



Industrial Field & Hazardous Locations



Applications

Oil and Gas industry

- All petroleum production and refining
- Petroleum loading and transportation
- Petroleum storage and retail
- LNG industry
- All mining operations and service Chemical industry
- · All types of paint facilities
- Chemical production and storage

Ocean, marine and aerospace field

- Ocean platform operation facilities and structure
- Aerospace clean room and production
- Ocean vessel operations

Metal treatment

- · Steel and aluminum factories
- Pumping stations in any environment
- Metal smelting, foundry and fabrication

Food and alcohol industry

- Flour and fine particle production and storage
- Food and distilling production
- Alcohol industry

Other high humidity, high dust, high temperature, vapor locations







B2



В



B3



B4





















Explosion Protection

Marking Atex II2 G Ex mb eb IIC T4 Gb II2 D Ex tb IIIC T135C Db IP66 II3 G Ex ec IIC T3C Gc II2 D Ex tb IIIC T135C Db IP66

Marking IECEX Ex mb eb IIC T4 Gb Ex tb IIIC T135C Db IP66 Ex ec IIC T3C Gc Ex tb IIIC T135C Db Ip66

Materials

· Housing: Aluminum • Lens: Tempered glass Marking UL844 (North American) Class I, Division 2, Groups A, B, C, D Class II, Division 1, Groups E, F, G Class II, Division 2, Groups F, G Class III

Marine Marking UL1598, UL1598A ABS

Other Rating **IP 66**

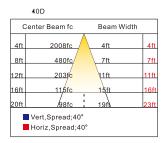
• Hardware: stainless steel

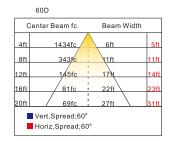
Mounting Bracket: stainless steel

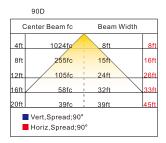
Features

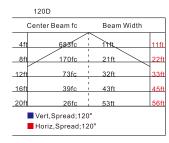
- Working Temperature: -40°C ~ +55°C.
- High quality SMT LED and Meanwell Driver.
- Light-weight design by aircraft aluminum.
- Heavy-duty and high impact resistance.
- Three connection cable entry points.
- Replaceable LED board and drivers.
- Integrated junction box for driver with emergency back up.
- Dimmable and battery back up function available.
- Marine rating powder coated appearance treatment.
- Up to 5 years limited warranty option.
- Emergency Battery back up to three hours.
- Various installation ways for different applications.
- Glass lens or Glass with polycarbonate lens to make bigger beam angle.

Light Distribution









Specification

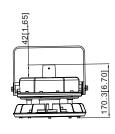
Product Number	Wattage	Color Temperature	Voltage	Lumens	Warranty	CRI
EX-20W B2YZDA	20		AC100-277V(by driver or by IC) Or DC12-48V	2800	5 years	80
EX-40W B2YZDA	40			5600		
EX-60W BYZDA	60		AC100-277V(by driver or by IC) Or DC12-48V	8400		
EX-80W BYZDA	80		Or AC200-480V(<65W)	11200		
EX-100W B3YZDA	100	- 2200K-7000K	AC100-277V(by driver or by IC) Or DC12-48V Or AC200-480V	14000		
EX-120W B3YZDA	120			16800		
EX-150W B3YZDA	150			21000		
EX-200W B3YZDA	200			28000		
EX-250W B4YZDA	250			35000		
EX-300W B4YZDA	300			42000		
EX-350W B4YZDA	350			49000		
EX-400W B4YZDA	400			56000		

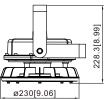
Packing Information

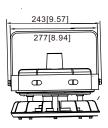
Model	Quantity/Carton	Length(cm)	Width(cm)	Height(cm)	Net weight(kg)	Gross weight(kg)
В	1	38.6	33	22	4.4	5.5
B2	1	36	35.4	26	3.5	5
В3	1	48	46	26.5	8.2	10.5
B4	1	53	53	44	18.8	21.5

