

Industrial Rigmaster™ LED Series Luminaires

Standard or with Emergency Battery Backup

Ordinary Locations

NEC/CEC/NOM: Type 3R, 4, 4X | IP66 | IK10 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ①
Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved | 5G Vibration

Applications

- For use in locations where:
 - A high degree of corrosion resistance is required
 - Protection against dirt, water and moisture is necessary
- Typical industries include:
 - Waste and sewer treatment
 - Pulp and paper mills
 - Food processing plants
 - Foundries
 - General manufacturing facilities
 - Underground tunnels
 - Hydrogen and Biofuels plants
 - LNG (Liquid Natural Gas) plants

Features

- All Models:
 - Lightweight design makes mounting and installation easy.
 - Low fixture profile allows installation in compact spaces.
 - Two sizes and output options deliver up to 7600 lumens.

Nominal Lumens ②	Fluorescent Equivalent	Replacement Lamp Type	Model
4300	2 x 32W	T8	IRM*2
7600	3 x 32W	T8	IRM*4

- Precision engineered clear polycarbonate lens offers wide light distribution for greater area coverage.
- Choice of color temperature (CCT): 5000K cool white, 4000K neutral white or 3000K warm white with minimum 80 CRI.
- Field replaceable lens and LED driver.
- Diverse mounting bracket options allow for mounting in any location and retrofitting third party fixtures.
- For ease of retrofitting, mounting brackets accommodate most bolt patterns for Crouse-Hinds™ ⚡, Dialight™ ⚡ and other manufacturers. See *Mounting Bracket Selection Guide*.
- Wirenuts and screw terminal block ③ option for added flexibility.
- Hinged wire compartment cover is secured with captive screws for safety and convenience.
- Loop in/out wiring capability for inter connecting fixtures
- Standard screw-type terminal block can accept UL/CSA 22-12 AWG wire.
- 5 casted points for secondary safety retention.
- Heavy duty, high temperature silicone gaskets.
- Standard 6 kV/3 kA surge protection.
- Fixture position locking mechanism provides ease and consistency of aiming.
- Rugged housing with superior thermal design translates to long luminaire life.
- Reported L70 is >60,000 hours.
- Photometric data and electronic drawings available upon request.
- 5 year standard warranty.
- Standard Model:
 - Ambient Temperature: -40°C to +65°C (-40°F to +149°F).
- Emergency Battery Backup Model:
 - Ambient Temperature: -20°C to +55°C (-4°F to +131°F).
 - Suitable for heights up to 4.27 m (14 ft).
 - Field replaceable battery pack and battery management module (BMM).



IRM*2 with Small Swivel Bracket



IRM*4 with Large Swivel Bracket

Options

- All Models:
 - Yoke brackets can be factory installed or purchased separately.
 - Pendant mount kits ④ can be purchased separately.
 - Safety cable can be purchased separately or configured as an add on option to be shipped with the LED fixture.
 - Available with 3/4" or 1/2" NPT threaded hubs.
 - Clear or diffused polycarbonate lens.
 - Wirenuts or screw terminal blocks ③ available.
- Emergency Battery Backup Model:
 - 90 or 180 minutes of emergency battery back up available.

Standard Materials

- Housing: copperfree (4/10 of 1% max.) aluminum
- Lens: thermal shock- and impact-resistant polycarbonate lens
- Gasket: silicone rubber
- Bolts: stainless steel
- Close up plugs: (3) aluminum provided
- Mounting brackets: zinc plated steel

Standard Finishes

- Housing: gray epoxy powder coat finish, electrostatically applied for complete uniform protection

NEC/CEC Certifications and Compliances

- All Models:
 - UL Standard: UL 924; UL 844; UL 1598; UL 1598A; UL 50E; UL 8750
 - CSA Standard: C22.2 No. 0 - 10; C22.2 No. 94.2 - 15; C22.2 No. 137-18; C22.2 No 141-15; C22.2 No. 250.0 - 18; C22.2 No. 250.13 -17; C22.2 No. 60529-16
 - NEMA/ANSI/IEC Standards: 60529
- Standard Model:
 - cCSAus: 164460, Certificate Number: 70208309
 - ABS: 19-HS1867599-PDA
 - Vibration Rating: 5G, 2 hours, 3 axis at first mode resonant frequency
- Emergency Battery Backup Model:
 - cCSAus: 164460, Certificate Number: 70218502

NOM: Norma Oficial Mexicana:

- NOM-003-SCFI-2014 (NMX-J-307-ANCE-2017)
- NOM Certificate: ULM-NOM-10627

① Marine Outside Type (Salt Water) is applicable to standard (non emergency) fixtures only.

