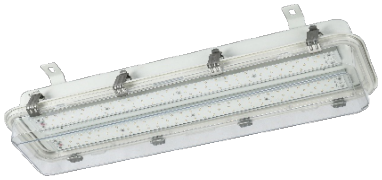
HLRS-V

Hazardous Location LED Luminaire, R Series, 20 W to 60 W, 2 ft and 4 ft, IP66

Hazardous Location LED Luminaire



R2



R4

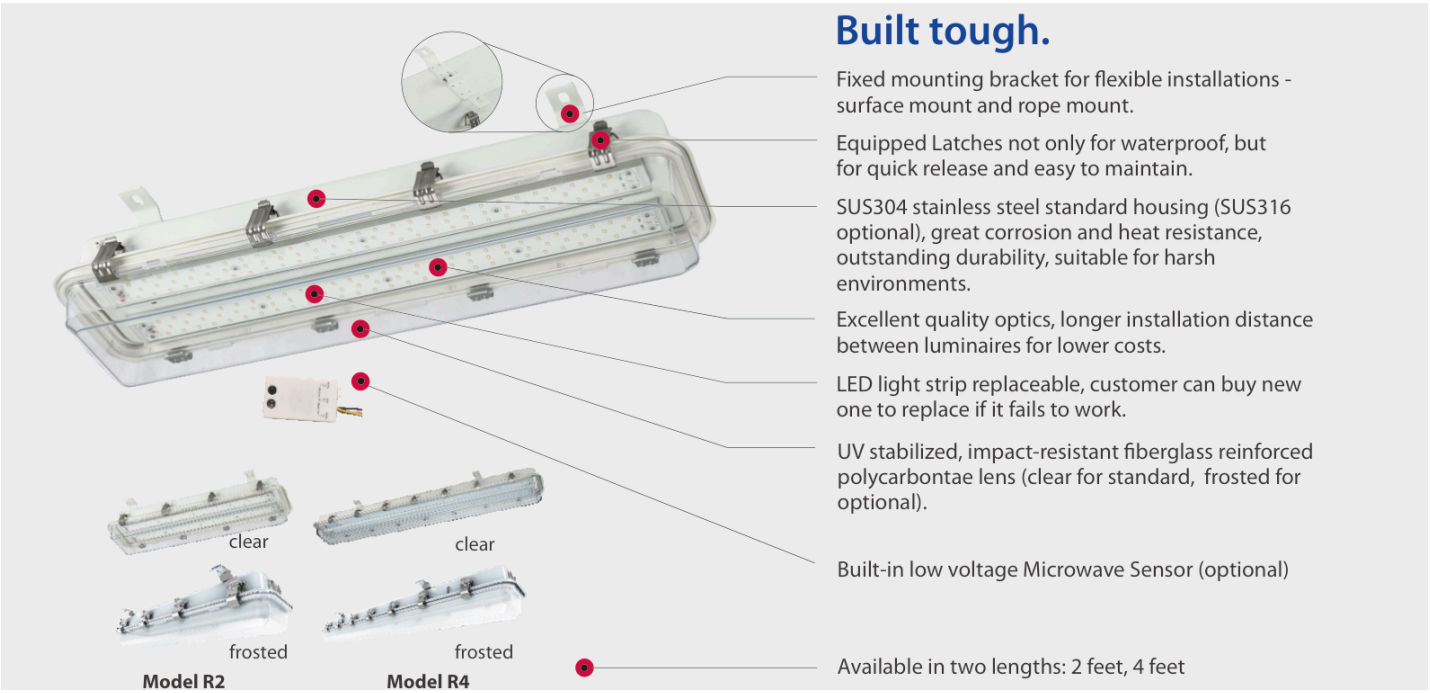
The R Series LED luminaire is designed for use in hazardous locations where flammable gases, vapors or liquids may be present during normal facility operations. Combining the style and design of new LED technology with the ruggedness and durability of a hazardous location fixture, it is ideal for retrofit of existing HPS / MH fixtures, offering higher efficacy for energy savings, lower maintenance costs and shorter payback.

