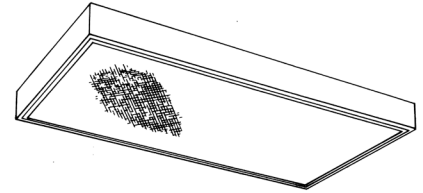


Surface Suspended

Surface Modular
2, 3, or 4 Lamp
T5, T5HO, or T8



construction/finish

- For surface or pendant mounting. 2 and 4 lamp models require 2 stems for pendant mounting. 3 lamp models require 4 stems.
- 4" deep metal sided unit allows a wide choice of lens and shallow metal or plastic louvers.
- 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

- cULus listed for direct mounting on low density ceilings and damp locations.
- Self-contained fluorescent emergency power packs can be incorporated, listed for dry locations.

enclosures

- Mitered corner door frames painted after fabrication with a choice of: Flat Steel, Flat Aluminum, or Regressed Aluminum.
- Door frames standard with guide post spring loaded latches.
- Prismatic acrylic pattern 12 lens standard (01). Other lenses and louvers optional.
- Can be hinged and latched from either side.

Specifier's Reference

Project
Type
Model No.
Comments

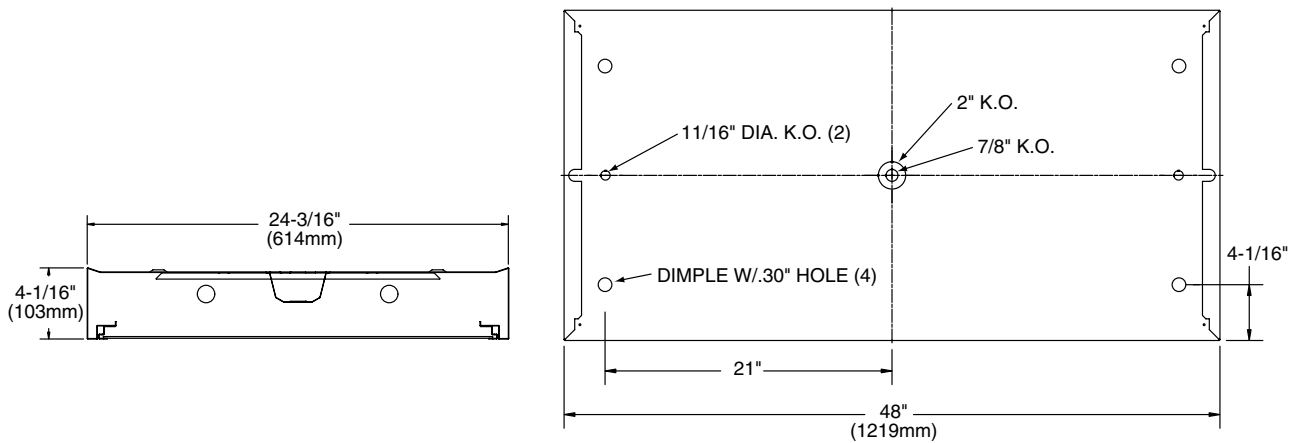
Green Choice: 2SMR232-FS01-UNV-1/2EBLHE

2	SMR	-	-	-	-	-
Width	No. of Lamps (not included)	Door Frame	Voltage	Options		
2 - 2'	2 3 4	FS - Flat Steel FA - Flat Aluminum RA - Regressed Aluminum	120 277 347 UNV - Universal Voltage, 120-277 volt	1/2 - One 2-lamp ballast 1/3 - One 3-lamp ballast 1/21 - 2-lamp & 1-lamp ballasts 1/4 - One 4-lamp ballast 2/2 - Two 2-lamp ballasts EB - Electronic ballast, <20% THD EBL - Electronic ballast, low ballast factor (low light output) EBH - Electronic ballast, high ballast factor (high light output) EB101 - T8 electronic ballast, instant start, <10% THD EB10R - Electronic ballast, program rapid start, <10% THD EBHE - T8 electronic ballast, high efficiency, std. ballast factor EBLHE - T8 electronic ballast, high efficiency, low ballast factor EBHHE - T8 electronic ballast, high efficiency, high ballast factor E1 - DEB-1 emerg. ballast, T8, 350-450 lumens, 120/277V E1CAN - DEB-1 emerg. ballast, Canada market, T8, 350-450 lumens, 120/347V E7 - DEB-7 emerg. ballast, T8, 600-700 lumens E5 - DEB-5 emerg. ballast, US or Canada market, T8, 1100-1400 lumens, 120/277V ESCAN - DEB-5 emerg. ballast, Canada market, T8, 1100-1400 lumens, 120/347V ESST - DEB-5ST emerg. ballast w/self test, T8, 1100-1400 lumens E7LP - DEB-7 emerg. ballast, T8/T5/T5HO, 430-700 lumens E6LP - DEB-6LP emerg. ballast, US or Canada market, T8/T5/T5HO, 750-1325 lumens, 120/277V GLR# - Fusing, fast blow (# = number of ballasts) 1W - 1-way gasketing, between lens & door frame 2W - 2-way gasketing, 1W + gasketing between door frame & housing		
Fixture Family	Lamp Type/Wattage	Lens				
SMR - Surface Modular	28 - 28wT5 (46") 32 - 32wT8 (48") 54 - 54wT5HO (46")	01 - Pattern 12 Prismatic Acrylic 12 - DB-12, .125" nominal 19 - DB-19, .156" nominal 21 - Patt. 12, .125" nominal 30 - 1/2"x1/2"x1/2" silver plastic louver 34 - 1-1/2"x1-1/2"x1-1/2" silver plastic louver 52 - 3/4"x3/4"x1/2" silver plastic louver				
See page 401-SR for Lens Option Information.						

