

Industrial Rigmaster™ LED Series Luminaires

Enclosed and Gasketed Fixtures

NEC/CEC:
cCSAus Listed
Type 3R, 4, 4X
IP66

NEC/CEC:
Simultaneous Exposure
Suitable for Use in Wet Locations
American Bureau of Shipping (ABS) Certified
Marine Outside Type (Salt Water) ①

Applications

- For use in locations where:
 - Flammable gases and dusts may be present
 - A high degree of corrosion resistance is required
 - Protection against dirt, water and moisture is necessary
- Typical industries include:
 - Petrochemical facilities
 - Waste and sewer treatment
 - Pulp and paper mills
 - Food processing plants
 - Foundries
 - General manufacturing facilities
 - Underground tunnels

Features

- 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.

Model Number	Nominal Lumens ②	Fluorescent Equivalent		
		Lamp Wattage	Lamp Quantity	Lamp Type
IRM*2	4300	32W	2	T8
IRM*4	7600	32W	3	T8

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

- 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, LED driver, battery pack and battery management module (BMM)
- Three unique 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 compatibility chart on page 11.
- Emergency version is suitable for heights up to 14 feet.
- 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.
- Standard 6 kV surge protection.
- Fixture position locking mechanism provides ease and consistency of aiming.
- Rugged housing with superior thermal design translates to long luminaire life.
- Ambient Temperature: -40°C to +65°C (-40°F to +149°F)
- Ambient Temperature for Emergency Version: -20°C to +55°C (-4°F to + 131°F)

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

* Dialight is a registered trademark of Dialight.

① Applicable to standard (non emergency) fixtures only.

③ Terminal block option available for BU voltage configuration only.



- LED L70 of 60,000 hours reported at +65°C (+149°F).
- Photometric data and electronic drawings available upon request.

Options

- Brackets can be factory installed or purchased separately
- Safety cable can be purchased separately or configured as an add on option to be shipped with the LED fixture.
- Standard ¾" NPT threads with ½" option.
- Clear or Diffused Polycarbonate Lens.
- Emergency battery back up option for 90 or 180 minutes.
- Wirenuts or screw terminal blocks ③ available

Standard Materials

- Housing: copperfree (4/10 of 1% max.) aluminum
- Lens: thermal shock- and impact-resistant polycarbonate lens
- Gasket: silicone rubber, mechanically secured
- 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

- 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
- Industrial Rigmaster Standard:
 - cCSAus: 164460, Certificate Number: 70208309
- Industrial Rigmaster Emergency:
 - cCSAus: 164460, Certificate Number: 70218502

DesignLights™ Consortium

- Check DLC QPL for current list of products.

Related Products

- Rigmaster LED Luminaries

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Illustrated Features

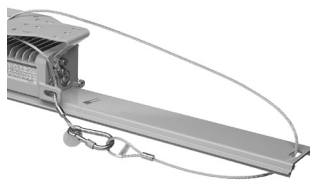
LED Flexibility and Modular Design



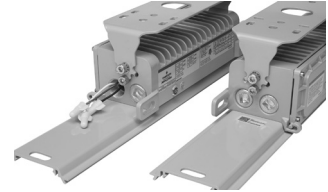
Hinged wirebox cover with captive screws allow hassle free installation in challenging conditions and prevents accidental disengagement to enhance workplace safety



Notched position locking mechanism enables fixture to be aimed consistently



Five points for secondary retention provide protection against in-field vibration.

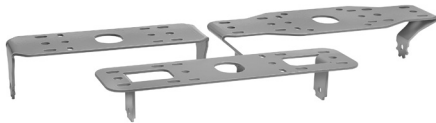


Rigmaster offers two NPT hubs on each end for through wiring. The leads are placed outside the wiring compartment to facilitate plug n play installation so customers can save time and bypass unscrewing the cover

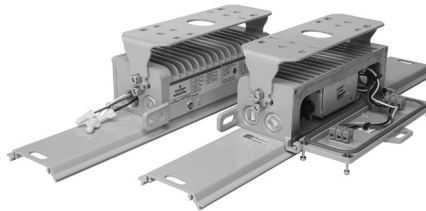
Choose from **three color temperatures (CCT)**: 3000K, 4000K, and 5000K

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

Configurable Options



Mounting Brackets ③④: Choose to mount your Rigmaster 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.



Wirenuts or Screw Terminal Blocks: Choose between wirenuts and screw terminal blocks ②③ for ease of field installation. Terminal blocks support UL/CSA 22 to 12 AWG wire.



Clear or Diffused Polycarbonate Lens: 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

Safety Features



Safety cables 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 available for 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 on page 9 and 10 for details.

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Order using catalog numbering guides below.

IRM	A	2	2	C	D	L	BU	N	G	W	2
Series: IRM - Industrial Rigmaster Linear LED			Hub Size: 1 - (4) 1/2" NPT 2 - (4) 3/4" NPT			Light Distribution Pattern: L - Linear Pattern			Color: G - Appleton Gray (Standard)		
Mounting ④⑤: N - If None (Use if Ordering Appleton Bracket Separately) A - Small Swivel Bracket B - Large Swivel Bracket L - Low Profile Bracket				Color Temperature: C - Cool 5000K N - Neutral 4000K W - Warm 3000K			Voltage ⑥: BU - 120-277 Vac; 125-300 Vdc BH - 347-480 Vac			Wiring Method: W - Wire Nuts (Standard) T - Fixed Terminal Block③	
		Lumen (nominal) ②: 2 - 4,300 Lumens (2') 4 - 7,600 Lumens (4')			Lens Material: D - Diffused Polycarbonate P - Clear Polycarbonate			Emergency: N - If None (Standard) H - 90 Minutes E - 180 Minutes			Option ④: Blank - If None 1 - (1) Safety Cable 2 - (2) Safety Cables

① Applicable to standard (non emergency) fixtures only.