Dimension

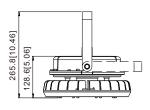
Model B2

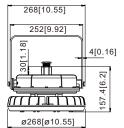




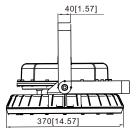


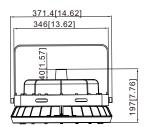
Model B



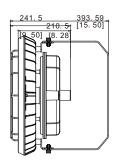


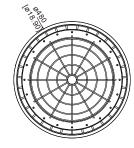
Model B3





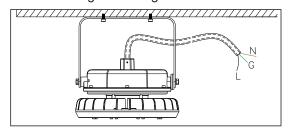
Model B4



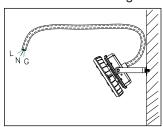


Mounting

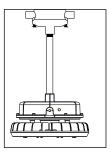
No.1: Ceiling Mounting



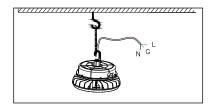
No.2: Wall Mounting



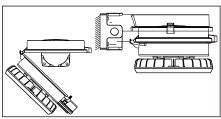
No.3: Pole Pendant



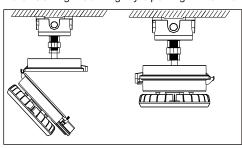
No.4: Hook Pendant



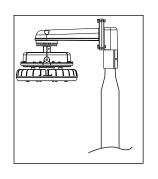
No.6: Arm Mounting by Opening Driver Box



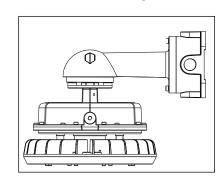
No.5: Ceiling Mounting by Opening Driver Box



No.7: Stanchion Mounting



No.8: Wall Mounting



Accessories



Model: Ex-Junction01
 Name: Junction Box
 Material: Aircraft Aluminum A383



Model: EX-Hook
 Name: Installation Hook
 Material: Aircraft Aluminum A383



Model: Ex-Conduit01
 Name: Metal Conduit
 Material: Stainless Steel and Aluminum



Model: EX-WPipe
 Name: Winding Swing Pipe
 Material: Iron with Power Coating



Model: EX-SPipe
 Name: Winding Swing Pipe
 Material: Iron with Power Coating



Model: Ex-D01
 Name: Pendant Direction Adapter
 Material: Aircraft Aluminum A383



Model: EX-MArm
 Name: Surface Mounting Arm
 Material: Aircraft Aluminum A383



Model: EX-25PSupport
 Name: 25 Degree Pole Support
 Material: Aircraft Aluminum A383



Model: EX-90PSupport
 Name: 90 Degree Pole Support
 Material: Aircraft Aluminum A383



Model: Ex-90JSupport
 Name: 90° Arm to Junction box
 Material: Aircraft Aluminum A383



Model: Ex-25JSupport
 Name: 25° Arm to Junction box
 Material: Aircraft Aluminum A383



Model: Ex-DArm
 Name: Direct Mounting Arm
 Material: Aircraft Aluminum A383



Model: Ex-ShadeB/B2/B3Name: Lamp ShadeMaterial: Aluminum A6061



• Model: Ex-CshadeB/B2/B3 Name: Cut off lamp shade Material: Aluminum A6061



Model: Ex-Chain
 Name: Pendant Chain
 Material: Stainless Steel S30400





B Series

LED Explosion Proof Light





















Without globe:









B₂

B3

With globe:

Note: The globe is optional for B, B2, B3 only. Globe is not available for B4.





Certifications:

- Marking ATEX
 - II 3 G Ex ec IIC T6...T3 Gc
 - II 2 D Ex tb IIIC T85°C...T100°C Db
 - II 2 G Ex eb mb IIC T5...T6 Gb
 - II 2 D Ex tb IIIC T80°C...T100°C Db
- Marking IECEx
 - Ex ec IIC T6...T3 Gc
 - Ex tb IIIC T85°C...T100°C Db
 - Ex eb mb IIC T5...T6 Gb
 - Ex tb IIIC T80°C...T100°C Db

- Marking UL844 (North American)
 - Class I, Division 2, Groups A, B, C, D
 - Olass II, Division 1, Groups E, F, G
 - Olass II, Division 2, Groups F, G
 - Class III
- Marine Marking
- IP66
- NEMA 4X
- UL1598A
- ABS

Standard Materials:

- Housing: Copper-free aluminum
- Lens: Tempered glass

- Hardware: Stainless steel
- Mounting Bracket: Stainless steel

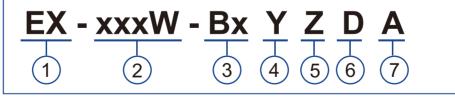
Key Features:

- (1) Dimmable and battery backup function is available.
- (2) High-quality SMT LED and Meanwell driver.
- (3) Heavy-duty and high impact resistance.
- (4) Replaceable LED board and drivers.
- (5) Integrated junction box for driver.
- (6) Marine rating powder coated finish treatment.
- 7 Various installation ways for different applications.
- 8 Glass lens or polycarbonate lens for making different beam angles.
- (9) 5-year warranty.
- 10) Low temperature applications to -40°C (-40°F) and high temperature up to 55°C (131°F).

