

MAR2 Series

Fluorescent lighting
for hazardous locations

 **RIG-A-LITE™**
An Avail Infrastructure Solutions Company



Classifications

- Class I, Division 2, Groups A, B, C & D
- UL 844 Hazardous Locations
- UL 924 Emergency Lighting
- UL 1598A Marine Outside Type
- CSA Certified
- Zone 2, Groups IIA, IIB, IIC
- 55°C Ambient Temperature Rating
- IP66
- Watershed Design
- Buy American Act (BAA) Compliant



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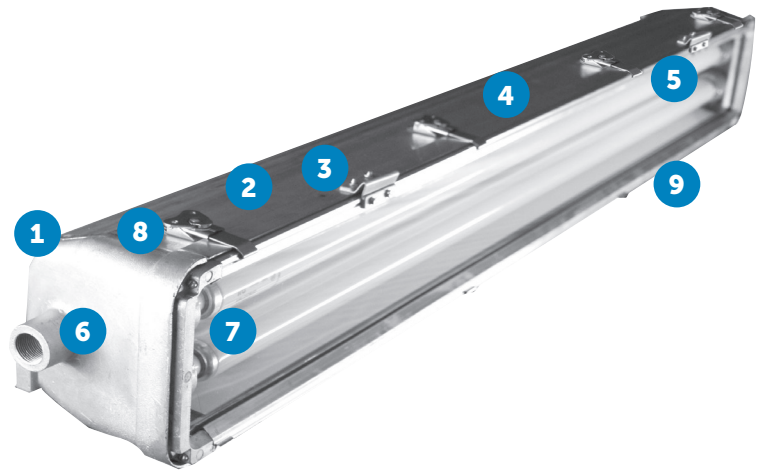
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Key Features

Each MAR 2 Series fixture is individually tested for functional and dielectrical strength at the factory to assure quality and reliability. This heavy-duty fixture arrives completely assembled.

- 1 Cast aluminum end caps with molded eye-bolt hubs
- 2 Streamlined ribbed corrosion-resistant, copper free extruded aluminum body for greater heat dissipation and extended ballast life
- 3 Ultra-violet resistant plastic hinges for ease of access and relamping
- 4 Watershed design
- 5 Shatter and heat resistant clear acrylic lens
- 6 Versatile mounting arrangements (360°)
- 7 Spring loaded sockets on one end for lamp stability and maximum shock and vibration protection
- 8 Stainless steel cam action lens latches for maximum strength and durability
- 9 Extruded aluminum lens frame for greater strength.



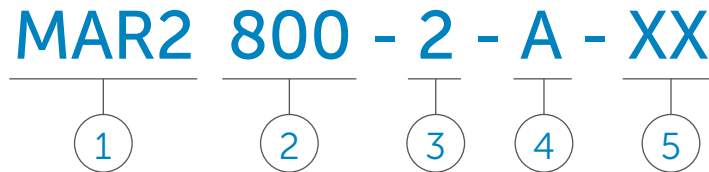
Additional Features

- Convenient access to wiring chamber and thermally protected class P ballast
- Marine Duty testing exceeds NEMA 4X requirements for hose-down pressure and corrosion testing
- Seismic testing by Structural Dynamics Research Corporation (full scale seismic fragility qualification)
Tested in frequencies of 1 to 31.6 hertz in 3-plane axis with maximum G force of 18.67 achieved

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Catalog Number Logic



1

BASIC SERIES

MAR2 Fluorescent Fixture
 Class I, Division 2, Groups A, B, C & D
 UL 844 Hazardous Locations
 UL 1598A Marine Outside Type
 CSA Certified
 Zone 2, Groups IIA, IIB & IIC
 55°C Ambient Temperature Rating

2

LAMP CURRENT/LAMP WATTAGE

800 = 800mA, 60/35 Watt
 430 = 430mA, 34/20 Watt (export only)
 425 = 425mA, 40/20 Watt (Slimline)
 265 = 265mA, 32/17 Watt (T8 Lamps)

3

NOMINAL FIXTURE LENGTH

2 = 2 Foot
 4 = 4 Foot

4

VOLTAGE FREQUENCY

E = 12V DC (425mA Only)
 F = 24V DC (425mA Only)
 G = 32V DC (425mA Only)
 H = 347V 60 HZ
 U = 120 thru 277V 50/60 HZ

5

OPTIONS¹

TW = End Mounting/Thru Wire
 Cable Installations Only
 F = Single Fuse²
 R = Radio Interference Filter
 L = Lamps
 EM = Emergency Battery Backup
 (Max 50°C)³
 TM = Tempered Glass
 HL = Hi-Lumen Ballast (T8 Only)
 EB = Eye Bolt Only

¹ Consult factory for pricing.

² Fuse option not available for marine listed fixtures.

³ Fixture housings with EM option are furnished with baked-on gray epoxy finish

Catalog logic is for explaining catalog number structure only. Not all combinations are possible; consult factory for catalog numbers not listed in charts.

