

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/IP67 **IK10** 1200 hours Salt spray

ATEX Marking:



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

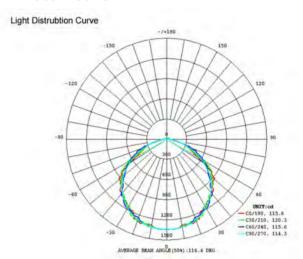
Features:

- 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)

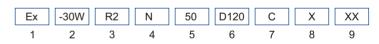
Applications:

- 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.

Photometric:



Ordering Information:



1. Model Series	2. Wattage	3. House Length	4. For All Luminaires	5. Color Temp.
Explosion-proof Light	-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



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Technical Parameter:

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

Electrical

Specif	ication	Ex-20WR2	Ex-30WR2	Ex-40WR2	Ex-50WR4	Ex-60WR4
Rated I	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%
THU	AC277V	4.01%	4.01% 4.37% 3.92% 3.24% 5.31%			
Power	Factor	>0.9	>0.9			
Driver l	Efficiency	≥ 90%				
Dimmir	ng	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	4012lm	5067lm	7024lm	8381lm
Lumens Per Watt*	136.5lm/W				
Beam Angle	120°				
Correlated Color Temperature(CCT)	2700K/4000K/5000K				
Color Rendering Index (CRI)	Ra=83	Ra=83	Ra=84	Ra=84	Ra=85



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Technical Parameter:

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Mechanical

Specification	Ex-20WR2	Ex-30WR2	Ex-40WR2	Ex-50WR4	Ex-60WR4
Housing Material	SUS 304 stain	less steel			
Lens Material		-	edpolycarbonate lycarbonate (optic		
Gasket	Silicone Rubb	er			
Latches/Clips	Aluminum allo	Aluminum alloy			
Color	Milky White	Milky White			
Finish	Epoxy powder	Epoxy powder coating			
Protection	IP66/IP67/IK10/3G Vibration/1200hrs salt spray				
Mounting	Ceiling, rope, and pole mount				
Cable entries	W/EM: 3 x NP	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:

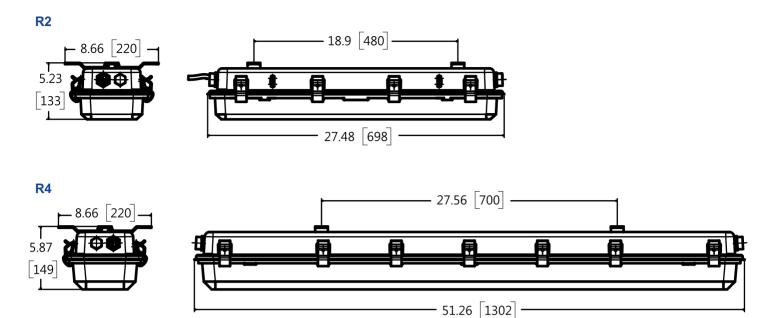
Luminaire Model	Rated Ambient Temperature Range	Operating Temperature (T Code)
Ex-20WR4	-40°C to 50°C	80 C (T6)
Ex-30WR2	-40°C to 50°C	80 C (T6)
Ex-40WR2	-40°C to 50°C	100 C (T5)
Ex-50WR4	-40°C to 50°C	100 C (T5)
Ex-60WR4	-40°C to 50°C	100 C (T5)

Packing Information:

Model	Net weight lbs. (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))



Dimension:



Mounting:

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

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.	0.89 [22.5] [20.5] [20.5] [20.6] [20.6] [20.6]	
Pole Mount	(1) 155° Pipe (2) Pipe Clamp bracket	26.9[683.3] 4xM8 1.96 1.73 4 4 4 1.73 4 4 1.73 4 4 1.75°Pipe X1	4-M8*0.98inch

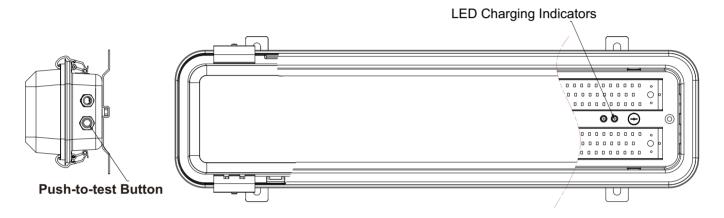
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EM DRIVER SPECIFICATION FEATURES - EM-15W-HL:

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

Model	Input Rating			Emer	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

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