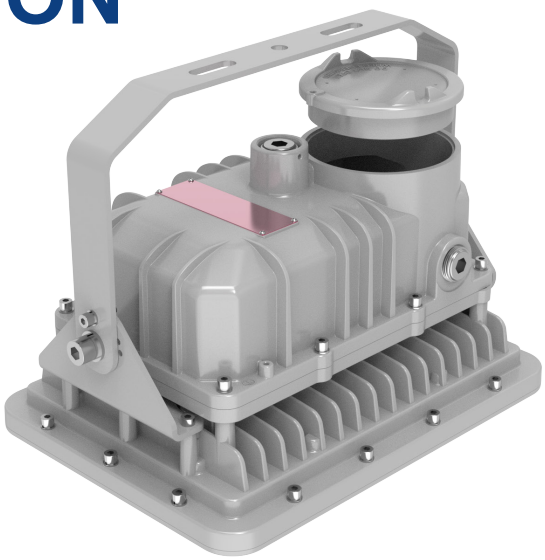
Pan American
Professional Lighting Manufacturer



HAZARDOUS LOCATION LED LUMINAIRE

A SERIES

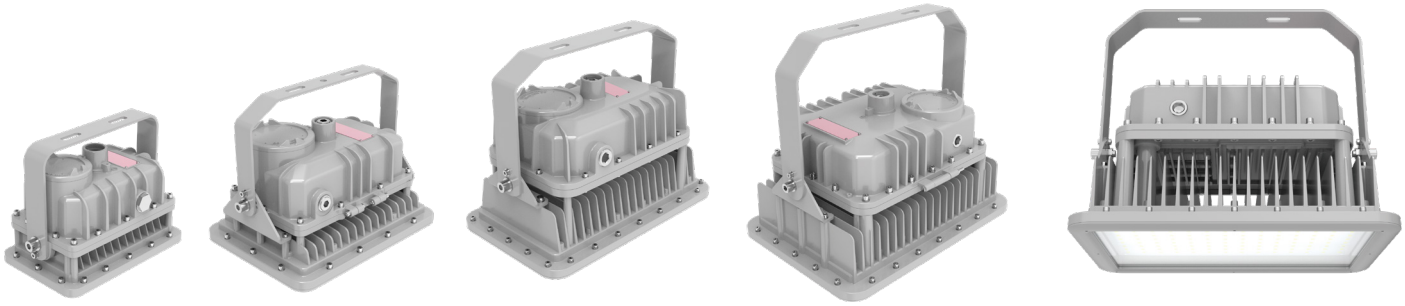
Building 6, Zhongtang Tian'an Digital City, No. 88 Jinyuan Road,
Zhongtang Town, Dongguan, Guangdong. Zip code 523220



UL CERTIFIED · DNV · 3G Vibration · NEMA Type 4X · IP66 · IK10 · DIMMABLE · 140 lm/W · 5 YEARS WARRANTY

LUMINAIRE A SERIES

Pan American
Professional Lighting Manufacturer



A2 A A3 A4

Product Description

The A 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 optional
- High luminous efficacy - Up to 140lumens per watt
- Compact and robust structure, excellent reliability
- Various installation ways for different applications
- Great impact resistance with IK08 certified
- Die-cast aluminum housing,great corrosion resistanceand cooling performance

Application

- Oil and gas industry
- Metal treatment industry
- Chemical processing facility
- Power Plants
- Ocean, marine location
- Heavy industrials storage facility
- Wastewater Treatment Plants
- Food and Alcohol Industry

Compliance

- **UL 844 Hazardous Locations Class**
  Class I Division 2, Group 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 Outside Type**
- DNV
- Vibration 3G
- NEMA Type 4X
- ABS
- IP66
- IK08 (glass cover)
- IK10 (with wire guard)

Technical Parameter

• Electrical

Model	EX-xxxW A2	EX-xxxW A	EX-xxxW A3	EX-xxxW A4
Rated Power	20/25/30/35/40/50/60/70/80/100W	20/40/60/80/100/120/150W	60/80/100/120/150/180/200/240W	150/180/200/250/300/350/400/500/550/600W
Input Voltage	120-277VAC/120-347VAC/277-480VAC; 12-30VDC/120-400VDC			
Emergency Wattage	8W(A); 8W/15W (A3/A4)			
Emergency Period	Optional battery in 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	2800lm–14000lm	2800lm–21000lm	8400lm–33600lm	21000lm–84000lm
Lumens Per Watt	140lm/W			
CCT	2000K - 7500K			
CRI	> 70			
Beam Angle	40°/60°/90°/120°			
Dimming	1-10V/0-10V dimming optional			

