Durable Lighting Made for Industrial Safety

Hazardous Location LED Luminaire

B Series (Zone 1, 2, 21, 22)

Authorized Agent :
EGE TECHNOLOGY SDN BHD (201201031202)
www.egetech.com.my

Venas International Co., Ltd

B

B3

B4

Convex Glass
(Optional)

Globe Glass with Wire Guard
(Optional)

Product Description

The B 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
- High luminous efficacy - Up to 140 lumens per watt
- Compact and robust structure, excellent reliability
- Various installation ways for different applications
- Great impact resistance with IK08/IK10 certified

Compliance

ATEX Standard:
⬦ I I 2 G Ex eb mb IIC T6...T4 Gb
⬦ II2D Ex tb IIIC T80°C...T100°C Db

IECEx Standard:
Ex eb mb IIC T6...T4 Gb
Ex tb IIIC T80°C...T100°C Db

Zone 1&2, Zone 21&22
CB (Ref. Certif. No.: DE 2-038462-M1)
NSF
Ta. -40°C-+65°C
1000 hours salt spray
IP66 (according to IEC 60079-0}
IK08 (glass cover)
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**
- **Coal Mine**
- **Food and Alcohol industry**

Warranty

5-Year Standard Warranty

LED lumen Maintenance: L70> 150,000 Operation Hours @55°C

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Technical Parameter

• Electrical

Specification	EX-60W-B YZDAF	EX-80W-B YZDAF
Rated Power	60W	80W
Input Voltage	200-250VAC	
Input Frequency	50/60Hz	
Power Factor	>0.95	
Emergency	I No emergency function	

• Optical

Specification	EX-60W-B YZDAF	EX-80W-B YZDAF
Lumen Output	8,4001m	11,200lm
Lumens Per Watt	140lm/W	140lm/W
CCT	2200K-7000K	
CRI	>70	
Beam Angle	40°/45°/60°/90°	
Dimming	0-10V dimming	

• Environmental

Specification	EX-60W-B YZDAF	EX-BOW-B YZDAF
Ambient Operating Temperature	T5: -40°C to +45°C (-40°F to +113°F) T6: -40°C to +40°C (-40°F to +104°F)	

• Mechanical

Specification	EX-60W-B YZDAF	EX-BOW-B YZDAF
Housing Material	Copper-free aluminum	
Lens	Tempered glass & PC	
Hardware	Stainless steel	
Fixture Color	Gray RAL7040 (Standard)	
Protection	IP66/IK08 (glass cover)/IK10 (with wire guard)	
Mounting	Ceiling, Wall, Pole, Hook Pendant, Stanchion, Wall, Trunnion	
Cable Entries*	Side: 3/4" NPT (standard); M20, M25, 1/2" NPT (optional) Top: 3/4" NPT (standatd); M25 (optional)	

For cable entries, 3/4" NPT is standard. Others can be achieved with an adpater, and customer needs to indicate which is required when placing an order.

Technical Parameter

• Electrical

Specification	EX-100W-B3 YZDAF	EX-120W-B3 VZDAF	EX-150W-B3 YZDAF	EX-200W-B3 YZDAF
Rated Power	100W	120W	150W	200W
Input Voltage	200-250VAC			
Input Frequency	50/60Hz			
Power Factor	>0.95			
Emergency	Optional			

• Optical

Specification	EX-1OOW-83 YZDAF	EX-120W-B3 YZDAF	EX-1SOW-83 YZDAF	EX-200W-B3 YZDAF
Lumen Output	14,000lm	16,800lm	21,000lm	28,000lm
Lumens Per Watt	140lm/W	140lm/W	140lm/W	140lm/W
CCT	2200K-7000K			
CRI	>70			
Beam Angle	40°/45°/60°/90°			
Dimming	0-10V dimming			

• Environmental

Specification	EX-1OOW-83 YZDAF	EX-120W-B3 YZDAF	EX-1SOW-83 YZDAF	EX-200W-B3 YZDAF
Ambient Operating Temperature	T5: -40°C to +55°C (-4Q°F to +131°F)	T5: -40°C to +55°C (-4Q°F to +131°F)	T5: -40°C to +40°C (-40°F to +104°F)	T5: -40°C to +40°C (-40°F to +104°F)

• Mechanical

Specification	EX-1OOW-83 YZDAF	EX-120W-B3 YZDAF	EX-1SOW-83 YZDAF	EX-200W-B3 YZDAF
Housing Material	Copper-free aluminum			
Lens	Tempered glass & PC			
Hardware	Stainless steel			
Fixture Color	Gray RAL7040 (Standard)			
Protection	IP66/IK08 (glass cover)/IK10 (with wire guard}			
Mounting	Ceiling, Wall, Pole, Hook Pendant, Stanchion, Wall			
Cable Entries*	Side: 3/4" NPT (standard); M20, M25, 1/2" NPT (optional) Top: 3/4" NPT (standatd); M25 (optional)			

*For cable entries, 3/4" NPT is standard. Others can be achieved with an adpater, and customer needs to indicate which is required when placing an order.

