resistance and cooling performance.

Compliance

- IECEx Standard:
  Ex eb mb IIC T6···T4 Gb
  Ex tb IIIC T80°C···T100°C Db
- ATEX Standard:
  Ex II 2 GD
  Ex eb mb IIC T6...T4 Gb
  Ex tb IIIC T80°C...T100°C Db
- Vibration 3G
- NEMA Type 4X
- ABS
- IP66
- IK08 (without wire guard)
- IK10 (with wire guard)

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

Technical Parameter

- Electrical

Model	EX-xxxW A2	EX-xxxW A	EX-xxxW A3	EX-xxxW A4
Rated Power	40/60/80/100W	60/80/100/120/150W	100/150/180/200/240W	250/300/350/400/480W
Input Voltage	200-277VAC (Standard), 100-277VAC, 125-270VDC			
Emergency Wattage	8W (A3); 8W/15W (A4)			
Emergency Period	A3:1.5h (8W) A4:1.5h/3h (8W) ; 1.5h(15W)			
Frequency	50/60 Hz			
Power Factor	>0.95			

- Optical

Model	EX-xxxW A2	EX-xxxW A	EX-xxxW A3	EX-xxxW A4
Lumen Output	5600lm – 14000lm	8400lm – 21000lm	14000lm – 33600lm	35000lm – 67200lm
Lumens Per Watt	140lm/W			
CCT	1800K-6500K			
CRI	＞70			
Beam Angle	40°/60°/90°/120			
Dimming	0-10V/1-10V dimming optional			

- Mechanical

Model	EX-xxxW A2/A/A3/A4
Housing	Copper-free aluminum
Diffuser Type	Tempered Glass
Hardware	Stainless Steel
Protection	IP66/ IK08 (glass cover) /IK10 (with wire guard)
Mounting	Ceiling, Wall, Hook, Trunnion, Pole, Stanchion
Cable Entries	Side: 3/4 NPT, M20, M25, 1/2NPT Top: 3/4 NPT, M25
Warranty	5 years

**Cable entries for side and top, 3/4 NPT is standard. If others are required, customer needs to indicate in the inquiry.*

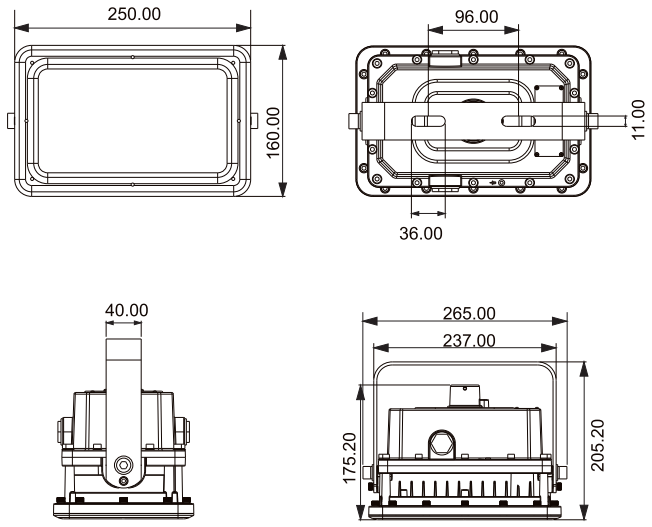
- Environmental

Model	EX-xxxW A2/A/A3/A4
Temperature Class	-40℃-+55℃/+65℃/+70℃

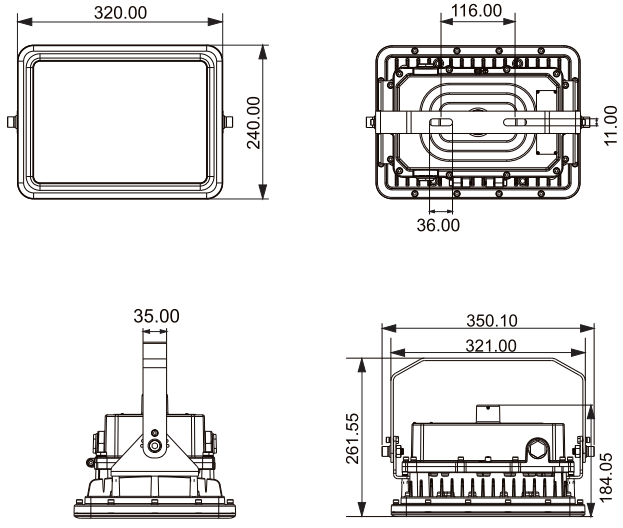
**Refer the IECEx certificate for exact temperature and T-code information.*

Dimensions: mm [inch]