② Nominal lumen value for 5000K, clear Lens. Detailed lumen information is provided in data tables.

③ Terminal block option available for BU voltage configuration only.

④ Pendant mount kit option is not available with Type 3R, 4, 4X, IP66, and Marine Outside Type (Salt Water) ratings.

⚡ Crouse-Hinds is a registered trademark of Eaton Corporation.

⚡ Dialight is a registered trademark of Dialight.

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Order Using Catalog Numbering Guide — Industrial Rigmaster™ LED Series Luminaires

IRM	A	2	2	C	D	L	BU	N	G	W	2
Series Prefix: IRM - Industrial Rigmaster Linear LED	Mounting: ④ A - Small Swivel Bracket ⑤ B - Large Swivel Bracket L - Low Profile Bracket N - If None (Use if Ordering Appleton Bracket Separately)	Lumen (nominal): ② 2 - 4,300 Lumens (2') 4 - 7,600 Lumens (4')	Hub Size: 1 - (4) 1/2" NPT 2 - (4) 3/4" NPT	Color Temperature: C - Cool 5000K N - Neutral 4000K W - Warm 3000K	Lens Material: D - Diffused Polycarbonate P - Clear Polycarbonate	Light Distribution Pattern: L - Linear Pattern	Voltage : BU - 120-277 Vac, 50/60 Hz; 125-300 Vdc BH - 347-480 Vac, 50/60 Hz ①	Emergency: ⑥ N - If None (Standard) H - 90 Minutes E - 180 Minutes	Color: G - Appleton Gray (Standard)	Wiring Method: W - Wire Nuts (Standard) T - Fixed Terminal Block ③	Option: ④ Blank - If None 1 - (1) Safety Cable 2 - (2) Safety Cables

Lumen Output (Efficacy) — Standard Model — Standard Mode ⑦

Model	Fluorescent Equivalency	Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)
Clear Polycarbonate Lens														
IRM*2	2 x 32W	Linear	3000K	>80	4160	126	4000K	>80	4230	128	5000K	>80	4390	133
IRM*4	3 x 32W	Linear	3000K	>80	7250	132	4000K	>80	7370	134	5000K	>80	7650	139
Diffused Polycarbonate Lens														
IRM*2	2 x 32W	Linear	3000K	>80	3890	118	4000K	>80	3950	120	5000K	>80	4100	124
IRM*4	3 x 32W	Linear	3000K	>80	6770	125	4000K	>80	6870	125	5000K	>80	7130	130

Lumen Output (Efficacy) — Emergency Model — Emergency Mode ⑥ ⑦

Model	Emergency Duration in Minutes	Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)
Clear Polycarbonate Lens														
IRM*2/IRM*4	90	Linear	3000K	>80	1200	N/A	4000K	>80	1260	N/A	5000K	>80	1350	N/A
	180	Linear	3000K	>80	720	N/A	4000K	>80	760	N/A	5000K	>80	800	N/A
Diffused Polycarbonate Lens														
IRM*2/IRM*4	90	Linear	3000K	>80	1080	N/A	4000K	>80	1090	N/A	5000K	>80	1130	N/A
	180	Linear	3000K	>80	670	N/A	4000K	>80	680	N/A	5000K	>80	700	N/A

① Marine Outside Type (Salt Water) is applicable to standard (non emergency) fixtures only.

② For lumen output information, see Lumen Output (Efficacy) Table.

③ Terminal block option available for standard unit, BU voltage configuration only.

④ Brackets and safety cables can be ordered separately or included with fixture. See Mounting Brackets Table for more information.

⑤ Mounting option A is not available with emergency version.

⑥ Emergency battery back up version is only available with BU voltage configuration for 120-277 Vac operation.

⑦ All lumen values are typical (tolerance +/- 10%).

