Durable Lighting Made for Industrial Safety

Hazardous Location LED Luminaire

A Series (Zone 2 & Class I Divison 2)

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 140 lumens per watt
- Battery backup function: emergency only available for A3 and A4
- Compact and robust structure, excellent reliability
- Various installation ways for different applications
- Great impact resistance with IK08/IK10 certified
- Die-cast aluminum housing, great corrosion resistance and cooling performance

Warehouse-Lighting.com
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Compliance

ATEX Standard:

⟨Ex⟩ II 3G Ex ec IIC T6...T3 Gc

⟨Ex⟩ II 2D Ex tb IIIC T85℃...T103℃ Db IP66

IECEx Standard:

Ex ec IIC T6...T3 Gc

Ex tb IIIC T85°C...T100°CDb IP66

Zone 2, Zone 21&22
CB (Ref. Certif. No.: DE 2-038462-M1)

UL 844 Hazardous Locations
Class I Division 2, Group A, B, C, D
Class II Division 1, Group E, F, G
Class II Division 2, Group F, G
Class III
Class I, Zone 2, Group IIC
Class II, Zone 21, Group IIIC
UL 1598 Wet Locations
UL 1598A Marine Outside Type
ETL (ATM for Report 105342415DAL-001)
ABS
DLC*
IP66
IK08 (without wire guard)
IK10 (with wire guard)
1000 hours salt spray

Not all product variations listed on this spec sheet are DLC qualified. Visit www.designlights.org/search to confirm qualification.

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> 78,000 Operation Hours@55°C

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Technical Parameter - UL844 Certified

● Electrical

Specification	EX-20W A2YZDA	EX-40W A2YZDA	EX-60W A2YZDA	EX-80W AYZDA	EX-100W AYZDA
Rated Power	20W	40W	60W	80W	100W
Input Voltage	100-277/200-480VAC				
Input Frequency	50/60Hz				
Power Factor	> 0.95				
Emergency Function	No emergency function			Optional (Billda)	

● Optical

Specification	EX-20W A2YZDA	EX-40W A2YZDA	EX-60W A2YZDA	EX-80W AYZDA	EX-100W AYZDA
Lumen Output	2800lm	5,600lm	8,400lm	11200lm	14000lm
Lumens Per Watt	140lm/W				
CCT	3000K-6500K				
CRI	> 70				
Beam Angle	40°/60°/90°/120°				
Dimming	0-10V dimming optional				

● Mechanical

Specification	EX-20W A2YZDA	EX-40W A2YZDA	EX-60W A2YZDA	EX-80W AYZDA	EX-100W AYZDA
Housing Material	Die-cast aluminum				
Lens	Tempered glass & PC				
Hardware	Stainless steel				
Fixture Color	Gray RAL7040 (Standard)				
Protection	IP66/IP67/IK08 (glass cover)/IK10 (with wire guard)				
Mounting	Ceiling, Wall, Hook, Trunnion, Pole, Stanchion				
Cable Entries	Side: 3/4" NPT (standard); M20, M25, 1/2" NPT (optional) Top: 3/4" NPT (standard)				

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Technical Parameter - UL844 Certified

● Electrical

Specification	EX-150W A3YZDA	EX-180W A3YZDA	EX-200W A3YZDA	EX-250W A4YZDA	EX-300W A4YZDA	EX-400W A4YZDA
Rated Power	150W	180W	200W	250W	300W	400W
Input Voltage	120-277/277-480VAC					
Input Frequency	50/60Hz					
Power Factor	> 0.95					
Emergency Function	Optional					

● Optical

Specification	EX-150W A3YZDA	EX-180W A3YZDA	EX-200W A3YZDA	EX-250W A4YZDA	EX-300W A4YZDA	EX-400W A4YZDA
Lumen Output	21000lm	25200lm	28000lm	35000lm	42000lm	56000lm
Lumens Per Watt	140lm/W					
CCT	3000K-6500K					
CRI	> 70					
Beam Angle	40°/60°/90°/120°					
Dimming	0-10V dimming optional					

● Mechanical

Specification	EX-150W A3YZDA	EX-180W A3YZDA	EX-200W A3YZDA	EX-250W A4YZDA	EX-300W A4YZDA	EX-400W A4YZDA
Housing Material	Die-cast aluminum					
Lens	Tempered glass & PC					
Hardware	Stainless steel					
Fixture Color	Gray RAL7040 (Standard)					
Protection	IP66/IP67/IK08 (glass cover)/IK10 (with wire guard)					
Mounting	Ceiling, Wall, Hook, Pole, Stanchion					
Cable Entries	Side: 3/4" NPT (standard); M20, M25, 1/2" NPT (optional) Top: 3/4" NPT (standard)					

