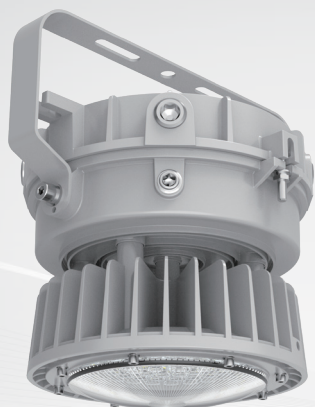
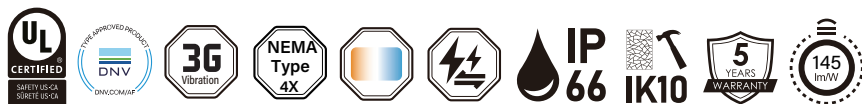
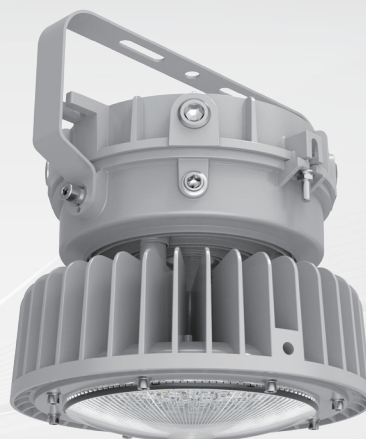


HAZARDOUS LOCATION LED LUMINAIRE EX-Q Spec Sheet



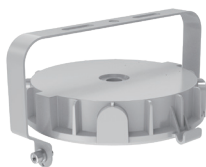
Q1



Q2



A1 (Ceiling)



B1 (U Bracket)



C1 (Wall)



D1(25° pole)



I1(pending)

EX-Q Spec Sheet

The Q1/Q2 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. Featuring various shapes of driver box cover, this series is designed to meet different requirements of installations.

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
- UL 1598 Wet Locations
- UL 1598A Marine Outside Type
- DNV
- ABS
- Vibration 3G
- NEMA Type 4X
- IP66
- IK08 (without wire guard)
- IK10 (with wire guard)

Application

- Heavy Industrials Storage Facility
- Paper Mills
- Chemical Processing Facility
- Power Plants
- Petrochemical Processing Facility
- Offshore Environments
- Wastewater Treatment Plants
- Food and Alcohol industry

HAZARDOUS LOCATION LED LUMINAIRE EX-Q Spec Sheet

Benefits & Features



- Compact and rugged structure, easy for installation
- All exposed fasteners with quality stainless steel
- High quality SMT LED and driver
- Resistance with IK08/IK10 certified
- Aluminum housing, great corrosion resistance and cooling performance
- Unique design enhances airflow for greater heat dissipation
- Microwave motion sensor optional
- Isolated LED compartment reduces temperature within LED driver housing
- Optional flat or convex glass, available in clear or frosted finish ; wire guard is optional

Key Features and Information

• Electrical

Model	EX-xxxW Q1	EX-xxxW Q2
Selectable Power	60W/80W/100W	120W/150W/200W
Power Model	Q1: SS-100VA-56BHL for 120-277VAC ; VA-100V-054B for 277-480VAC; Q2: XLG-240-H-ABL for 120-277VAC; VA-240V-056B for 277-480VAC;	
Input Voltage	120-277VAC or 277-480VAC	
Input Frequency	50/60Hz	
Power Factor @120V	> 0.95	
Optional Emergency Function	Min. 90 mins (Contact sales for EM options)	
Service Life	Up to 50,000 hours	
Salt Spray	500Hours	
Dimming	Driver includes dimming control wiring for 1-10V dimming systems. Requires separate 1-10V DC dimming circuit.	



HAZARDOUS LOCATION LED LUMINAIRE EX-Q Spec Sheet

• Optical

Model	EX-xxxW Q1	EX-xxxW Q2
Selectable Power	60W/80W/100W	120W/150W/200W
Lumens Per Watt	145lm/W	145lm/W
Lumen Output	8700-14500lm	17400-29000lm
Selectable CCT	4000K/5000K/6500K	
CRI	>70	
Beam Angle	120°	
LED	Long-life, high-efficacy, discrete, surface-mount 2835 LEDs 100,000-Hour LED lifespan based on IES LM-80 results and TM-21	



(*Note: Refer to the table of testing data on page 4.)

