

SAFR LED SERIES

Hazardous Location LED Luminaire

- Class I, Division 2, Groups A, B, C & D
- Class II, Division 1 & 2, Groups E, F & G
- Class III
- Class I, Zone 2, Groups IIA, IIB & IIC
- UL 8750 LED Safety
- UL 844 Hazardous Locations
- UL 1598 Wet Locations
- UL 1598A Marine Outside Type
- NEMA 3R & 4X
- IP66
- CUL
- ABS Type Approved
- Restricted Breathing
- AEx nR II
- Tested to LM 79 & LM 80
- Enclosed & Gasketed
- US Patent # D637,339S

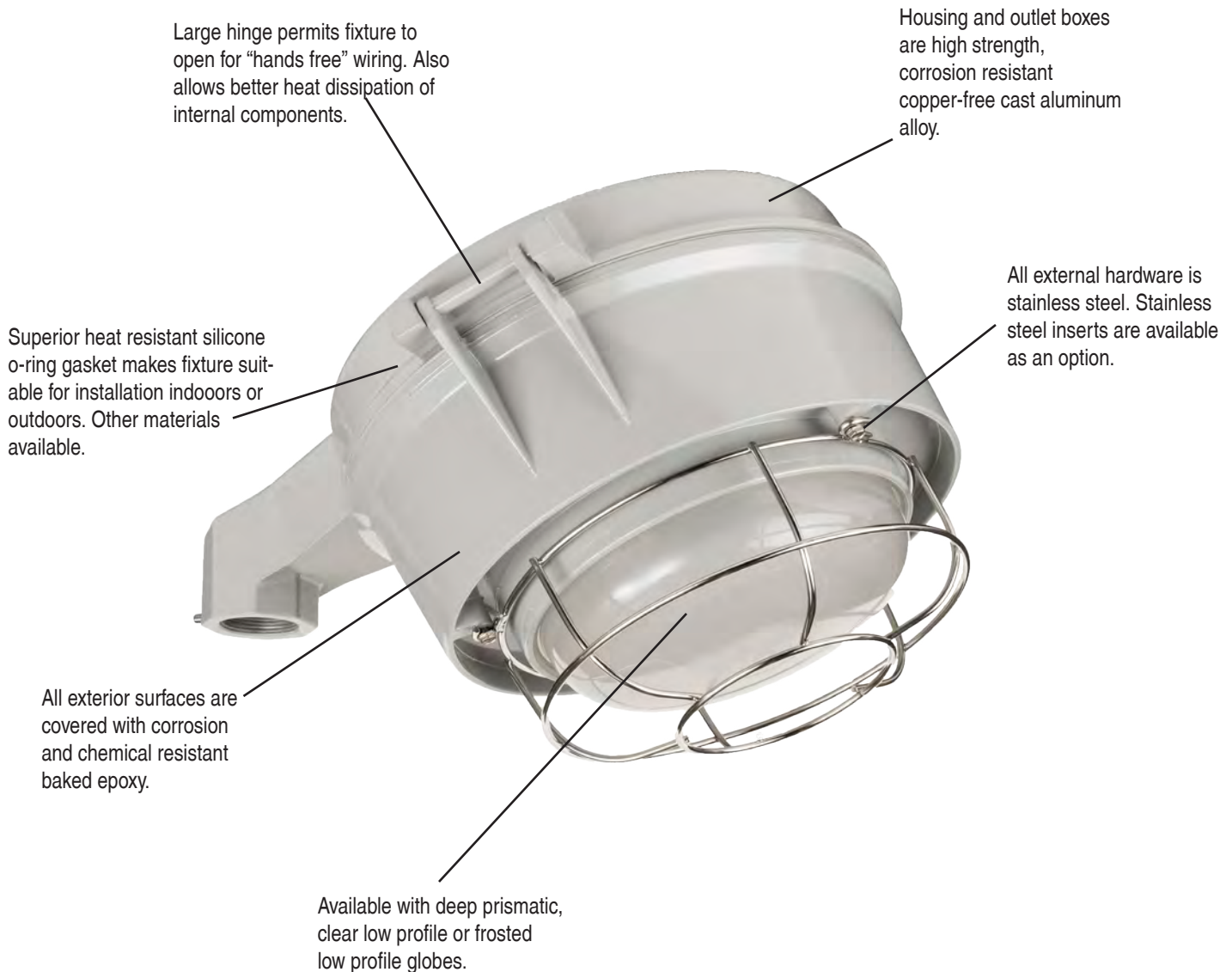


AZZ | R-A-L™
RIG-A-LITE

SAFR
LED

SAFR LED SERIES

Hazardous Location LED Luminaire



Suitable for installation on marine environments where equipment is subject to salt water spray, either indoor or outdoor.

