

1' X 4'

1, 2, or 3 Lamp

T5, T5HO or T8

A premium quality surface modular for use in areas where vandalism is common.

CONSTRUCTION/FINISH

- For surface or pendant mounting. 2 lamp models require 2 stems for pendant mounting, 1 and 3 lamp models require 4 stems.
- 4" deep metal sided unit.
- Housing is multi-stage phosphate treated for maximum corrosion resistance and painted after fabrication with white polyester powder coating.
- K.O.'s provided in ends allow individual or continuous row mounting.

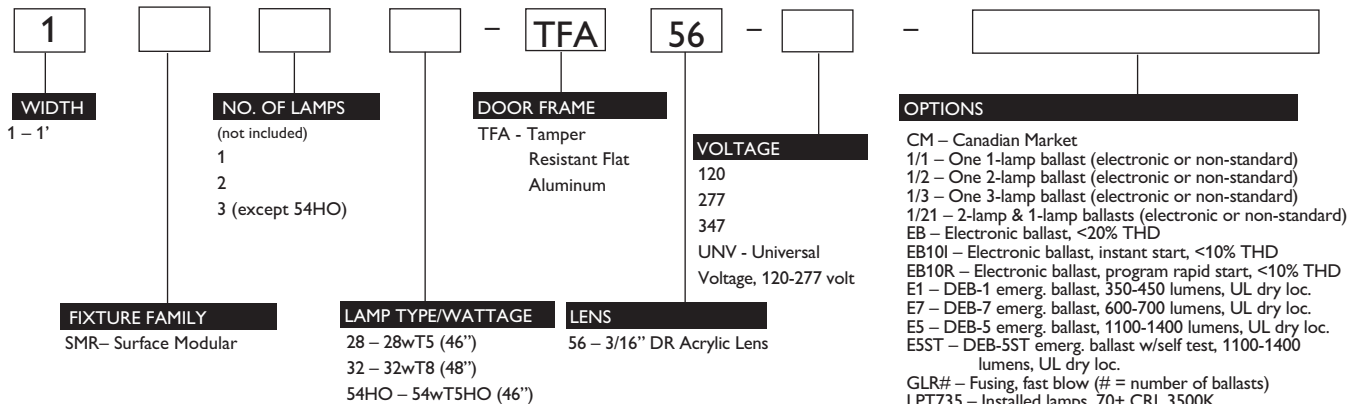
ELECTRICAL

- Class P, HPF ballasts comply with Federal Ballast Law (Public Law 100-357, 1988).
- UL listed for direct mounting on low density ceilings and damp locations.
- Canadian certified optional.
- Self-contained fluorescent emergency power packs can be incorporated, UL listed for dry locations.

ENCLOSURES

- Door latches secured with 2 Torx head pin drive screws.
- Special screwdriver required, catalog # TPDTH sold separately.
- Vanguard high-impact extruded acrylic Gridless Octex; nominal thickness, 3/16", minimum weight 15 oz./sq. ft.
- Lens withstands impact of 70 ft. lbs. at 75° F, with the lens supported on all four edges.
- Painted after fabrication door frames feature mitered corners, T-hinges, and guide post spring-loaded latches.

CATALOG NUMBER



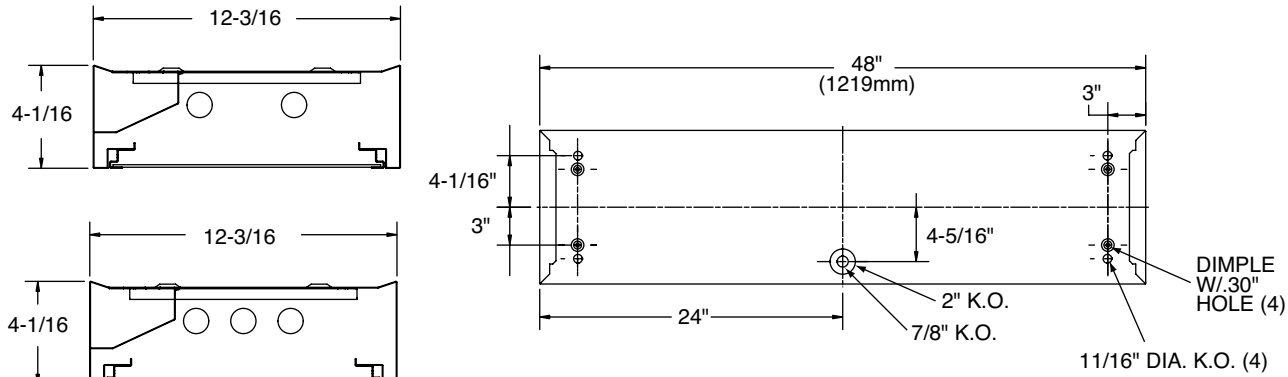
See section 1600-OA for option information.
See page 950-SS for mounting hardware.



Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled, "Contain Mercury" and/or the symbol "HG". Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

JOB INFORMATION

DIMENSIONS



PHOTOMETRIC DATA

CATALOG # 1SMR232-TFA01-1/2-EB LAMPS = F32T8

INPUT WATTS = 56

LER = 63

TEST #25373 S/MH=1.3

BALLAST = ELECTRONIC BALLAST FACTOR = .88

FIXTURE EFFICIENCY = 70.2%

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$3.81 BASED ON 3000 HRS. AND \$.08 PER KWH.

CANDLEPOWER				
Angle	End	45	Cross	
0	1688	1688	1688	
5	1688	1686	1679	
10	1667	1673	1675	
15	1630	1653	1666	
20	1581	1620	1647	
25	1511	1576	1613	
30	1426	1514	1549	
35	1297	1411	1418	
40	1144	1246	1221	
45	976	1000	1005	
50	791	773	761	
55	603	562	559	
60	444	371	422	
65	322	229	315	
70	235	156	234	
75	173	145	174	
80	114	124	111	
85	67	80	64	

MAINTAINED ILLUMINATION TABLE- Square Feet/
Fixture*

- 80-50-20 Reflectances (Ceiling-Wall-Floor)
- LLF = 0.75 2850 Lumens/Lamp very clean
- Room width divided by room height = 5 or more, 2 or 1

Fixture Size & # of Lamps	Room Width Room Height =	Approx. Area (sq. ft.) per Fixture				
		10 ft-c	30 ft-c	50 ft-c	70 ft-c	100 ft-c
1' X 4'	5	-	106	64	46	32
2-Lamp T8	2	-	75	45	32	-
	1	-	56	34	-	-

*Observe Fixture S/MH Requirements for Specific Applications

AVERAGE LUMINANCE
CD/SQ.M
WITH 2850 LUMEN LAMPS

ANGLE	END	45°	CROSS
45	4823	4941	4966
55	3673	3423	3405
65	2662	1893	2604
75	2335	1957	2349
85	2686	3207	2566

TYPICAL V.C.P.'s
Room Mounting Height

Room Size	Lengthwise		Crosswise	
	8.5	10	8.5	10
30x30	53	58	53	58
40x40	48	53	49	53
60x30	55	60	55	60
60x60	43	47	44	48
100x100	40	42	42	43

COEFFICIENT OF UTILIZATION

pfc pcc pw	20				70				50			
	70	50	30	10	70	50	30	10	50	30	10	30
RCR	0	83	83	83	81	81	81	78	78	78	78	78
	1	77	73	71	75	72	69	69	69	68	68	68
	2	70	66	61	68	65	60	61	58	58	58	58
	3	65	58	54	64	57	53	56	52	52	52	52
	4	59	53	46	58	52	46	50	46	46	46	46
	5	56	47	41	54	46	40	45	40	40	40	40
	6	52	42	36	51	41	36	40	35	35	35	35
	7	47	39	34	46	39	33	38	33	33	33	33
	8	45	35	29	44	35	29	34	29	29	29	29
	9	41	33	28	40	33	28	32	27	27	27	27
	10	40	30	25	39	29	25	29	25	25	25	25

