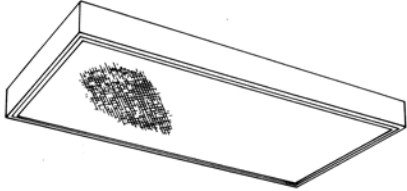


Surface Suspended

Surface Modular
2, 3, and 4 Lamp
T5, T5HO, T8 or T12



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

- 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 location.
- Canadian certified optional.
- Self-contained fluorescent emergency power packs can be incorporated. UL listed for dry location.

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

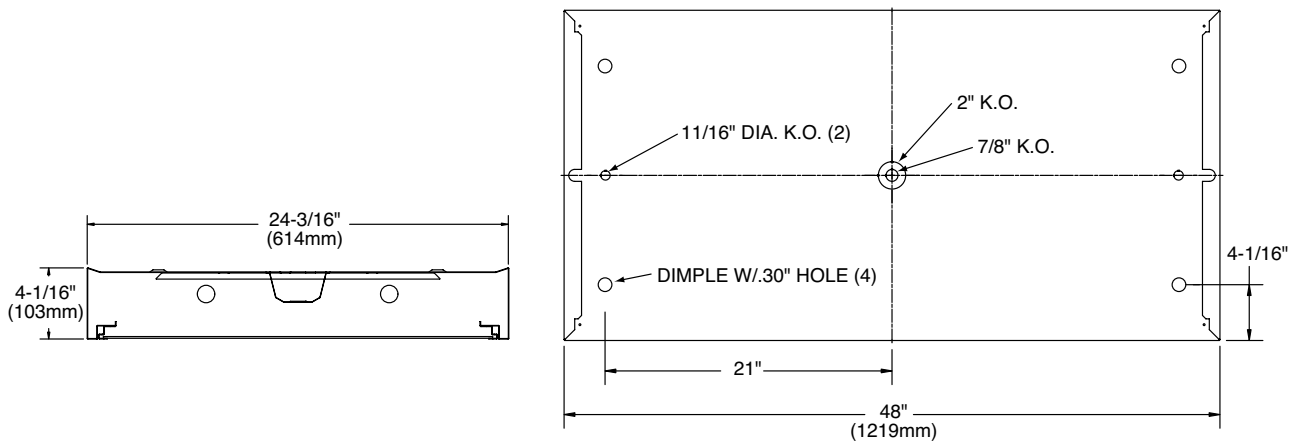
Project
Type
Model No.
Comments

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

2	SMR	-	-	-	-		
Width 2 - 2'	No. of Lamps (not included) 2 3 4	Door Frame FS - Flat Steel FA - Flat Aluminum RA - Regressed Aluminum	Voltage 120 277 347 UNV - Universal Voltage, 120-277 volt	Options CM - Canadian Market 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) EB10I - 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/CF, 350-450 lumens E7 - DEB-7 emerg. ballast, T8/CF, 600-700 lumens E5 - DEB-5 emerg. ballast, T8/CF, 1100-1400 lumens ESST - DEB-5ST emerg. ballast w/self test, T8/CF, 1100-1400 lumens E7LP - DEB-7 emerg. ballast, 430-700 lumens E6LP - DEB-6LP emerg. ballast, 750-1325 lumens 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 SMR - Surface Modular	Lamp Type/Wattage 28 - 28wT5 (46") 32 - 32wT8 (48") 40 - 40wT12 (48") 54 - 54wT5HO (46")	Lens 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 93 - drop dish acrylic
See page 401-SR for Lens Option Information.							

See Section 1600-OA for Option Information.
See Page 950-SS for Mounting Hardware.