- UL 844 Hazardous Locations
- UL 8750 LED Safety
- UL 1598A Marine Outdoor
- Enclosed and Gasketed
- Suitable for wet locations
- Suitable for hose down applications

LED SAFR Series

Hazardous Locations • Class I, Division 2 • Class II • Class III • UL 1598, 1598A, 844 & 8750 • Wet Locations • CSA Certified

Catalog Number Logic

SAFR-09-L-U-LFG-C-

1

2

3

4

5

6

7

- 1 BASIC SERIES SAFR**
Hazardous Location LED
Class I, Division 2, Groups A, B, C & D
Class II, Division 1 & 2, Groups E, F & G
Class III
Simultaneous Presence
Class I, Zone 2, Groups IIA, IIB & IIC
Enclosed and Gasketed
Wet Locations
NEMA 3R, 4X; IP66
UL 1598, 1598A, 844 & 8750
CUL
ABS Type Approved
Restricted Breathing
(Annual Testing Not Required)
AEx nR II
- 2 LAMP CURRENT/LAMP WATTAGE**
09 = 75 Watt
11 = 98 Watt
- 3 LAMP TYPE**
L = LED
- 4 DRIVER VOLTAGE**
U = 120 to 277V 50/60HZ
N = 347/480V 60HZ
- 5 GLOBE & GUARD**
LC = Low Profile Clear Globe Only
LCG = Low Profile Clear Globe & Guard
LF = Low Profile Frosted Globe Only
LFG = Low Profile Frosted Globe & Guard
T5 = Type V (Symmetric)
Closed Bottom Glass Refractor
T5G = Type V (Symmetric)
Closed Bottom Glass Refractor & Guard
- 6 MOUNTING STYLE**
P = 3/4" Pendant Mount
P1 = 1" Pendant Mount
C = 3/4" Ceiling Mount
C1 = 1" Ceiling Mount
W = 3/4" Wall Mount
W1 = 1" Wall Mount
S = 1-1/4" 25° Stanchion Mount
S1 = 1-1/2" 25° Stanchion Mount
L = 1-1/4" 90° Stanchion Mount
L1 = 1-1/2" 90° Stanchion Mount
K = 3/4" Cone Top
K1 = 1" Cone Top
- 7 OPTIONS¹**
SS = Stainless Steel Inserts (304)
FB1 = Single Fuse Block^{2,3}
FB2 = Double Fuse Block^{2,3}
TB = Terminal Block
SC = Safety Cable

¹ Consult factory for pricing

² Not available unless incoming voltage is specified.
When installed, one fuse block is provided for 120, 277V and two fuse blocks are provided for 208, 240 and 480V. Fuse not included. Not available on 347V or 480V

³ Fuse option not available for marine listed fixtures.

Certification Guide

MODEL	AMBIENT °C	Class I, Div.2	CLASS II & III		Simultaneous Presence	UL 1598A OUTDOOR	Class I, Zone 2	CUL	SUPPLY WIRE SUITABLE TEMP °C
		Groups A,B,C & D	GROUPS				AEx nR II		
SAFR09L	40	T4A	E,F,G	T6	T3C	YES	T4	YES	90
SAFR09L	55	T4A	E,F,G	T6	T3C	YES	T4	YES	105
SAFR11L	40	T3A	E,F,G	T6	T3A	YES	T3	YES	90
SAFR11L	55	T3A	E,F,G	T6	T3A	YES	T3	YES	105

Refer to Certification Guide to determine suitability of individual fixture.