LIGHT DISTRIBUTION

DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	1350	23.7	33.7
0-40	2210	38.8	55.2
0-60	3495	61.3	87.3
0-90	4004	70.2	100.0

LLF = .75 LLF = LIGHT LOSS FACTOR LLF = LDD X LLD X BF LDD = VERY CLEAN 0.94 CLEAN 0.90
 LLD = 0.91 @ 40% RATED LAMP LIFE BF = 0.88 ELECTRONIC BALLAST & T8 LAMP (RELAMP AT 70% LAMP LIFE)

PHOTOMETRIC DATA

CATALOG # 1SMR332-TFA01-1/3-EB LAMPS = F32T8

INPUT WATTS = 80

LER = 63

TEST #25075 S/MH=1.3

BALLAST = ELECTRONIC BALLAST FACTOR = .88

FIXTURE EFFICIENCY = 66.8%

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$3.81 BASED ON 3000 HRS. AND \$.08 PER KWH.

CANDLEPOWER				
Angle	End	45	Cross	
0	2515	2515	2515	
5	2510	2510	2504	
10	2478	2489	2490	
15	2427	2446	2462	
20	2345	2388	2416	
25	2238	2303	2339	
30	2099	2188	2216	
35	1911	2026	2007	
40	1662	1759	1708	
45	1397	1416	1374	
50	1111	1079	1030	
55	844	755	761	
60	617	501	573	
65	443	304	431	
70	319	217	321	
75	238	206	238	
80	155	174	151	
85	92	104	83	

MAINTAINED ILLUMINATION TABLE- Square Feet/
Fixture*

- 80-50-20 Reflectances (Ceiling-Wall-Floor)
- LLF = 0.75 2850 Lumens/Lamp very clean
- Room width divided by room height = 5 or more, 2 or 1

Fixture Size & # of Lamps	Room Width Room Height =	Approx. Area (sq. ft.) per Fixture				
		10 ft-c	30 ft-c	50 ft-c	70 ft-c	100 ft-c
1' X 4'	5	-	-	91	65	46
3-Lamp T8	2	-	108	65	46	33
	1	-	81	49	35	-

*Observe Fixture S/MH Requirements for Specific Applications

AVERAGE LUMINANCE
CD/SQ.M
WITH 2850 LUMEN LAMPS

ANGLE	END	45°	CROSS
45	6903	6997	6789
55	5141	4599	4636
65	3662	2513	3563
75	3213	2781	3213
85	3688	4169	3327

TYPICAL V.C.P.'s
Room Mounting Height

Room Size	Lengthwise		Crosswise	
	8.5	10	8.5	10
30x30	45	50	45	50
40x40	40	44	41	45
60x30	47	52	47	52
60x60	36	39	37	40
100x100	34	35	36	37

COEFFICIENT OF UTILIZATION

pfc pcc pw	20				70				50			
	70	50	30	10	70	50	30	10	50	30	10	30
RCR	0	80	80	80	78	78	78	73	73	73	73	73
	1	73	70	68	71	68	67	66	65	65	65	65
	2	68	63	58	66	61	57	58	56	56	56	56
	3	61	56	51	60	55	51	53	48	48	48	48
	4	57	50	45	56	50	45	47	44	44	44	44
	5	53	46	40	52	45	40	44	39	39	39	39
	6	50	40	35	47	40	35	40	34	34	34	34
	7	46	38	32	45	36	32	35	32	32	32	32
	8	42	34	28	41	34	28	33	28	28	28	28
	9	40	32	27	39	32	27	30	26	26	26	26
	10	38	29	25	36	28	23	28	23	23	23	23

LIGHT DISTRIBUTION

DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	1988	23.2	34.8
0-40	3225	37.7	56.5
0-60	5015	58.7	87.8
0-90	5710	66.8	100.0

LLF = .75 LLF = LIGHT LOSS FACTOR LLF = LDD X LLD X BF LDD = VERY CLEAN 0.94 CLEAN 0.90
 LLD = 0.91 @ 40% RATED LAMP LIFE BF = 0.88 ELECTRONIC BALLAST & T8 LAMP (RELAMP AT 70% LAMP LIFE)



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