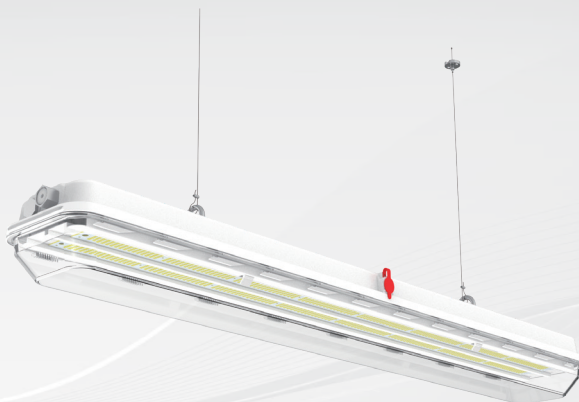


HAZARDOUS LOCATION LED LUMINAIRE EX-RL Spec Sheet



RL2



RL4

EX-RL Spec Sheet

The EX- RL Linear fixture is specifically designed to replace fluorescent lighting in Class I Division 2 hazardous area applications. Manufactured with a high-strength glass-reinforced polyester housing and a polycarbonate cover, the RL series is perfect for long-life reliability and performance in areas prone to impact, corrosion, high vibration and adverse weather. It is available in 2-foot and 4-foot versions, optional with self-contained battery systems for emergency lighting applications for a minimum of 90 minutes of operation. (Contact sales for EM option)

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
- UL1598 Luminaires
- UL1598A Marine
- UL 8750 LED Safety
- DNV
- ABS
- Vibration 3G
- NEMA Type 4X
- IP66
- IK10

Application

- Power Plants
- Heavy Industrials Storage Facility
- Paper mills
- Wastewater Treatment Plants
- Offshore Environments
- Chemical Processing Facility
- Petrochemical Processing Facility
- Metallurgical Industry
- Coal Mine
- Food and Alcohol industry

HAZARDOUS LOCATION LED LUMINAIRE EX-RL Spec Sheet

Benefits & Features



- Adopting the new snap-fit structure design, the luminaire enables easy opening and closing, reduces product weight, and achieves superior performance during vibration testing
- Replaceable LED light strip
- Available in two lengths: 2-feet, 4-feet
- Built-in low voltage Microwave sensor (Optional)
- Self contained battery system (Optional)
- Standard Fixed mounting bracket for surface mount and rope for pendant mount, optional pole mount (purchased separately)
- Interlock kit for quick access to connect and maintenance
- Glass-reinforced polyester housing, excellent for high corrosion applications
- UV Stabilized, impact-resistant fiberglass reinforced polycarbonate lens (clear for standard, frosted for optional)

Key Features and Information

• Electrical

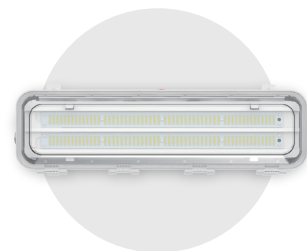
Model	EX-xxxW RL2	EX-xxxW RL4
Selectable Power	20W/30W/40W	40W/50W/60W
Power Model	RL2: SS-55EP-M54BH for 120-347V or VA-40V-054B for 277-480VAC RL4: SS-75EP-M54BH for 120-347V or HVG-100-48AB for 277-480VAC	
Input Voltage	120-347VAC or 277-480VAC	
Input Frequency	50/60Hz	
Power Factor @120V	> 0.95	
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-RL Spec Sheet

