

ARS

R Series Explosion Proof Linear Light

Product Description:

The EX-R series linear vapor tight is designed for use in hazardous locations that feature the presence of flammable gases, vapors, or liquids 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 and offers higher efficacy for energy savings, lower maintenance costs and quicker paybacks. The optional battery backup system provides a minimum of 90 minutes operation after AC power is lost during an emergency. It operates with 120 or 277V dual voltage.

Certifications:

- •UL844– 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
- •UL 8750 Light Emitting Diode (LED) Equipment for use in Lighting Product
- •UL924 Emergency Lighting Equipment
- DLC 5.1
- ABS

IP66 IK10 1200 hours Salt spray

ATEX Marking:

🕼 II 2GD

Ex db eb mb IIC T6/T5 Gb

Ex tb IIIC T80°C/T95°C Db IP66

IECEx Marking:

Ex db eb mb IIC T6/T5 Gb Ex tb IIIC T80°C/T95°C Db IP66

Features:

- •UV stabilized, impact-resistant fiberglass reinforced polycarbonate lens.
- Available in two and four foot lengths.
- Ceiling, rope and pole mount
- Suitable for dead end, through feed* or single-ended "T" wiring
- Maximum total wattage for interconnection is 150 W
- Operating ambient: -40°C to +50°C
- T-rating of T5 / T6
- Replaceable LED light strip
- Optional emergency battery back-up (self-contained min. 90 minute with Push-to-test button and LED charging indicators)

Applications:

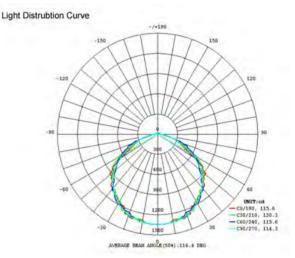
- Locations requiring continuous and consistent light levels.
- Marine applications, such as engine rooms, decks and walkways.
- Pulp and paper production facilities.
- Water/wastewater treatment facilities.
- Petrochemical facilities.





(UL)^{US}

Photometric:



Ordering Information:

Ex	-30W	R2	Ν	50	D120	С	Х	XX
1	2	3	4	5	6	7	8	9

1. Model Series	2. Wattage	3. House Length	4. For All Luminaires	5. Color Temp.
Explosion-proof Lig	ht -20: 20W -30: 30W -40: 40W -50: 50W -60: 60W	R2: 2 feet R4: 4 feet	N: 0-10V Dimming AC120-277V 50/60Hz	27: 2700K 40: 4000K 50: 5000K

6. Beam Angle	7. Mounting Means	8. Lens Type*	9. Emergency Back Up*	
D120: 120°	C: Ceiling mount R: Rope mount P: Pole mount	Blank=Transparent PC F = Diffuse PC	Blank=w/o EM EM = w/ EM	

*: Suffix not within nomenclature as per UL Certification, for marketing purpose only

Warranty:

- 3-Year Standard Warranty for Battery Backup and 5-Year Standard Warranty for Fixture
- 50,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations

Warehouse-Lighting.com 2750 South 163rd St New

Berlin, WI 53151

Warehouse-Lighting.com Phone: 888-454-4480 info@warehouse-lighting.com

th 163rd St New

Technical Parameter:

Note: All values are typical (tolerance +/- 10%)

Electrical

Specif	ication	Ex-20WR2	Ex-30WR2	Ex-40WR2	Ex-50WR4	Ex-60WR4	
Rated Power		20W	30W	40W	50W	60W	
Input V	oltage	AC120-277V					
Input F	requency	50/60Hz					
Input C	urrent	0.17/0.08A	0.26/0.12A	0.34/0.15A	0.42/0.19A	0.5/0.22A	
THD	AC120V	1.29%	1.56%	1.38%	1.47%	1.89%	
עחו	AC277V	4.01%	4.37%	3.92%	3.24%	5.31%	
Power	Factor	> 0.9					
Driver I	Efficiency	≥ 90%					
Dimming Driver includes dimming control wiring for 0-10V dimming systems Requires separate 0-10V DC dimming circuit							
Surge I	Protection	4kV					

Optical

Specification	Ex-20WR2	Ex-30WR2	Ex-40WR2	Ex-50WR4	Ex-60WR4	
Lumen Output	2730lm	4012Im	5067lm	7024lm	8381lm	
Lumens Per Watt*	136.5Im/W					
Beam Angle	120°	120°				
Correlated Color Temperature(CCT)	2700K/4000K/5000K					
Color Rendering Index (CRI)	Ra=83	Ra=83	Ra=84	Ra=84	Ra=85	



Technical Parameter:

Note: All values are typical (tolerance +/- 10%)

Mechanical

Specification	Ex-20WR2	Ex-30WR2	Ex-40WR2	Ex-50WR4	Ex-60WR4		
Housing Material	SUS 304 stain	less steel					
Lens Material		Transparent fiberglass-reinforcedpolycarbonate (standard) Diffuse fiberglass-reinforcedpolycarbonate (optional)					
Gasket	Silicone Rubb	Silicone Rubber					
Latches/Clips	Aluminum allo	Aluminum alloy					
Color	Milky White	Milky White					
Finish	Epoxy powder	coating					
Protection	IP66/IK10/3G V	ibration/1200hrs sa	alt spray				
Mounting	Ceiling, rope,	Ceiling, rope, and pole mount					
Cable entries	Standard: 4 x NPT3/4 (Side x1 open, Side x3 with stopping plugs) W/EM: 3 x NPT3/4(Side x1 open, Side x2 with stopping plugs) x self testing button						