② For lumen output information, see Lumen Values Table.

③ Terminal block option available for BU voltage configuration only.

④ Brackets and safety cables can be ordered separately or included with fixture. See Ordering 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 120-277V operation.

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Lumen Values Table ②

Lumen Output (Efficacy) for Clear Polycarbonate		
	IRM*2	IRM*4
5000K CCT, 80 CRI	4390 (138)	7650 (146)
4000K CCT, 80 CRI	4230 (133)	7370 (140)
3000K CCT, 80 CRI	4160 (131)	7250 (138)
Lumen Output (Efficacy) for Diffused Polycarbonate		
	IRM*2	IRM*4
5000K CCT, 80 CRI	4100 (124)	7130 (132)
4000K CCT, 80 CRI	3950 (119)	6870 (127)
3000K CCT, 80 CRI	3890 (117)	6770 (125)
Lumen Output in Emergency Mode for Clear Polycarbonate		
	90 Minute	180 Minute
5000K CCT, 80 CRI	1350	800
4000K CCT, 80 CRI	1260	760
3000K CCT, 80 CRI	1200	720
Lumen Output in Emergency Mode For Diffused Polycarbonate		
	90 Minute	180 Minute
5000K CCT, 80 CRI	1130	700
4000K CCT, 80 CRI	1090	680
3000K CCT, 80 CRI	1080	670

① Applicable to standard (non emergency) fixtures only.

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

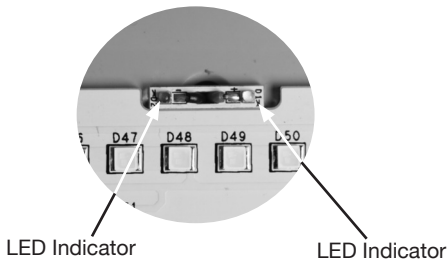
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Emergency Battery Backup Functionality – Automatic Testing System (ATS) ②	
Functional	Full Duration
Starts within 24 to 45 hours after the initial powerup of the module	Starts within 5 to 26 days after the initial power of the module
Occurs every 14 days after the initial aforementioned functional test	Occurs every 364 days after the initial aforementioned functional test
Lasts for 30 seconds	Lasts for the full duration of the rated emergency period
At the completion of functional and full duration tests, LED indicator will display the status of the emergency luminaire when AC is present	



Color	LED Signals	
	Timing	Description
Green	1 sec ON: 1 sec OFF	Normal charging ok, Battery not yet fully charged, No fault detected, Testing ok
Green	0.25 sec ON: 0.25 sec OFF	Functional / Duration Self-Test on-going
Green	Steady ON	Charging ok, Battery fully charged, No fault detected, Testing ok
Red	1 sec ON: 1 sec OFF	Fault condition. Installation issue. Battery is reverse, not connected or shorted. Functional test failure, full duration test failure
LED Indicators OFF, LED Array ON		LED Indicator Lights (Red and Green) OFF
		No AC, Emergency mode ON

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② Applicable only for Emergency version.

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Electrical Ratings - Standard Version ②

	Voltage	Input Power	Input Current (amp)	Power Factor	THD	Model
BU	120 Vac	33	0.28	>0.9	<20	IRM*2
	277 Vac	33	0.12	>0.9	<20	
	125 Vdc	33	0.27	NA	NA	
	300 Vdc	33	0.11	NA	NA	
BH	347 Vac	36	0.11	>0.9	<20	
	480 Vac	36	0.08	>0.9	<20	
BU	120 Vac	55	0.5	>0.9	<20	IRM*4
	277 Vac	55	0.2	>0.9	<20	
	125 Vdc	55	0.44	NA	NA	
	300 Vdc	55	0.18	NA	NA	
BH	347 Vac	57	0.16	>0.9	<20	
	480 Vac	57	0.12	>0.9	<20	

Electrical Ratings - Emergency Version ②

	Voltage	Input Power	Input Current (amp)	Power Factor	THD	Model
BU	120 Vac	39	0.35A	>0.9	<20	IRM*2
	277 Vac	39	0.15A	>0.9	<20	
BU	120 Vac	60	0.57A	>0.9	<20	IRM*4
	277 Vac	60	0.20A	>0.9	<20	

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




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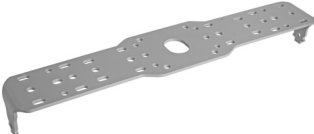

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Standard Mounting Brackets

	Description	Weight kg (lbs)	Catalog Number
	Small Swivel Bracket	0.74 (1.7)	RMSSB
	Large Swivel Bracket	1.1(2.4)	RMLSB
	Low Profile Bracket	0.80 (1.8)	RMLPB

Emergency Version Mounting Brackets

	Description	Weight kg (lbs)	Catalog Number
	Rigmaster Emergency Standard Swivel Bracket	2.0 (4.4)	RMHLSB
	Rigmaster Emergency Low Profile Bracket	1.9 (4.1)	RMHLPB

① Applicable to standard (non emergency) fixtures only.