Technical Data:

Model	Wattage	Working Temp.	Operating Voltage	Lumens(lm)	Driver	Efficacy	CRI	сст	Emergency Time
EX-20W B2YZDA	20W	65°	AC100-277V DC12-48V	2,800	External	у	V >70	2200K-7000K	1.5 hours or 3 hours (optional)
EX-40W B2YZDA	40W	55°		5,600	emergency driver				
EX-60W BYZDA	60W	40°	AC100-277V DC12-48V AC200-480V	8,400					
EX-80W BYZDA	80W	40°		11,200					
EX-100W B3YZDA	100W	40°		14,000					
EX-120W B3YZDA	120W	55°		16,800	Internal emergency driver				
EX-150W B3YZDA	150W	50°		21,000					
EX-200W B3YZDA	200W	40°		28,000					
EX-250W B4YZDA	250W	40°		35,000					
EX-300W B4YZDA	300W	40°		42,000					
EX-350W B4YZDA	350W	40°		49,000					
EX-400W B4YZDA	400W	40°		56,000					

Ordering Guide:



- (1) PRODUCT CATEGORY
- (2) WATTAGE
- (4) DIMMING OPTION

- Explosion proof light
- 20W-400W

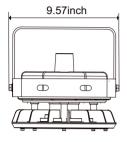
B ● B2 ● B3 ● B4 ● D= dimmable ● N= non-dimmable

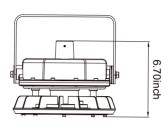
- (5) CCT
 - From 2200K to 7000K
 - 22=2200K, 30=3000K, ..., 70=7000K
- (6) BEAM ANGLE
 - D40= 40° D90= 90°
 - D60= 60° D120= 120°
- (7) GLASS TYPE
 - A=blank: Flat glass
 - A=C: Spherical glass & wire guard

Dimensions:

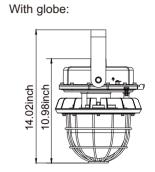
B2 Series

Without globe:



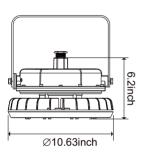


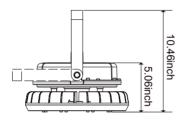


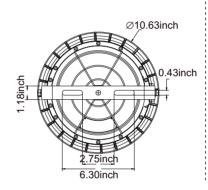


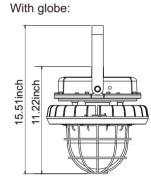
B Series

Without globe:



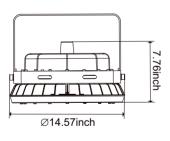


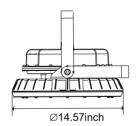


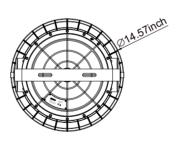


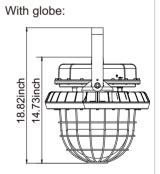
B3 Series

Without globe:

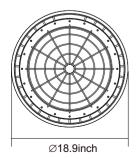


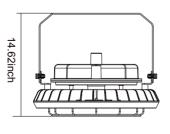




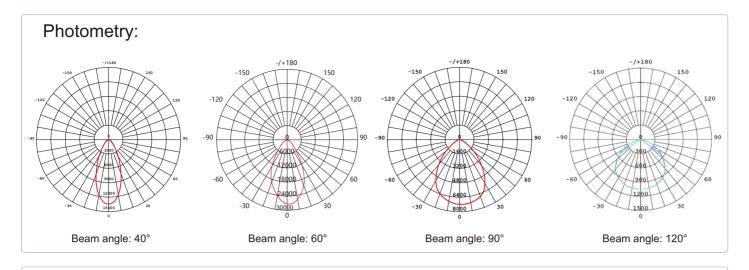


B4 Series









Packing Information:

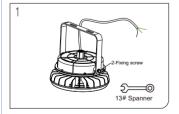
Model	Quantity/Carton	Packing Size	Net Weight	Gross Weight	
B2	1 PC	14.17x13.94x10.24inch	3.5 kgs/ 7.72 lbs	5 kgs/ 11.02 lbs	
В	1 PC	15.19x12.99x8.66inch	4.4 kgs/ 9.70 lbs	5.5 kgs/ 12.13 lbs	
B3	1 PC	18.90x18.11x10.43inch	8.2 kgs/ 18.08 lbs	10.5 kgs/ 23.15 lbs	
B4	1 PC	20.87x20.87x11.81inch	18.8 kgs/ 41.45 lbs	21.5 kgs/ 47.40 lbs	

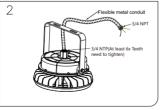
Mounting Methods:

Ceiling Mounting

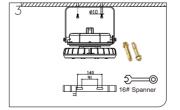


<u>MARNING</u>
Risk of fire, Electric shock or personal injury
Before installation, turn off power!

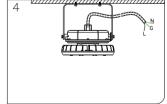




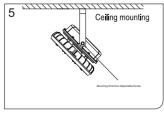
2. Install and tighten flexible metal conduit with the fixture



3. Drill 2x hole as shown in Fig.2, the distance can be 91~140mm, fixing Ø10 expanded crews and bracket on ceiling.



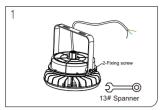
Connect black cable to L, Connect White cable to N, Connect green cable to grounding.



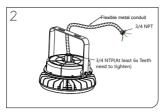
5. Adjust the beam angle from 0-180°



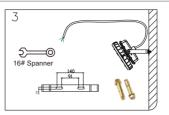
Wall Mounting



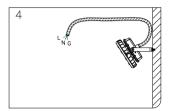
Take the fixture and accessory out from carton box, tighten 2x angle holder screw as Fig.1.



2. Install and tighten flexible metal conduit with the fixture.

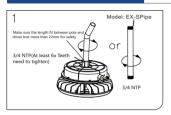


 Drill 2x hole as Shown in Fig.2, the distance can be 91~140mm, fixing Ø10 expansion screws and bracket on ceiling.

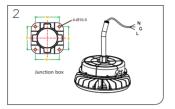


Connect black cable to L, Connect White cable to N, Connect green cable to grounding.

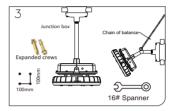
Pole Pendant



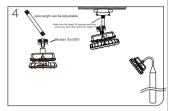
 Take the fixture and pole accessory out from carton box, tighten pole as shown in Fig.1.



Connect black cable to L, Connect White cable to N, Connect green cable to grounding.



Drill 4x Ø10mm holes, as 100mm distance, install the junction box to the wall or ceiling as shown in Fig.3, tighten the pole to the box, and adjust the chain of balance.

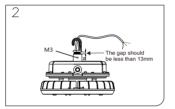


Adjustable pole installation. With this adjustable kit, you can
Make any light distribution direct as you want.
 Optional: Install the fixture to the long pole after cable
connecting cable.

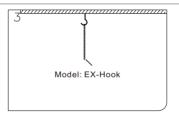
Hook Pendant



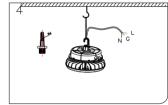
1. Take the fixture and accessory out from carton box, tighten 2x angle holder screw as Fig.1.



 Tighten the hook with the fixture, at least 6x teeth need to be tighten, fix the M3 screw to prevent the hook loosening.



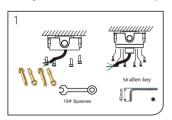
3. Drill 1 expansion screw hole and install it, and hang the chain as shown in Fig.3.



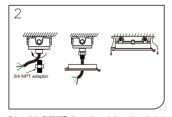
Connect black cable to L, Connect White cable to N, Connect green cable to grounding.

Ceiling Mounting by Oppening Driver Box

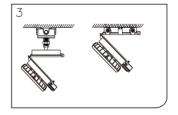
- This installation method is only for Model B. It can not be applied on Model B2, B3, and B4 because they are too heavy.
- Only one electrician is required for this installation.