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Electrical Specifications ②

Model	Voltage	Input Power (Watts)	Input Current (Amps)	Power Factor (PF)	Total Harmonic Distortion (THD)
Standard Model					
IRM*2	120 Vac	33	0.28	>0.9	<20
	277 Vac	33	0.12	>0.9	<20
	125 Vdc	33	0.27	NA	NA
	300 Vdc	33	0.11	NA	NA
	347 Vac	36	0.11	>0.9	<20
	480 Vac	36	0.08	>0.9	<20
IRM*4	120 Vac	55	0.47	>0.9	<20
	277 Vac	55	0.20	>0.9	<20
	125 Vdc	55	0.44	NA	NA
	300 Vdc	55	0.18	NA	NA
	347 Vac	56	0.16	>0.9	<20
	480 Vac	56	0.12	>0.9	<20
Emergency Model					
IRM*2	120 Vac	39	0.35	>0.9	<20
	277 Vac	39	0.15	>0.9	<20
IRM*4	120 Vac	60	0.57	>0.9	<20
	277 Vac	60	0.20	>0.9	<20

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② All values are typical (tolerance +/-10%).

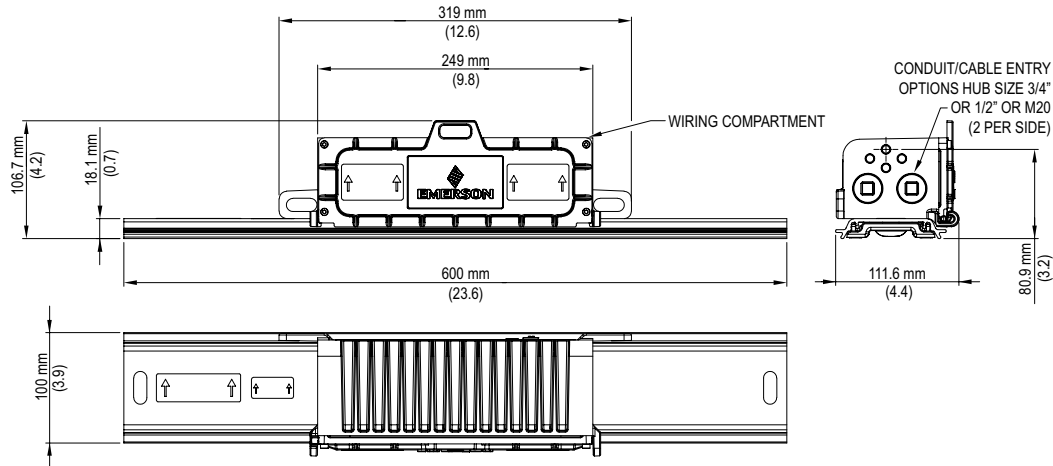
Industrial Rigmaster™ LED Series Luminaires

Standard
Ordinary Locations

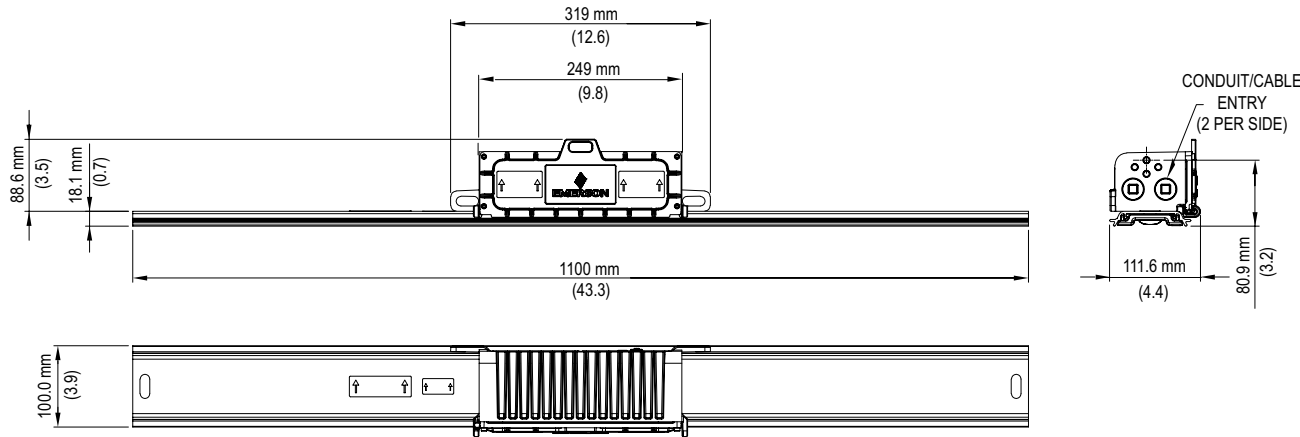
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Fixture — Dimensions in Millimeters (Inches) — Standard Model

IRM*2 - Standard



IRM*4 - Standard



Luminaire Specifications

Model	Weight in kg (lb) ②	Length in m (ft)
IRM*2 — Standard	3.7 (8.2)	0.6 (2.0)
IRM*4 — Standard	4.6 (10.1)	1.1 (3.6)

① Marine Outside Type (Salt Water) is applicable to standard (non emergency) fixtures only.
② Weight of brackets are not included. See Mounting Brackets Table for details.