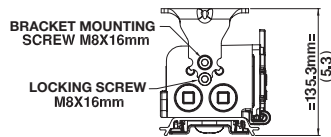
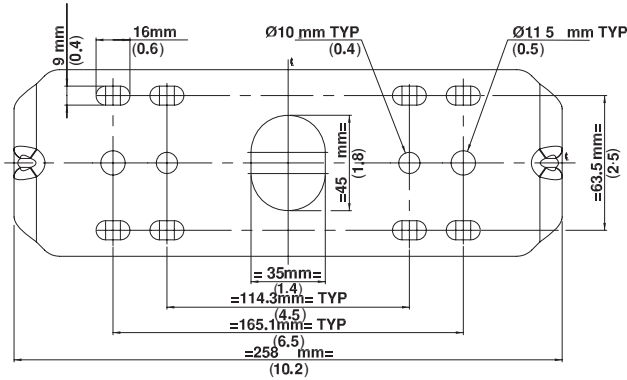
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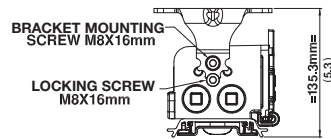
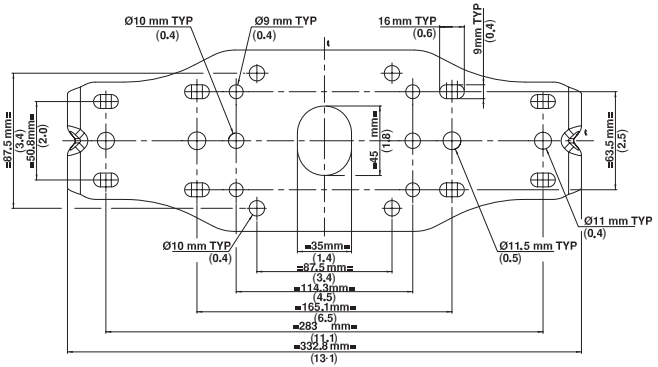
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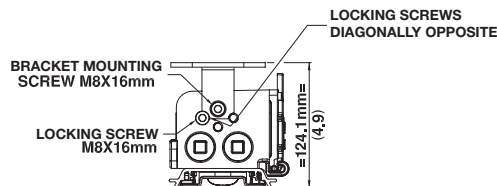
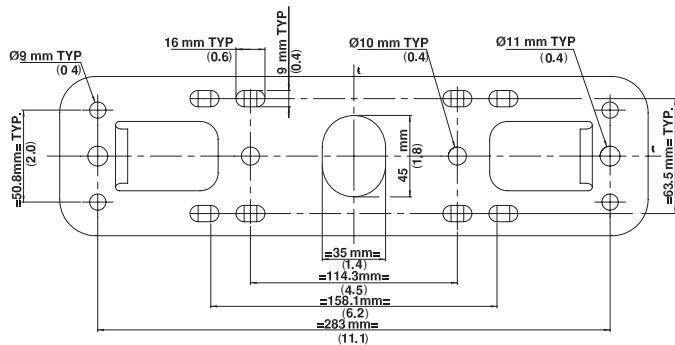
Dimensions in Millimeters (Inches)



RMSSB – Standard



RMLSB – Standard



RMLPB – Standard

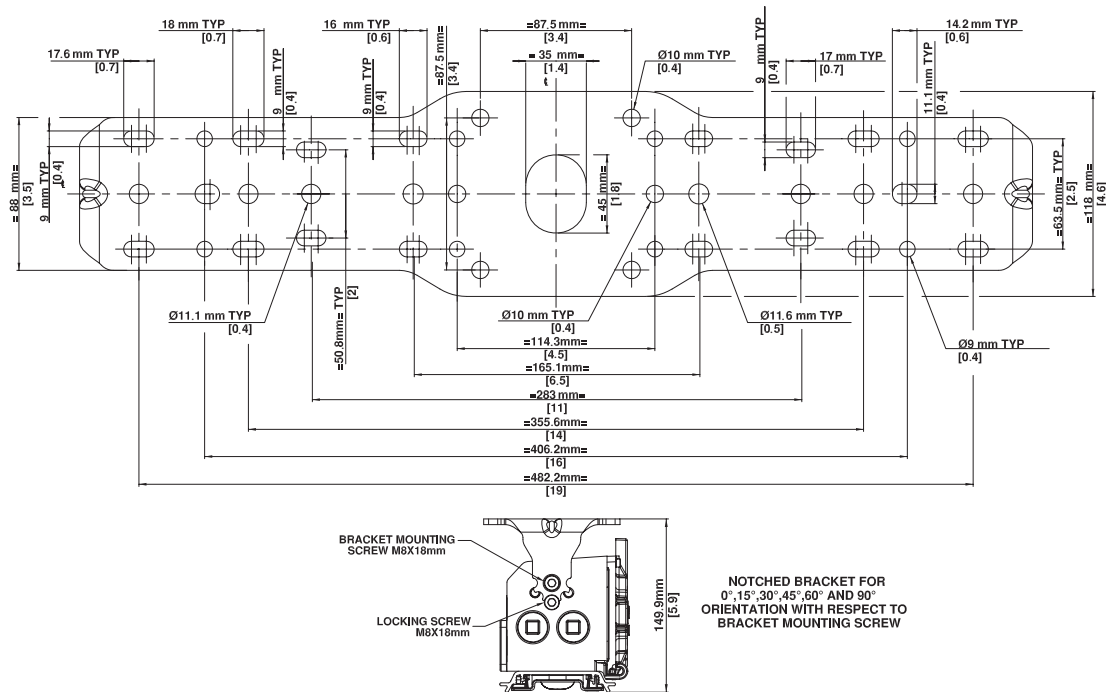
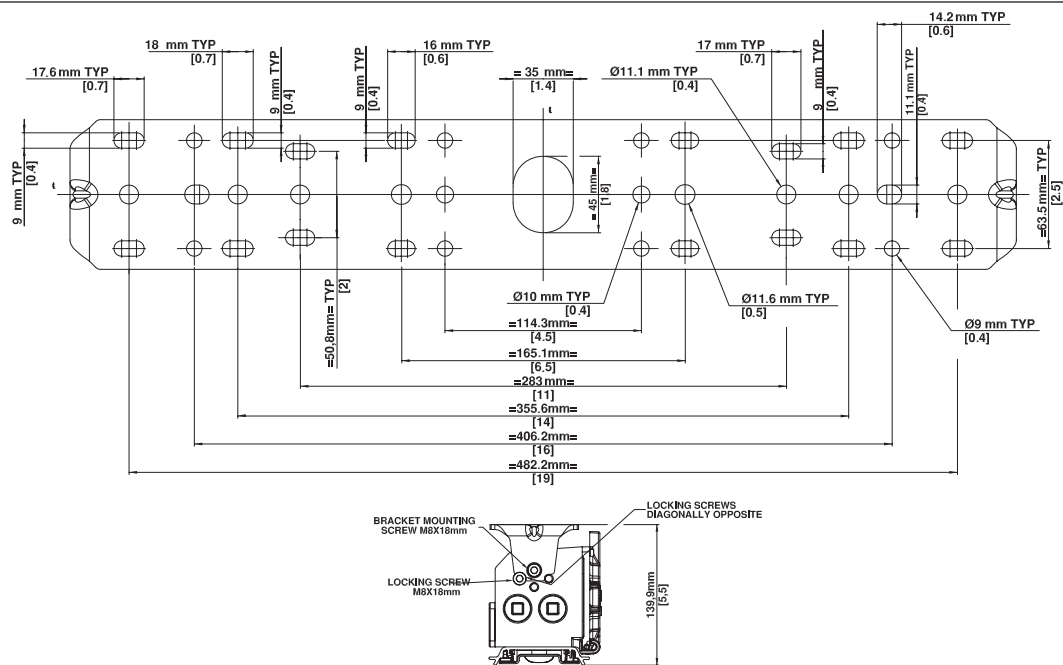
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Dimensions in Millimeters (Inches)