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

LED

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Hazardous Locations • Class I, Division 2 • Class II • Class III • UL 1598, 1598A, 844 & 8750 • Wet Locations • CSA Certified

75 Watt Low Profile Threaded Refractor and Guard

Mounting Style	Conduit Size (in.)	Catalog Number 120/208/240/277V	Shipping Weight (lbs.)	CONSISTS OF			
				Ballast Housing	Outlet Box	Refractor	Guard
RIGID PENDANT 	3/4	SAFR09-L-U-T5-G-P	21.2	SAFR09LU	SMP	SRT25GL	SXP25WG
	1	SAFR09-L-U-T5-G-P1	21.2	SAFR09LU	SMP1	SRT25GL	SXP25WG
CEILING MOUNT 	3/4	SAFR09-L-U-T5-G-C	22.0	SAFR09LU	SMC	SRT25GL	SXP25WG
	3/4	SAFR09-L-U-T5-G-C1	22.0	SAFR09LU	SMC1	SRT25GL	SXP25WG
WALL MOUNT 	3/4	SAFR09-L-U-T5-G-W	21.2	SAFR09LU	SMW	SRT25GL	SXP25WG
	1	SAFR09-L-U-T5-G-W1	21.2	SAFR09LU	SMW1	SRT25GL	SXP25WG
25° STANCHION MOUNT 	1-1/4	SAFR09-L-U-T5-G-S	21.2	SAFR09LU	SMS	SRT25GL	SXP25WG
	1-1/2	SAFR09-L-U-T5-G-S1	21.2	SAFR09LU	SMS1	SRT25GL	SXP25WG
90° STANCHION MOUNT 	1-1/4	SAFR09-L-U-T5-G-L	22.0	SAFR09LU	SML	SRT25GL	SXP25WG
	1-1/2	SAFR09-L-U-T5-G-L1	22.0	SAFR09LU	SML1	SRT25GL	SXP25WG

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75 Watt Low Profile Clear Globe and Guard

Mounting Style	Conduit Size (in.)	Catalog Number 120/208/240/277V	Shipping Weight (lbs.)	CONSISTS OF			
				Ballast Housing	Outlet Box	Globe	Guard
RIGID PENDANT 	3/4 1	SAFR09-L-U-LCG-P SAFR09-L-U-LCG-P1	17.2	SAFR09LU	SMP	SGL10T	SXP10WG
			17.2	SAFR09LU	SMP1	SGL10T	SXP10WG
CEILING MOUNT 	3/4 1	SAFR09-L-U-LCG-C SAFR09-L-U-LCG-C1	18.0	SAFR09LU	SMC	SGL10T	SXP10WG
			18.0	SAFR09LU	SMC1	SGL10T	SXP10WG
WALL MOUNT 	3/4 1	SAFR09-L-U-LCG-W SAFR09-L-U-LCG-W1	17.2	SAFR09LU	SMW	SGL10T	SXP10WG
			17.2	SAFR09LU	SMW1	SGL10T	SXP10WG
25° STANCHION MOUNT 	1-1/4 1-1/2	SAFR09-L-U-LCG-S SAFR09-L-U-LCG-S1	17.2	SAFR09LU	SMS	SGL10T	SXP10WG
			17.2	SAFR09LU	SMS1	SGL10T	SXP10WG
90° STANCHION MOUNT 	1-1/4 1-1/2	SAFR09-L-U-LCG-L SAFR09-L-U-LCG-L1	18.0	SAFR09LU	SML	SGL10T	SXP10WG
			18.0	SAFR09LU	SML1	SGL10T	SXP10WG

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LED

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Hazardous Locations • Class I, Division 2 • Class II • Class III • UL 1598, 1598A, 844 & 8750 • Wet Locations • CSA Certified

75 Watt Low Profile Frosted Globe and Guard

Mounting Style	Conduit Size (in.)	Catalog Number* 120/208/240/277V	Shipping Weight (lbs.)	CONSISTS OF			
				Ballast Housing	Outlet Box	Globe	Guard
RIGID PENDANT 	3/4 1	SAFR09-L-U-LFG-P SAFR09-L-U-LFG-P1	17.2	SAFR09LU	SMP	SFGL10T	SXP10WG
			17.2	SAFR09LU	SMP1	SFGL10T	SXP10WG
CEILING MOUNT 	3/4 1	SAFR09-L-U-LFG-C SAFR09-L-U-LFG-C1	18.0	SAFR09LU	SMC	SFGL10T	SXP10WG
			18.0	SAFR09LU	SMC1	SFGL10T	SXP10WG
WALL MOUNT 	3/4 1	SAFR09-L-U-LFG-W SAFR09-L-U-LFG-W1	17.2	SAFR09LU	SMW	SFGL10T	SXP10WG
			17.2	SAFR09LU	SMW1	SFGL10T	SXP10WG
25° STANCHION MOUNT 	1-1/4 1-1/2	SAFR09-L-U-LFG-S SAFR09-L-U-LFG-S1	17.2	SAFR09LU	SMS	SFGL10T	SXP10WG
			17.2	SAFR09LU	SMS1	SFGL10T	SXP10WG
90° STANCHION MOUNT 	1-1/4 1-1/2	SAFR09-L-U-LFG-L SAFR09-L-U-LFG-L1	18.0	SAFR09LU	SML	SFGL10T	SXP10WG
			18.0	SAFR09LU	SML1	SFGL10T	SXP10WG

