HLRL-V

Hazardous Location LED Luminaire, RL Series, 10 W to 100 W, IP66

Hazardous Location LED Luminaire



RL2



RL4

The RL Series linear vapor-tight LED luminaire is designed for use in hazardous locations where flammable gases, vapors or liquids may be present during normal facility operations. The combination of the style and design of new LED technology with the ruggedness and durability of a hazardous location fixture makes it ideal for retrofit of existing HPS / MH fixtures and offers higher efficacy for energy savings, lower maintenance costs and shorter payback. The optional battery backup system provides a minimum of 90 minutes of operation when AC power is lost in an emergency (contact Paraflex for options).

Features

- UV-stabilized, impact-resistant FRP polycarbonate lens (clear / diffuse)
- Available in two lengths: 2 feet and 4 feet
- Safety interlock kit design
- Light distribution 120 degrees
- 0-10V dimming
- Replaceable LED light strip
- Water-proof, vapor-proof, dust-proof and corrosion resistant
- Optional emergency backup (self-contained, push-to-test button and LED charging indicators)
- New clip design for convenient opening and closing; prevents the lampshade from falling
- Built-in low voltage microwave sensor (optional)

Application

- Power Plants
- Heavy industrial storage facilities
- Paper mills
- Wastewater treatment plants
- Loading docks / platforms
- Offshore environments
- Chemical processing facilities
- Petrochemical processing facilities
- Metallurgical industry
- Coal mine
- Food and alcohol industry

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
- UL 8750 LED Safety
- Vibration 3G
- NEMA 4X
- ABS
- IP66
- IK10

Cover Options and Safety Features



Clear



Clear (ribbed)



Diffuse



Diffuse (ribbed)



Safety interlock kit and new clip design



Microwave sensor (optional)

Electrical

Model	RL2 (2 ft)	RL4 (4 ft)
Rated power	10 / 12 / 15 / 18 / 20 / 25 / 30 / 36 / 40 / 50 / 60W	20 / 25 / 30 / 36 / 40 / 48 / 50 / 54 / 60 / 70 / 80 / 100W
Input voltage	100-277VAC; 200-480VAC	
Frequency / power factor	50/60Hz / > 0.9	
Emergency function	Optional self-contained battery backup, minimum 90 minutes (push-to-test button and LED charging indicators)	

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Optical

Model	RL2 (2 ft)	RL4 (4 ft)
Lumen output (normal mode)	1,300-7,800lm	2,600-13,000lm
Luminous efficacy	130lm/W	
CCT / CRI	2700K / 4000K / 5000K / 5700K / 6500K / Ra > 70	
Beam angle	120°	
Dimming	0-10V dimming	
LED lumen maintenance	L70 > 150,000 hours @ 65°C	

Mechanical

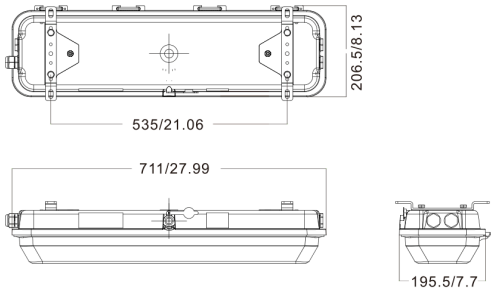
Structural feature	Safety interlock kit design
Housing material	FRP (fiber reinforced plastics)
Lens material	Standard: transparent fiberglass-reinforced polycarbonate; optional: diffuse fiberglass-reinforced polycarbonate
Cover / gasket	PC / Silicone rubber
Latches / clips	Aluminum alloy
Color / finish	Milky white / Epoxy powder coating
Protection	IP66 (wet location) / IK10 / 3G vibration / 1200 hours salt spray
Mounting	Ceiling, rope and pole mount
Cable entries	Standard: 4 x NPT3/4 (side x1 open, side x3 plugs); with emergency: 3 x NPT3/4 (side x1 open, side x2 plugs) + self-test button
Warranty	5-year standard warranty for fixture; 3-year standard warranty for battery backup