• Mechanical

Model	EX-xxxW A2/A/A3/A4
Housing	Die-cast aluminum
Diffuser Type	Clear Flat Glass
Hardware	Stainless Steel
Protection	IP66/IK08 (glass cover)/IK10 (with wire guard)
Mounting	Ceiling Mount (Included), Wall Mount (Included), Pendant Mount / Trunnion Mount (Purchase separately)
Cable Entries	Side: 3/4" NPT (standard); M20, M25, 1/2" NPT (optional) ; Top: 3/4" NPT (standard)
Warranty	5 years

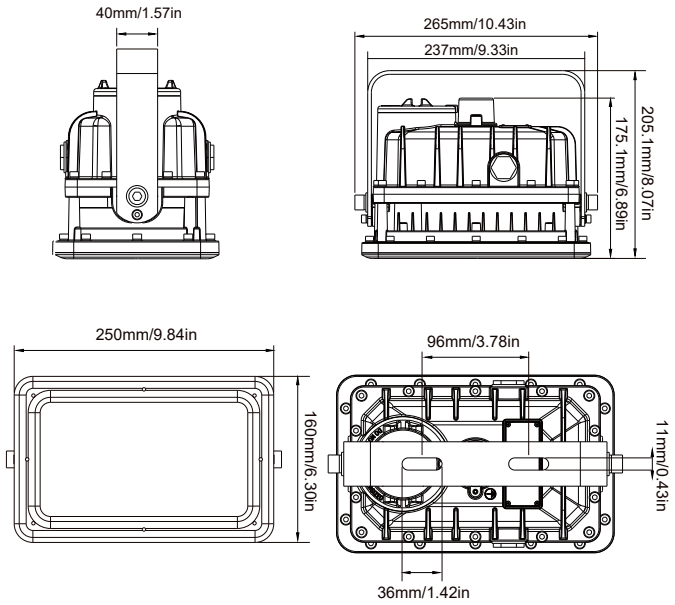
• Environmental

Model	Temperature Class
Ex-40W A2	T6:-40°C to +40°C T5:-40°C to +55°C
Ex-60W A	T6:-40°C to +55°C T5:-40°C to +65°C
Ex-120W A3	T4A:-40°C to +50°C
Ex-300W A4	T6:-40°C to +40°C T5:-40°C to +55°C

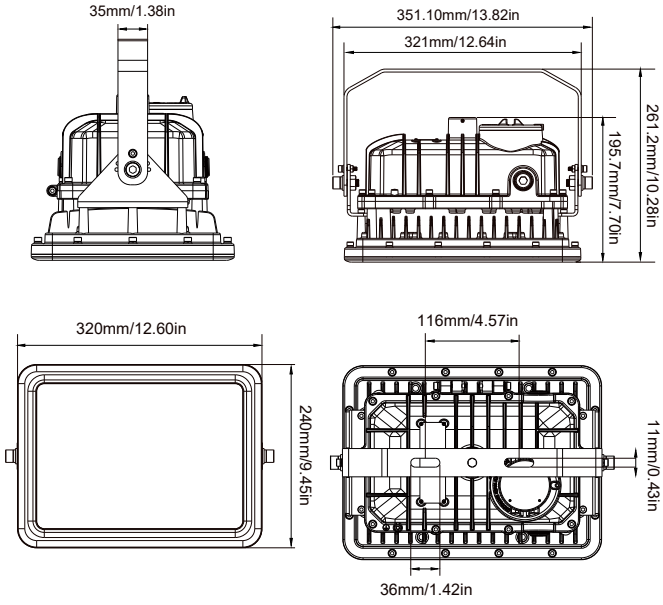
**Please refer to the report for detailed data*

Product Dimensions Unit:mm[inch]