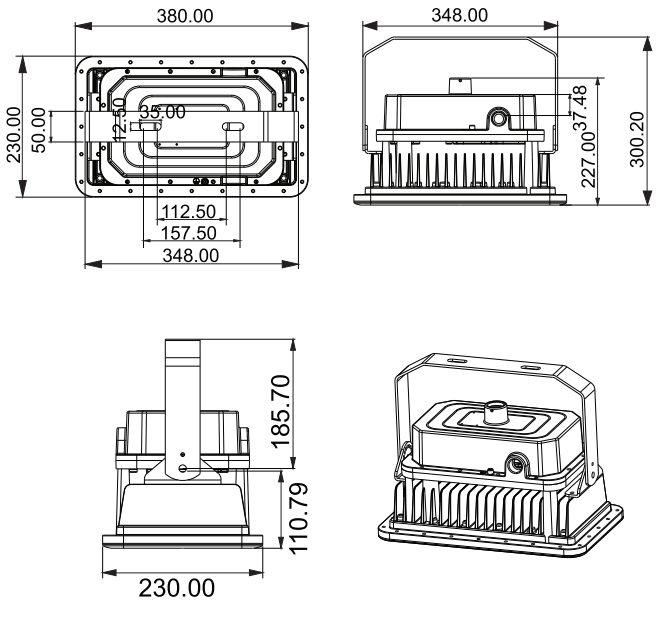
A2



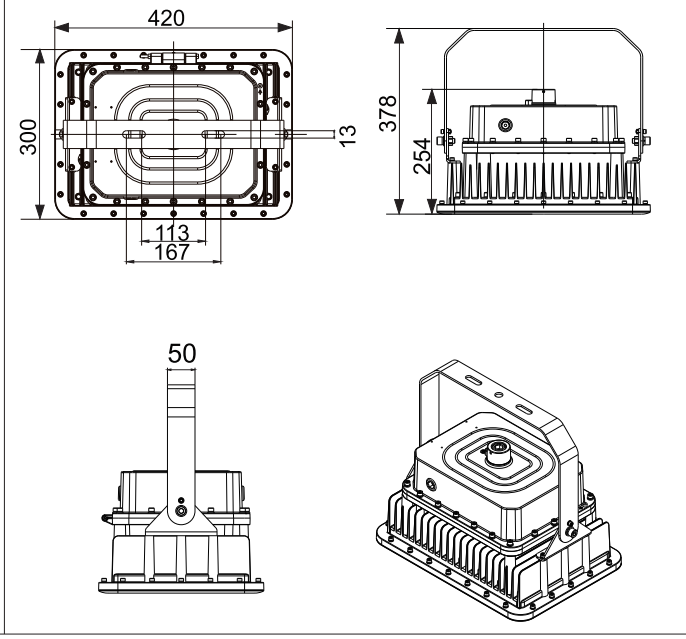
A



A3



A4

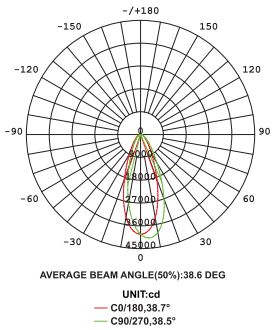


Packing Information

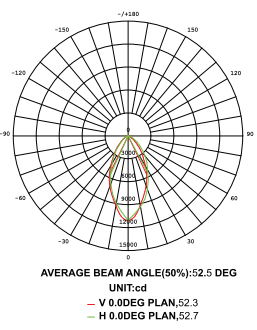
Model	Package Dimensions	Net Weight	Gross Weight	Quantity/Carton
A2	365x270x305 mm/14.37x10.63x12.01inch	4.15 kg/9.15 lb	5.30 kg/11.68 lb	1 pc
A	450x340x370mm/17.72x13.39x14.57inch	6.95 kg/15.32 lb	9.50 kg/20.94 lb	1 pc
A3	470x370x300mm/18.50x14.57x11.81inch	8.30 kg/18.30 lb	11.35 kg/25.02 lb	1 pc
A4	497x465x350mm/19.57x18.31x13.78inch	15.1 kg/33.29 lb	18.55 kg/40.90 lb	1 pc