See Section 1600-OA for Option Information.

See Page 950-SS for Mounting Hardware.





photometry

Surface Modular
 2 Lamp T8

Efficiency – 81.2%

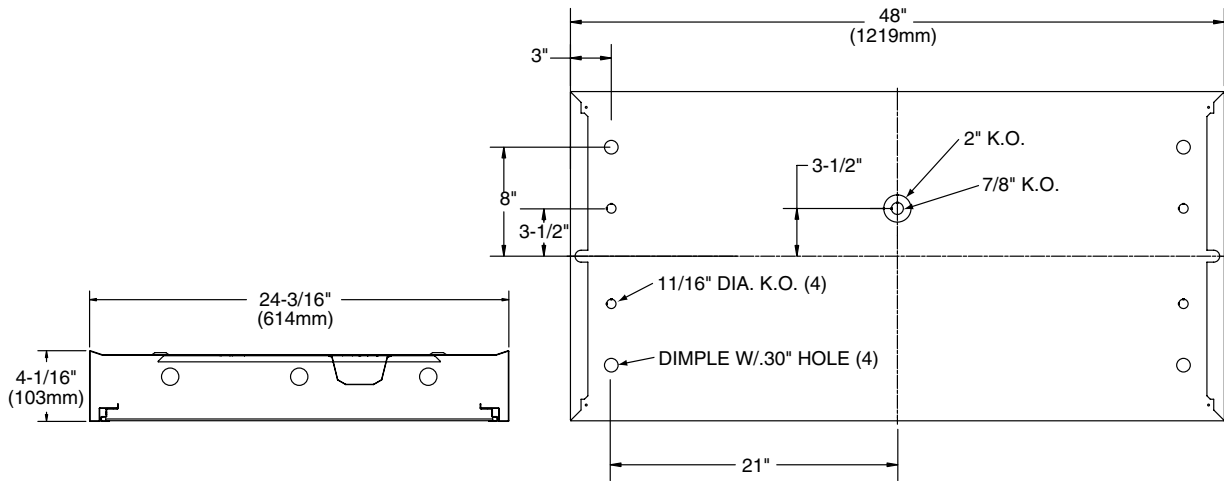
LER – 69

TER – 60

Catalog No.		Candlepower				Light Distribution				Average Luminance				
Test No.		Angle	End	45	Cross	Degrees	Lumens	% Lamp	% Luminaire	Angle	End	45°	Cross	
2SMR232-FS01-1/2-EB		0	1661	1661	1661	0-30	1343	23.6	29.0	45	2183	2737	3040	
1.5		5	1667	1658	1646	0-40	2254	39.5	48.7	55	1741	2214	2481	
F32T8		10	1645	1648	1647	0-60	3906	68.5	84.4	65	1312	1495	1715	
.88		15	1610	1632	1646	0-90	4626	81.2	100.0	75	1262	1173	1310	
59		20	1565	1605	1641					85	1492	1457	1439	
		25	1496	1574	1629	Coefficients of Utilization								
		30	1415	1528	1614	EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)								
		35	1308	1470	1580	pcc	80	70	50	70	50	30	50	30
		40	1168	1389	1512	pw	70	50	30					
		45	997	1250	1388	RCR								
		50	816	1048	1180	0	96	96	96	93	93	93	90	90
		55	645	820	919	1	89	84	81	86	82	80	80	77
		60	481	594	673	2	81	75	69	79	72	68	70	66
		65	358	408	468	3	73	66	59	71	65	58	63	57
		70	270	271	320	4	68	58	52	66	57	51	56	50
		75	211	196	219	5	63	53	46	60	52	45	50	44
		80	153	152	147	6	57	47	40	56	46	40	45	39
		85	84	82	81	7	54	42	35	53	42	35	40	34
						8	50	39	33	48	39	32	38	32
						9	46	35	29	46	35	28	34	28
						10	44	33	27	42	33	27	32	27

Comparative yearly lighting energy cost per 1000 lumens – **\$3.48** based on 3000 hrs. and \$.08 pwr KWH.

