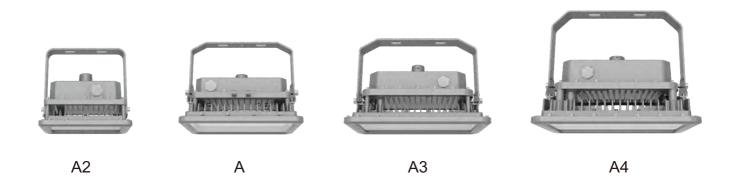
Durable Lighting Made for Industrial Safety



Specsheet-2023-07 EN



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
- High luminous efficacy Up to 140 lumens per watt
- Battery backup function available
- · Compact and robust structure, excellent reliability
- Various installation ways for different applications
- Great impact resistance with IK08/IK10 certified
- · Copper-free aluminum housing, great corrosion resistance and cooling performance
- Emergency function optional for A, A3, and A4

Three Shapes Optional

• Shape 1: Surface Cover without Step



• Shape 2: Surface Cover with Step



• Shape 3: Back Side with Round Cover



Compliance

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 UL 924 Emergency Lighting CSA C22.2#250.0:2021 Ed.5 CSA C22.2#137:2018 Ed.2 ETL (ATM for Report 105342415DAL-001) ABS DLC* IP66/IP67 IK08 (glass cover) IK10 (with wire guard) 1000 hours salt spray 5G vibration

* 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> 150,000 Operation Hours@55°C







• Electrical

Specification	EX-20W A2YZDA	EX-40W A2YZDA	EX-60W A2YZDA	
Rated Power	20W	40W	60W	
Input Voltage	120-277/277-480VAC			
Input Frequency	50/60Hz	50/60Hz		
Power Factor	> 0.95	> 0.95		
Emergency Function	No emergency function			

Optical

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

• Environmental

Specification	EX-20W A2YZDA	EX-40W A2YZDA	EX-60W A2YZDA
Ambient Operating Temperature	T3: -40°C to +40°C (-40°F to +104°F)		

Mechanical

Specification	EX-20W A2YZDA	EX-40W A2YZDA	EX-60W A2YZDA	
Housing Material	Copper-free aluminum	Copper-free aluminum		
Lens	Tempered glass & PC	Tempered glass & PC		
Hardware	Stainless steel	Stainless steel		
Fixture Color	Gray RAL7040 (Standard)	Gray RAL7040 (Standard)		
Protection	IP66/IP67/IK08 (glass cov	IP66/IP67/IK08 (glass cover)/IK10 (with wire guard)		
Mounting	Ceiling, Wall, Hook, Pole, Arm, Stanchion			
Cable Entries*	Side: 3/4 NPT, M20, M25, Top: 3/4 NPT, M25	1/2NPT		

• Electrical

Specification	EX-80W AYZDA	EX-100W AYZDA
Rated Power	80W	100W
Input Voltage	120-277/277-480VAC	
Input Frequency	50/60Hz	
Power Factor	> 0.95	
Emergency Function	Optional (Billda)	

Optical

Specification	EX-80W AYZDA	EX-100W AYZDA
Lumen Output	11200lm	14000lm
Lumens Per Watt	140lm/W	
ССТ	3000K-6500K	
CRI	> 70	
Beam Angle	40°/60°/90°/120°	
Dimming	0-10V dimming	

• Environmental

Specification	EX-80W AYZDA	EX-100W AYZDA
Ambient Operating Temperature	T3: -40°C to +40°C (-40°F to +104°F) T3: -40°C to +50°C (-40°F to +122°F, for C	lass I Division 2 Group A, B, C, D)

Mechanical

Specification	EX-80W AYZDA	EX-100W AYZDA	
Housing Material	Copper-free aluminum		
Lens	Tempered glass & PC	Tempered glass & PC	
Hardware	Stainless steel	Stainless steel	
Fixture Color	Gray RAL7040 (Standard)	Gray RAL7040 (Standard)	
Protection	IP66/IP67/IK08 (glass cover)/IK10 (with wire guard)		
Mounting	Ceiling, Wall, Hook, Pole, Arm, Stanchion		
Cable Entries*	Side: 3/4 NPT, M20, M25, 1/2NPT Top: 3/4 NPT, M25		

• Electrical

Specification	EX-150W A3YZDA	EX-180W A3YZDA	EX-200W A3YZDA
Rated Power	150W	180W	200W
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	
Lumen Output	21000lm	25200lm	28000lm	
Lumens Per Watt	140lm/W			
ССТ	3000K-6500K			
CRI	> 70	> 70		
Beam Angle	40°/60°/90°/120°	40°/60°/90°/120°		
Dimming	0-10V dimming			

• Environmental

Specification	EX-150W A3YZDA	EX-180W A3YZDA	EX-200W A3YZDA
Ambient Operating Temperature	T3: -40°C to +40°C (-40°F to +104°F)		

Mechanical

Specification	EX-150W A3YZDA	EX-180W A3YZDA	EX-200W A3YZDA	
Housing Material	Copper-free aluminum			
Lens	Tempered glass & PC	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, Arm, Stanchion			
Cable Entries*	Side: 3/4 NPT, M20, M25 Top: 3/4 NPT, M25	, 1/2NPT		