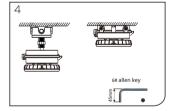
1 . Install the junction box to ceiling the via 4x expansion bolts, tighten the junction box cover screws by 5# allen key.



 Install the 3/4" NPT adapter through the cable to the hole of adaptor tighten the driver enclosure cover to adaptor via M4 screw to prevent loosening.



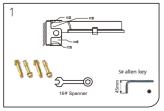
Connect black cable to L, Connect White cable to N, Connect green cable to grounding.



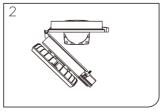
4. Tighten 3x M8 screws for driver enclosure as shown above

Arm Mounting by Oppening Driver Box

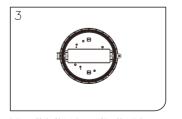
- This installation method is only for Model B. It can not be applied on Model B2, B3, and B4 because they are too heavy.
- Only one electrician is required for this installation.



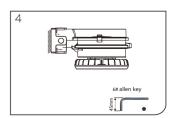
Install the 3/4" NPT adapter through the cable to the hole of adaptor, tighten the driver enclosure cover to adaptor via M4 screw to prevent loosening.



2. Hang the luminaire to the back cover



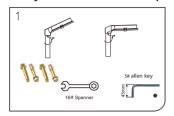
Connect black cable to L, Connect White cable to N, Connect green cable to grounding.



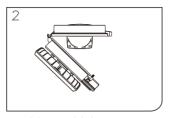
 $4.\,Tighten\,3x\,M8\,screws\,for\,driver\,enclosure\,as\,shown\,above.$

Arm Mounting by Opening Driver Box

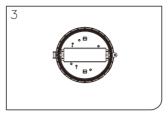
- This installation method is only for Model B. It can not be applied on Model B2, B3, and B4 because they are too heavy.
- Only one electrician is required for this installation.



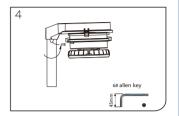
1. Install the 3/4" NPT adapter through the cable to the hole M4 screw to prevent loosening.



2. Hang the luminaire to the back cover

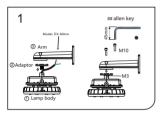


3. Connect black cable to L, Connect White cable to N, Connect green cable to grounding.

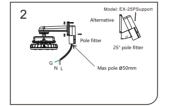


4. Tighten 3x M8 screws for driver enclosure as shown above.

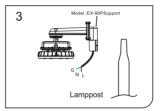
Stanchion Mounting



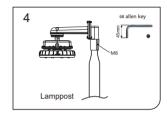
Tighten part 2 and assembly 1, and fix the M3 screw,install arm to the adaptor, tighten the M10 via 8# allen key.



2. Install the pole fitter with arm via 4x M8 screws, the max suitable pole diameter 50mm, the alternative 25 degress

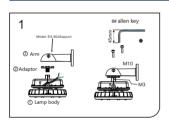


3. Contact the cable to AC wire, black one contact to live wire, white one contact to null wire, green one contact to grounding

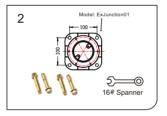


Slip the fitter to the lamppost and tighten M8 inner hexagonal screw.

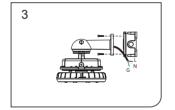
Wall Mounting to Junction Box



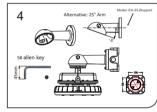
Tighten part 2 and assembly 1, and fix the M3 screw,install arm to the adaptor, tighten the M10 via 8# allen key.



Drill 4x Ø10mm holes Install the junction box to the wall via M10 expanded screw.



Contact the AC wire to power system, black one to Live wire, white one to Null wire, green one to grounding.



4. Tighten 6 x screws between arm and junction box, turn on the power to test the luminaires is work.

Accessories:



Ex-Straight Pipe



Pole

Ex-Bended Pipe



Junction Box EX-HD51-KB1



Stanchion Arm EX-HD51-KYD 90°



Stanchion Arm EX-HD51-KYD 25°



Hook Ex-Hook



Flexible Tube FX-NG



Pendant **Direction Adapter**



Pole Support Ex-25P Support



Pole Support Ex-90P Support



Pendant Chain Ex-Straight Chain



Bracket



Stanchion Arm Ex-MArm



Cut-off Lamp Shade



Lamp Shade