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
- Class I, Zone 2, Group IIC
- ATEX (Cert. CSANe 23ATEX1213X): II 3GD
- Ex db ec IIC T6/T5 GC
- Ex tC IIIC T80°C/T95°C DC
- UL 1598 Luminaires
- UL 1598A Marine Outside Type
- UL 8750 LED Safety
- UL 924 Emergency Lighting
- DLC 5.1
- ETL
- ABS
- IP66
- IK10
- 3G Vibration
- 1200 Hours Salt spray



HLRS-V

Hazardous Location LED Luminaire, R Series, 20 W to 60 W, 2 ft and 4 ft, IP66

Electrical

Model	R2 (2 ft)	R4 (4 ft)
Rated power, normal	20 / 30 / 36W	30 / 40 / 50 / 60W
Rated power, emergency	10 / 20 / 30 / 40W	CID2: 30 / 40 / 50 / 60W; Zone 2: 30 / 40 / 50W
Input voltage	120-347VAC / 200-480VAC	
Frequency / power factor	50/60Hz / > 0.9	
Driver efficiency / surge	90% min / 4kV	
Dimming	Optional; 0-10V dimming control wiring (separate 0-10V DC dimming circuit required)	
Interconnection	Maximum total wattage for interconnection is 150W	

Optical

Model	R2 (2 ft)	R4 (4 ft)
Lumen output, normal	3,000 / 4,500 / 5,400lm	4,500 / 6,000 / 7,500 / 9,000lm
Efficacy	150lm/W	
CCT (Class I Div 2)	2700K / 4000K / 5000K	
CCT (Zone 2)	2700K / 3000K / 3500K / 4000K / 5000K / 6000K / 6500K	
CRI / beam angle	> 80 / 120°	
Lifespan	50,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations	

Environmental

Ambient temperature, normal	-40°C to +60°C for T6 / T80°C
Ambient temperature, emergency	-10°C to +60°C for T6 / T80°C

Mechanical

Fixture length	R2: 2 feet; R4: 4 feet
Housing material	Standard: SUS304 stainless steel; optional: SUS316 stainless steel
Lens material	Standard: clear fiberglass-reinforced polycarbonate; optional: diffuse fiberglass-reinforced polycarbonate
Gasket / latches	Silicone rubber / Stainless steel
Fixture color / finish	Milky white / Epoxy powder coating
Mounting	Ceiling, rope, pole
Protection	IP66 / IK10 / 3G vibration / 1200 hours salt spray
Cable entries	4 x M20 (side x1 with cable gland, side x3 with stopping plugs); same for emergency models
Wiring	Suitable for dead end, through feed or single-ended "T" wiring
Warranty	5-year standard warranty for fixture; 3-year standard warranty for battery backup

Emergency (Class I, Division 2)

Emergency driver model	EM-15W-HL
Input rating	120-277Vac, 50/60Hz, Max. 100mA, Max. 7W
Output rating	25-55Vdc, constant wattage 15W
Charge time	24 hours
Emergency run time	3 hours
Response time	< 550mS
Rated ambient temp.	0°C to 60°C
Battery life expectancy	3 years

CAUTION: Sealed unit. Battery not replaceable. Replace entire unit when necessary.

Emergency (Zone 2)

Input rating	120-270Vac, 50/60Hz
THD / PF / input current	THD 20% max / PF 0.9 min / 0.6A max
Input power	10-50W
Output rating	28-50Vdc
Emergency power	8W
Battery	Lithium
Emergency run time	3 hours
Response time	1 second max
Charge time	24 hours min
Battery life expectancy	5 years
Ambient temperature	-10°C to +60°C

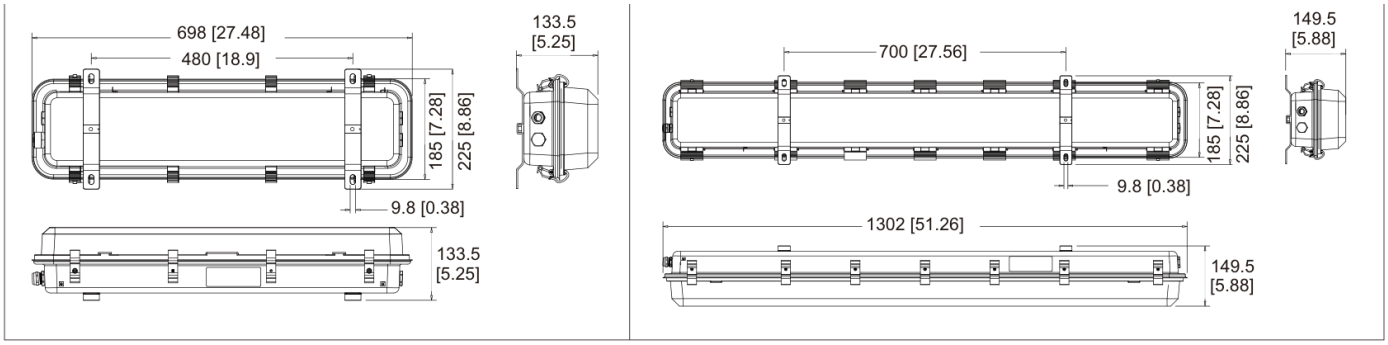
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Paraflex Industries 2006, Inc.
1346 How Lane, North Brunswick, NJ 08902
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info@paraflexltg.com
paraflexltg.com

