Pan American
Professional Lighting Manufacturer



HAZADOUS LOCATIONS LED LUMINAIRE *(Zone 2)*

B Series



LUMINAIRE B SERIES


B2


B


B3


B4

Product Description

The B2/B/B3/B4 Series LED luminaire is the ideal choice for 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. Supplied with assorted mounting fittings, the series is tailored for different installation scenarios.

Feature

- Emergency function is optional
- Compact and rugged structure, easy for installation
- Various kinds of driver box cover available, designed for different installation requirements
- Shock and vibration resistance with IK08/IK10 certified
- High luminous efficacy
- Aluminum housing, great corrosion resistance and cooling performance

Compliance

- IECEx Standard:
  Ex ec IIC T6…T4 Gc
  Ex tb IIIC T80°C…T105°C Db
- ATEX Standard:
  Ⓔx II 3 G
  Ex ec IIC T6…T4 Gc
  II 2 D
  Ex tb IIIC T80°C…T105°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

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Technical Parameter

• Electrical

Model	EX-xxW B2	EX-xxW B	EX-xxW B3	EX-xxW B4
Rated Wattage	30/40/70/80/100W	40/60/80/100/120W	60/80/100/120/150/200W	50/180/200/220/230/400W/450W/500W/600W
Input Voltage	100-277VAC/200-277VAC, 12-36VDC/141-277VDC			
Emergency Wattage	8W/15W (B3/B4)			
Emergency Period	Optional battery in 1.5h/3h (8W) ; 1.5h (15W) (Only B3 and B4 are allowed to carry emergency supplies.)			
Input Frequency	50/60 Hz			
Power Factor	>0.95			

• Optical

Model	EX-xxW B2	EX-xxW B	EX-xxW B3	EX-xxW B4
Lumen Output	4200lm-14000lm	5600lm–16800lm	8400lm-28000lm	7000lm-84000lm
Lumens Per Watt	140lm/W			
CCT	1800K-6500K			
CRI	> 70			
Beam Angle	40°/60°/90°/120°/T2/T3/T5			
Dimming	1-10V dimming optional			

• Ambient Temperature

Model	EX-xxW B2/B/B3/B4
Temperature Class	-40℃-+55℃/+60℃/+65℃/+70℃

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

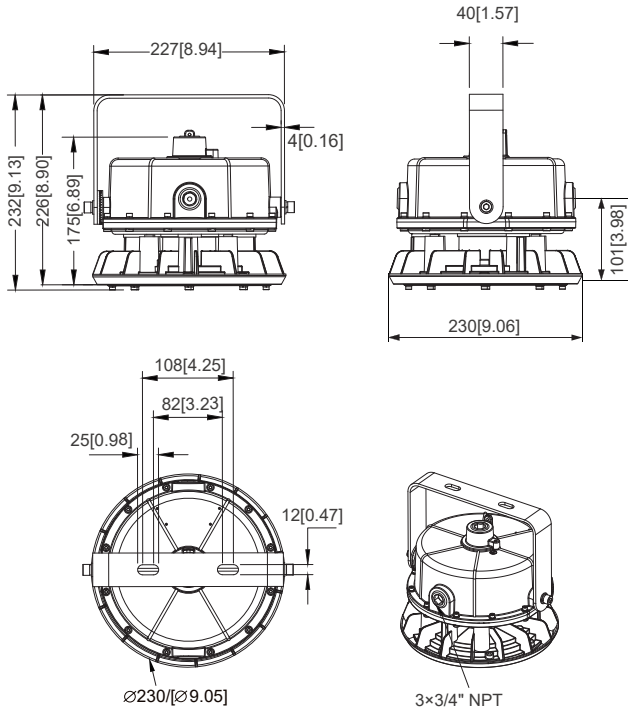
• Mechanical

Model	EX-xxW B2/B/B3/B4
Housing Material	Copper-free aluminum
Diffuser Type	Tempered Glass
Hardware	Stainless steel
Protection	IP66; IK08 (glass cover) / IK10 (with wire guard)
Mounting	Ceiling, Wall, Stanchion, Hook Pendant, Surface, Trunnion
Cable Entries	Side: 3/4" NPT (standard); M20, M25, 1/2" NPT (optional) Top: 3/4" NPT (standard); M25 (optional)