**RMHLSB – Emergency****RMHLPB – Emergency**

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Retrofit Bracket Compatibility Chart ①

For customers trying to retrofit an existing fixture, use the table below as a guide to select the best bracket to suit your needs


Manufacturer	Part Number	RMSSB Small Swivel Bracket	RMLSB Large Swivel Bracket	RMLPB Low Profile Bracket
Crouse Hinds™+	DP1057MTK	—	X	X
Dialight™*	LTXW4	X	X	—
	LTXW4LP	—	X	X
AZZ™® Rig-A-Lite™®	53050	X	X	—

Retrofit bracket Compatibility - Emergency Version ②

For customers trying to retrofit an existing fixture, use the table below as a guide to select the best bracket to suit your needs

Manufacturer	Part Number	RMHLSB	RMHLPB
Crouse Hinds™+	DP1057MTK	X	X
Dialight™*	LTXW4	X	X
	LTXW4LP	X	X
	LSXW4	X	X
AZZ™® Rig-A-Lite™®	53050	X	X

Other Accessories and Replacement Parts

Description		Catalog Numbers
Safety Cables		
	Stainless Steel Safety Cables	LEDSC
—	Replacement Battery Management Module	BMMRM
—	Replacement Battery Pack	BPMLLED

① Applicable to standard (non emergency) fixtures only.

② The above information is strictly for guidance purposes and does not guarantee compatibility and fit. Please carefully review bolt patterns on each bracket to ensure it meets your needs

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

* Dialight is a registered trademark of Dialight.

® AZZ and Rig-A-Lite are registered trademarks of AZZ.


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Replacement Drivers

	Voltage	Driver Wattage	Luminaire Model	Constant Current Settings	Catalog Number
	BU	50W	IRM*2	600mA	APM050C135UD060
	BH	50W	IRM*2	600 mA	APM050C135HD060
	BU	50W	IRM*4	1040 mA	APM050C135UD104
	BH	50W	IRM*4	1040 mA	APM050C135HD104

Replacement Lenses

	Description	Luminaire Model	Quantity per luminaire	Catalog Number
	Clear Polycarbonate Lens	IRM*2	1	RMCL
		IRM*4	2	
	Diffused Polycarbonate Lens	IRM*2	1	RMDL
		IRM*4	2	

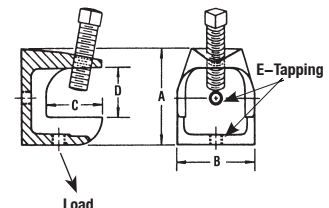
Other Mounting Options

Dimensions in Millimeters (Inches)					Weight per 100 kg (lbs)	Catalog Number	Max Load kg (lbs)
A	B	C	D	E			

Beam Clamps



52.3 (2.06)	50.8 (2.00)	35.1 (1.38)	25.4 (1.00)	3/8 - 16	37.65 (83.00)	BH-502	340.00 (750.00)
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Accessories and Replacement Parts

Description	Catalog Numbers
Half Clamp Brackets for Pole Mounting (set of two) ②	
For 42 mm to 49 mm pole (1-1/4 to 1-1/2" tube) 316 stainless steel	FEHC49S ②
For 60 mm pole (2" tube) 316 stainless steel	FEHC60S ②



Conduit Clamps ③



Zinc plated steel conduit hanger with swing bolts

H75-SWB

① Applicable to standard (non emergency) fixtures only.