Photometric

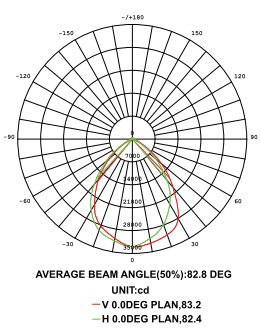
40 Degree



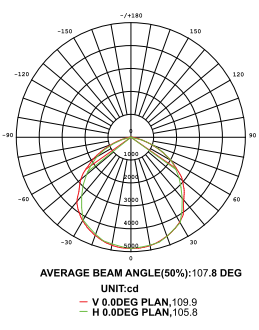
60 Degree



90 Degree

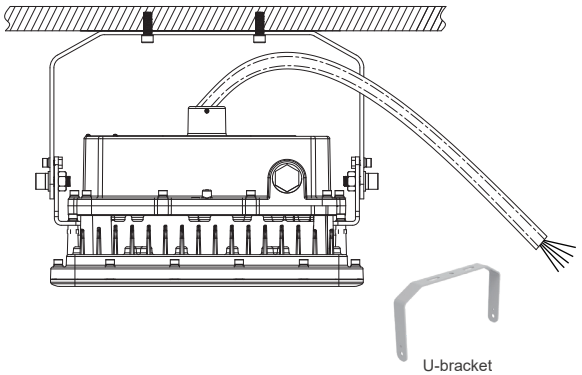


120 Degree

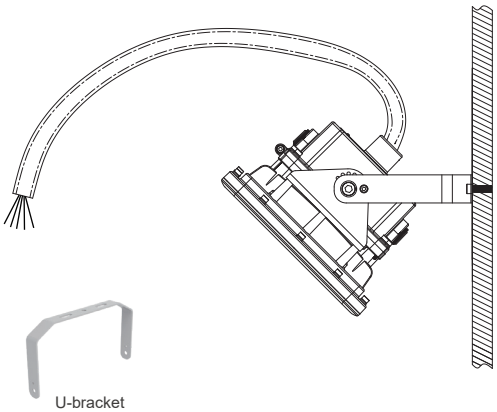


Mounting Methods

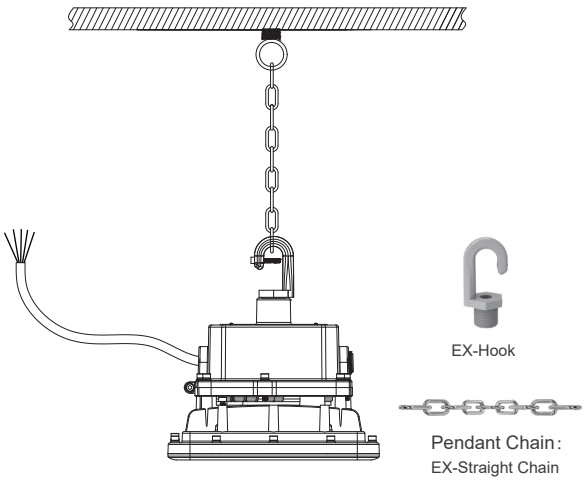
1.Ceiling Mounting



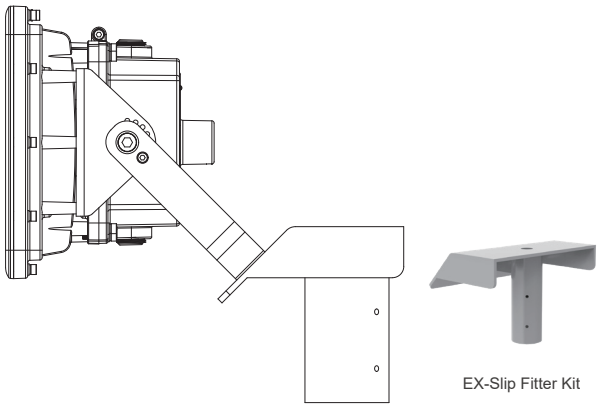
2.Wall Mounting



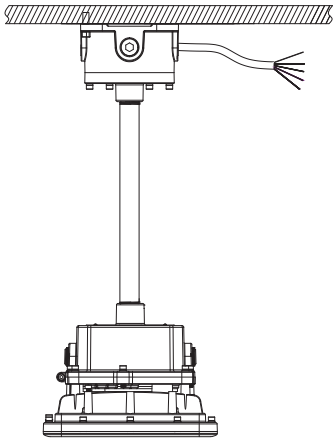
3.Hook Mounting



4.Trunnion Mounting



5: Pendant Mounting (Vertical)



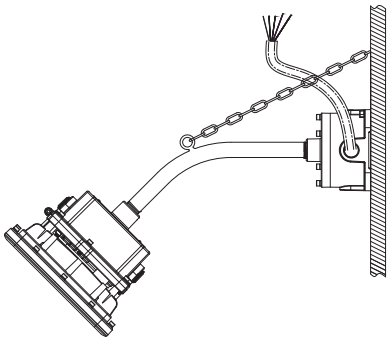


Junction Box:
EX-HD51-KB1



Pole:
Ex-Straight Pipe

6: Pendant Mounting (non-Vertical)