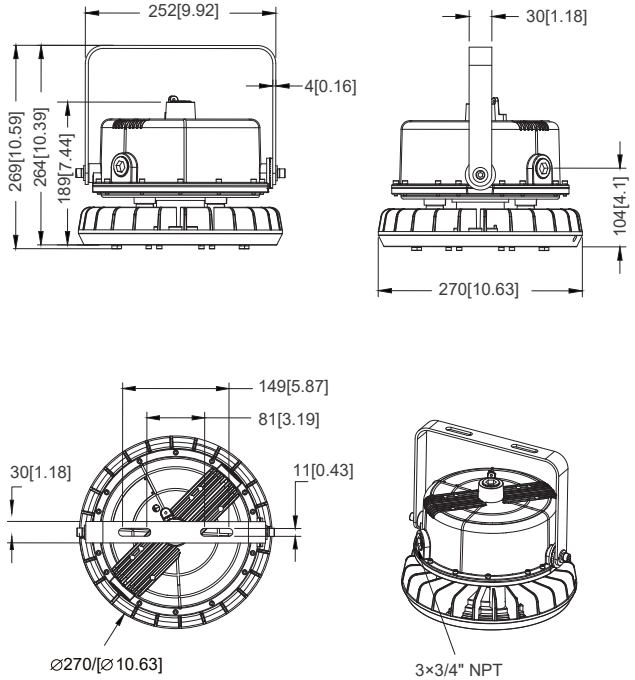
**For cable entries, 3/4" NPT is standard. Others can be achieved with an adapter, and custom sizes are also available.*

Product Dimensions Unit: [mm]