② Additional hardware (not supplied) is required to use this accessory with the Rigmaster fixture and mounting bracket. please use two M8 x 20mm bolts, two M8 split lock washers and two M8 nuts. for additional details contact Appleton Technical Support.

③ For compatibility of other Appleton conduit clamps, contact Appleton Technical Support.

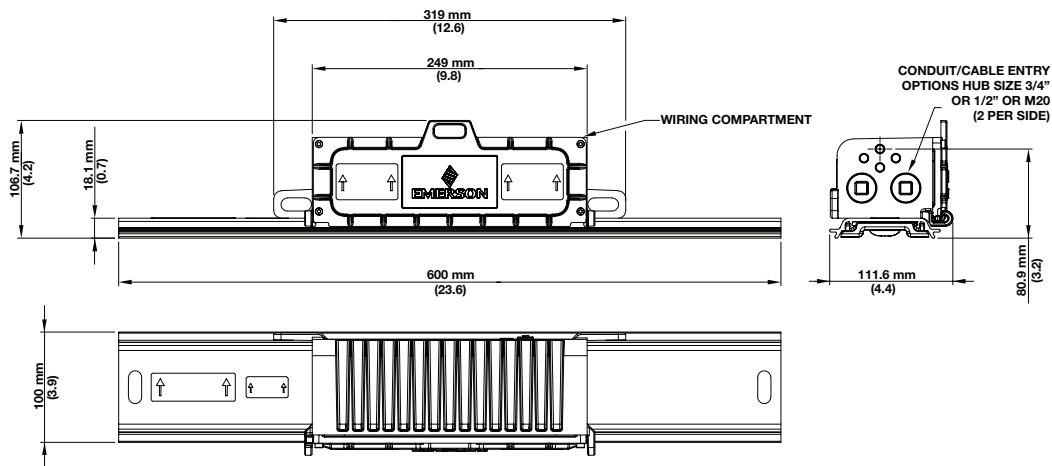
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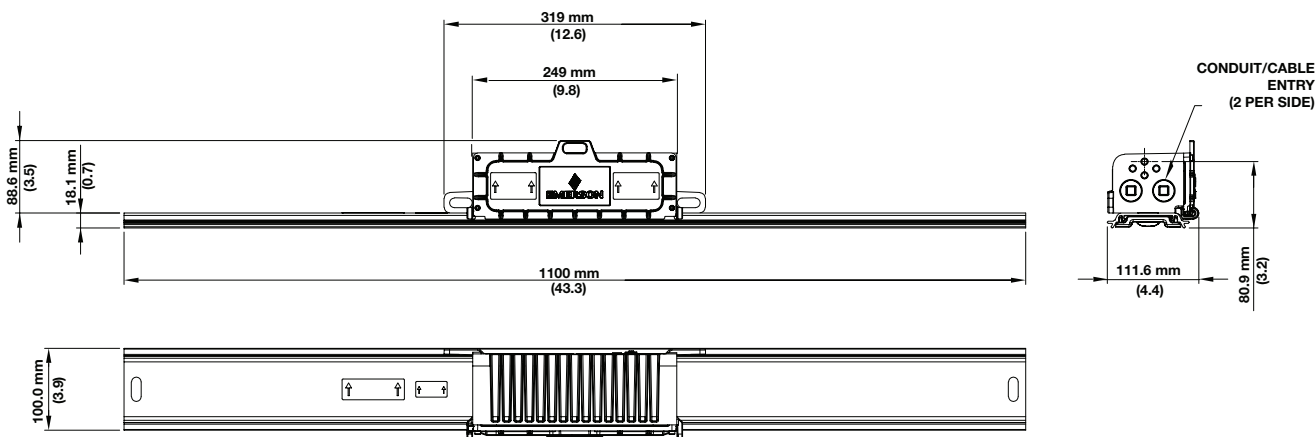
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Dimensions in Millimeters (Inches)



IRM*2 – Standard



IRM*4 – Standard

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

① Applicable to standard (non emergency) fixtures only.
Note: weight of brackets are provided separately