The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.



photometry

Surface Modular
3 Lamp T8

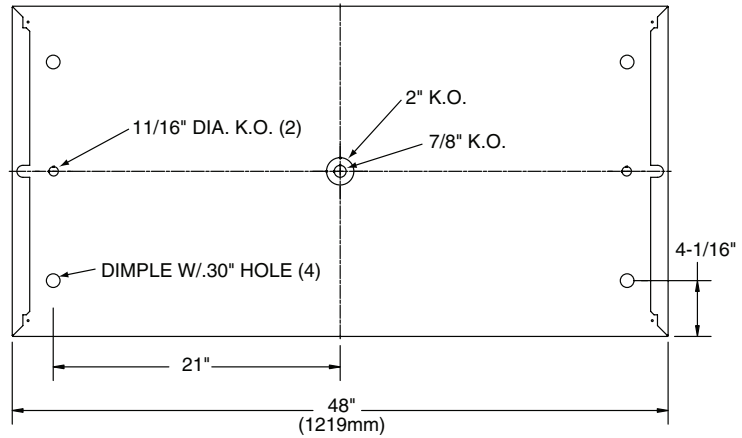
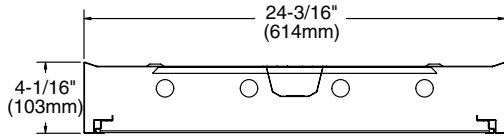
Efficiency – 78.7%

LER – 71

TER – 62

Catalog No. 2SMR332-FS01-1/3-EB Test No. 25201 S/MH 1.4 Lamp Type F32T8 Ballast Factor .88 Input Watts 84	Candlepower				Light Distribution				Average Luminance			
	Angle	End	45	Cross	Degrees	Lumens	% Lamp	% Luminaire	Angle	End	45°	Cross
	0	2486	2486	2486	0-30	1996	23.3	29.7	45	3252	3850	4183
	5	2487	2476	2471	0-40	3325	38.9	49.4	55	2573	3115	3547
	10	2459	2461	2469	0-60	5684	66.5	84.4	65	1916	2129	2535
	15	2398	2431	2461	0-90	6731	78.7	100.0	75	1837	1699	1897
	20	2326	2388	2443					85	2185	2043	1883
	25	2227	2325	2414								
	30	2103	2248	2359								
	35	1945	2141	2268								
40	1741	1981	2121									
45	1485	1758	1910									
50	1223	1469	1633									
55	953	1154	1314									
60	713	845	980									
65	523	581	692									
70	393	390	464									
75	307	284	317									
80	224	212	208									
85	123	115	106									
Comparative yearly lighting energy cost per 1000 lumens – \$3.38 based on 3000 hrs. and \$.08 pwr KWH. The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.	Coefficients of Utilization											
	EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)											
	pcc	80	70	50								
	pw	70	50	30	70	50	30	50	30	50	30	
	RCR											
	0	93	93	93	92	92	92	86	86			
	1	85	82	79	83	81	78	78	75			
	2	79	72	68	77	70	67	68	65			
	3	71	64	57	69	63	56	60	56			
	4	66	56	51	65	56	50	54	48			
	5	60	51	45	59	51	44	48	42			
6	56	46	40	55	46	39	44	39				
7	52	41	34	51	40	34	40	34				
8	48	38	32	47	38	32	36	30				
9	46	34	28	45	34	28	34	28				
10	42	33	26	41	32	26	30	26				

dimensions



photometry

Surface Modular
4 Lamp T8

Efficiency – 77.8%

LER – 72

TER – 63

Catalog No. 2SMR432-FS01-1/4-EB Test No. 25199 S/MH 1.4 Lamp Type F32T8 Ballast Factor .88 Input Watts 109 Comparative yearly lighting energy cost per 1000 lumens – \$3.33 based on 3000 hrs. and \$.08 pwr KWH. The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.	Candlepower				Light Distribution				Average Luminance			
	Angle	End	45	Cross	Degrees	Lumens	% Lamp	% Luminaire	Angle	End	45°	Cross
	0	3269	3269	3269	0-30	2628	23.1	29.6	45	4277	5183	5553
	5	3285	3258	3245	0-40	4379	38.4	49.4	55	3385	4187	4643
	10	3238	3236	3239	0-60	7504	65.8	84.6	65	2517	2840	3180
	15	3165	3205	3233	0-90	8866	77.8	100.0	75	2387	2214	2465
	20	3067	3156	3207					85	2860	2807	2701
	25	2937	3079	3163	Coefficients of Utilization							
	30	2769	2973	3086	EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)							
	35	2561	2836	2973	pcc	80	70	50	70	50	30	50
40	2300	2645	2807	pw	70	50	30	70	50	30	50	30
45	1953	2367	2536	RCR								
50	1601	1977	2164	0	93	93	93	90	90	90	85	85
55	1254	1551	1720	1	84	81	79	82	80	77	77	73
60	931	1132	1254	2	78	71	67	76	69	66	68	64
65	687	775	868	3	70	64	57	69	61	56	59	55
70	520	511	598	4	66	56	50	64	56	50	54	47
75	399	370	412	5	59	51	44	58	50	44	47	42
80	293	281	274	6	56	46	39	54	45	39	44	38
85	161	158	152	7	52	41	34	51	40	34	40	34
				8	47	38	32	46	36	30	35	30
				9	45	34	28	44	34	28	34	28
				10	41	32	26	40	32	26	30	26

Hg 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



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