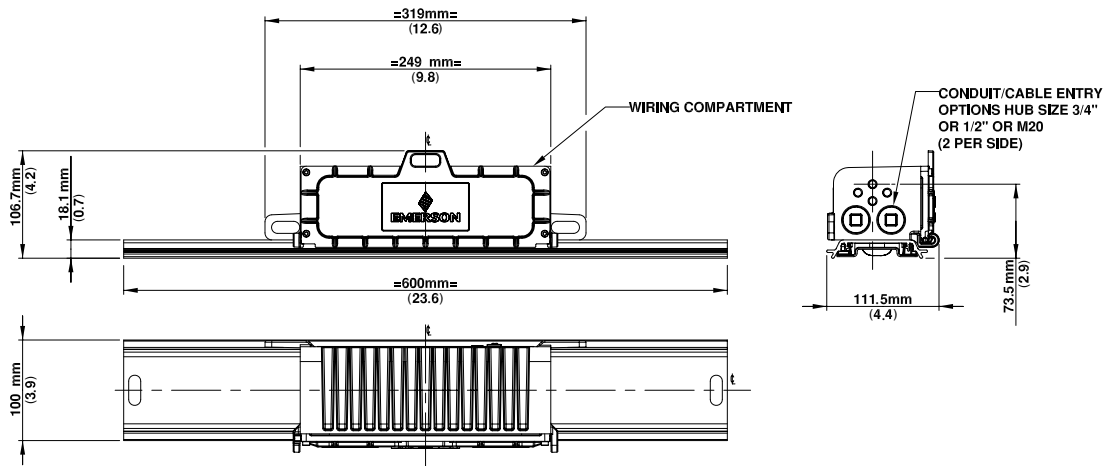
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Ordinary Locations

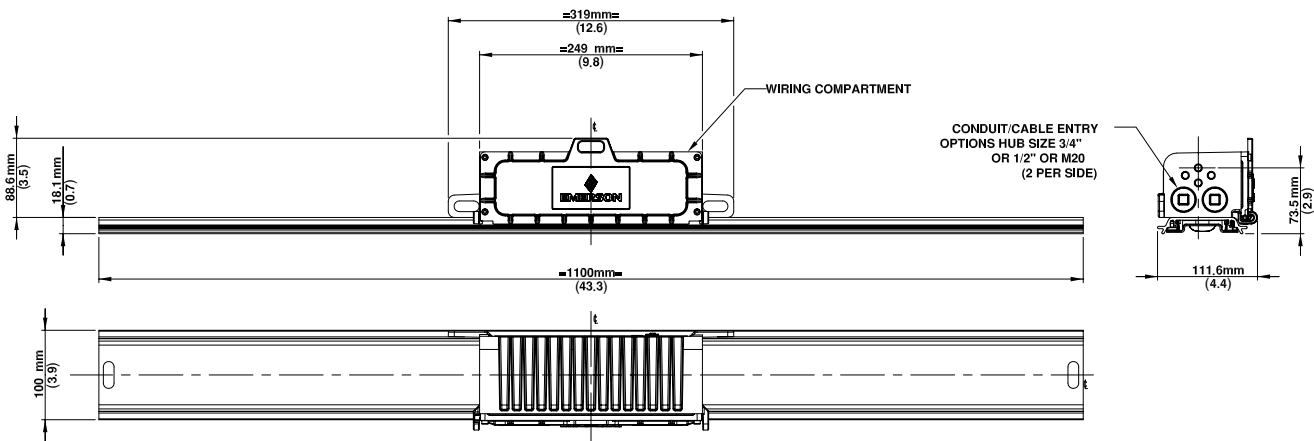
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Fixture — Dimensions in Millimeters (Inches) — Emergency Model

IRM*2 - Emergency



IRM*4 - Emergency



Luminaire Specifications

Model	Weight in kg (lb) ②	Length in m (ft)
IRM*2 — Emergency	7.6 (16.8)	0.6 (2.0)
IRM*4 — Emergency	8.6 (19.0)	1.1 (3.6)

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② Weight of brackets are not included. See Mounting Brackets Table for details.