Certification Guide

Model	Ambient Temperature °C	Class I, Division 2 Groups A, B, C & D	Supply Wire Suitable Temperature °C
MAR 430, 800	55	T4A	90
MAR 425	55	T4A	90
MAR 265	55	T4A	90

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Flourescent Series

(Lamps not included)	Description	Hub Size (inches)	Voltage	Catalog Number*
Four Foot Fixture	32 Watt, Instant Start Medium Bi-Pin, T8, 265mA, 48"	3/4	120-277V 50/60 HZ	MAR2265-4-U
	34 Watt, Rapid Start Medium Bi-Pin, T12 430mA, 48" (export only)	3/4	120-277V 50/60 HZ	MAR2430-4-U
	40 Watt, Instant Start F48 T12, Slimline Single Pin 425mA, 48"	3/4	12V DC	MAR2425-4-E
			24V DC	MAR2425-4-F
32V DC			MAR2425-4-G	
60 Watt, Rapid Start High Output T12, Recessed Double Contact 800mA, 48"	3/4	120-277V 50/60 HZ	MAR2800-4-U	
Two Foot Fixture	17 Watt, Instant Start, Medium Bi-Pin, T8, 265mA, 24"	3/4	120-277V 50/60 HZ	MAR2265-2-U
	20 Watt, Rapid Start Medium Bi-Pin, T12 430mA, 24" (export only)	3/4	120-277V 50/60 HZ	MAR2430-4-U
	40 Watt, Instant Start F48 T12, Slimline Single Pin 425mA, 48"	3/4	12V DC	MAR2425-2-E
			24V DC	MAR2425-2-F
32V DC			MAR2425-2-G	
35 Watt, Rapid Start High Output, T12, Recessed Double Contact, 800mA, 24"	3/4	120-277V 50/60 HZ	MAR2800-2-U	

* Add suffix "TW" for wire thru models

MAR22654U

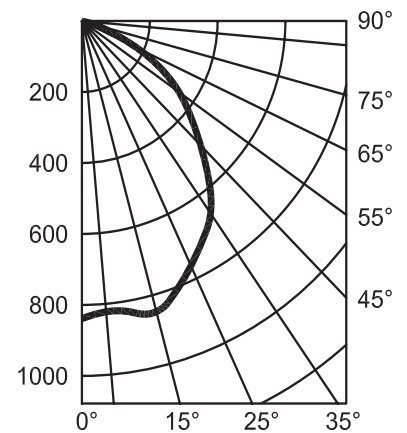
Coefficients of Utilization

% Effective Ceiling Cavity Reflectance r _{cc}	80			50			10		
	50	30	10	50	30	10	50	30	10
Room Cavity Ratio RCR	20% Effective Floor Cavity Reflectance								
1	.37	.35	.34	.35	.33	.32	.32	.31	.30
2	.32	.29	.27	.30	.28	.26	.28	.26	.25
3	.28	.25	.22	.26	.24	.22	.24	.23	.21
4	.25	.21	.19	.23	.20	.18	.21	.20	.18
5	.22	.18	.16	.21	.18	.16	.19	.17	.15
6	.19	.16	.14	.18	.16	.14	.17	.15	.13
7	.17	.14	.12	.17	.14	.12	.16	.13	.12
8	.16	.13	.10	.15	.12	.10	.14	.12	.10
9	.14	.11	.9	.14	.11	.9	.13	.11	.9
10	.13	.10	.8	.13	.10	.8	.12	.10	.8

Candlepower Distribution

Deg.	Parl.	22.5	45	67.5	Norm
0	838	838	838	838	838
5	822	822	822	822	822
15	843	844	847	848	848
25	759	762	765	763	761
35	669	673	673	665	662
45	512	514	508	499	495
55	386	384	373	357	351
65	228	224	207	188	180
75	83	79	621	50	46
85	5	5	5	4	4
90	0	0	0	0	0

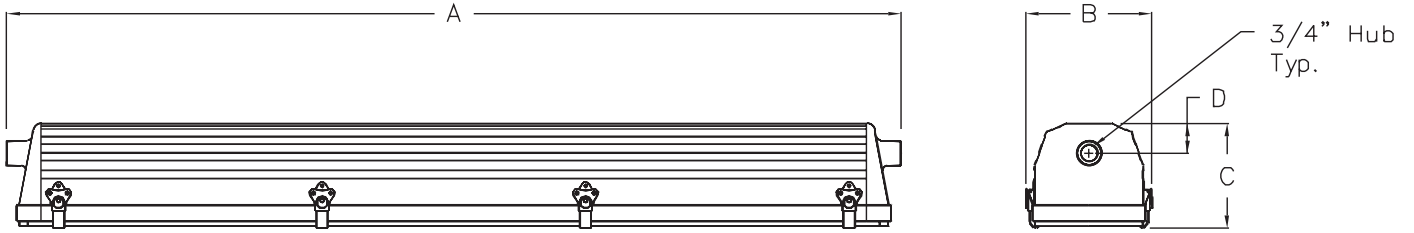
Fluorescent Photometrics



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Fixture Dimensions (inches)



MAR 2 Series	Dimensions (inches)				Boxed Weight	Shipping Volume (Boxed Fixtures)
	A	B	C	D		
4 ft. Models	52.13	7.38	6.19	1.81	36 lbs.	2.0 cu. ft.
2 ft. Models	28.13	7.38	6.19	1.81	26 lbs.	1.0 cu. ft.

Accessories

Straight Mounting Kit

Catalog Number:
53033

Shipping Weight:
5 lbs.



Offset Mounting Kit

Catalog Number:
53032

Shipping Weight:
5 lbs.



Safety Cable

Catalog Number:
10128R

Shipping Weight:
1 lb



Straight Brackets

2 Required

Catalog Number:
26364

Shipping Weight:
2 lbs.



Offset Brackets

2 Required

Catalog Number:
26348

Shipping Weight:
2 lbs.



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