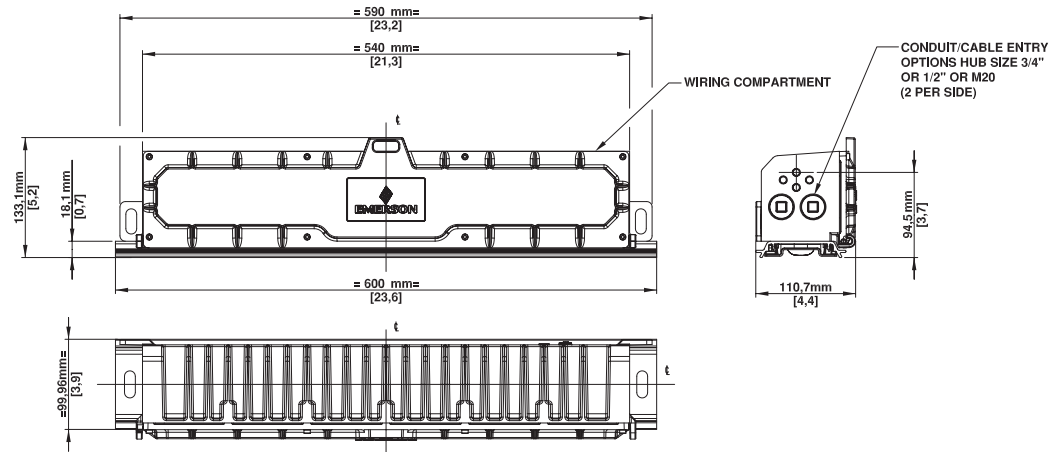
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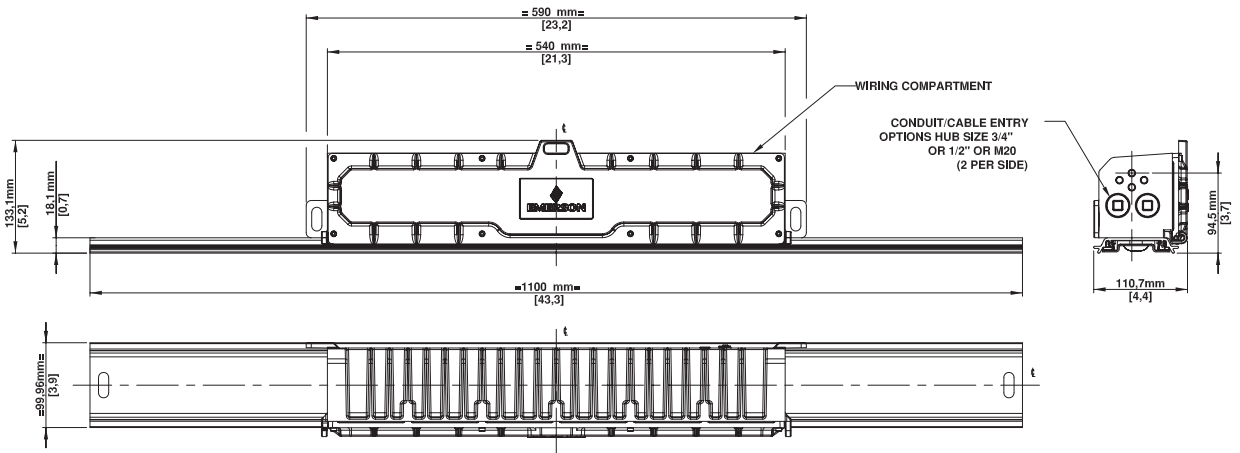
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Dimensions in Millimeters (Inches)



IRM*2 – Emergency



IRM*4 – Emergency

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

① Applicable to standard (non emergency) fixtures only.
Note: weight of brackets are provided separately

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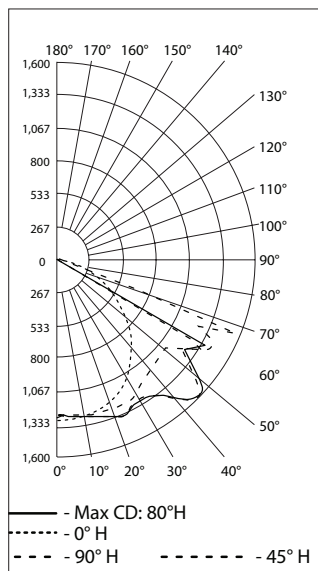
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Photometric Data — DATA SHOWN IS ABSOLUTE

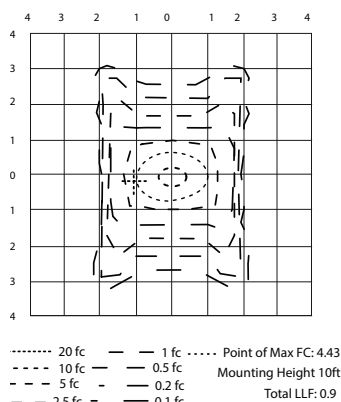
2ft, Clear Polycarbonate Lens, 5000K CCT

Luminaire Lumens 4,474.5

POLAR CANDELA DISTRIBUTION



ISOFOOTCANDLE PLOT



ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-30	1,056.6	23.6%
0-40	1,794.3	40.1%
0-60	3,627.9	81.1%
60-90	845.6	18.9%
70-100	254.1	5.7%
90-120	0.8	0%
0-90	4,473.4	100%
90-180	1.1	0%
0-180	4,474.5	100%

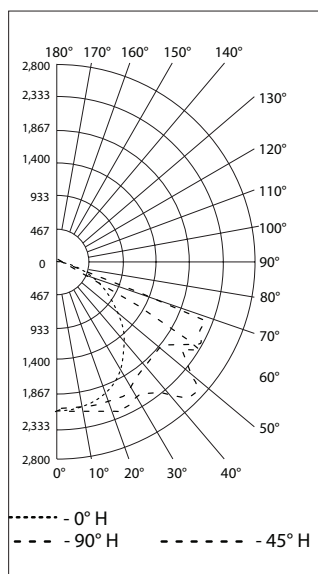
LUMENS PER ZONE

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	120.8	2.7%	90-100	0.7	0%
10-20	359.4	8.0%	100-110	0.1	0%
20-30	576.4	12.9%	110-120	0	0%
30-40	737.7	16.5%	120-130	0	0%
40-50	894.4	20.0%	130-140	0	0%
50-60	939.2	21.0%	140-150	0.0	0%
60-70	592.2	13.2%	150-160	0.1	0%
70-80	200.8	4.5%	160-170	0.1	0%
80-90	52.6	1.2%	170-180	0.0	0%