• Optical

Model	EX-xxxW RL2	EX-xxxW RL4
Selectable Power	20W/30W/40W	40W/50W/60W
Lumens Per Watt	180lm/W	180lm/W
Lumen Output	3600–7200lm	7200–10800lm
Selectable CCT	4000K/5000K/6500K	
CRI	80	
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 RL2/ RL4
Housing Material	FRP (Fiber Reinforced Plastics)
Lens Material	Transparent fiberglass-reinforced polycarbonate (standard) Diffuse fiberglass-reinforced polycarbonate (optional)
Gasket Material	Silicone Rubber
Cover	PC
Protection Rating	Ingress protection: IP66 Impact protection: IK10
Mounting Options	Surface mount (Standard) ; Rope mount (Standard) ; Pole mount (Purchase separately)
Cable Entries	3/4" NPT
Warranty	5-year limited warranty for fixture ; 3-year limited warranty for battery backup

• Ambient Temperature

Model	Input Voltage	Power Model	Temperature Class
RL2	120-347VAC	SS-55EP-M54BH	T5:-40°C to +60°C (CIDII)
	277-480VAC	VA-40V-054B	
RL4	120-347VAC	SS-75EP-M54BH	T5:-40°C to +60°C (CIDII)
	277-480VAC	HVG-100-48AB	

HAZARDOUS LOCATION LED LUMINAIRE EX-RL Spec Sheet

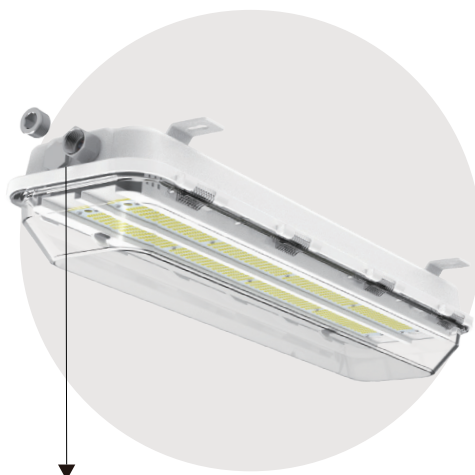
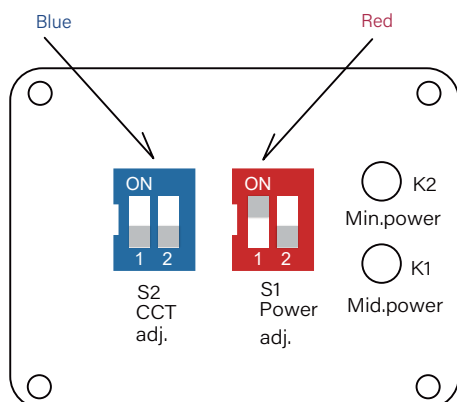
• Electrical specification (actual measurement)

Model	EX-40WRL2D50D120AHA40T								
Test Power	40W			30W			20W		
Test CCT (K)	6500	5000	4000	6500	5000	4000	6500	5000	4000
Lumens Per Watt (lm/W)	170.59	174.5	172.09	170.35	173.73	172.68	167.23	169.78	170.22
Lumen Output (lm)	7095.4	7133.6	7161.8	5395.7	5421.3	5462.9	3417.3	3418.3	3475.6
Beam Angle	116.1	116.2	116.3	116.1	116.2	116.3	116.1	116.3	116.4
CCT (K)	6378	5021	4060	6356	5019	4055	6347	5019	4055
CRI	74.8	75.4	75	74.7	75.4	75.1	74.8	75.4	75.1
Power Factor	0.9988	0.9988	0.9988	0.9986	0.9986	0.9987	0.9971	0.9971	0.9971
Test Voltage	120VAC								
Test Power Model	SS-55EP-M54BH								