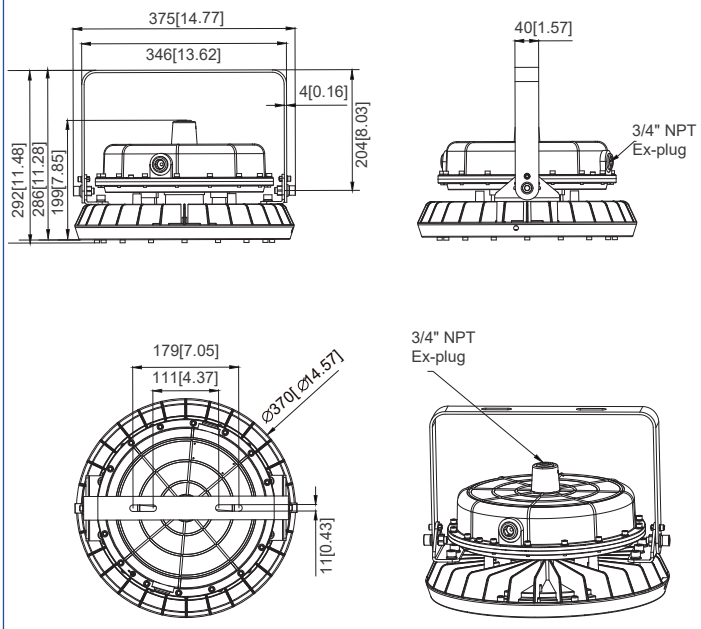
B2



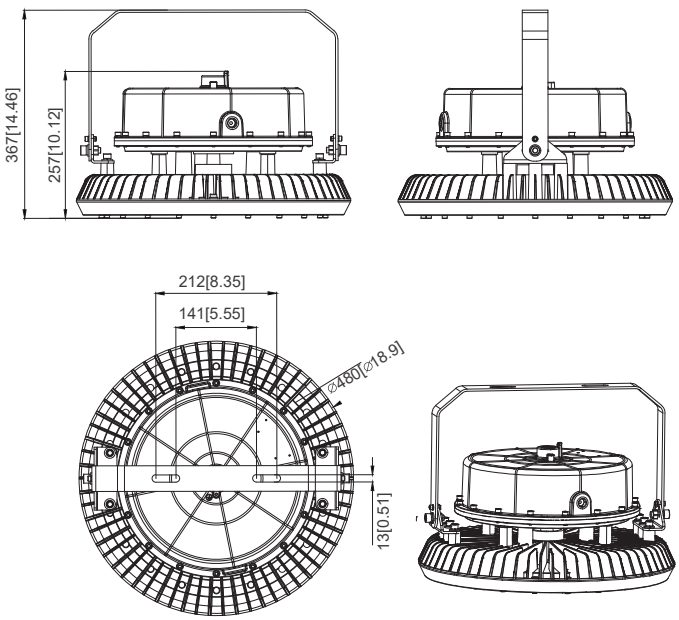
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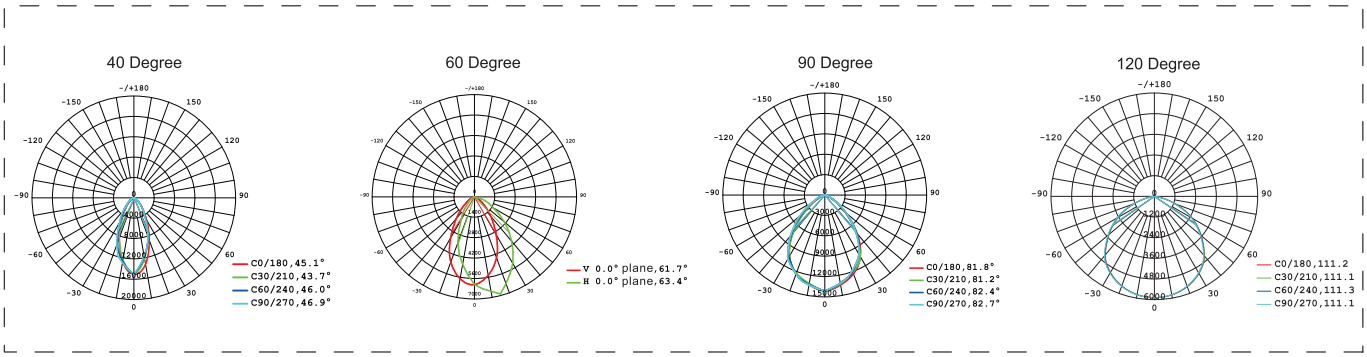
B3



B4

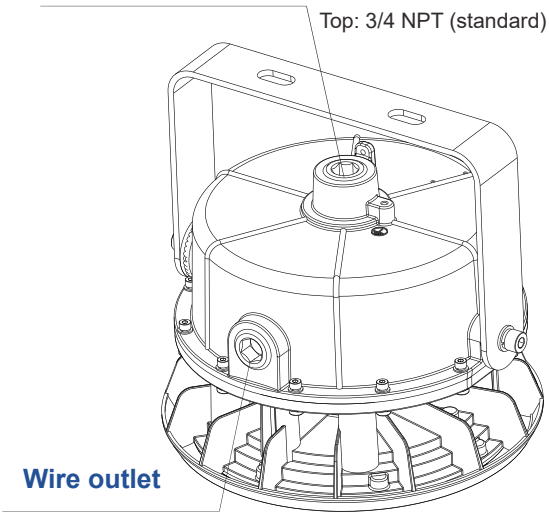


Photometric



Cable Entries

Compatible with NPT1 thread with an adapter



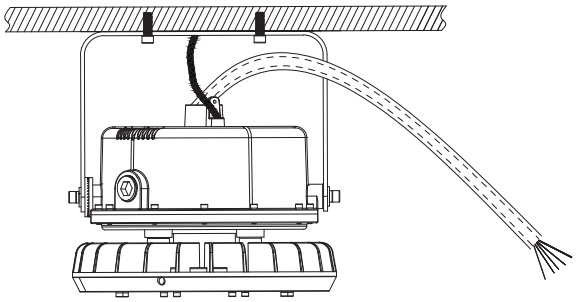
Side: 3/4 NPT (standard),
M20, M25, 1/2NPT(available from stock or in bulk. Small orders can add adapters.)