Temperature performance data:

Luminaire Model	Rated Ambient Temperature Range	Operating Temperature (T Code)
Ex-20WR4	-40°C to 50°C	80 C (T6)
Ex-30WR2	-40°C to 50°C	80 C (T6)
Ex-40WR2	-40°C to 50°C	100 C (T5)
Ex-50WR4	-40°C to 50°C	100 C (T5)
Ex-60WR4	-40°C to 50°C	100 C (T5)

Packing Information:

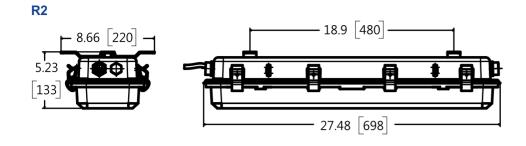
Model	Net weight Ibs. (kg.)	Gross weight Ibs. (kg.)	Carton Dimensions (L×W×H) inch.(cm.)
2 foot	11.6(5.27)	14.44(6.55)	32.28x10.63x7.87(82x27x20)
2 foot w/ EM	14.33(6.5)	16.38(7.43)	32.28x10.63x7.87(82x27x20)
4 foot	19.67(8.92)	24.69(11.2)	55.91x10.63x7.87(142x27x20)
4 foot w/ EM	22.49(10.2)	25.44(11.54)	55.91x10.63x7.87(142x27x20))



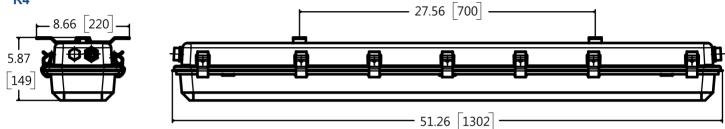
Warehouse-Lighting.com 2750 South 163rd St New Berlin, WI 53151 Warehouse-Lighting.com Phone: 888-454-4480 info@warehouse-lighting.com



Dimension:



R4



Mounting:

*Mounting screws not provided ** Ordered separately, field installed

IGHTING.COM

Options	Description	Kit(inch[mm])	Installed
Ceiling Mount	Provided with two stainless steel mounting kits welded at the back of Housing	Standard Mounting Kit (Included)	
Rope Mount	Provided with two stainless steel wire. Measured 1 mm diameter.		
Pole Mount	(1) 155° Pipe (2) Pipe Clamp bracket	4xM8 1.96 1.73 1.44 24.49 1.55° 1.75° 1.73 1.73 1.73 1.73 1.73 1.73 1.73 1.73 1.75° 1.73 1.75° 1.55° 1	4-M8*0.98inch 1.97-2.75inch
		Warehouse-Lighting.com 2750 South 163 rd St New	Warehouse-Lighting.con Phone: 888-454-448

Berlin, WI 53151

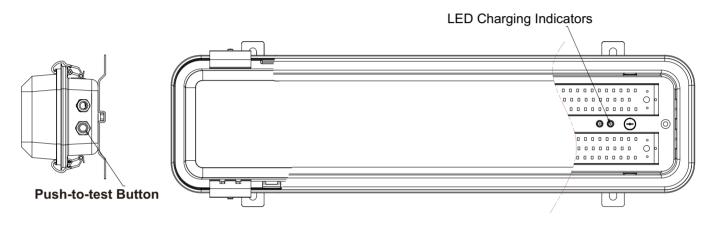




CAUTION: Sealed unit. Battery not replaceable. Replace entire unit when necessary.

Model	Input Rating				odel Input Rating Emergency Output Rating		gency Output Rating
	Vac	Hz	Max.mA	Max.W	Vdc	Constant Wattage, W	
EM-15W-HL	120-277	50/60	100	7	25-55	15	

Model	Charge Time,	Emergency	Response	Rated Ambient	Battery Life
	Hours	Run Time, Min	Time, mS	Range, °C	Expectancy
EM-15W-HL	24	90	< 550	0~60	5 Years



Indicator Information

Operate Mode	LED Features	YELLOW LED (State LED)	Green LED (Indicate LED)
Charge Mode	Charging		Flash 0.2HZ (5S/time)
	Fully charged		ON
	Discharge		Flash 1HZ (1S/time)
Discharge Mode	Discharge cut-off		OFF
Battery disconnect		Flash 2HZ (0.5S/time)	
LED Lamp disconnect		Flash 2HZ (0.5S/time)	
Battery under voltage		Flash 1HZ (1S/time)	
Battery over volta	ge	Flash 1HZ (1S/time)	
Function test beg	inning (once a month)		Flash 2HZ (0.5S/time), flash 5 times
Under function te	st		Flash 1HZ (1S/time)
Function test faile	ed	Flash 0.5HZ (2S/time)	
Discharge duratio	on test beginning (once a year)		Flash 2HZ (0.5S/time), flash 7 times
Under discharge of	duration test		Flash 1HZ (1S/time)
Discharge duration	on test failed	Flash 0.5HZ (2S/time)	