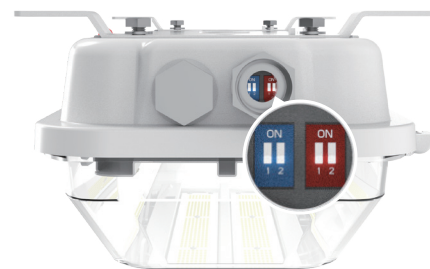
Model	EX-60WRL4D50D120AHH10T								
Test Power	60W			50W			40W		
Test CCT (K)	6500	5000	4000	6500	5000	4000	6500	5000	4000
Lumens Per Watt (lm/W)	169.58	171.51	168.87	170.1	171.78	169.96	178.05	180.91	181.28
Lumen Output (lm)	10453	10385	10431	8604.8	8567.8	8652.5	6950.1	6922.6	7071.7
Beam Angle	116.4	116.2	115.7	116.5	115.9	115.3	116.6	115.9	116.5
CCT (K)	6302	5196	4098	6290	5213	4098	6287	5233	4092
CRI	83.7	83.7	82.3	83.6	83.7	82.4	83.7	83.7	82.4
Power Factor	0.9994	0.9994	0.9994	0.9991	0.9991	0.9991	0.9985	0.9984	0.9985
Test Voltage	120VAC								
Test Power Model	SS-75EP-M54BH								

HAZARDOUS LOCATION LED LUMINAIRE EX-RL 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;



RL2: 40W

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



RL2: 30W

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



RL2: 20W

• 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

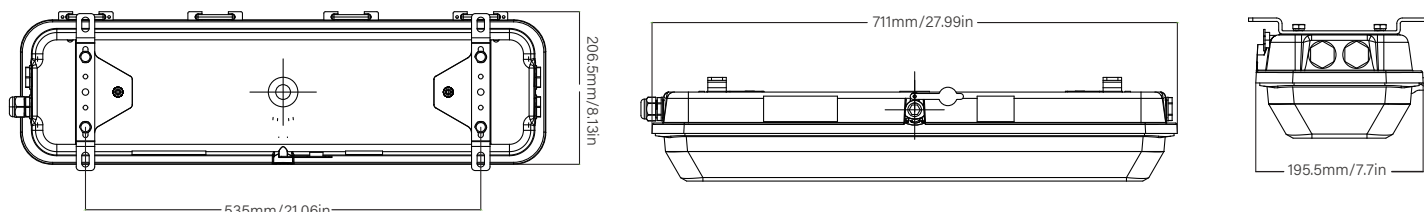


4000K

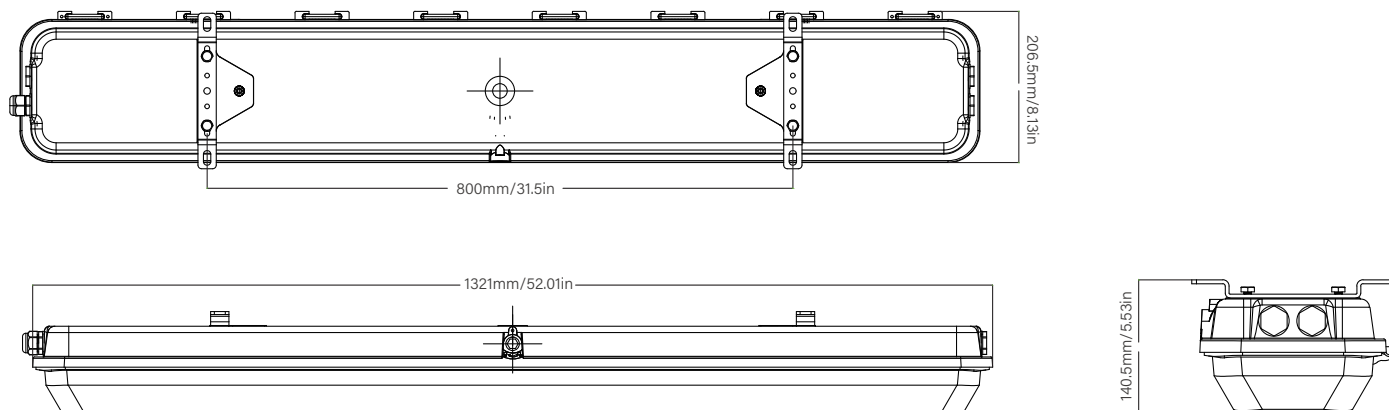
HAZARDOUS LOCATION LED LUMINAIRE EX-RL Spec Sheet