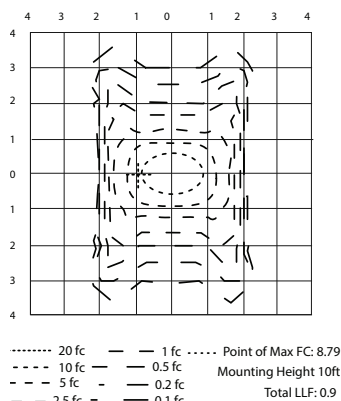
4ft, Clear Polycarbonate Lens, 5000K CCT

Luminaire Lumens 7,699.2

POLAR CANDELA DISTRIBUTION



ISOFOOTCANDLE PLOT



ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-30	1,801.0	23.4%
0-40	3,067.9	39.8%
0-60	6,235.4	81%
60-90	1,461.1	19%
70-100	432.4	5.6%
90-120	1.3	0%
0-90	7,696.5	100%
90-180	2.8	0%
0-180	7,699.2	100%

LUMENS PER ZONE

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	205.3	2.7%	90-100	0.8	0%
10-20	612.0	7.9%	100-110	0.3	0%
20-30	983.7	12.8%	110-120	0.2	0%
30-40	1,266.9	16.5%	120-130	0.2	0%
40-50	1,546.7	20.1%	130-140	0.2	0%
50-60	1,620.8	21.1%	140-150	0.3	0%
60-70	1,029.4	13.4%	150-160	0.3	0%
70-80	343.5	4.5%	160-170	0.3	0%
80-90	88.1	1.1%	170-180	0.1	0%

① Applicable to standard (non emergency) fixtures only.

Industrial Rigmaster™ LED Series Luminaires

Enclosed and Gasketed Fixtures

NEC/CEC:
cCSAus Listed
Type 3R, 4, 4X
IP66

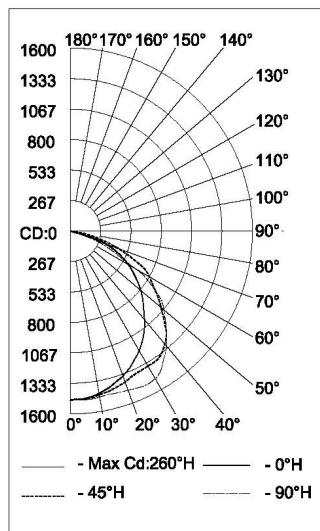
NEC/CEC:
Simultaneous Exposure
Suitable for Use in Wet Locations
American Bureau of Shipping (ABS) Certified
Marine Outside Type (Salt Water) ①

Photometric Data — DATA SHOWN IS ABSOLUTE

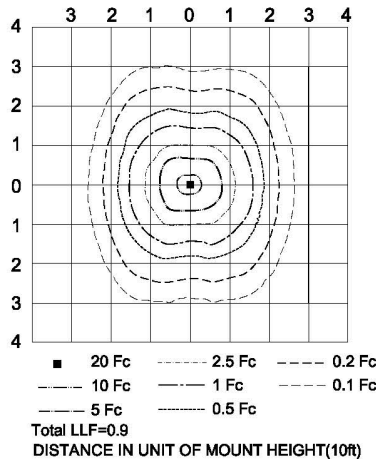
2ft, Diffused Polycarbonate Lens, 5000K CCT

Luminaire Lumens 4001.8

POLAR CANDELA DISTRIBUTION



ISOFOOTCANDLE PLOT



ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-30	1,040.1	26%
0-40	1,755.2	43.8%
0-60	3,209.6	80.2%
60-90	784.0	19.6%
70-100	294.5	7.4%
90-120	2.1	0.1%
0-90	3,993.7	99.8%
90-180	8.2	0.2%
0-180	4,001.8	100%

LUMENS PER ZONE

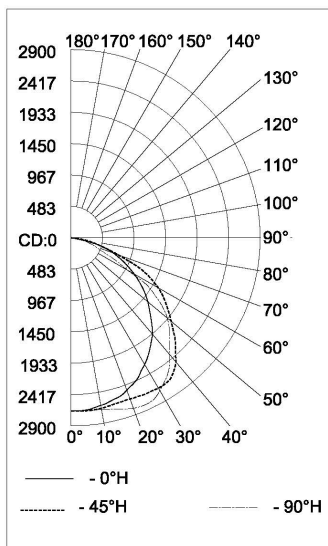
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	121.6	3.0%	90-100	0.3	0%
10-20	354.9	8.9%	100-110	0.7	0%
20-30	563.6	14.1%	110-120	1.1	0%
30-40	715.1	17.9%	120-130	1.3	0%
40-50	757.1	18.9%	130-140	1.4	0%
50-60	697.3	17.4%	140-150	1.3	0%
60-70	489.8	12.2%	150-160	1.0	0%
70-80	243.4	6.1%	160-170	0.7	0%
80-90	50.8	1.3%	170-180	0.3	0%

Photometric Data — DATA SHOWN IS ABSOLUTE

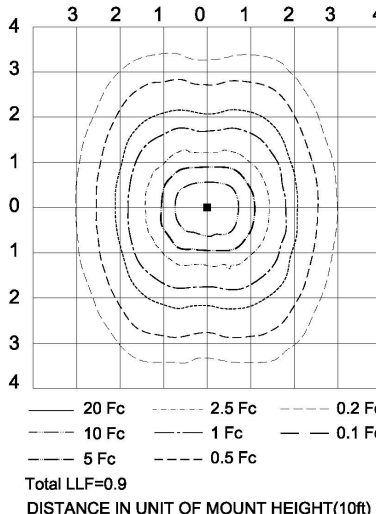
4ft, Diffused Polycarbonate Lens, 5000K CCT