• Electrical

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

Optical

Specification	EX-250W A4YZDA	EX-300W A4YZDA	EX-400W A4YZDA		
Lumen Output	35000lm	42000lm	56000lm		
Lumens Per Watt	140lm/W	140lm/W			
ССТ	3000K-6500K	3000K-6500K			
CRI	> 70	>70			
Beam Angle	40°/60°/90°/120°	40°/60°/90°/120°			
Dimming	0-10V dimming	0-10V dimming			

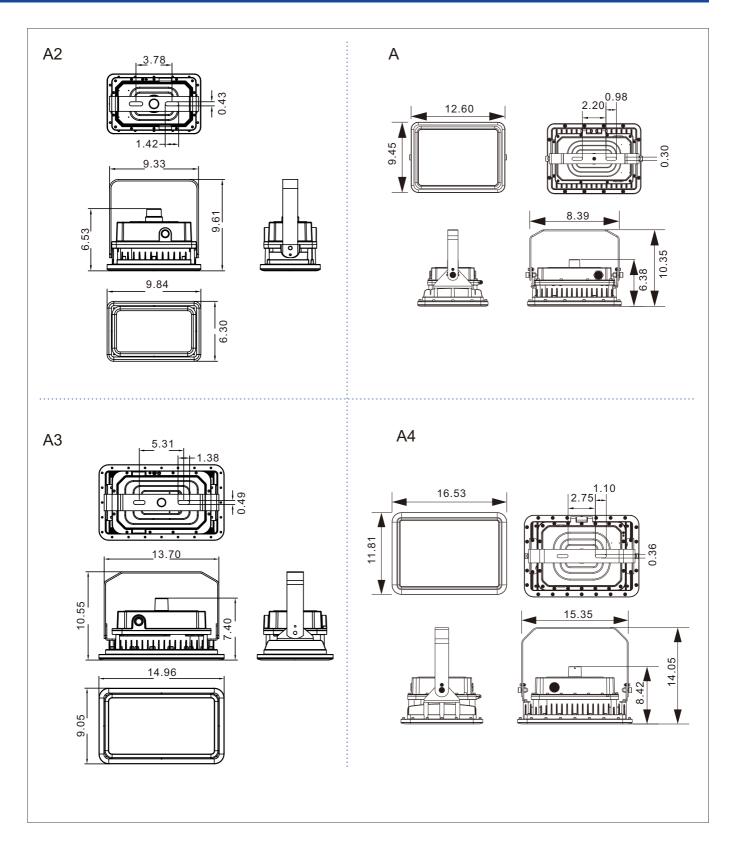
• Environmental

Specification	EX-250W A4YZDA	EX-300W A4YZDA	EX-400W A4YZDA	
Ambient Operating Temperature	T3: -40°C to +55°C	T3: -40°C to +55°C	T3: -40°C to +40°C	
	(-40°F to +131°F)	(-40°F to +131°F)	(-40°F to +104°F)	

Mechanical

Specification	EX-250W A4YZDA	EX-300W A4YZDA	EX-400W A4YZDA		
Housing Material	Copper-free aluminum	Copper-free aluminum			
Lens	Tempered glass & PC	Tempered glass & PC			
Hardware	Stainless steel	Stainless steel			
Fixture Color	Gray RAL7040 (Standard)	Gray RAL7040 (Standard)			
Protection	IP66/IP67/IK08 (glass cov	IP66/IP67/IK08 (glass cover)/IK10 (with wire guard)			
Mounting	Ceiling, Wall, Hook, Pole,	Ceiling, Wall, Hook, Pole, Arm, Stanchion			
Cable Entries*	Side: 3/4 NPT, M20, M25, Top: 3/4 NPT, M25	1/2NPT			

Product Dimensions (all in inches)



• Packing Information

Model	Net Weight*	Gross Weight*	Quantity/Carton	Package Dimensions (LxWxH)
A2	9.15 lb	11.68 lb	1 pc	14.37x10.63x12.01 inch
А	15.32 lb	17.42 lb	1 pc	14.76x13.39x8.46 inch
A3	18.30 lb	22.71 lb	1 pc	19.09x13.39x14.37 inch
A4	33.29 lb	37.48 lb 1 pc 19.29x18.11x11.4		19.29x18.11x11.45 inch

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

Ordering Guide

E	X -	уу	yW 2	X Y Z D 3 4 5 6	A 7 8	
1. Product Categ	ories	2. Watta	ige	3. Shell Shape Serie	es 4. Dim	ming or Not
Explosion Proof	Light	A: 80/10 A3: 150/	7/40/60W 0W 180/200W 300/400W	"X" Can be: A A2 A3 A4	"Y" Ca D: Dim N: Non	
5. Color Temp.	6. Bea	m Angle	7. Long Gl	ass Cover Optioanl	8	
"Z" can be 27 to 70, denotes 2700K to 7000K	D40=40° D60=60° D90=90° D120=120°			ng glass cover I long glass cover	blank: ma	de in China

Photometric













Option 6: Pole Mount	ing
	Pole length
	is adjustable.
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