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LED

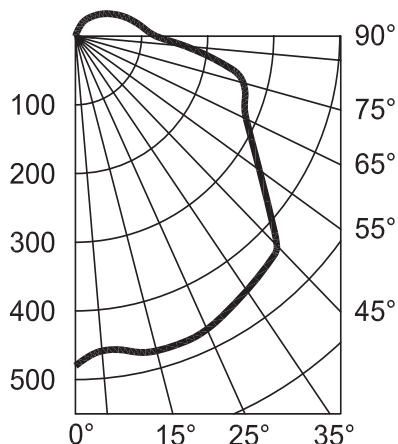
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Candlepower

Deg	Parl.	22.5	45	67.5	Norm
0	480	480	480	480	480
15	469	471	469	479	471
25	468	470	469	474	471
35	446	452	451	455	452
45	437	435	432	433	431
55	350	346	345	341	340
65	282	279	283	282	285
75	259	258	258	261	263
85	164	166	165	163	167
90	120	121	120	119	122

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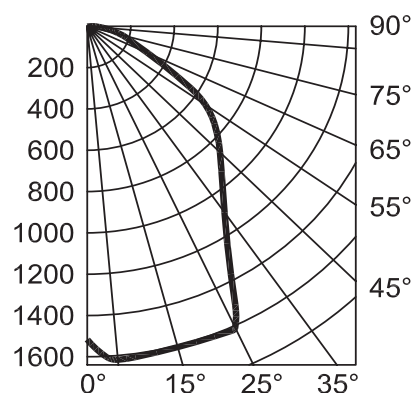


Total Lumens	2489
Input Power (watts)	75.1
Efficacy (Lumens/Watt)	33.1
CRI	73
CCT	5658

Candlepower

Deg	Parl.	22.5	45	67.5	Norm
0	1515	1515	1515	1515	1515
15	1659	1629	1683	1645	1608
25	1549	1478	1527	1580	1609
35	1099	1193	1223	1229	1100
45	858	851	858	865	863
55	642	666	709	680	663
65	340	328	340	348	307
75	181	178	179	173	171
85	69	73	72	71	68
90	37	39	39	37	36

SAFR09LULCGXX

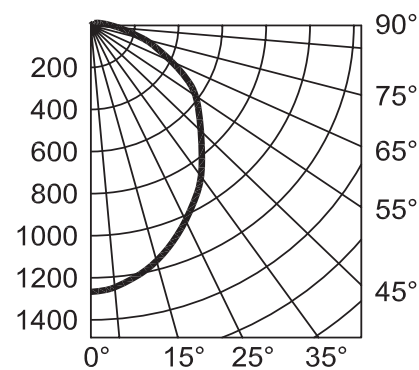


Total Lumens	4004
Input Power (watts)	74.9
Efficacy (Lumens/Watt)	52.8
CRI	73
CCT	5769

Candlepower

Deg	Parl.	22.5	45	67.5	Norm
0	1267	1267	1267	1267	1267
15	1174	1167	1163	1161	1159
25	1053	1049	1034	1028	1023
35	880	881	887	885	876
45	722	716	718	713	710
55	585	587	582	575	583
65	420	415	417	412	406
75	266	260	260	258	251
85	135	133	132	132	130
90	94	94	94	94	94

SAFR09LULFGXX



Total Lumens	3607
Input Power (watts)	74.9
Efficacy (Lumens/Watt)	47.6
CRI	72
CCT	5658

LED SAFR Series

Hazardous Locations • Class I, Division 2 • Class II • Class III • UL 1598, 1598A, 844 & 8750 • Wet Locations • CSA Certified

