

**FEATURES**

- Only 4½" deep. Modular dimensions
- Clean mitered corners, no overlap
- Heavy gauge flush steel shielding frame screw assembled for easy diffuser replacement
- Optional flush or regressed aluminum shielding frames available
- Rotary lock lampholders for positive lamp contact
- Door frame and corners are sealed with an open cell foam gasket

**PROJECT INFORMATION**

Project Name \_\_\_\_\_

Type \_\_\_\_\_

Catalog No. \_\_\_\_\_

Date \_\_\_\_\_

**HOUSING**

Heavy gauge steel. Die formed with center beam construction for extra rigidity. Corners are mitered, no overlap. Designed for surface mounting.

**FINISH**

All parts painted with high gloss baked white enamel, minimum reflectance 86%, applied over iron phosphate pre-treatment for maximum adhesion and rust resistance.

**BALLASTS**

Energy efficient, thermally protected, automatic resetting, Class P, high power factor, sound rated A, magnetic or electronic ballasts. CEE NEMA Premium compliant.

**SHIELDING**

Standard twin flush steel frame supplied with two 2' x 4' lenses of clear prismatic acrylic. Aluminum frames supplied with one piece diffuser.

**ELECTRICAL**

Standard class "P", thermally protected, autoresetting HPF ballast, sound rated A. CEE NEMA Premium compliant. All ballast leads extend a minimum of 6" through access location. NEC/CEC-compliant ballast disconnect is standard.

**CERTIFICATION**

All luminaires are built to UL 1598 standards and bear appropriate UL and cUL or CSA labels. Damp location labeling is standard. Emergency-equipped fixtures labeled UL 924.

**ORDERING INFORMATION**

**EXAMPLE SM44-432-RAA12.187-4EU**

<b>SM</b>	<b>44</b>	-	-	-	-	-
<b>MODEL</b> SM Surface Mount	<b>NO. OF LAMPS</b> 4 Four 6 Six 8 Eight	<b>DOOR</b> FS Flush Steel TFS Twin White Flush Steel* FA Flush Aluminum RA Regressed Aluminum  For a complete list of lenses and louvers, see options and accessories section.		<b>VOLTAGE</b> U 120V-277V 347 347V	<b>OPTIONS</b> GLR Fast Blow Fuse EL Emergency Battery Pack  Note: 4' x 4' fixtures require four stems for stem mounting. For a complete list of options, see options and accessories section.	
<b>SIZE</b> 44 4' x 4'	<b>LAMP TYPE</b> 28 4', T5: 28 Watt 32 4', T8: 32, 30, 28 or 25 Watt 54 4', T5HO: 54 or 51 Watt		<b>TFS SHIELDING</b> A12 Acrylic, Pattern 12 A12.125 Acrylic, Pattern 12.125 Nominal A19 Acrylic, Pattern 19.156 Male Prism PC1 Polystyrene Silver Parabolic Louver ½" x ½" x ½" PC2 Polystyrene Silver Parabolic Louver 1½" x 1½" x 1"  <b>FA OR FS SHIELDING</b> A12.187 One Piece Acrylic Prismatic Pattern 12.187  Twin Panel Diffusers Not Available in Flush or Regressed Aluminum Frames.		<b>BALLAST</b> E Electronic T8, Instant Start 4E 4-Lamp Electronic T8, Instant Start EP Electronic T5 or T8, Programmed Start 4EP 4-Lamp Electronic T5HO (N/A 347V) or T8, Programmed Start	

\* One door assembly with two lenses installed and center support frame.



### PHOTOMETRIC DATA

Test 9029 Test Date 1/8/03

#### LUMINAIRE DATA

Luminaire	SM44-440-TFSA12-LE SM Surface Mounted 4 x 4 4-L Single Door with Twin Clear Acrylic Prisms Panels
Ballast	(2) R-2540
Ballast Factor	0.95
Lamp	F40CW
Lumens per Lamp	3150
Watts	164
Shielding Angle	N/A
Spacing Criterion	0° = 1.24 90° = 1.43
Luminous Opening in Feet	Length: 3.83 Width: 3.83 Height: 0.00

#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	2539	20.2	30.0
0-40	4232	33.6	50.1
0-60	7193	57.1	85.1
0-90	8452	67.1	100.0
0-180	8452	67.1	100.0

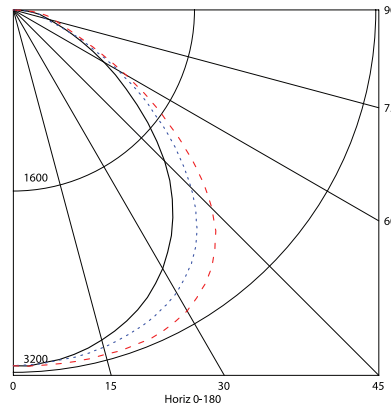
#### ENERGY DATA

Total Luminaire Efficiency	67.1%
Luminaire Efficacy Rating (LER)	49
ANSI/IESNA RP-1-2004 Compliance	Noncompliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$4.90 based on 3000 hrs. and \$0.08 per KWH

#### COEFFICIENTS OF UTILIZATION (%)

RCR	RW	80				70				50				0
		70	50	30	10	70	50	30	10	50	30	10	0	
1	74	71	68	65	72	69	67	64	66	64	62	57	0	
2	67	62	58	54	66	61	57	54	59	55	52	49	0	
3	62	55	50	46	60	54	49	45	52	48	45	42	0	
4	57	49	43	39	55	48	43	39	47	42	38	36	0	
5	52	44	38	34	51	43	38	34	42	37	33	31	0	
6	48	40	34	30	47	39	34	30	38	33	29	28	0	
7	45	36	30	26	44	36	30	26	35	30	26	24	0	
8	42	33	27	24	41	33	27	24	32	27	23	22	0	
9	39	30	25	21	38	30	25	21	29	24	21	20	0	
10	37	28	23	19	36	28	23	19	27	22	19	18	0	

#### INDOOR CANDELA PLOT



#### AVG. LUMINANCE (Candela/Sq. M.)

Average Luminance Angle	0.0	22.5	45.0	67.5	90.0
0	2305	2305	2305	2305	2305
30	2234	2298	2442	2557	2599
40	2089	2204	2415	2582	2650
45	1960	2068	2308	2497	2570
50	1767	1861	2110	2290	2354
55	1554	1622	1860	1991	2039
60	1358	1381	1575	1654	1683
65	1165	1172	1262	1327	1342
70	1004	1019	965	1139	1141
75	927	972	834	1111	1126
80	1010	1010	1023	1183	1297
85	1061	1103	1145	1339	1415

RCR = Room Cavity Ratio

RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

#### DIMENSIONAL DATA

**A** - 7/8" Diameter Knockout  
**C** - 5/8" Diameter Knockout

**4' x 4' 4-Lamp**

48" total width, 4 1/2" height, 12 5/16" spacing between lamps.

**4' x 4' 6-Lamp**

48" total width, 4 1/2" height, 6 5/16" spacing between lamps.

**4' x 4' 8-Lamp**

48" total width, 4 1/2" height, 6 1/16" spacing between lamps.

Optional One Piece Acrylic Prismatic Diffuser -  
**A12.187** in FS, RA or FA door

Optional Regressed Aluminum Frame - RA

Optional Flush Aluminum Frame - FA

**NOTE:** All dimensions are in inches; dimensions and specifications are subject to change without notice. Please consult factory or check sample for verification.