

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 | 10G 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.



IRM*2 with Small Swivel Bracket



IRM*4 with Large Swivel Bracket

— Reported L70:

	Reported	Calculated
+25 °C (+77 °F)	> 60000	> 200000
+65 °C (+149 °F)	> 60000	> 200000

- 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).

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.

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 Cooper Industries, Inc., a wholly owned subsidiary of the Eaton Corporation plc.

⚡ Dialight is a registered trademark of Dialight.

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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:
 - Small and large swivel brackets: 10G, 2 hours, 3 axis at first mode resonant frequency.
 - Low profile bracket : 5G, 2 hours, 3 axis at first mode resonant frequency.
- Emergency Battery Backup Model:
 - cCSAus: 164460, Certificate Number: 70218502
 - Vibration Rating: 5G, 2 hours, 3 axis at first mode resonant frequency

NOM: Norma Oficial Mexicana:

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

ABS Certifications

- IRM/RM: 19-HS1867599-PDA

International Dark-Sky Association

- IDA Dark Sky Approved when ordering IRM[A/B/L/N][2/4][1/2]W[D/P] L[BU/BH][N/H/E]G[W/T][Blank/1/2] with [IRMPENDKIT/IRMHPENDKIT] (3000K CCT). ⑤

DesignLights™ Consortium

- Check DLC QPL for current list of products.

Related Products

- Rigmaster LED Series Luminaires
- Explosionproof Rigmaster LED Series Luminaires

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Illustrated Features — All Models

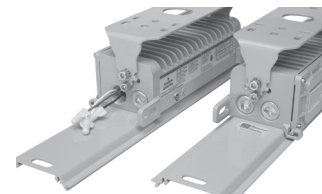
Flexibility and Modular Design



Hinged wirebox cover with captive screws:
Allows hassle free installation in challenging conditions and prevents accidental disengagement to enhance workplace safety.



Light where you need it: Notched position locking mechanism enables fixture to be aimed consistently.



Facilitates plug n play installation and decreases installation time: Two NPT hubs on each end for through wiring. Leads are placed outside the wiring compartment allowing installer to bypass the screw cover.

Choose from **three color temperatures** (CCT): 3000K, 4000K, and 5000K.

Standard linear light distribution pattern: wide distribution maximizes spread and work plane brightness to optimize number of luminaires needed.

Configurable Options



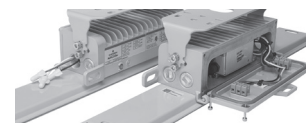
Yoke Mounting Brackets ③ ④:
Ability to mount using one of three distinctly designed brackets to best suit your installation needs. All brackets can be factory installed to save time in the field or purchased separately.



Pendant Mounting Kits ⑤:
The pendant mount kits consist of Appleton GRF Outlet Box with a built in union cover as well as the necessary mounting and wiring accessories. For ease of installation and added flexibility, it is field installable and purchased separately.

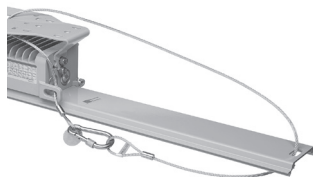


Clear or Diffused Polycarbonate Lenses:
Select a clear or diffused polycarbonate lens for the optimal level of work plane brightness and visual comfort. These lenses are field interchangeable for convenience and flexibility.



Wirenuts or Screw Terminal Blocks ① ②:
For ease of field installation, choose between wirenuts and screw terminal blocks ④ for 120-277 Vac configured models. Terminal blocks support UL/CSA 22 to 12 AWG wire.

Safety Features



Retention Points:
Five points for secondary retention provide protection against infield vibration.



Safety cables ③:
Can be purchased separately or included with fixture to reduce ordering and receiving complexity.

① Applicable to standard (non emergency) fixtures only.

② Terminal block option is available for standard unit, BU voltage configuration only.

③ Brackets and safety cables can be ordered separately or included with fixture. See Ordering Table for more information.

④ Mounting Brackets compatible with standard and emergency versions are not the same. Please refer to mounting bracket details for more information.

⑤ Pendant mount kit option is not available with Type 3R, 4, 4X, IP66, and Marine Outside Type (Salt Water) ratings.

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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 ③	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

① Marine Outside Type (Salt Water) is applicable to standard (non emergency) fixtures only.
② All values are typical (tolerance +/-10%).