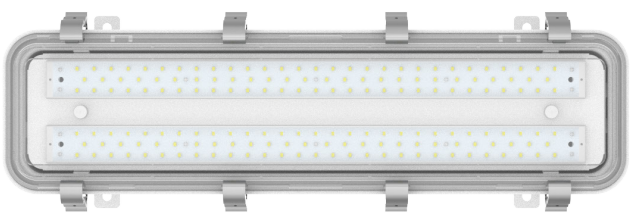
Pan American
Professional Lighting Manufacturer



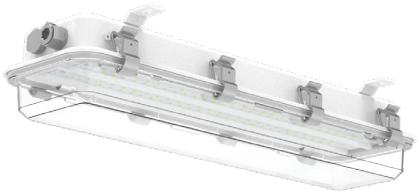
HAZADOUS LOCATIONS LED LUMINAIRE

R SERIES



Building 6, Zhongtang Tian'an Digital City, No. 88 Jinyuan Road,
Zhongtang Town, Dongguan, Guangdong. Zip code 523220

UL CERTIFIED · DNV · 3G Vibration · NEMA Type 4X · IP 66 · IK10 · 5 YEARS WARRANTY · 150 lm/W



R2



R4

◎ PRODUCT INTRODUCTION >>>

The R Series explosion-proof LED light is designed for hazardous areas where flammable gases, vapors, or liquids may be present during normal facility operations. Combining the style and design of advanced LED technology with the robustness and durability of a hazardous-location luminaire, it is ideal for retrofitting existing HPS/MH (High-Pressure Sodium/Metal Halide) fixtures.

This product delivers higher efficiency for energy savings, lower maintenance costs, and a shorter return on investment. The optional backup battery system provides a minimum of 90 minutes of operation after AC power failure in an emergency. (Contact sales for EM options)

◎ COMPLIANCE >>>

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

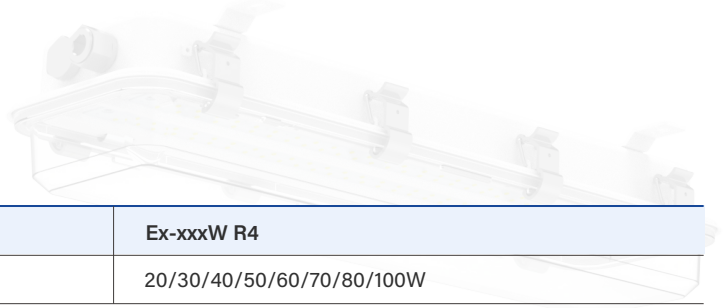


◎ PRODUCT FEATURES >>>

- ☑ Adopting the new snap-fit structure design, the luminaire enables easy opening and closing, reduces product weight, and achieves superior performance during vibration testing
- ☑ Standard Fixed mounting bracket for surface mount and rope for pendant mount, optional Pole mount (purchased separately)
- ☑ Equipped Latches not only for waterproof, but for quick release and easy to maintain
- ☑ SUS 304 stainless steel standard housing (SUS316 optional),great corrosion and heat resistance, outstanding durability,suitable for harsh environments
- ☑ Excellent quality optics, longer installation distance between luminaires for lower costs
- ☑ LED light strip replaceable, customer can buy new oneto replace if it fails to work
- ☑ UV stabilized, impact-resistant fiberglass reinforced polycarbonate lens (clear for standard, frosted for optional)
- ☑ Built-in low voltage Microwave Sensor (optional)

◎ APPLICATION >>>

- Areas requiring continuous and consistent light levels
- Marine applications (e.g engine rooms, decks, walkways)
- Water and wastewater treatment facilities
- Offshore environments
- Pulp and paper production facilities
- Petrochemical facilities



◎ TECHNICAL PARAMETER >>>

① -Electrical

Model	Ex-xxxW R2	Ex-xxxW R4
Rated Power	10/20/30/40/50/60W	20/30/40/50/60/70/80/100W
Input Voltage	200-480VAC or 277-480VAC(High Voltage) / 120-347 VAC(Middle Voltage) / 120-277VAC(Low Voltage) / 120-400VDC	
Input Frequency	50/60Hz	
Power Factor	＞0.95	
Emergency Time*	1.5 hours	

② -Optical

Model	Ex-xxxW R2	Ex-xxxW R4
Lumen Output	1500-9000lm	3000-15000lm
Lumens Per Watt	150ml/W	
CCT	2700K/4000K/5000K/6500K	
CRI	＞70	
Beam Angle	120°	
Dimming	Driver includes dimming control wiring for 0-10V dimming systems. Separate 0-10V DC dimming circuit is required	