Product Dimensions Unit: mm[inch]

• RL2



• RL4



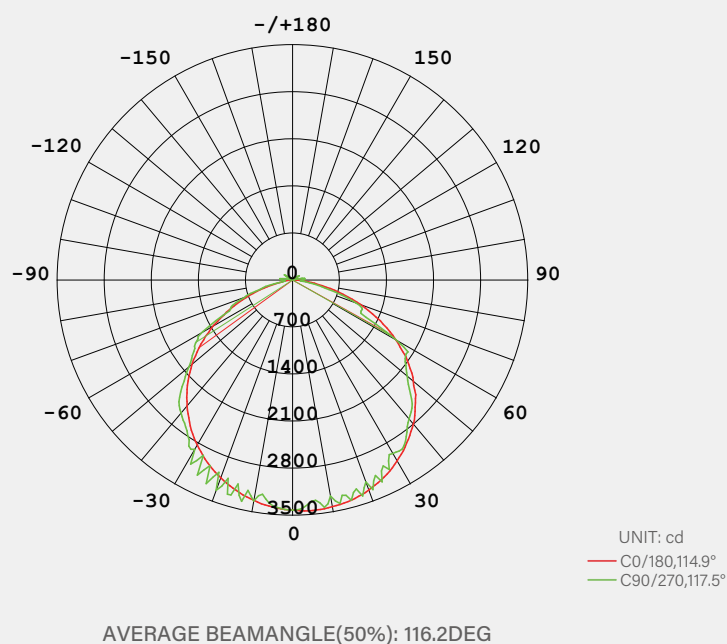
Packing Information

Model	Package Dimensions	Net Weight	Gross Weight	Quantity/Carton
RL2	880x270x200mm/34.65x10.63x7.87inch	4 kg/ 8.82 lb	7.3 kg/ 16.09 lb	1 pc
RL4	1480x270x200mm58.27x10.63x7.87inch	8 kg/ 17.64 lb	13.6 kg/ 29.98 lb	1 pc