Technical Parameter

• Electrical

Specification	EX-250W-B4 YZDAF	EX-300W-B4 VZDAF	EX-350W-B4 YZDAF	EX-400W-B4 YZDAF
Rated Power	250W	300W	350W	400W
Input Voltage	200-250VAC			
Input Frequency	50/60Hz			
Power Factor	>0.95			
Emergency	Optional			

• Optical

Specification	EX-250W-B4 YZDAF	EX-300W-B4 YZDAF	EX-350W-B4 YZDAF	EX-400W-B4 YZDAF
Lumen Output	35,000lm	42,000lm	49,000lm	56,000lm
Lumens Per Watt	140lm/W	140lm/W	140lm/W	140lm/W
CCT	2200K-7000K			
CRI	>70			
Beam Angle	40°/45°/60°/90°			
Dimming	0-10V dimming			

• Environmental

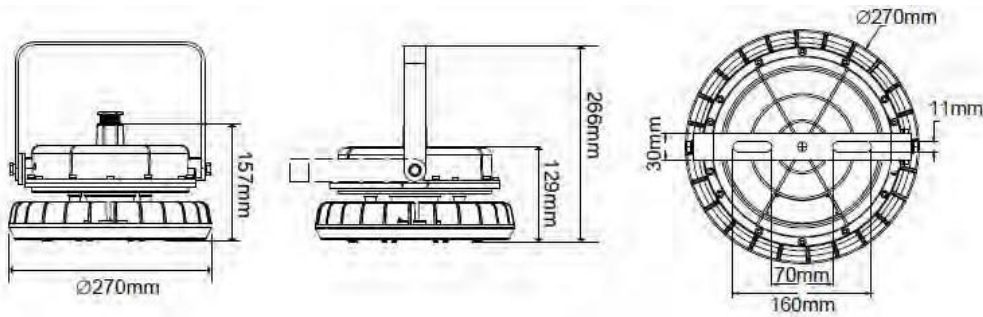| Specification	EX-250W-B4 YZDAF	EX-300W-B4 YZDAF	EX-350W-B4 YZDAF	EX-400W-B4 YZDAF
Ambient Operating Temperature	T6: -40°C to +40°C (-40°F to +104°F)	T6: -40°C to +40°C (-40°F to +104°F)	T5: -40°C to +30°C (-40°F to +86°F)	T5: -40°C to +30°C (-40°F to +86°F)

• Mechanical

Specification	EX-250W-B4 YZDAF	EX-300W-B4 YZDAF	EX-350W-B4 YZDAF	EX-400W-84 YZDAF
Housing Material	Copper-free aluminum			
Lens	Tempered glass & PC			
Hardware	Stainless steel			
Fixture Color	Gray RAL7040 (Standard)			
Protection	IP66/IK08 (glass cover)/IK10 (with wire guard)			
Mounting	Ceiling, Wall, Pole, Hook Pendant, Stanchion, Wall			
Cable Entries*	Side: 3/4" NPT (standard); M20, M25, 1/2" NPT (optional) Top: 3/4" NPT (standatd); M25 (optional)			

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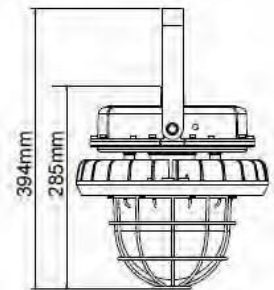
VENAS