● Ambient Temperature

-40°C to +40°C (-40°F to +104°F)	Models A, 40-120W
-40°C to +50°C (-40°F to +122°F)	Models A, 40-100W, Class I Division 2 Group A, B, C, D
-40°C to +40°C (-40°F to +104°F)	Models A2, 20-40W
-40°C to +40°C (-40°F to +104°F)	Models A3, 20-200W
-40°C to +55°C (-40°F to +131°F)	Models A4, 20-300W
-40°C to +40°C (-40°F to +104°F)	Models A4, 20-400W

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Technical Parameter - for Zone 2/21/22

● Electrical

Specification	Ex-20WA2N**D**	Ex-40WA2N**D**	Ex-60WA2N**D**	Ex-80WAN**D**	Ex-100WAN**D**
Rated Power	20W	40W	60W	80W	100W
Input Voltage	100-277VAC				
Input Frequency	50/60Hz				
Power Factor	> 0.95				
Emergency Function	No emergency function			Optional (Billda)	

● Optical

Specification	Ex-20WA2N**D**	Ex-40WA2N**D**	Ex-60WA2N**D**	Ex-80WAN**D**	Ex-100WAN**D**
Lumen Output	2800lm	5,600lm	8,400lm	11200lm	14000lm
Lumens Per Watt	140lm/W				
CCT	3000K-6500K				
CRI	> 70				
Beam Angle	40°/60°/90°/120°				
Dimming	0-10V dimming optional				

● Environmental

Specification	Ex-20WA2N**D**	Ex-40WA2N**D**	Ex-60WA2N**D**	Ex-80WAN**D**	Ex-100WAN**D**
Ambient Temperature	T3: -40°C to +55°C (-40°F to +131°F)				

● Mechanical

Specification	Ex-20WA2N**D**	Ex-40WA2N**D**	Ex-60WA2N**D**	Ex-80WAN**D**	Ex-100WAN**D**
Housing Material	Die-cast aluminum				
Fixture Color	Gray RAL7040 (Standard)				
Lens	Tempered glass & PC				
Hardware	Stainless steel				
Protection	IP66/IP67/IK08 (glass cover)/IK10 (with wire guard)				
Mounting	Ceiling, Wall, Hook, Pole, Stanchion				
Cable Entries	Side: M20 (standard); M25, 1/2" NPT , 3/4" NPT (optional) Top: 3/4" NPT (standard)				

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Technical Parameter - for Zone 2/21/22

● Electrical

Specification	Ex-150W A3N**D**	Ex-180W A3N**D**	Ex-200W A3N**D**	Ex-250W A4N**D**	Ex-300W A4N**D**
Rated Power	150W	180W	200W	250W	300W
Input Voltage	100-277VAC				
Input Frequency	50/60Hz				
Power Factor	> 0.95				
Emergency Function	Optional				

● Optical

Specification	Ex-150W A3N**D**	Ex-180W A3N**D**	Ex-200W A3N**D**	Ex-250W A4N**D**	Ex-300W A4N**D**
Lumen Output	21000lm	28000lm	11200lm	35000lm	42000lm
Lumens Per Watt	140lm/W				
CCT	3000K-6500K				
CRI	> 70				
Beam Angle	40°/60°/90°/120°				
Dimming	0-10V dimming optional				

● Environmental

Specification	Ex-150W A3N**D**	Ex-180W A3N**D**	Ex-200W A3N**D**	Ex-250W A4N**D**	Ex-300W A4N**D**
Ambient Temperature	T3: -40°C to +55°C (-40°F to +131°F)				

● Mechanical

Specification	Ex-150W A3N**D**	Ex-180W A3N**D**	Ex-200W A3N**D**	Ex-250W A4N**D**	Ex-300W A4N**D**
Housing Material	Die-cast aluminum				
Fixture Color	Gray RAL7040 (Standard)				
Lens	Tempered glass & PC				
Hardware	Stainless steel				
Protection	IP66/IP67/IK08 (glass cover)/IK10 (with wire guard)				
Mounting	Ceiling, Wall, Hook, Pole, Stanchion				
Cable Entries	Side: M20 (standard); M25, 1/2" NPT , 3/4" NPT (optional) Top: 3/4" NPT (standard)				

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Product Dimensions

Unit: mm [inch]

A2

96 [3.78]
11 [0.43]
36 [1.42]
237 [9.33]
244 [9.61]
166 [6.53]
250 [9.84]
160 [6.30]