Luminaire Lumens 6704.4

POLAR CANDELA DISTRIBUTION



ISOFOOTCANDLE PLOT



ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-30	1,746.5	26%
0-40	2,955.5	44.1%
0-60	5,403.7	80.6%
60-90	1,287.3	19.2%
70-100	490.5	7.3%
90-120	4.2	0.1%
0-90	6,691.0	99.8%
90-180	13.1	0.2%
0-180	6,704.1	100%

LUMENS PER ZONE

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	202.2	3.0%	90-100	1.4	0%
10-20	593.8	8.9%	100-110	1.2	0%
20-30	950.5	14.2%	110-120	1.7	0%
30-40	1,209.0	18.0%	120-130	1.9	0%
40-50	1,278.4	19.1%	130-140	2.0	0%
50-60	1,169.8	17.4%	140-150	1.9	0%
60-70	798.1	11.9%	150-160	1.5	0%
70-80	398.7	5.9%	160-170	1.0	0%
80-90	90.5	1.4%	170-180	0.4	0%

① Applicable to standard (non emergency) fixtures only.

Industrial Rigmaster™ LED Series Luminaires

Enclosed and Gasketed Fixtures

NEC/CEC:
cCSAus Listed
Type 3R, 4, 4X
IP66

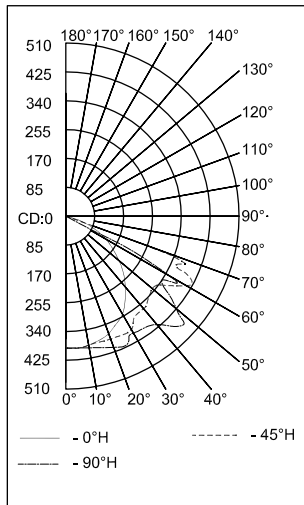
NEC/CEC:
Simultaneous Exposure
Suitable for Use in Wet Locations
American Bureau of Shipping (ABS) Certified
Marine Outside Type (Salt Water) ①

Photometric Data — DATA SHOWN IS ABSOLUTE

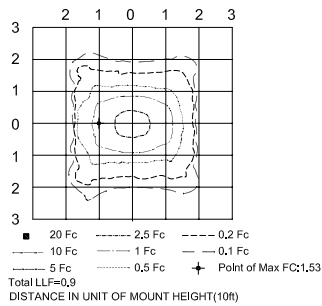
2ft Clear Polycarbonate Lens, 5000K CCT – Emergency Mode

Luminaire Lumens 1,364.9

POLAR CANDELA DISTRIBUTION



ISOFOOTCANDLE PLOT



ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-30	323.0	23.7%
0-40	549.1	40.2%
0-60	1,106.0	81%
60-90	255.9	18.7%
70-100	77.6	5.7%
90-120	0.7	0%
0-90	1,361.8	99.8%
90-180	2.9	0.2%
0-180	1,364.7	100%

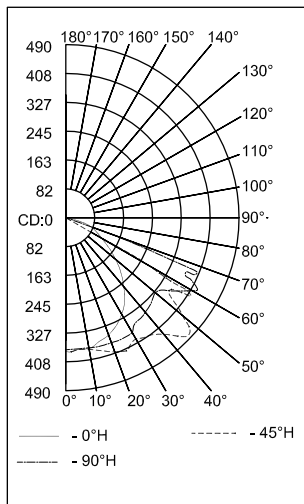
LUMENS PER ZONE

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	37.0	2.7%	90-100	0.2	0%
10-20	109.8	8.0%	100-110	0.2	0%
20-30	176.3	12.9%	110-120	0.3	0%
30-40	226.1	16.6%	120-130	0.5	0%
40-50	271.8	19.9%	130-140	0.5	0%
50-60	285.1	20.9%	140-150	0.5	0%
60-70	178.4	13.1%	150-160	0.4	0%
70-80	71.2	5.2%	160-170	0.3	0%
80-90	6.2	0.5%	170-180	0.1	0%

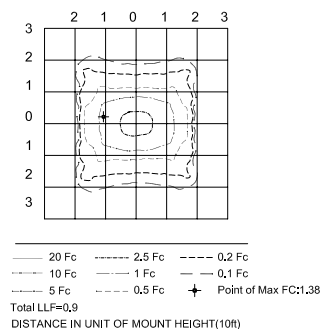
4ft Clear Polycarbonate Lens, 5000K CCT – Emergency Mode

Luminaire Lumens 1,360.2

POLAR CANDELA DISTRIBUTION



ISOFOOTCANDLE PLOT



ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-30	318.7	23.4%
0-40	544.4	40%
0-60	1,104.7	81.2%
60-90	253.8	18.7%
70-100	76.6	5.6%
90-120	0.3	0%
0-90	1,358.5	99.9%
90-180	1.5	0.1%
0-180	1,360.0	100%

LUMENS PER ZONE

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	36.1	2.7%	90-100	0.1	0%
10-20	107.7	7.9%	100-110	0.1	0%
20-30	174.9	12.9%	110-120	0.2	0%
30-40	225.7	16.6%	120-130	0.2	0%
40-50	273.7	20.1%	130-140	0.3	0%
50-60	286.7	21.1%	140-150	0.3	0%
60-70	177.3	13.0%	150-160	0.2	0%
70-80	70.4	5.2%	160-170	0.2	0%
80-90	6.2	0.5%	170-180	0.1	0%

① Applicable to standard (non emergency) fixtures only.