HAZARDOUS LOCATION LED LUMINAIRE EX-RL Spec Sheet

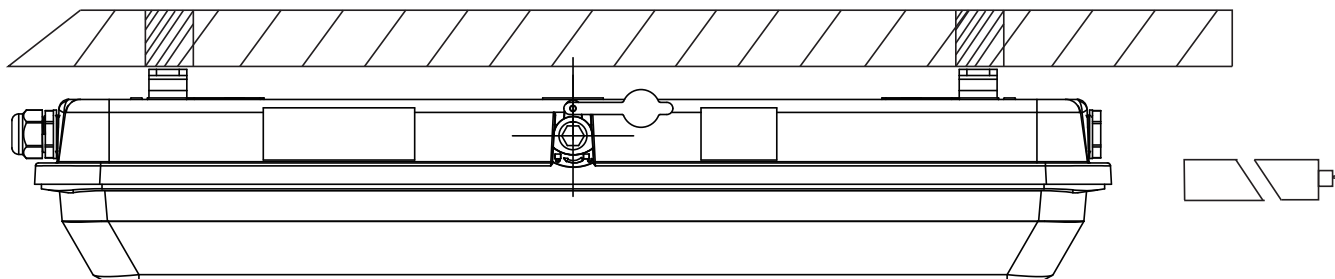
Photometric

- 120 Degree



Mounting Methods

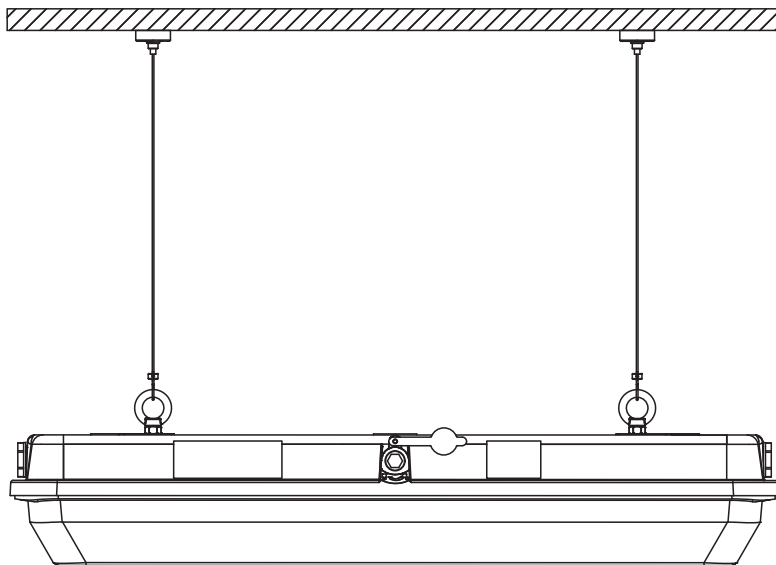
- Option 1: Surface Mounting



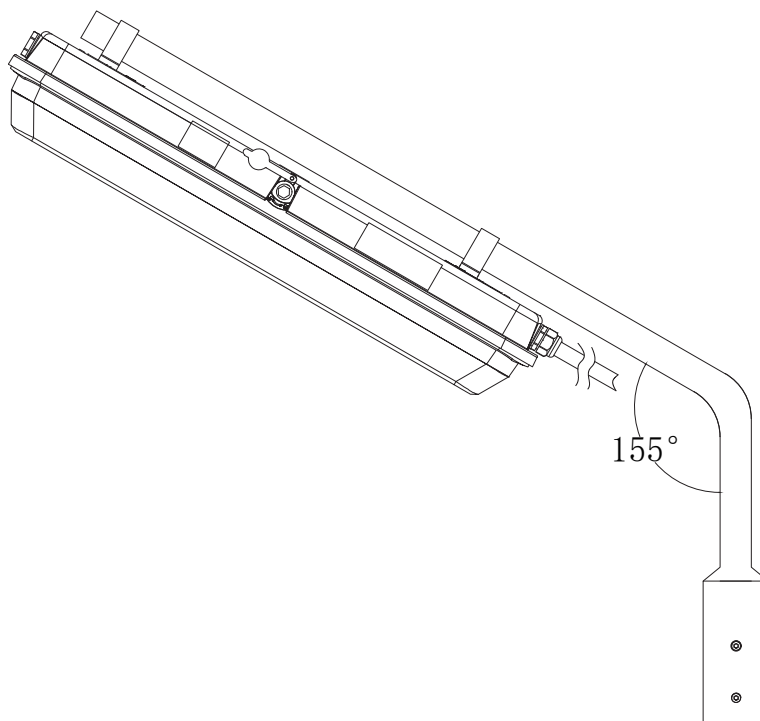
HAZARDOUS LOCATION LED LUMINAIRE EX-RL Spec Sheet

Mounting Methods

- Option 2: Rope Mounting

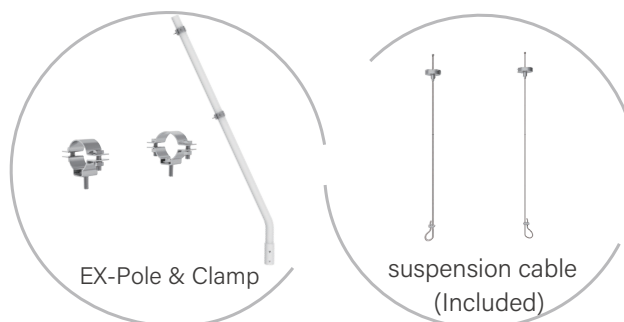


- Option 3: Pole Mounting



HAZARDOUS LOCATION LED LUMINAIRE EX-RL Spec Sheet

Accessories



Ordering Guide