A

320 [12.60]
240 [9.45]
25 [0.98]
56 [2.20]
7.7 [0.30]
213 [8.39]
263 [10.35]
162 [6.38]

A3

135 [5.31]
35 [1.38]
12.5 [0.49]
348 [13.70]
268 [10.55]
188 [7.40]
380 [14.96]
230 [9.05]

A4

420 [16.53]
300 [11.81]
28 [1.10]
70 [2.75]
9.1 [0.36]
390 [15.35]
357 [14.05]
214 [8.42]

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• Packing Information

Model	Net Weight*	Gross Weight*	Quantity/Carton	Package Dimensions (LxWxH)
A2	4.15 kg/9.15 lb	5.30 kg/11.68 lb	1 pc	365x270x305 mm/14.37x10.63x12.01 inch
A	6.95 kg/15.32 lb	7.90 kg/17.42 lb	1 pc	375x340x215 mm/14.76x13.39x8.46 inch
A3	8.30 kg/18.30 lb	10.30 kg/22.71 lb	1 pc	485x340x365 mm/19.09x13.39x14.37 inch
A4	15.1 kg/33.29 lb	15.80 kg/34.83 lb	1 pc	510x480x350 mm/20.08x18.90x13.78 inch

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

Ordering Guide - UL844 Certified

EX - yyyW XYZDA -1

1   2   3 4 5 6 7   8
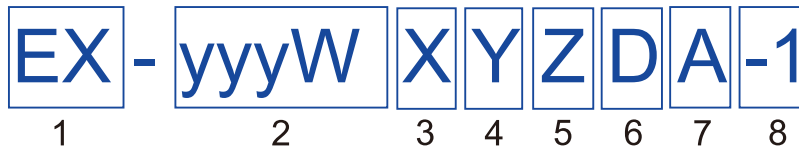
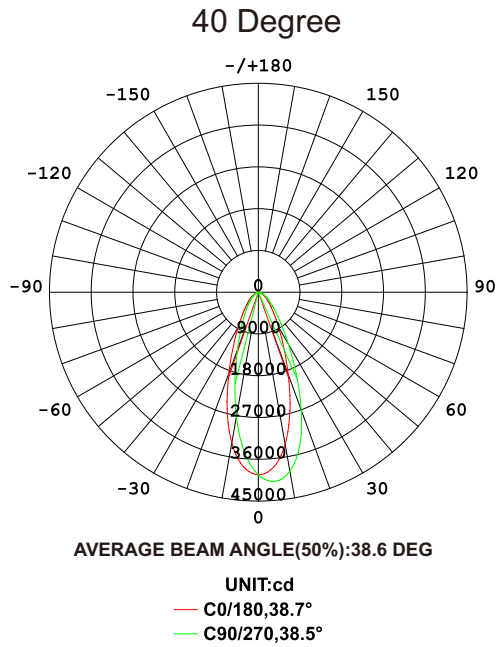| 1.Product Categories	2.Wattage	3.Shell Shape Series	4.Dimming or Not
Explosion Proof Light	A: 80/100W A2: 20W/40/60W A3: 150/180/200W A4: 250/300/400W	"X" Can be: A, A2, A3, A4	"Y" Can be: D: Dimmable N: Non-dimmable

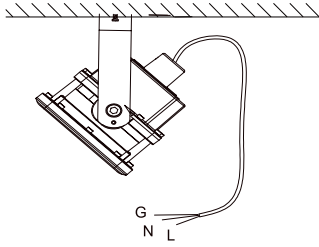| 5.Color Temp.	6.Beam Angle	7.Long Glass Cover Optioanl	8.Optional
"Z" can be 27 to 70, denotes 2700K to 7000K	D40=40° D60=60° D90=90° D120=120°	"A" = C: long glass cover blank: non long glass cover	"-1" :made in USA, blank: made in China

Ordering Guide - for Zone 2/21/22

Ex - **W**N**D**

1   2   3   4
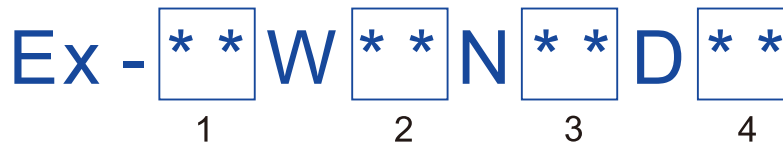
1. Wattage (W)	2. Product Code	3. Color Temperature	4. Beam Angle (Degree)
A: 80/100W A2: 20W/40/60W A3: 150/180/200W A4: 250/300W	Can be: A, A2, A3, A4	Can be 30 to 65, means 3000K to 6500K	Can be: 40, 60, 90, 120