98 Watt Threaded Refractor and Guard

Mounting Style	Conduit Size (in.)	Catalog Number* 120/208/240/277V	Shipping Weight (lbs.)	CONSISTS OF			
				Ballast Housing	Outlet Box	Refractor	Guard
RIGID PENDANT 	3/4	SAFR11-L-U-T5-G-P	21.7	SAFR11LU	SMP	SRT25GL	SXP25WG
	1	SAFR11-L-U-T5-G-P1	21.7	SAFR11LU	SMP1	SRT25GL	SXP25WG
CEILING MOUNT 	3/4	SAFR11-L-U-T5-G-C	22.5	SAFR11LU	SMC	SRT25GL	SXP25WG
	3/4	SAFR11-L-U-T5-G-C1	22.5	SAFR11LU	SMC1	SRT25GL	SXP25WG
WALL MOUNT 	3/4	SAFR11-L-U-T5-G-W	21.2	SAFR11LU	SMW	SRT25GL	SXP25WG
	1	SAFR11-L-U-T5-G-W1	21.2	SAFR11LU	SMW1	SRT25GL	SXP25WG
25° STANCHION MOUNT 	1-1/4	SAFR11-L-U-T5-G-S	21.2	SAFR11LU	SMS	SRT25GL	SXP25WG
	1-1/2	SAFR11-L-U-T5-G-S1	21.2	SAFR11LU	SMS1	SRT25GL	SXP25WG
90° STANCHION MOUNT 	1-1/4	SAFR11-L-U-T5-G-L	22.0	SAFR11LU	SML	SRT25GL	SXP25WG
	1-1/2	SAFR11-L-U-T5-G-L1	22.0	SAFR11LU	SML1	SRT25GL	SXP25WG

* Catalog Nos. shown are for fixtures with IES Type V closed bottom glass refractors, for other type refractors, refer to Catalog Number Logic.

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LED

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98 Watt Low Profile Clear Globe and Guard

Mounting Style	Conduit Size (in.)	Catalog Number 120/208/240/277V	Shipping Weight (lbs.)	CONSISTS OF			
				Ballast Housing	Outlet Box	Globe	Guard
RIGID PENDANT 	3/4	SAFR11-L-U-LCG-P	17.2	SAFR11LU	SMP	SGL10T	SXP10WG
	1	SAFR11-L-U-LCG-P1	17.2	SAFR11LU	SMP1	SGL10T	SXP10WG
CEILING MOUNT 	3/4	SAFR11-L-U-LCG-C	18.0	SAFR11LU	SMC	SGL10T	SXP10WG
	1	SAFR11-L-U-LCG-C1	18.0	SAFR11LU	SMC1	SGL10T	SXP10WG
WALL MOUNT 	3/4	SAFR11-L-U-LCG-W	17.2	SAFR11LU	SMW	SGL10T	SXP10WG
	1	SAFR11-L-U-LCG-W1	17.2	SAFR11LU	SMW1	SGL10T	SXP10WG
25° STANCHION MOUNT 	1-1/4	SAFR11-L-U-LCG-S	17.2	SAFR11LU	SMS	SGL10T	SXP10WG
	1-1/2	SAFR11-L-U-LCG-S1	17.2	SAFR11LU	SMS1	SGL10T	SXP10WG
90° STANCHION MOUNT 	1-1/4	SAFR11-L-U-LCG-L	18.0	SAFR11LU	SML	SGL10T	SXP10WG
	1-1/2	SAFR11-L-U-LCG-L1	18.0	SAFR11LU	SML1	SGL10T	SXP10WG

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LED SAFR Series

Hazardous Locations • Class I, Division 2 • Class II • Class III • UL 1598, 1598A, 844 & 8750 • Wet Locations • CSA Certified