③ -Environmental

Model		LED Driver	Ambient Temperate Range	T-Code
Ex-40WR2	Normal	SS-50VA-56BHL/SS-50VP-56BH	-40°C to +60°C	T5
	Emergency	SS-75EP-MP54BH	0°C to +50°C	T4A
Ex-60WR4	Normal	SS-75VA-56BHL/SS-75EP-M54BH	-40°C to +60°C	T5
	Emergency	SS-100EP-M54BH	0°C – +60°C	T5

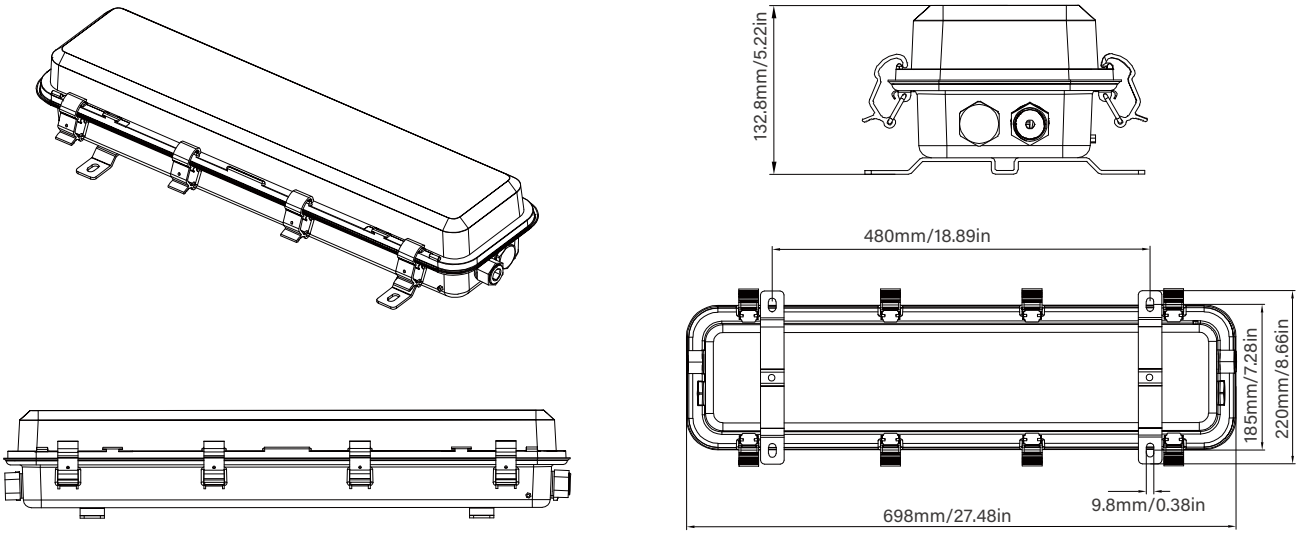
NOTE: Refer the UL certificate for exact temperature and T-code information.

④ -Mechanical

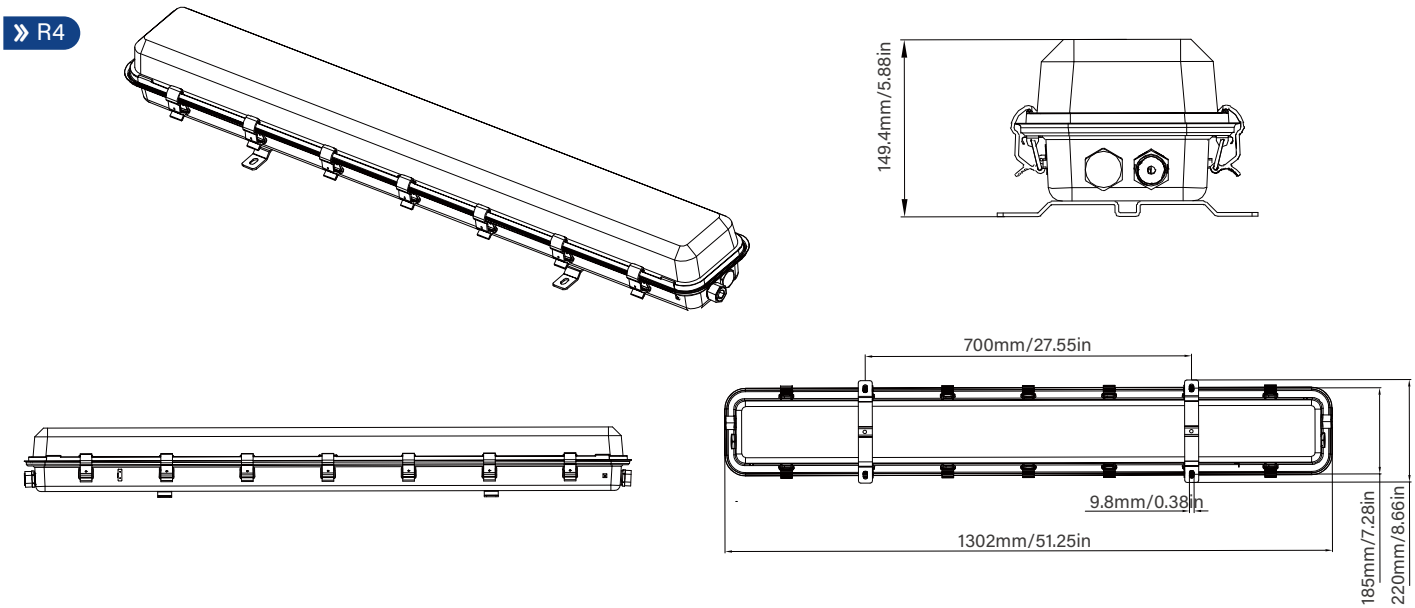
Model	Ex-xxxW R2	Ex-xxxW R4
Housing Material	Stainless steel housing with baked-on White RAL9016epoxy finish	
Diffuser Type	Clear Polycarbonate (Standard); Frosted Polycarbonate (Optional)	
Gasket Material	Silicone Rubber	
Latches/Clips Material	Stainless steel hardware	
Protection Rating	Ingress protection: IP66 / Impact protection: IK10	
Mounting Options	Surface Mount (Standard); Pendant/Pope Mount (Stadard); Pole Mount(Purchase separately)	
Cable Entries	2×M20, 2×3/4"NPT	
Warranty	5-year limited warranty for fixture; 3-year limited warranty forbattery backup	