Product Dimensions

B

Without drop lens: With drop lens:
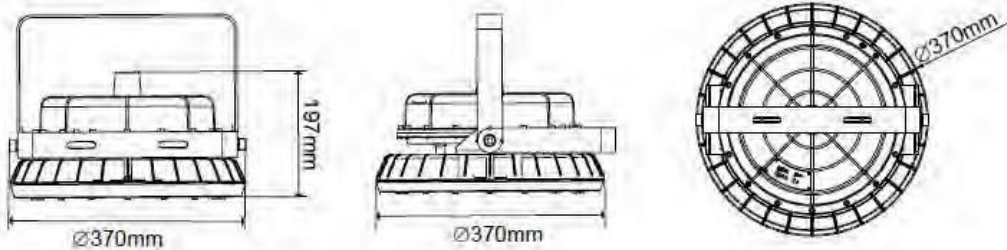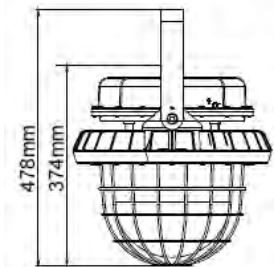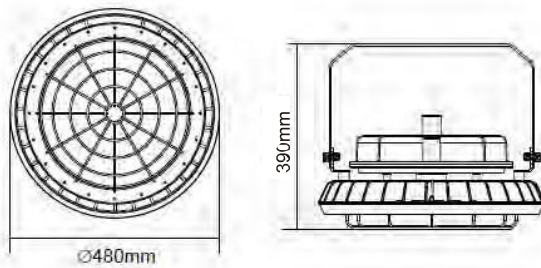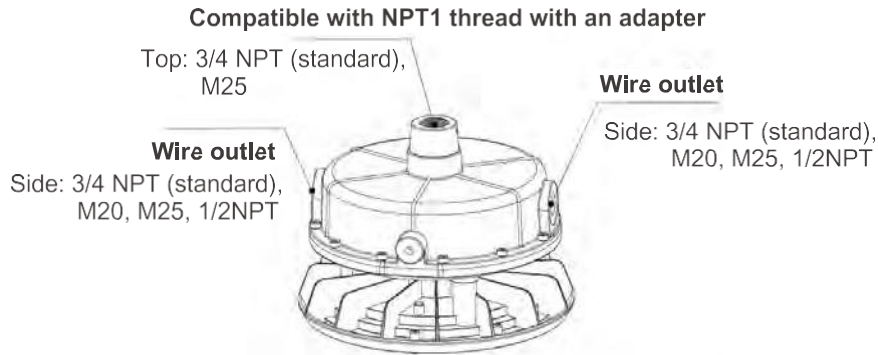

B3

Without drop lens: With drop lens:

B4

Cable Entries

Compatible with NPT1 thread with an adapter

Top: 3/4 NPT (standard), M25

Wire outlet
Side: 3/4 NPT (standard), M20, M25, 1/2NPT

Wire outlet
Side: 3/4 NPT (standard), M20, M25, 1/2NPT

● Packing Information

Model	Net Weight*	Gross Weight*	Quantity/Carton	Package Dimensions (LxWxH)
EX-XXXW-B YZDAF	4.4kg	5.65kg	1 pc	400x350x250mm
EX-XXXW-B3 YZDAF	8.2kg	10.6kg	1 pc	500x480x290mm
EX-XXXW-B4 YZDAF	17.0kg	20.5kg	1 pc	590x590x310mm

*Please note that net weight and gross weight may be subject to change because of actual configuration.

Ordering Guide

$$\underbrace{EX}_{1} - \underbrace{XXXW}_{2} - \underbrace{B/B3/B4}_{3} \underbrace{Y}_{4} \underbrace{Z}_{5} \underbrace{D}_{6} \underbrace{A}_{7} \underbrace{F}_{8}$$

1.Model Series	2.Wattage	3.Product Code	4.Dimmable Optinal
Explosion-proof Light	B: 60/80W B3: 100/120/150/200W B4: 250/300/350/400W	B B3 B4	Y: Dimmable N: Non-dimmable

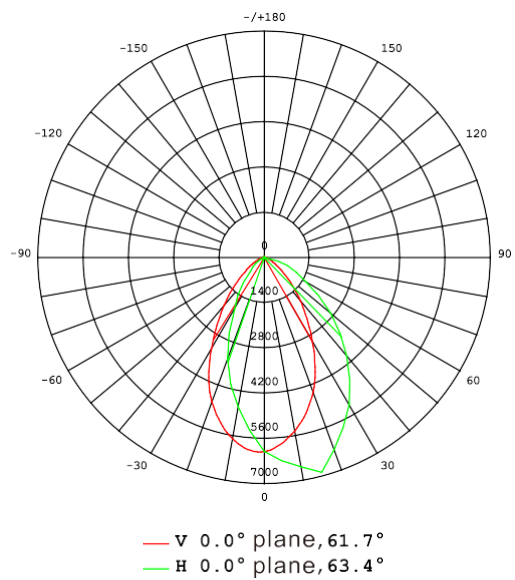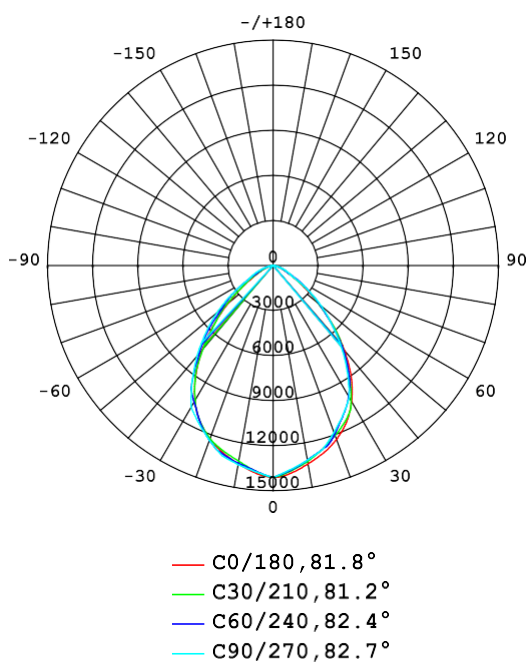| 5.Color Temp.	6.Beam Angle	7.Glass Type	8.Optional
22=2200K, 30=3000K, ..., 70=7000K	D40=40° D60=60° D90=90° D120=120°	A=blank: flat glass A=C: Drop lens & wire guard	F: for food zone or blank