Packing Information

Model	Net Weight	Gross Weight	Packing Dimensions(LxWxH)	Quantity/Carton
B2	4.2kg/9.26 lb	5.0kg/11.02 lb	311x311x226mm/12.24x12.24x8.90inch	1 pc
B	5.4kg/11.90 lb	6.6kg/14.55 lb	400x350x320mm/15.75x13.78x12.60inch	1 pc
B3	10.9 kg/24.03 lb	13.2 kg/29.10 lb	480x460x265m/18.90x18.11x10.43inch	1 pc
B4	19.6 kg/43.21 lb	24.1 kg/53.13 lb	575x575x356mm/22.64x22.64x14.02inch	1 pc

Mounting Methods

1. Ceiling Mounting

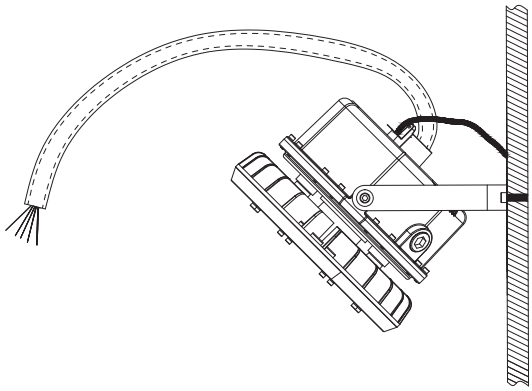


Accessory



U-shaped bracket

2. Wall Mounting



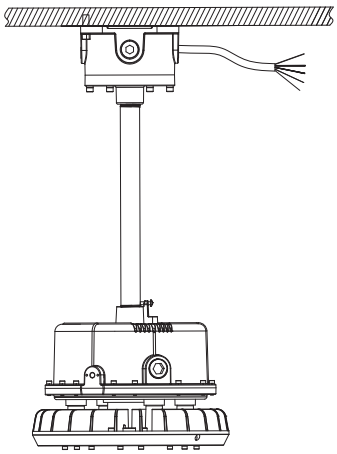
Accessory



U-shaped bracket

3. Pendant Mounting

Vertical



Junction box

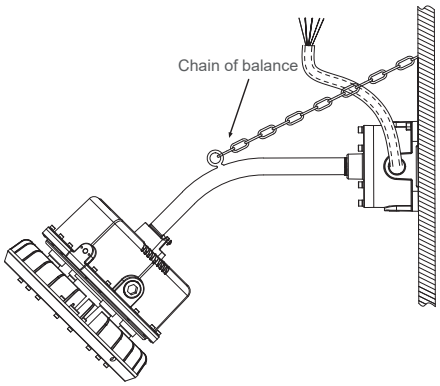
Accessory



Junction Box
EX-HD51-KB1

Pole
Ex-Straight Pipe

Non-Vertical



Accessory



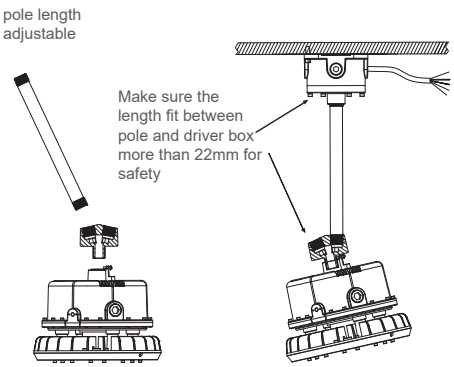
Junction Box



Pole
Ex-Bended Pipe

Pendant Chain
Ex-Straight Chain

Adjustable Pole Installation



Accessory



Junction Box

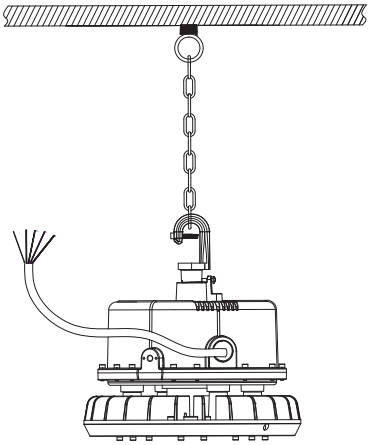


Pole
Ex-Straight Pipe



Pendant Direction
Adapter
Ex-D01

4.Hook Pendant Mounting



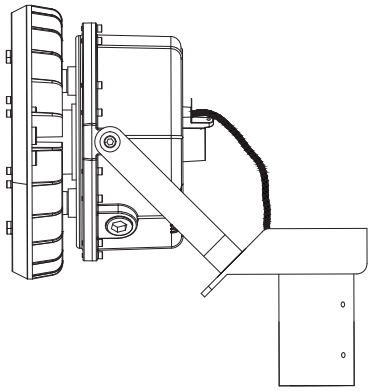
Accessory



Pole
EX-HOOK

Pendant Chain
Ex-Straight Chain

5. Stanchion Mounting

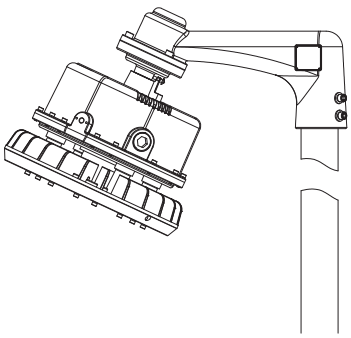


Accessory