◎ PRODUCT DIMENSIONS [UNIT: MM] >>>

» R2



» R4

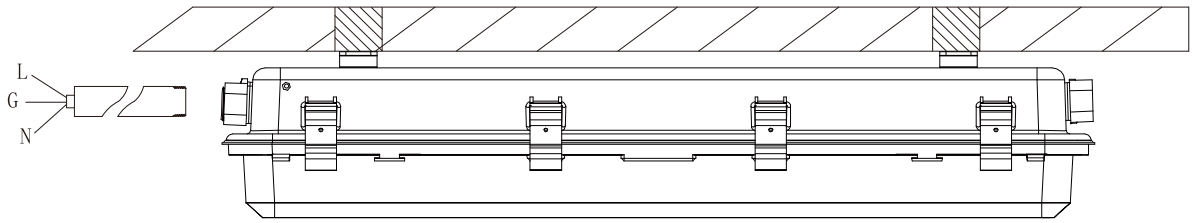


◎ PACKING INFORMATION >>>

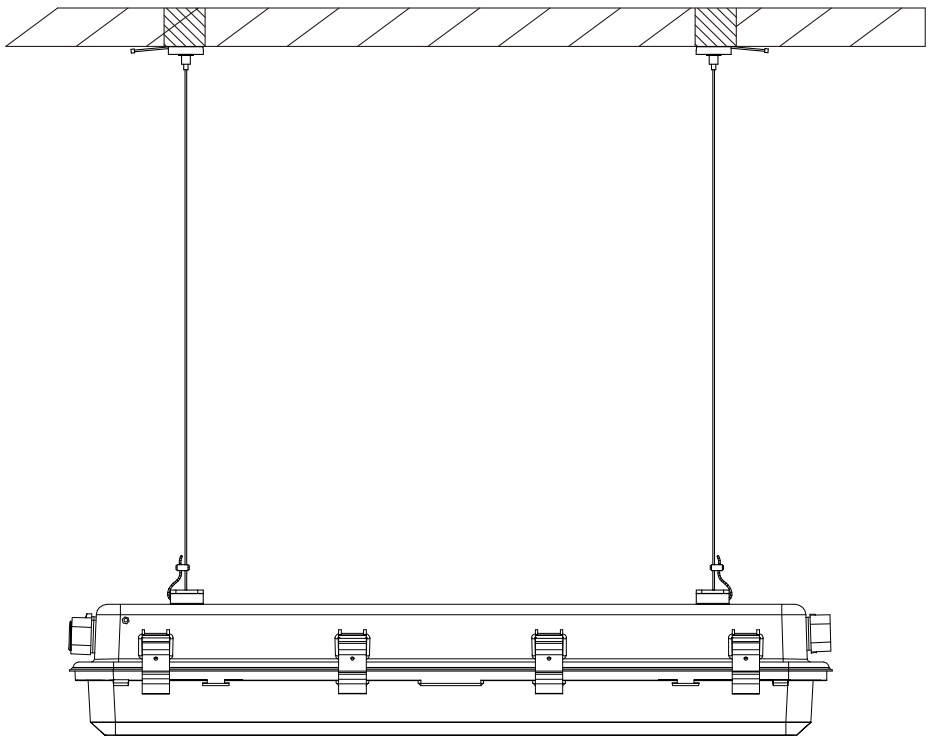
Model	Pack Dimensions	Net Weight	Gross Weight	Quantity/Carton
Ex-xxxW R2	800x250x175mm / 31.50x9.84x6.89inch	5.27 kg / 11.62 lb	6.55 kg / 14.44 lb	1 pcs
Ex-xxxW R4	1400x250x175mm / 55.12x9.84x6.89inch	8.92 kg / 19.66 lb	11.2 kg / 24.69 lb	1 pcs