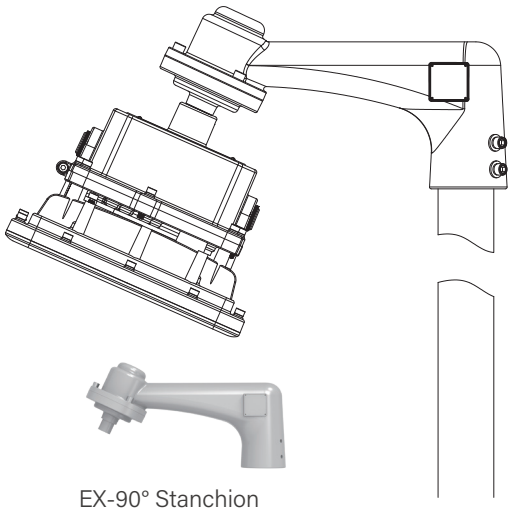
Junction Box:
EX-HD51-KB1



Pole:
Ex-Bended Pipe

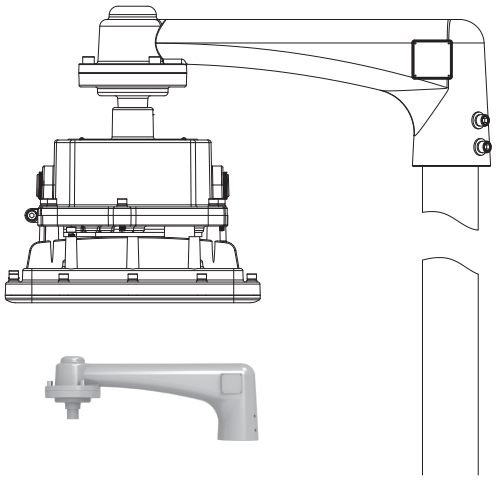
Pendant Chain:
EX-Straight Chain

7: Stanchion Mounting on the Pole (25 Degree)



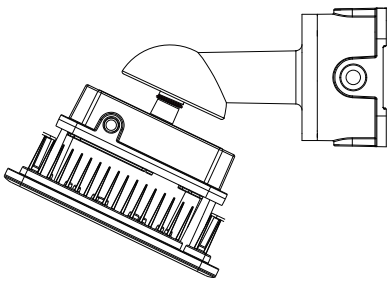
EX-90° Stanchion
Mount Kit

8: Stanchion Mounting on the Pole (90 Degree)



EX-25° Stanchion
Mount Kit

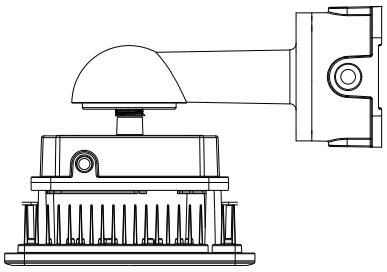
9: Wall Mounting with Junction Box (25 Degree)





EX-HD51-KYD 25°

10:Wall Mounting with Junction Box (90 Degree)





EX-HD51-KYD 90°

Ordering Guide

EX -	xxxW	A	D	18	D40	CFG	A	O	S	2	M	-E
①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬

1.EX ---------- **Explosion-proof**

2.xxW ---------- **Rated power:**
20, 40…480 W 20=20 W, 40=40 W… 480=480 W

3.A ---------- **Product code:**A2, A, A3, A4

4.D ---------- **Dimmable option:** D, blank D: Dimmable, blank: Non-dimmable

5.18 ---------- **Color temperature:**
18, 20,27...65
18=1800 K, 2000K, 27=2700 K...65=6500 K

6.D40 ---------- **Beam angle:**
D40 = 40 degrees, D60 = 60 degrees, D90 = 90 degrees, D120 = 120 degrees, N6×7 =NEMA6×7

7.CFG ---------- **Diffuser type**: Clear Flat Glass

8.A ---------- **Driver Box Cover**: A

9.O ---------- **Lamp Enclosure Heatsink**: O= Lamp Enclosure Heatsink O

10.S ---------- **Lens Cover**:Blank = Alternate Lamp Enclosure Cover 1 (Normal cover)
S= Lamp Enclosure Cover 1 (Step cover)

11.2 ---------- **LED type**: 1= 5050 2 = 2835

12.M ---------- **Input rating:**
Blank: 100-277 VAC, M: 200-277 VAC, D: 125-270 VDC

13.-E ---------- **Emergency power:**
Blank = No emergency power
-E: With emergency power