

FRS SERIES

CLEANROOM | NSF RATED | RECESSED | PANEL



CLEANROOMS | LABORATORIES | RESEARCH FACILITIES | FOOD AREAS | NATATORIUMS

Project:	
Type:	
Catalog #:	



MOUNTING

Suitable for installation in recessed 15/16"-1.5" T-Grid or hard ceiling applications. Hard ceiling (flange) type mounts via swing arm brackets that extend and clamp with a single screw action. Swing arm bracket also serves as connection for earthquake cables.

HOUSING

18 gauge cold rolled steel die-formed to shape with seams welded, ground smooth, and caulked airtight. Aluminum and 304 stainless steel available.

DOOR

One-piece 18 gauge cold rolled steel, gasketed and sealed overlapping door. Freedom Hinge™ design permits removal and hinging from either side. Aluminum and 304 stainless steel available.

LENS

Optic Plus lens (standard) completely hides diode image while providing greater than 90% light transmission.

FINISH

Polyester powder-coated after phosphate pretreatment for superior adhesion and corrosion resistance. Brushed stainless steel available.

HARDWARE

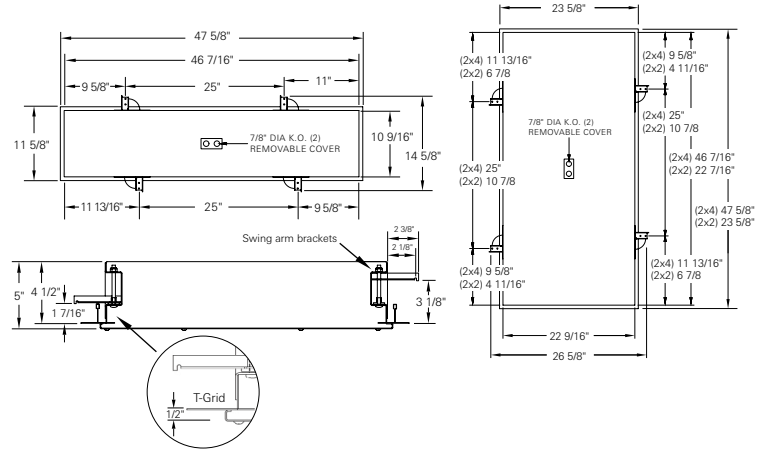
Recessed stainless steel fasteners.

DRIVER

0-10VDC 1% dimming, >0.9 PF, <20% THD
Factory programmable.
Operating Temp: -40°C - 50°C

1X2 | 2X2 | 2X4

Ceiling Grid / Flange Design



WIRING

Driver provided with pre-wired 3-wire self-aligning input power quick disconnect and 2-wire quick disconnect to LED module.

CERTIFICATIONS

UL Listed wet location, IP66 rated, IC rated. Suitable for use in ISO-3 clean rooms (209E Class 1). Suitable for use in Natatorium Environments. USP 797 and USP 800 compliant. Certified NSF2 for splash/non-food zones.

ORDERING INFORMATION

MODEL	SIZE	LED SOURCE	CCT	CRI	DOOR MATERIAL	DOOR FINISH	HOUSING MATERIAL					
FRS	1 1X4	See page 2	30 3000K	8* 80 CRI*	CRS Cold Rolled Steel (standard)	WH White (standard)	AL Aluminum					
	2 2X2		35 3500K					9 90 CRI	ALU Aluminum	BR Brushed (stainless only)	ST Stainless Steel	
	4 2X4		40 4000K									STS 304 Stainless Steel
			50 5000K									

ORDERING INFORMATION continued

VOLTAGE	DRIVER	INTERNAL LENS	EXTERNAL LENS	OPTIONS
A 120-277V	Y 0-10V Dim	ACR Optic Plus LED diffusing acrylic (standard) RFG Optic Plus w/ RF grid ^{1/2} LEX 0.125" LED diffusing Lexan	N No external lens C 0.125" clear polycarbonate lens	2CW Two circuit wired ANT Anti-microbial coating (exposed areas) CUL Canadian UL Listing CHI CCEA Chicago BBU Emergency battery backup FAH Fuse & holder IOS Integral occ sensor NIL Night light, LED PLF Plaster frame RIF Radio interference filter, one per circuit ²

1. Must be used with RF filter

* 80 CRI standard. Consult factory for 90 CRI option

2. Must use aluminum or stainless steel housing and doors for natatorium

CRI	LED Life
>80	>100,000

LED Source	3000K		3500K		4000K		5000K		Input Watts
	Delivered Lumens	L/W	Delivered Lumens	L/W	Delivered Lumens	L/W	Delivered Lumens	L/W	
1' x 4' Fixture									
F1W55M	5160	126	5237	128	5391	131	5545	135	41.0
F2W75M	7543	126	7656	128	7881	132	8106	136	59.8
F2W100M	9883	125	10030	126	10325	130	10620	134	79.3
F2W130M	13228	121	13425	122	13820	126	14215	130	109.6
2' x 2' Fixture									
F2W55M	5212	127	5290	129	5445	133	5601	137	41.0
F2W70M	6681	122	6781	124	6980	127	7179	131	54.8
F4W80M	8110	127	8231	129	8473	133	8715	137	63.7
F4W100M	10424	127	10579	129	10890	133	11202	136	82.1
F4W140M	13362	122	13561	124	13960	127	14359	131	109.6
F6W180M	17572	125	17834	127	18358	131	18883	134	140.5
F6W200M	20043	122	20342	124	20940	127	21538	131	164.4
2' x 4' Fixture									
F2W55M	5617	141	5701	143	5869	147	6037	152	39.8
F2W90M	8953	132	9087	134	9354	138	9621	142	67.6
F2W120M	11754	131	11930	133	12281	137	12631	141	89.8
F3W160M	16279	132	16522	134	17008	138	17494	142	123.1
F3W200M	20868	127	21180	129	21802	133	22425	136	164.4
F4W230M	23509	131	23859	133	24561	137	25263	141	179.6
F4W270M	26131	129	26521	131	27301	134	28081	138	203.2
F6W300M	29322	136	29760	138	30635	142	31510	146	216.3
F6W350M	35263	131	35789	133	36842	137	37894	141	269.4
F6W400M	41736	127	42359	129	43605	133	44851	136	328.7

Specified Output Option

FME programmable drivers allows us to deliver a specific lumen output. If none of the options in the chart above fit your application, let us know the desired lumen output and we will do the rest. See the example for a 2x4 on how this will be specified:

Photometric Data @ 80 CRI with ACR lens

33 lens multiplier	.86
90 CRI multiplier	.83