◎ MOUNTING METHODS AND ACCESSORIES >>>

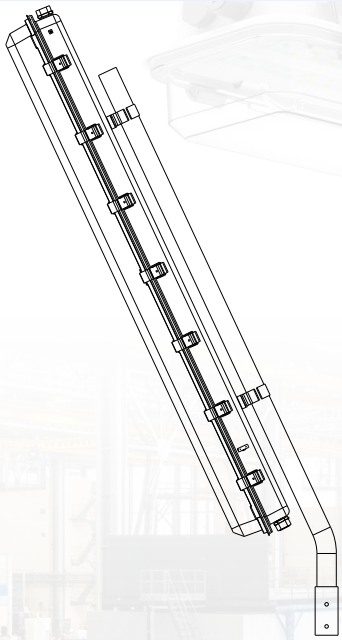
» Option 1 - Surface Mounting



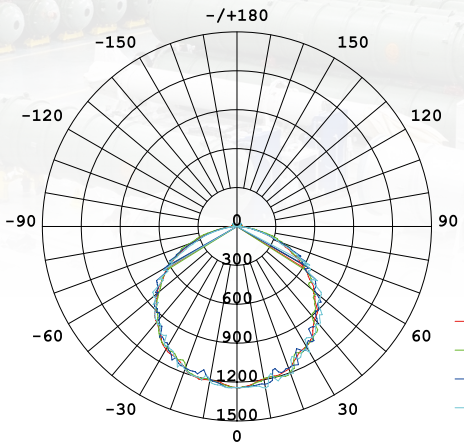
» Option 2 - Pendant/Rope Mounting



» Option 3 - Pole Mounting



◎ PHOTOMETRIC >>>

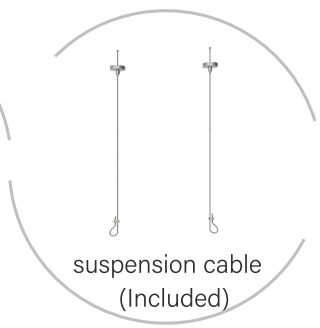


AVERAGE BEAM ANGLE(50%):
118.7 DEG

◎ ACCESSORIES >>>



EX-Pole & Clamp



suspension cable
(Included)

◎ ORDERING GUIDE >>>

EX - XXW R2 * 27 D120 B P P 2 M EP75 * * *

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮

1 Basic model series
Ex – for all luminaires

2 Input wattage
-10W = 10W / -20W = 20W
-30W = 30W / -40W = 40W
-50W = 50W / -60W = 60W
-70W = 70W / -80W = 80W

3 Luminaire housing lengt
R2 = 2 feet / R4 = 4 feet

4 Dimming
D = Dimmable

5 CCT
27 = 2700K / 40 = 4000K
50 = 5000K / 65 = 6500K

6 Beam angle
D120-For all luminaires

7 Botton frame (tank)
A = Botton Frame A
B = Botton Frame B
Blank = Botton Frame C

8 Diffuser type
Blank = Lens Cover A
P = Lens Cover P

9 Mounting means
Blank–Ceiling or Wall mount
R = Rope mount / P= Pole mount

10 LED type
Blank = 2835 Tunable LED Board
2 = 2835 Single Color LED Board

11 Input Voltage
H = High Voltage
(200-480 VAC or 277-480 VAC)
M = Middle Voltage (120-347 VAC)
Blank = Low Voltage (120-277 VAC)
DC = 120-400 VDC

12 LED driver
E55 = SS-55EP-M54BH
EP75 = SS-75EP-M54BH
Details can be seen in the US standard certificate

13 Dual tunable or not
Blank = Without Tunable
T = With Tunable

14 With sensor or not
-S = With Low Voltage motion sensor
Blank = Without Sensor

15 Accessories use only
-E = With Battery Backup
Blank = Without Battery Backup