• Mechanical

Model	EX-xxxW Q1/Q2
Housing Material	Die-cast aluminum
Lens Material	Clear Convex Glass
Gasket Material	Silicone Rubber
Hardware	Stainless steel 304
Protection Rating	Ingress protection: IP66 Impact protection: IK10
Mounting Options	Ceiling Mount (Included); U bracket Mount (Included); Pendant Mount (Purchase separately)
Cable Entries	3/4"NPT
Warranty	5-year limited warranty for fixture

• Ambient Temperature

Model	Input Voltage	Power Model	Temperature Class
Q1	120-277VAC	SS-100VA-56BHL	T4A:-40 °C to +55 °C (CIDII)
	277-480VAC	VA-100V-054B	
Q2	120-277VAC	XLG-240-H-ABL	T4A:-40 °C to +50 °C (CIDII)
	277-480VAC	VA-240V-056B	

HAZARDOUS LOCATION LED LUMINAIRE EX-Q Spec Sheet

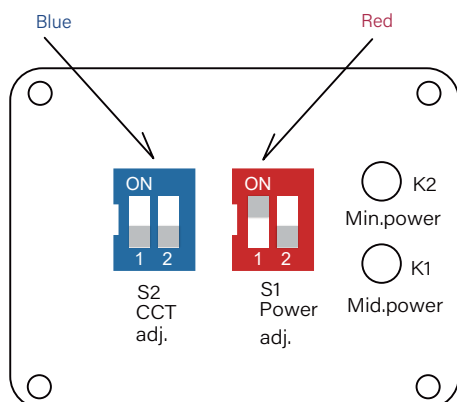
• **Electrical specification (actual measurement)**

Model	EX-100WQ1D50D120CCGV10T								
Test Power	100W			80W			60W		
Test CCT (K)	6500	5000	4000	6500	5000	4000	6500	5000	4000
Lumens Per Watt (lm/W)	149.79	158.76	150.47	153.01	160.31	153.84	155.96	161.81	157.11
Lumen Output (lm)	15317	15700	15297	12306	12550	12347	9384.2	9520.3	9442.3
Beam Angle	103.7	103.6	103.5	103.5	103.5	103.3	103.5	103.4	103.3
CCT (K)	6146	4945	4116	6127	4938	4112	6110	4935	4109
CRI	73.2	73.8	73.4	73.2	73.8	73.4	73.2	73.9	73.5
Power Factor	0.9976	0.9975	0.9976	0.9963	0.9962	0.9963	0.9937	0.9935	0.9938
Test Voltage	120VAC								
Test Power Model	SS-100VA-56BHL								

Model	EX-200WQ2D50D120CCGX24T								
Test Power	200W			150W			120W		
Test CCT (K)	6500	5000	4000	6500	5000	4000	6500	5000	4000
Lumens Per Watt (lm/W)	143	151.81	141.28	146.55	154.53	145.67	148.79	155.47	148.68
Lumen Output (lm)	28691	29368	28338	22013	22543	21904	17890	18223	17910
Beam Angle	102.4	102.3	102.1	102.6	102.4	102.2	102.5	102.3	102.1
CCT (K)	6103	4902	4014	6070	4895	4010	6056	4893	4007
CRI	72.9	73.6	73	72.8	73.6	73	72.8	73.6	73.1
Power Factor	1.0000	0.9994	0.9995	0.9981	0.998	0.9981	0.9965	0.9963	0.9965
Test Voltage	120VAC								
Test Power Model	XLG-240-H-AB								

HAZARDOUS LOCATION LED LUMINAIRE EX-Q Spec Sheet

Power and CCT Selectable



Power and CCT Selectable



DIP switch

Operating Instructions

• S1 DIP switch - Red (S1 Power adj.)

The luminaire incorporates a dual-dial power configuration switch enabling three selectable output ratings. Factory default settings and power levels can be customized based on project requirements.

1. Maximum Output (100% nominal power)
Switch configuration: Dial 1 = OFF, Dial 2 = OFF;



Q1: 100W

2. Medium Output (70%-90% of nominal power, depending on specification) Switch configuration: Dial 1 = ON, Dial 2 = OFF



Q1: 80W

3. Minimum Output (50%-70% of nominal power, depending on specification) Switch configuration: Dial 1 = OFF, Dial 2 = ON



• S2 DIP switch - Blue (S2 CCT adj.)