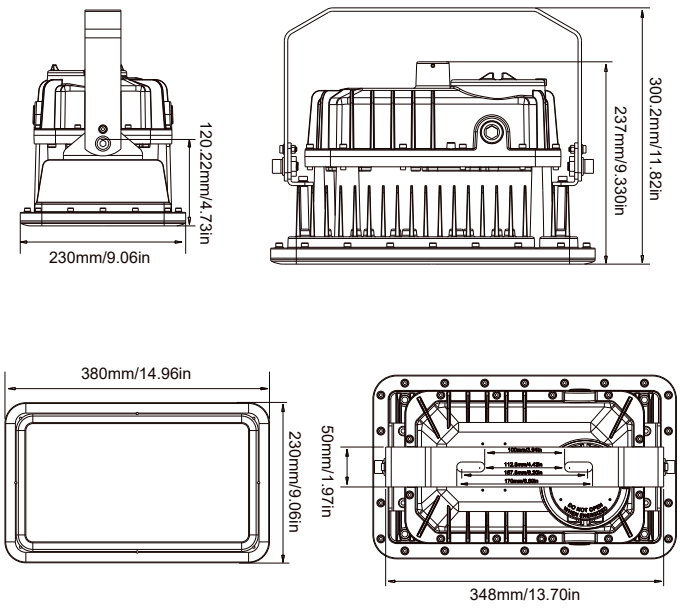
A2



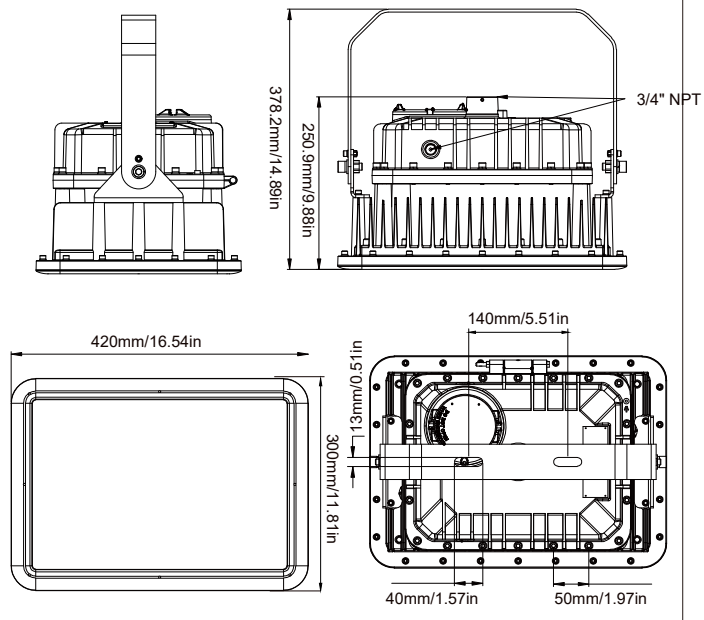
A



A3

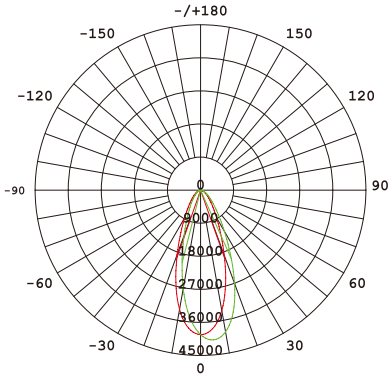


A4



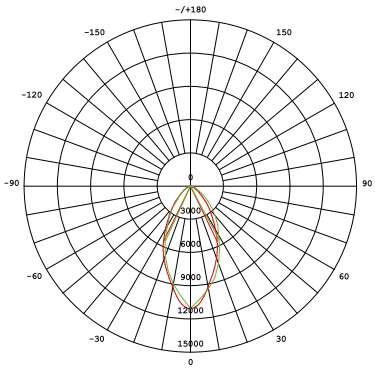
Photometric

40 Degree



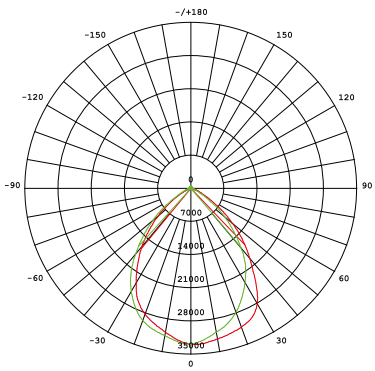
AVERAGE BEAM ANGLE(50%):38.6 DEG
UNIT:cd
C0/180,38.7°
C90/270,38.5°

60 Degree



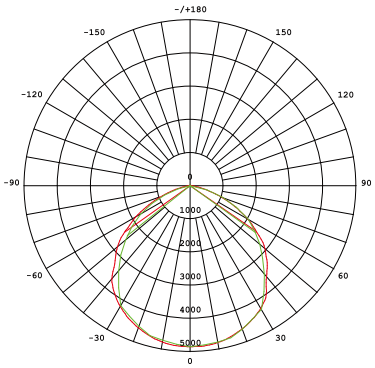
AVERAGE BEAM ANGLE(50%):52.5 DEG
UNIT:cd
V 0.0DEG PLAN,52.3
H 0.0DEG PLAN,52.7