98 Watt Low Profile Frosted Globe and Guard

Mounting Style	Conduit Size (in.)	Catalog Number 120/208/240/277V	Shipping Weight (lbs.)	CONSISTS OF			
				Ballast Housing	Outlet Box	Globe	Guard
RIGID PENDANT 	3/4 1	SAFR11-L-U-LFG-P SAFR11-L-U-LFG-P1	17.2	SAFR11LU	SMP	SGL10T	SXP10WG
			17.2	SAFR11LU	SMP1	SGL10T	SXP10WG
CEILING MOUNT 	3/4 1	SAFR11-L-U-LFG-C SAFR11-L-U-LFG-C1	18.0	SAFR11LU	SMC	SGL10T	SXP10WG
			18.0	SAFR11LU	SMC1	SGL10T	SXP10WG
WALL MOUNT 	3/4 1	SAFR11-L-U-LFG-W SAFR11-L-U-LFG-W1	17.2	SAFR11LU	SMW	SGL10T	SXP10WG
			17.2	SAFR11LU	SMW1	SGL10T	SXP10WG
25° STANCHION MOUNT 	1-1/4 1-1/2	SAFR11-L-U-LFG-S SAFR11-L-U-LFG-S1	17.2	SAFR11LU	SMS	SGL10T	SXP10WG
			17.2	SAFR11LU	SMS1	SGL10T	SXP10WG
90° STANCHION MOUNT 	1-1/4 1-1/2	SAFR11-L-U-LFG-L SAFR11-L-U-LFG-L1	18.0	SAFR11LU	SML	SGL10T	SXP10WG
			18.0	SAFR11LU	SML1	SGL10T	SXP10WG

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LED

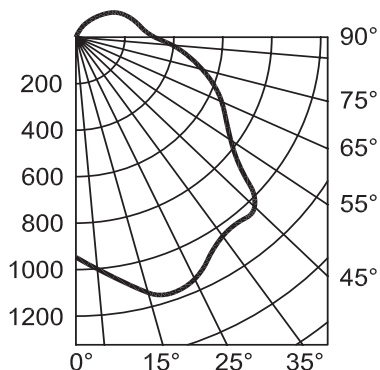
SAFR Series

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Candlepower

Deg	Parl.	22.5	45	67.5	Norm
0	947	947	947	947	947
15	1168	1153	1170	1146	1138
25	1123	1119	1150	1138	1148
35	1058	1041	1054	1033	1045
45	1044	1055	1023	1016	1032
55	783	771	763	751	772
65	651	655	641	647	657
75	537	534	528	533	534
85	418	410	407	404	396
90	337	331	327	328	322

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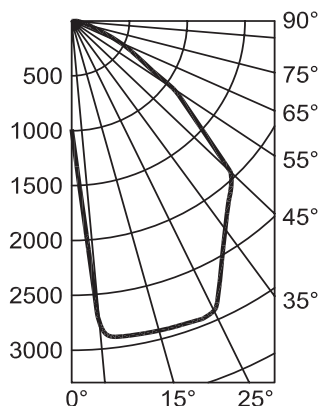


Total Lumens	5866
Input Power (watts)	98.5
Efficacy (Lumens/Watt)	59.7
CRI	69
CCT	5944

Candlepower

Deg	Parl.	22.5	45	67.5	Norm
0	987	987	987	987	987
15	2642	2842	2756	2732	2925
25	2769	2706	2795	2382	2956
35	2532	1950	2120	2430	1916
45	2308	2260	2352	2205	1971
55	1544	996	1082	1509	1043
65	458	439	427	534	456
75	233	218	191	227	177
85	117	76	83	92	67
90	69	47	51	57	49

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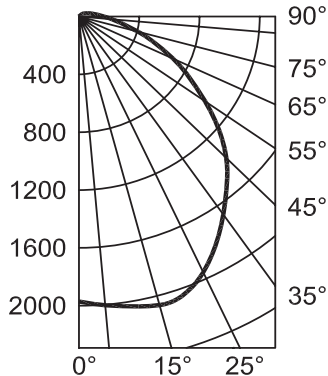


Total Lumens	7177
Input Power (watts)	98.4
Efficacy (Lumens/Watt)	73.1
CRI	71
CCT	6212

Candlepower

Deg	Parl.	22.5	45	67.5	Norm
0	1971	1971	1971	1971	1971
15	2073	2069	2065	2064	2066
25	1953	1952	1942	1933	1952
35	1660	1667	1667	1679	1671
45	1393	1374	1376	1403	1383
55	1015	1002	1026	1051	1023
65	678	673	695	694	689
75	413	405	409	412	405
85	227	224	225	225	222
90	170	168	168	167	166

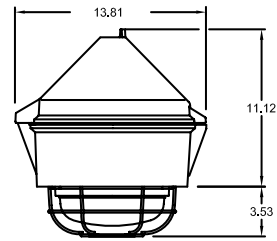
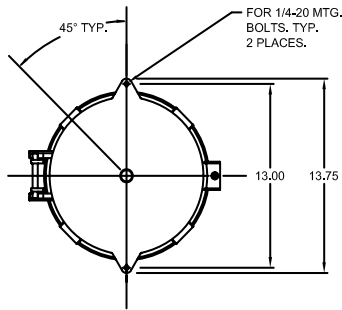
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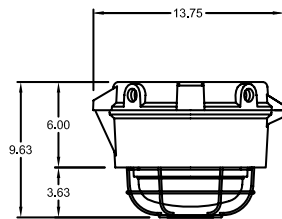
Total Lumens	6470
Input Power (watts)	98.3
Efficacy (Lumens/Watt)	65.9
CRI	71
CCT	6084