Environmental

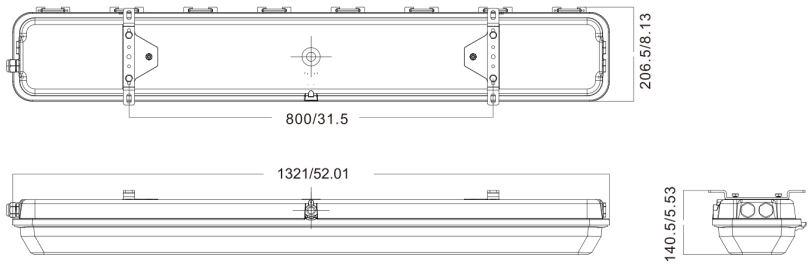
RL2 (20W)	-40°C to +65°C for T5
RL4 (40W)	-40°C to +60°C for T5
Power supply	100-277V (refer to the UL certificate for exact temperature and T-code information)

Dimensions, mm [inch]

RL2



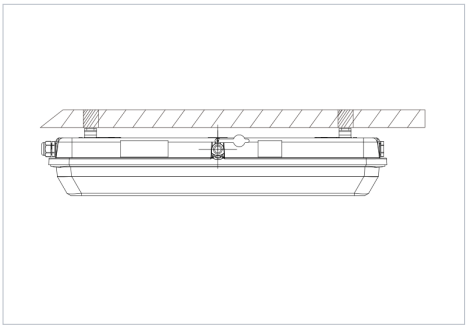
RL4



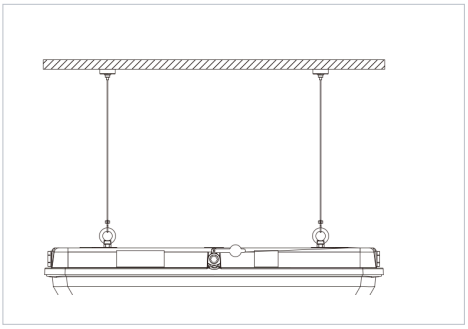
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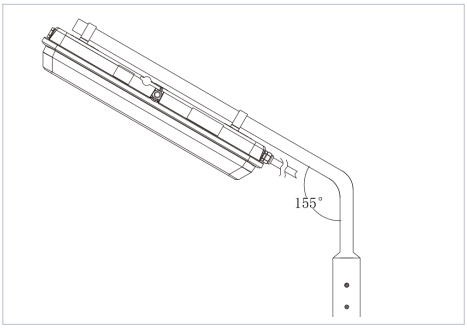
Mounting Methods



1. Ceiling mounting



2. Rope mounting



3. Pole mounting

Ordering Guide

Example: HLRL-V-40W-RL2-Y-27-D-2-H-H65

#	Field	Options
1	**Model**	HLRL-V (RL Series hazardous location luminaire)
2	**Wattage**	RL2: 10 / 12 / 15 / 18 / 20 / 25 / 30 / 36 / 40 / 50 / 60W RL4: 20 / 25 / 30 / 36 / 40 / 48 / 50 / 54 / 60 / 70 / 80 / 100W
3	**Series**	RL2 = 2 feet RL4 = 4 feet
4	**Dimming**	Y = Dimmable
5	**CCT**	27 = 2700K 40 = 4000K 50 = 5000K 57 = 5700K 65 = 6500K
6	**Beam angle**	D = 120°
7	**Tank**	M = MRL tank N = NRL tank U = URL tank W = WRL tank Blank = Original tank
8	**Diffuser**	Blank = Original diffuser B = NRL diffuser
9	**Mounting**	Blank = Ceiling / wall mount R = Rope / pendant mount P = Pole mount
10	**LED module**	2 = 2835 LED
11	**Input voltage**	H = 277-480Vac Blank = 100-277V or 120-277Vac M = 120-347Vac
12	**Driver**	Example: H65 (refer to vendor report for detailed driver data; contact Paraflex)
13	**Backup power**	Blank = Without backup power E = With backup power

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