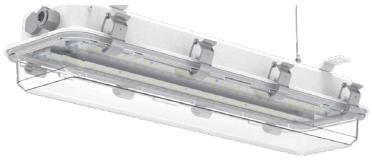
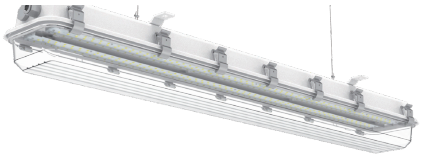
HLRS-V-T

Hazardous Location LED Luminaire, R Series, Selectable Power and CCT, 20 W to 60 W, IP66

Hazardous Location LED Luminaire



R2



R4

The R Series LED luminaire is designed for use in hazardous locations where flammable gases, vapors or liquids may be present during normal facility operations. Combining the style and design of new LED technology with the ruggedness and durability of a hazardous location fixture, it is ideal for retrofit of existing HPS / MH fixtures, offering higher efficacy for energy savings, lower maintenance costs and shorter payback. Power and CCT are selectable on the luminaire. The optional backup battery system provides a minimum of 90 minutes of operation after AC power failure (contact Paraflex for options).

Features

- Selectable power and CCT (DIP switch)
- Fixed bracket: surface mount and rope / pendant mount
- SUS304 stainless steel housing (SUS316 optional)
- Latches for waterproof sealing and quick release
- Replaceable LED light strip
- Excellent optics, longer spacing between luminaires
- UV-stabilized, impact-resistant FRP polycarbonate lens (clear / frosted)
- Available in two lengths: 2 feet and 4 feet
- Low voltage microwave motion sensor (optional)

Application

- Locations requiring continuous, consistent light levels
- Marine applications: engine rooms, decks, walkways
- Pulp and paper production facilities
- Water and wastewater treatment facilities
- Petrochemical facilities
- Offshore environments

Compliance

- UL 844 Hazardous Locations
- Class I Division 2, Groups A, B, C, D
- Class II Division 1, Groups E, F, G
- Class II Division 2, Groups F, G
- Class III
- UL 1598 Luminaires
- UL 1598A Marine Outside Type
- UL 8750 LED Safety
- UL 924 Emergency Lighting
- Vibration 3G
- NEMA 4X
- ABS
- IP66
- IK10

Electrical

Model	R2 (2 ft)	R4 (4 ft)
Selectable power	20W / 30W / 40W	40W / 50W / 60W
Input voltage	120-347VAC or 277-480VAC (see ordering guide)	
Frequency / power factor	50/60Hz / > 0.95 @120V	
Optional emergency	Minimum 90 minutes (contact Paraflex for options)	
Service life / salt spray	Up to 50,000 hours / 500 hours	
Surge protection	L/N-PE 6kV, L-N 6kV	L/N-PE 6kV, L-N 6kV (4kV / 2kV on 277-480V driver)
Dimming	1-10V dimming wiring included (separate 1-10V DC dimming circuit required)	

Optical

Model	R2 (2 ft)	R4 (4 ft)
Selectable power	20W / 30W / 40W	40W / 50W / 60W
Lumens per watt	180lm/W	
Lumen output	3,600-7,200lm	7,200-10,800lm
Selectable CCT / CRI	4000K / 5000K / 6500K / > 70	
Beam angle	120°	
LED	Long-life, high-efficacy, discrete surface-mount 2835 LEDs; 100,000-hour lifespan based on IES LM-80 and TM-21	

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Hazardous Location LED Luminaire, R Series, Selectable Power and CCT, 20 W to 60 W, IP66

Mechanical

Housing material	Stainless steel housing with baked-on white RAL9016 epoxy finish
Lens material	Clear polycarbonate (standard); frosted polycarbonate (optional)
Gasket / hardware	Silicone rubber / Stainless steel
Protection	IP66 / IK10
Mounting	Surface mount (standard); pendant / rope mount (standard); pole mount (purchased separately)
Cable entries	2 x M20, 2 x 3/4" NPT
Warranty	5-year limited warranty for fixture; 3-year limited warranty for battery backup

Ambient Temperature

Temperature class	T5: -40°C to +60°C (Class I Div 2); T5: -40°C to +50°C (Class II Div 1 / Class II Div 2 / Class III)
Applies to	R2 and R4, input 120-347VAC and 277-480VAC

Power and CCT Selection (DIP switches)

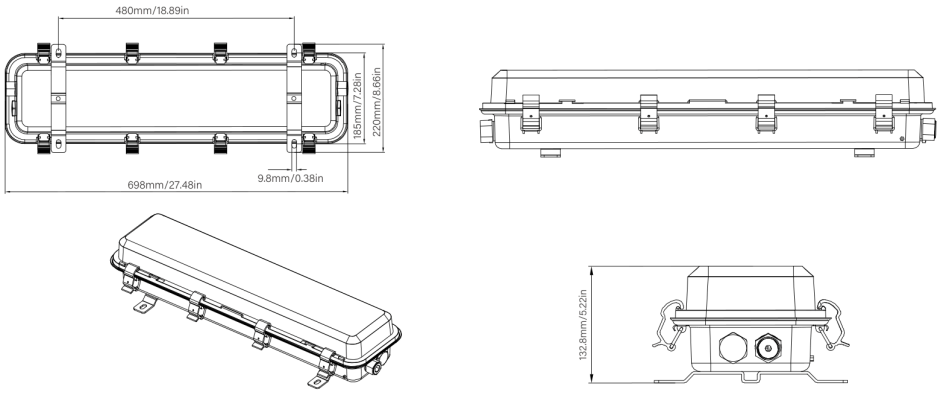
S1 power	Dial 1	Dial 2	R2	R4
Maximum output	OFF	OFF	40W	60W
Medium output (70-90%)	ON	OFF	30W	50W
Minimum output (50-70%)	OFF	ON	20W	40W