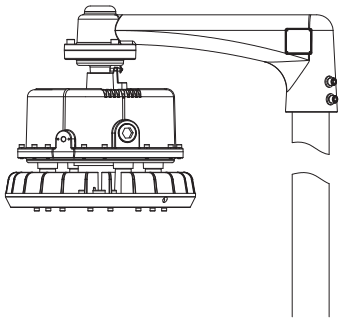


EX-Slip
Fitter Mounting Kit

6.Stanchion Mounting



90 Degree



25 Degree

Accessory

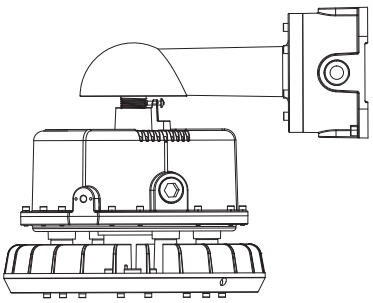


EX-25° Stanchion Mount Kit

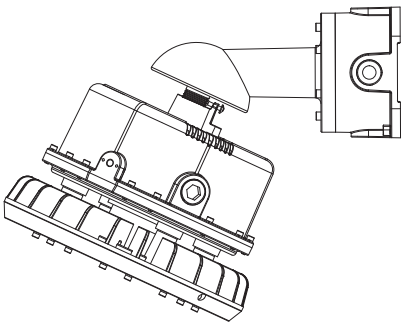


EX-90° Stanchion Mount Kit

7.Wall Mounting to Junction Box



90 Degree



25 Degree

Accessory



EX-HD51-KYD 90°



EX-HD51-KYD 25°

Ordering Guide

EX-	xxxW	B2/B/B3/B4	N	18	D30	CFG	M	-E
①	②	③	④	⑤	⑥	⑦	⑧	⑨

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

2.xxW ---------- Rated power of the driver output: 20 40...400W
20=20W,40=40W...600=600W

3.B2/B/B3/B4 ---------- Product code:B2/B/B3/B4

4.N ---------- Dimmable option:D,N
D:dimmable
N:Non-dimmable

5.18 ---------- Color temperature:18,27...65
18=1800k,27=2700k...65=6500k

6.D30 ---------- 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.CFG ----------
Blank = Clear Flat Glass
CCP= Clear Convex PC
CSG = Clear Spherical Glass
FCG= Frosted Convex Glass
CCG= Clear Convex Glass
CFP = Clear Flat PC
FFG = Frosted Flat Glass
FSG = Frosted Spherical Glass

8.M ----------
Input rating:
Blank:100-277 VAC
M: 200-277 VAC
D: DC input 141-277 V DC,12-36 V DC

9.-E ----------
Emergency power:
Blank: No emergency power
-E : With emergency power