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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

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Mounting Methods and Accessories

Option 1: Ceiling Mounting

G
N L

Accessory

Bracket

Option 2: Wall Mounting

L
N G
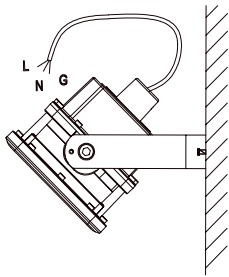
Accessory

Bracket

Option 3: Hook Mounting

M4

L
N G
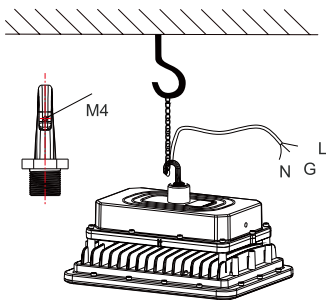
Accessories

Hook
Ex-Hook

Pendant Chain
Ex-Straight Chain

Option 4: Trunnion Mounting (Only for A and A2)
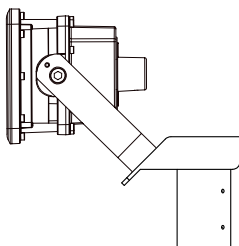
Accessory

EX-Slip
Fitter Mounting Kit

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Mounting Methods and Accessories

- Option 5: Pole Mounting (Vertical)
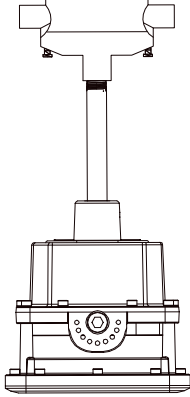
- Accessories

Junction Box
EX-HD51-KB1

Pole
Ex-Straight Pipe

- Option 6: Pole Mounting (Non-vertical)

Chain of balance
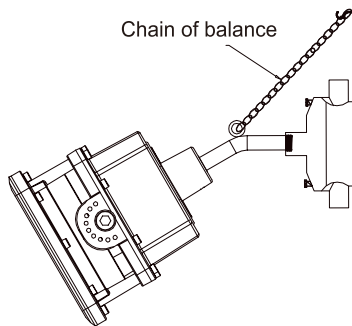
- Accessories

Junction Box
EX-HD51-KB1

Pole
Ex-Bended Pipe

Pendant Chain
Ex-Straight Chain

- Option 7: Stanchion Mounting on the Wall

- Accessory

Stanchion Arm
Ex-MArm
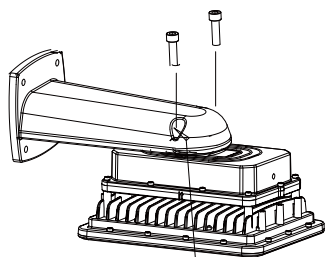
45mm

Make sure the screw is fixed well for safety.

6# Allen key

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Mounting Methods and Accessories

- Option 8: Stanchion Mounting on the Pole (90 Degree)
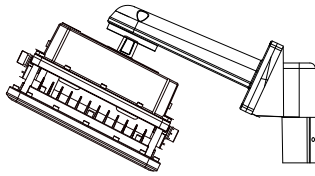
45mm

8# Allen key
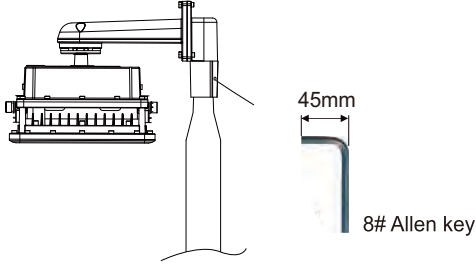
- Accessories

EX-90PSupport

- Option 9: Stanchion Mounting on the Pole (25 Degree)
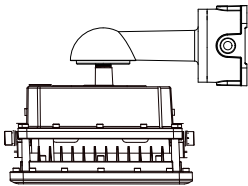
- Accessories

EX-25PSupport

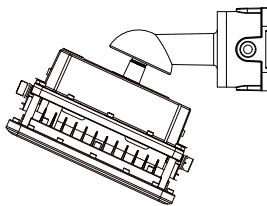- Option 10: Wall Mounting with Junction Box (90 Degree)

- Accessory

Stanchion Arm
EX-HD51-KYD 90

- Option 11: Wall Mounting with Junction Box (25 Degree)

- Accessory

Stanchion Arm
EX-HD51-KYD 25

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