S2 CCT	Dial 1	Dial 2	CCT
Cool white	OFF	OFF	6500K
Neutral white	ON	OFF	5000K
Warm white	ON	ON	4000K

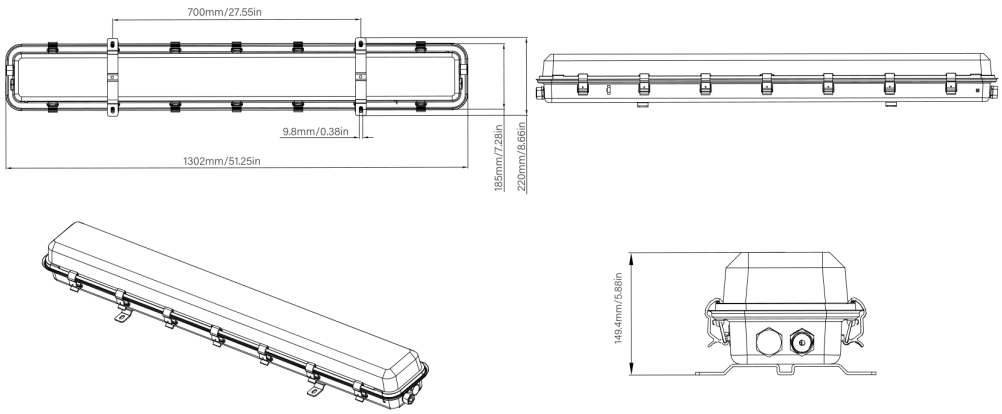
Factory default settings and power levels can be customized according to order requirements.

Dimensions, mm [inch]

R2



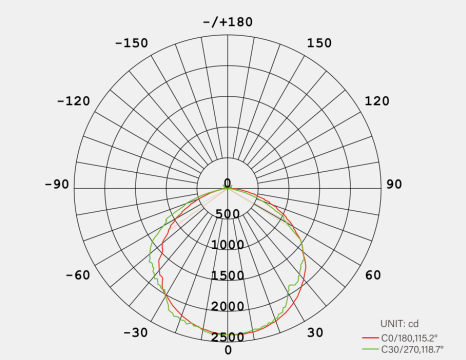
R4



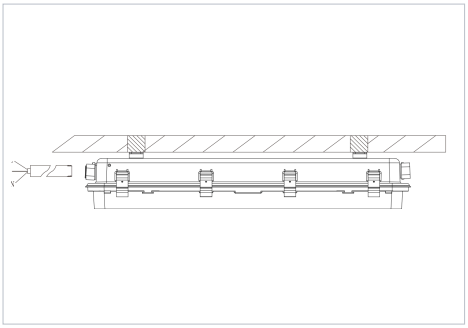
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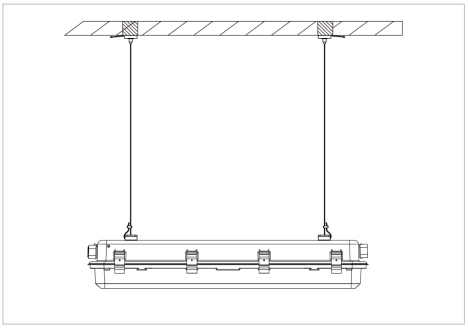
Photometric



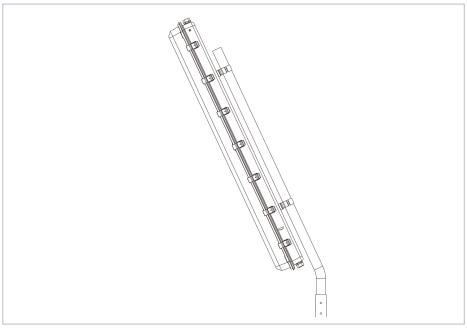
Mounting Methods



1. Surface mounting



2. Pendant / rope mounting



3. Pole mounting

Accessories



Pole (purchased separately)





Pole clamp (purchased separately)



Suspension cable (included)

Ordering Guide

Example: HLRS-V-T-40W-R2-D-50-D120-A-P-M-E55-T-S-E

#	Field	Options
1	**Model**	HLRS-V-T (R Series hazardous location luminaire, selectable power and CCT)
2	**Input wattage rating**	40W: 20 / 30 / 40W (R2) 60W: 40 / 50 / 60W (R4) (selectable)
3	**Housing length**	R2 = 2 feet R4 = 4 feet
4	**Dimming**	Blank = No dimming function D = Dimmable
5	**LED color temperature**	50 = 4000K / 5000K / 6500K (selectable)
6	**Beam angle**	D120 = 120°
7	**Bottom frame**	A = Bottom frame A
8	**Mounting method**	Blank = Ceiling or surface mount R = Rope or pendant mount P = Pole mount
9	**Input voltage**	H = High voltage (200-480V or 277-480V) M = Middle voltage (120-347V) Blank = Low voltage (120-277V)
10	**LED driver**	E55 = SS-55EP-M54BH A40 = VA-40V-054B EP75 = SS-75EP-M54BH H10 = HVG-100-48AB
11	**Dual tunable**	Blank = Without tunable T = With tunable
12	**Sensor**	S = With low voltage motion sensor Blank = Without sensor
13	**Backup power**	Blank = Without backup power E = With backup power

Disclaimer:
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Paraflex Industries 2006, Inc.
1346 How Lane, North Brunswick, NJ 08902
HLRS-V-T | Rev 01 | 10/18/2026
info@paraflexltg.com
paraflexltg.com