90 Degree



AVERAGE BEAM ANGLE(50%):82.8 DEG
UNIT:cd
V 0.0DEG PLAN,83.2
H 0.0DEG PLAN,82.4

120 Degree



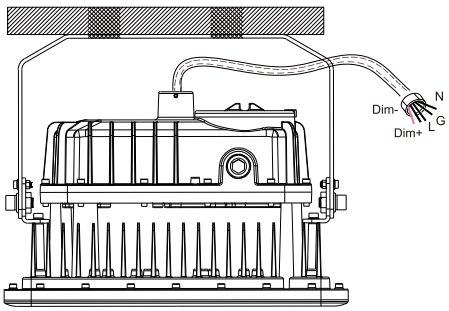
AVERAGE BEAM ANGLE(50%):107.8 DEG
UNIT:cd
V 0.0DEG PLAN,109.9
H 0.0DEG PLAN,105.8

Packing Information

Model	Package Dimensions	Net Weight	Gross Weight	Quantity/Carton
A2	365x270x305mm/14.37x10.63x12.01 inch	4.15 kg/9.15 lb	5.30 kg/11.68 lb	1 pc
A	430x320x350 mm/ 16.93x12.60x13.78 inch	8.2 kg/10.08 lb	9 kg/19.84 lb	1 pc
A3	460x362x295mm/18.11x14.25x11.61 inch	10.5 kg/23.15 lb	11.5 kg/25.35 lb	1 pc
A4	497x465x350mm/19.57x18.31x13.78 inch	15.1 kg/33.29 lb	18.55 kg/40.90 lb	1 pc

Mounting Methods

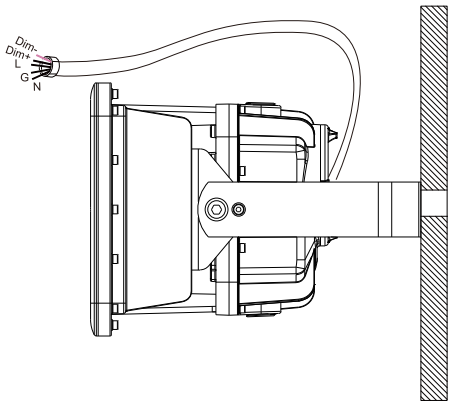
- Option 1: Ceiling Mounting (Included)



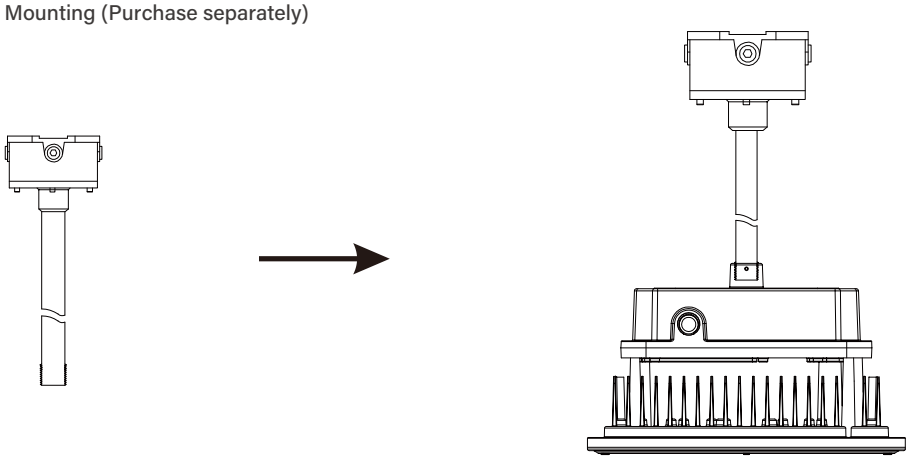


Connect the L, N, G of Luminaire to Branch Circuit

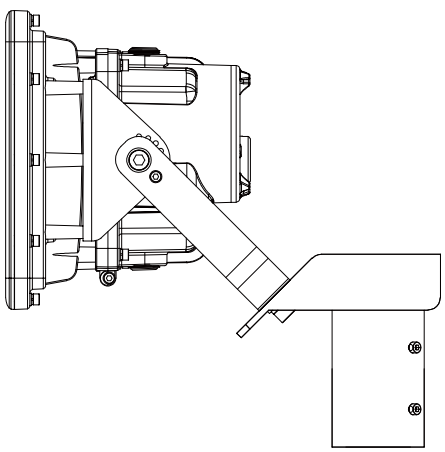
- Option 2: Wall Mounting (Included)