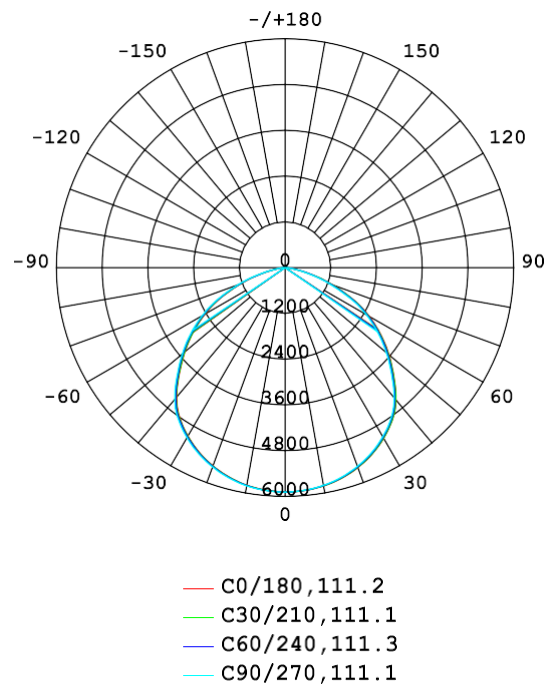## Photometric

40 Degrees

— C0/180,45.1°
— C30/210,43.7°
— C60/240,46.0°
— C90/270,46.9°

60 Degrees

— V 0.0° plane,61.7°
— H 0.0° plane,63.4°

90 Degrees

— C0/180,81.8°
— C30/210,81.2°
— C60/240,82.4°
— C90/270,82.7°

120 Degrees

— C0/180,111.2
— C30/210,111.1
— C60/240,111.3
— C90/270,111.1

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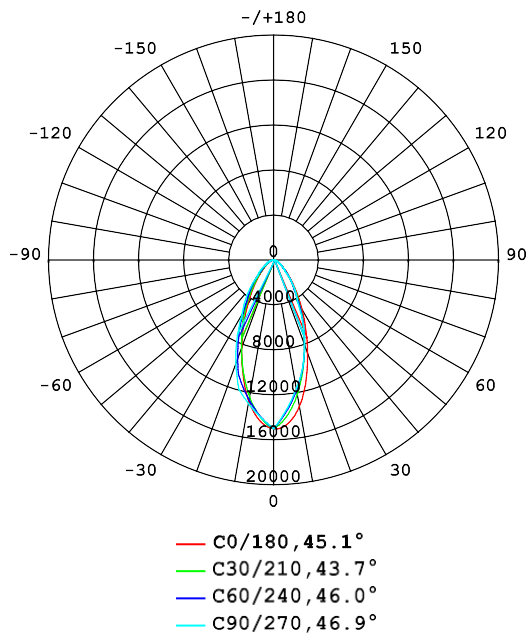
Mounting Methods

- Option 1: Ceiling Mounting

- Accessory

Bracket

- Option 2: Wall Mounting

- Accessory

Bracket

- Option 3: Pole Pendant Mounting

Vertical

Non-vertical

Adjustable Pole Installation

pole length adjustable

Junction Box
EX-HD51-KB1

Junction Box
EX-HD51-KB1

Junction Box
EX-HD51-KB1

Pole
Ex-Straight Pipe

Pole
Ex-Bended Pipe

Pole
Ex-Straight Pipe

Pendant Chain
Ex-Straight Chain

Pendant Direction Adapter
Ex-D01

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Mounting Methods

• Option 4: Hook Pendant Mounting

• Accessories

Hook
Ex-Hook

Pendant Chain
Ex-Straight Chain

• Option 5: Wall Mounting to Junction Box

• Accessories

90 Degree

25 Degree

Stanchion Arm
EX-HD51-KYD 90

Stanchion Arm
EX-HD51-KYD 25

• Option 6: Trunnion Mounting (Only for B)

• Accessory

EX-Slip
Fitter Mounting Kit