LED SAFR Series

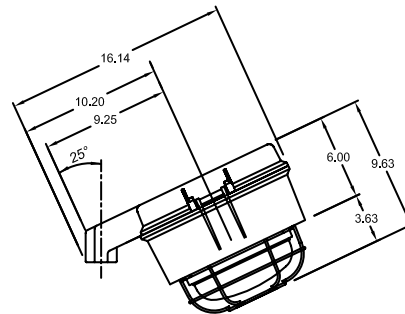
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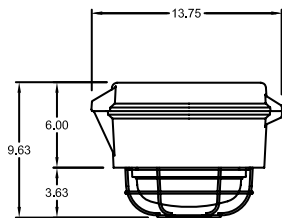
Cone mount with threaded glass globe and guard.



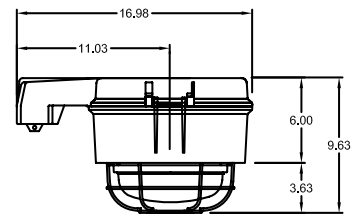
Ceiling mount with threaded glass globe and guard.



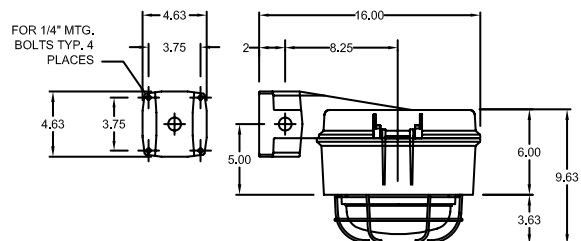
25° Stanchion mount with threaded glass globe and guard.



Pendant mount with threaded glass globe and guard.



90° Stanchion mount with threaded glass globe and guard.

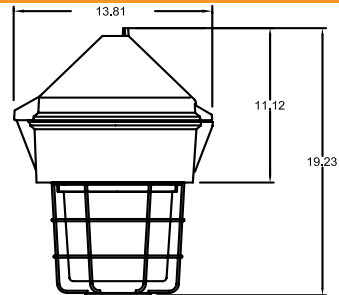
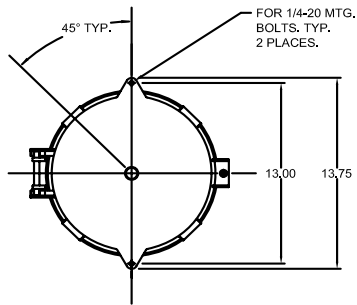


Wall mount with threaded glass globe and guard.

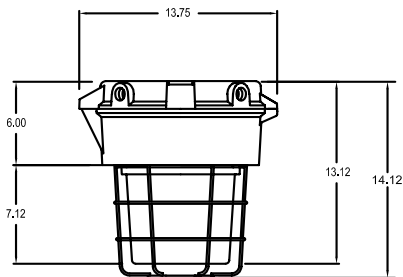
Refer to Certification Guide to determine suitability of individual fixture.

LED SAFR Series

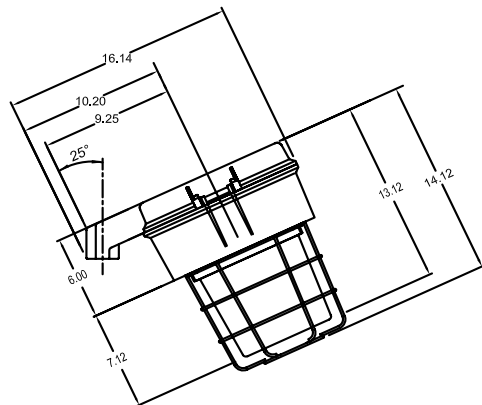
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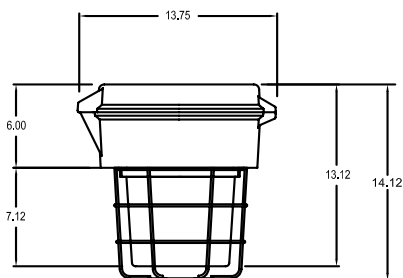
Cone mount with threaded glass refractor and guard.