- Option 3: Pendant Mounting (Purchase separately)



- Option 4: Trunnion Mounting (Purchase separately)



Accessories


EX-Bended Pipe


EX-Straight Pipe


EX-Hook


EX-Straight Chain


EX-Slip Fitter Kit

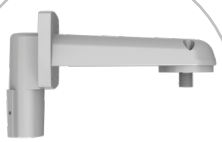

EX-90° Wall Mount Kit


EX-25°Wall Mount Kit


EX-90° Stanchion Mount Kit


EX-25° Stanchion Mount Kit


EX-MArm


EX-90° PSupport


EX-25° PSupport


EX-HD51-KYD 90°


EX-HD51-KYD 25°


EX-HD51-KB1

LUMINAIRE A SERIES

Pan American
Professional Lighting Manufacturer

EX -	xxxW	A2/A4	D	30	D40	*	*	*	*	1	H	H65	*	*
①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮

①	EX	Explosion Proof Product
②	Input Wattage	A2:20/25/30/35/40/50/60/70W A4:150/180/200/250/300/350/400/500/550/600W
③	Lamp Enclosure Types	A2 = Lamp Enclosure A2 A4 = Lamp Enclosure A4
④	Dimming	Dimming function:D - Dimmable
⑤	CCT	20=2000K 30=3000K 40=4000K 50=5000K 57=5700K 60=6000K 65=6500K 75=7500K
⑥	Beam Angle	D30=30 degrees D40=40 degrees D60=60 degrees D90=90 degrees D120=120 degrees T2=60 degrees T3=90 degrees T5=120 degrees
⑦	Diffuser types	Blank=Clear Flat Glass
⑧	Driver Housing	Blank – Driver Housing C (For Model A2 and A4 series)
⑨	Heat Sink types	Blank=Heat Sink O
⑩	Diffuser Cover Types	Blank=Normal Cover S=Step Cover
⑪	LED Types	1 = 5050 LED 2 = 2835 LED “Blank” = 2835 Tunable LED board
⑫	Input Voltage	H = 277-480VAC Blank = 120-277VAC M =120-347VAC DC = 12-30VDC DCH – 120-400VDC
⑬	Driver series	*Please refer to the report for detailed data*
⑭	Tunable or non-tunable	T= With CCT/Wattage Tunable TW = With Wattage Tunable Blank = Non-tunable
⑮	Backup Power Source	Blank=No Backup Power -E=With Backup Power

LUMINAIRE A SERIES

Pan American
Professional Lighting Manufacturer

EX -	xxxW	A/A3	D	30	D40	*	*	*	*	1	*	X10	*	*
①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮

①	EX	Explosion Proof Product
②	Input Wattage	A:20/40/60/80/100/120/150W A3:60/80/100/120/150/180/200/240W
③	Enclosure Types	A = Lamp Enclosure A A3 = Lamp Enclosure A3
④	Dimming	Dimming function:D - Dimmable
⑤	CCT	20=2000K 30=3000K 40=4000K 50=5000K 57=5700K 60=6000K 65=6500K 75=7500K
⑥	Beam Angle	D30=30 degrees D40=40 degrees D60=60 degrees D90=90 degrees D120=120 degrees T2=60 degrees T3=90 degrees T4=120 degrees
⑦	Diffuser types	Blank=Clear Flat Glass
⑧	Driver Housing	Blank – Driver Housing C
⑨	Heat Sink types	Blank=Heat Sink O
⑩	Diffuser Cover Types	Blank=Normal cover S=Step cover
⑪	LED Types	1 = 5050 LED 2 = 2835 LED “Blank” = 2835 Tunable LED board
⑫	Input Voltage	H = 277-480VAC Blank = 120-277VAC M =120-347VAC DC = 12-30VDC DCH – 120-400VDC
⑬	Driver series	*Please refer to the report for detailed data*
⑭	Tunable or non-tunable	T= With CCT/Wattage Tunable TW = With Wattage Tunable Blank = Non-tunable
⑮	Backup Power Source	Blank=No Backup Power “-E” = With Backup Power