The luminaire incorporates a dual-dial power configuration switch enabling three preset color temperature options. The factory default setting can be customized according to order requirements.

1. Cool white, e.g. 6500K
Switch configuration: Dial 1 = OFF, Dial 2 = OFF



6500K

2. Neutral white, e.g. 5000K
Switch configuration: Dial 1 = ON, Dial 2 = OFF



5000K

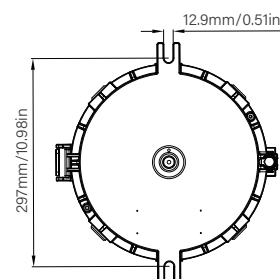
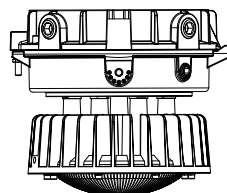
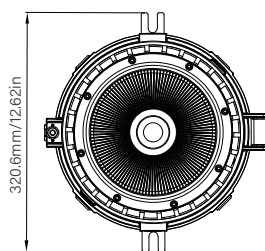
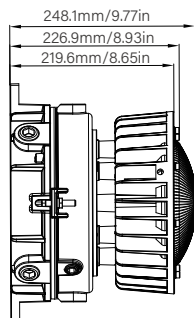
3. Warm white, e.g. 4000K
Switch configuration: Dial 1 = ON, Dial 2 = ON



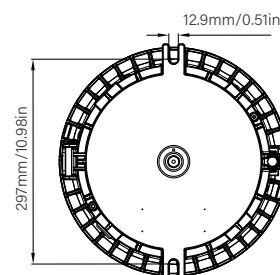
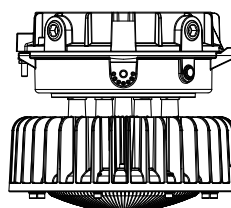
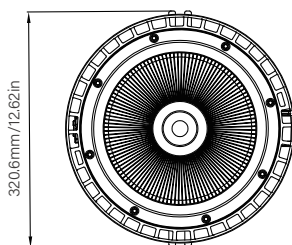
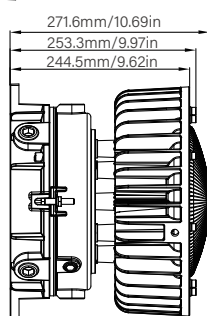
HAZARDOUS LOCATION LED LUMINAIRE EX-Q Spec Sheet

Product Dimensions Unit: mm[inch]