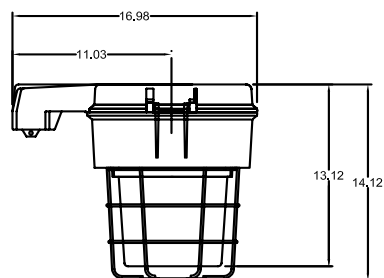
Ceiling mount with threaded glass refractor and guard.



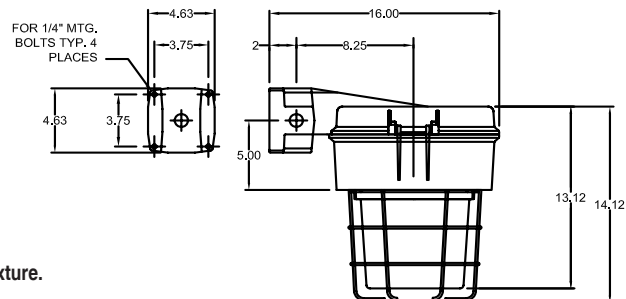
25° Stanchion mount with threaded glass refractor and guard.



Pendant mount with threaded glass refractor and guard.



90° Stanchion mount with threaded glass refractor and guard.



Wall mount with threaded glass refractor and guard.

Refer to Certification Guide to determine suitability of individual fixture.

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Accessories

Outlet Boxes	Catalog No.	Conduit Hub Size (In.)	Shipping Weight (Lbs.)	Reflectors	Catalog No.	Description	Shipping Weight (Lbs.)
Rigid Pendant 	SMP	3/4	3.3		SR40D ^①	Standard Dome Reflector Fiberglass Reinforced Polyester for use with 7 3/4 in. dia. Globe	3.0
	SMP1	1	3.3				
Ceiling Mount 	SMC	3/4	4.1		SR40DD ^①	Deep Dome Reflector Clear Prismatic Acrylic for use with 7-3/4 in. dia. Globe	7.0
	SMC1	3/4	4.1				
Cone Mount 	SMK	3/4	14.5		SR40A ^①	30° Angle Reflector Fiberglass Reinforced Polyester for use with 7-3/4 in. dia. Globe	4.5
	SMK1	1	14.5				
Wall Mount 	SMW	3/4	7.8		SR40HB ^①	High Bay Aluminum Reflector with baked on white enamel for use with 7-3/4 in. dia. Globe	5.0
	SMW1	1	7.8				
Stanchion Mount (25°) 	SMS	3/4	5.9				
	SMS1	1	5.9				
Stanchion Mount (90°) 	SML	3/4	5.9				
	SML1	1	5.9				

Refer to Certification Guide to determine suitability of individual fixture.

^① Not suitable for wall mount applications.

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Accessories

Guards	Catalog No.	Description	Shipping Weight (Lbs.)
	SXP25WG	Stainless Steel Wire Guard for Type 1, 3 & 5 refractors	1.50
	SXP10WG	Stainless Steel Wire Guard for Low Profile Clear and Frosted Globes	1.00
Fuse Kit	Catalog No.	Description	Shipping Weight (Lbs.)
	SBF600	Open fuse block kit- 600 volt AC maximum.	.06

Glass Globe	Catalog No.	Description	Shipping Weight (Lbs.)
	SRT25GL	IES Type V light distribution (asymmetrical)	6.6
	SGL10T	Low Profile Clear Globe	4.2
	SFGL10T	Low Profile Frosted Globe	4.2

Fixtures ordered with refractors are not suitable to be ordered with reflectors.

Photo Cell Kit*	Catalog No.	Description	Shipping Weight (Lbs.)
	SPH25-120	Automatic on-off switch at predetermined light levels. 120 volt only. REQUIRES FIELD INSTALLATION.	.19

* Not Suitable for hazardous locations.

Hazardous Location Photo Cell Kit*	Catalog No.	Description	Shipping Weight (Lbs.)
	HLP-120	Automatic on-off switch at predetermined light levels. (120 volt only)	.25
	HLP-208-277	REQUIRES FIELD INSTALLATION.	.25

Refer to Certification Guide to determine suitability of individual fixture.

NOTES