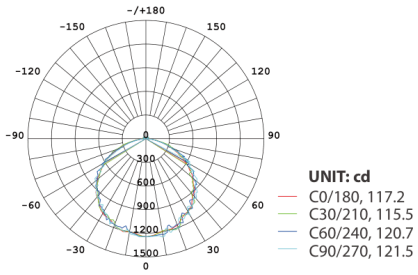
HLRS-V

Hazardous Location LED Luminaire, R Series, 20 W to 60 W, 2 ft and 4 ft, IP66

Dimensions, mm [inch]

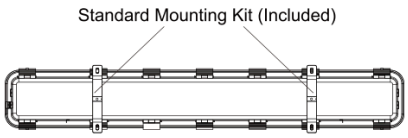
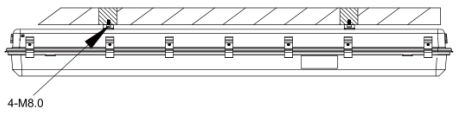
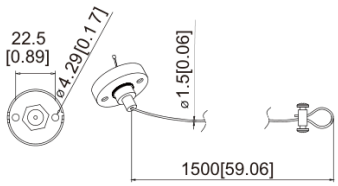
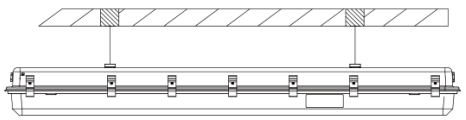
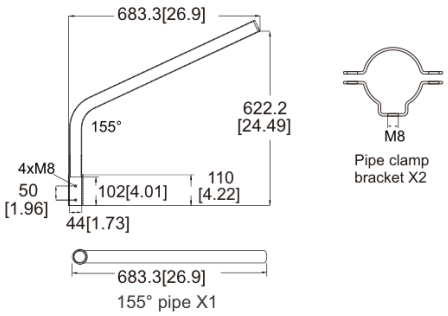
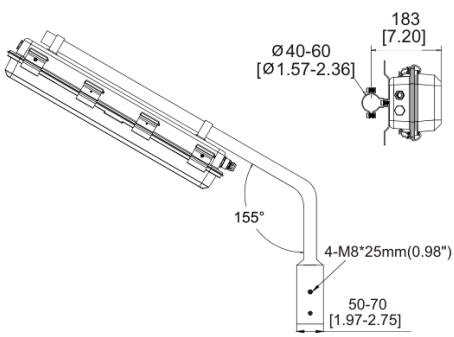


Photometric



AVERAGE BEAM ANGLE(50%):
118.7 DEG

Mounting Methods

Ceiling Mount	Provided with two stainless steel mounting kits welded at the back of housing		
Rope Mount	Provided with two stainless steel wire. Measured1mm diameter		
Pole Mount	(1) 155° pipe (2) Pipe clamp bracket		

HLRS-V

Hazardous Location LED Luminaire, R Series, 20 W to 60 W, 2 ft and 4 ft, IP66

Ordering Guide (for Class I, Division 2)

Example: HLRS-V-20W-R2-N-40-D120-R

#	Field	Options
1	**Model**	HLRS-V (R Series hazardous location luminaire)
2	**Rated input wattage**	R2 normal: 20 / 30 / 36W R4 normal: 30 / 40 / 50 / 60W R2 emergency: 10 / 20 / 30 / 40W R4 emergency: 30 / 40 / 50 / 60W
3	**Housing length**	R2 = 2 feet R4 = 4 feet
4	**Dimming**	Y = Dimmable N = Non-dimmable
5	**CCT**	27 = 2700K 40 = 4000K 50 = 5000K
6	**Beam angle**	D120 = 120°
7	**Mounting means**	C = Ceiling or wall mount R = Rope mount P = Pole mount

Ordering Guide (for Zone 2)

Example: HLRS-V-20W-R2-Y-40-D120

#	Field	Options
1	**Model**	HLRS-V (R Series hazardous location luminaire)
2	**Rated power**	R2 normal: 20 / 30 / 36W R4 normal: 30 / 40 / 50W R2 emergency: 10 / 20 / 30 / 40W R4 emergency: 30 / 40 / 50W
3	**Housing length**	R2 = 2 feet R4 = 4 feet
4	**Sensor**	Y = No sensor
5	**CCT**	27 = 2700K 30 = 3000K 35 = 3500K 40 = 4000K 50 = 5000K 60 = 6000K 65 = 6500K
6	**Beam angle**	D120 = 120°
7	**Type of glass**	Blank = Transparent PC F = Diffuse PC

DLC: For the exact DLC listing and DLC SKU, please contact Paraflex.

Disclaimer:

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Paraflex Industries 2006, Inc.
1346 How Lane, North Brunswick, NJ 08902
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info@paraflexltg.com
paraflexltg.com