• Q1

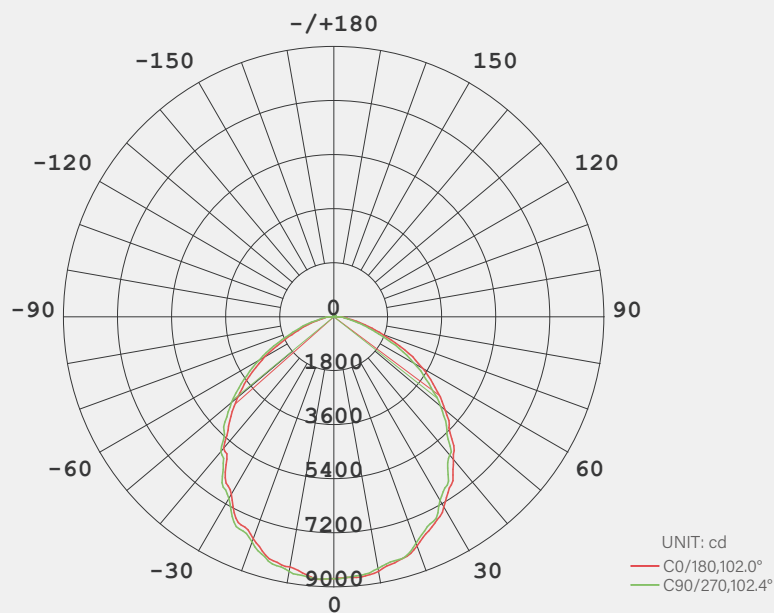


• Q2



Photometric

• 120 Degree



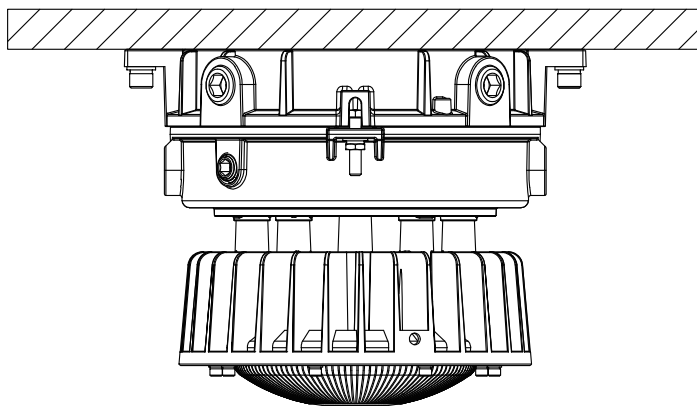
HAZARDOUS LOCATION LED LUMINAIRE EX-Q Spec Sheet

Packing Information

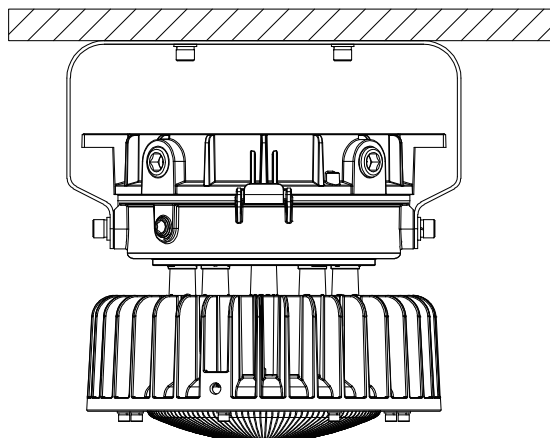
Model	Package Dimensions	Net Weight	Gross Weight	Quantity/Carton
Q1	450x450x300mm/ 17.72x17.72x11.81inch	10.5 kg/23.15 lb	12.5 kg/27.56 lb	1 pc
Q2	450x450x350mm/17.72x17.72x13.78inch	12.6 kg/27.78 lb	15.0 kg/33.07 lb	1 pc

Mounting Methods

- Option 1: Ceiling Mounting

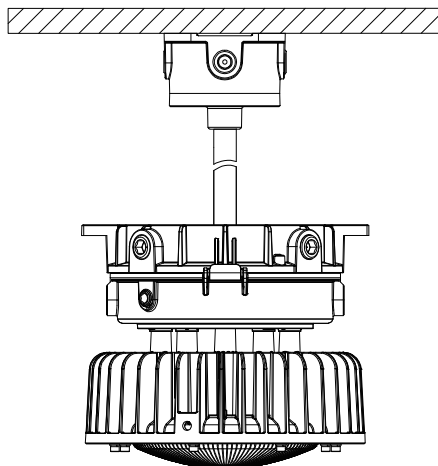


- Option 2: U bracket Mounting

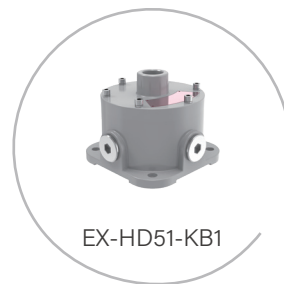
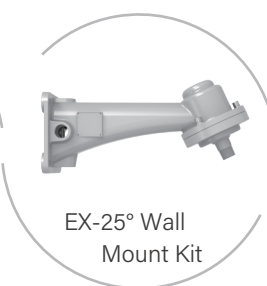
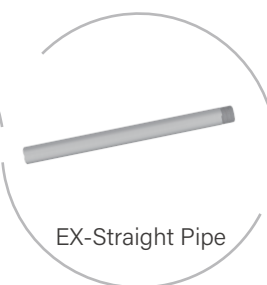
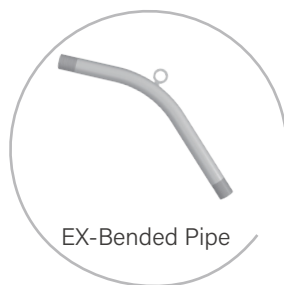


HAZARDOUS LOCATION LED LUMINAIRE EX-Q Spec Sheet

• Option 3: Pendant Mounting



Accessories



HAZARDOUS LOCATION LED LUMINAIRE EX-Q Spec Sheet

Ordering Guide