dimensions



photometry

Surface Modular 2 Lamp T8

Efficiency – 81.2%

LER – 69

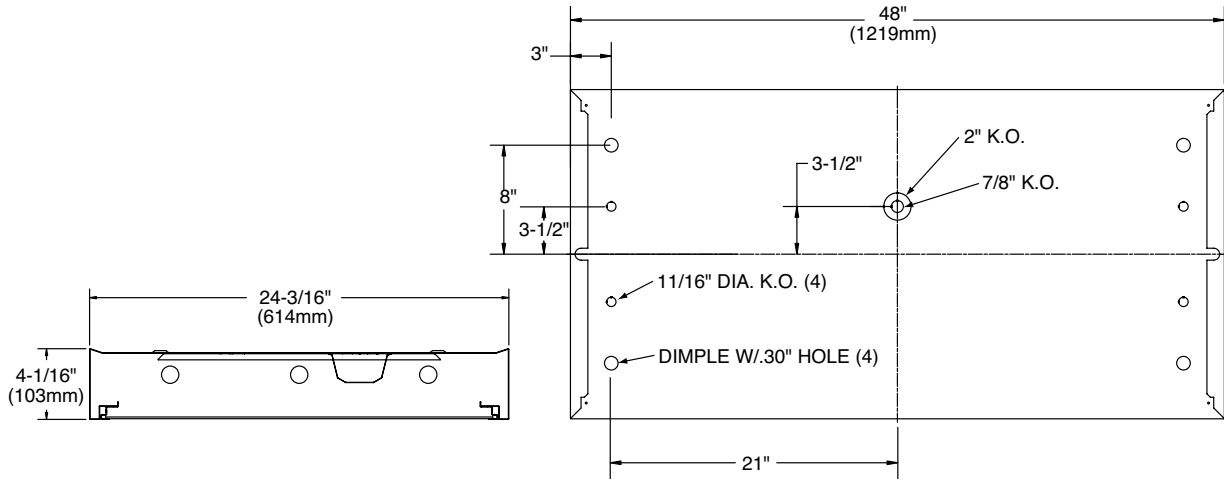
TER – 60

		Candlepower				Light Distribution				Average Luminance				
Catalog No.	2SMR232-FS01-1/2-EB	Angle	End	45	Cross	Degrees	Lumens	% Lamp	% Luminaire	Angle	End	45°	Cross	
Test No.	25170	0	1661	1661	1661	0-30	1343	23.6	29.0	45	2183	2737	3040	
S/MH	1.5	5	1667	1658	1646	0-40	2254	39.5	48.7	55	1741	2214	2481	
Lamp Type	F32T8	10	1645	1648	1647	0-60	3906	68.5	84.4	65	1312	1495	1715	
Ballast Factor	.88	15	1610	1632	1646	0-90	4626	81.2	100.0	75	1262	1173	1310	
Input Watts	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.

dimensions



photometry

Surface Modular 3 Lamp T8

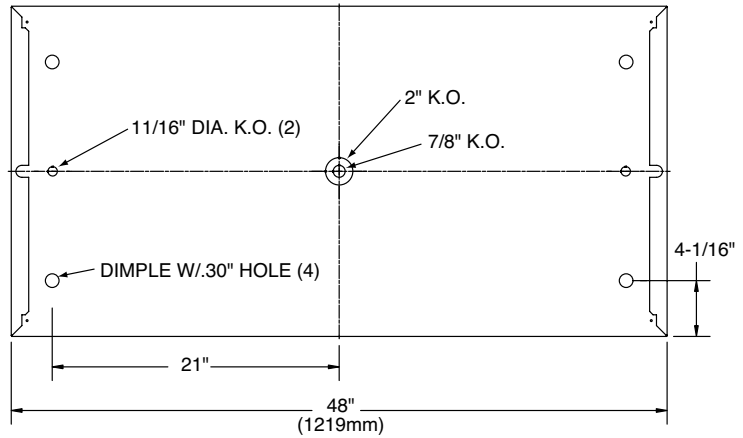
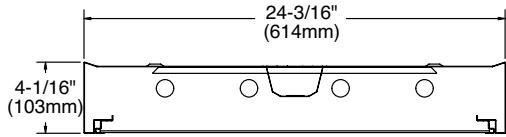
Efficiency – 78.7%

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																																																																																																																															
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.		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	Coefficients of Utilization EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20) <table border="1"> <thead> <tr> <th>pcc</th> <th>80</th> <th>70</th> <th>50</th> <th>70</th> <th>50</th> <th>30</th> <th>50</th> <th>30</th> </tr> </thead> <tbody> <tr> <td>pw</td> <td>70</td> <td>50</td> <td>30</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>RCR</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>0</td> <td>93</td> <td>93</td> <td>93</td> <td>92</td> <td>92</td> <td>92</td> <td>86</td> <td>86</td> </tr> <tr> <td>1</td> <td>85</td> <td>82</td> <td>79</td> <td>83</td> <td>81</td> <td>78</td> <td>78</td> <td>75</td> </tr> <tr> <td>2</td> <td>79</td> <td>72</td> <td>68</td> <td>77</td> <td>70</td> <td>67</td> <td>68</td> <td>65</td> </tr> <tr> <td>3</td> <td>71</td> <td>64</td> <td>57</td> <td>69</td> <td>63</td> <td>56</td> <td>60</td> <td>56</td> </tr> <tr> <td>4</td> <td>66</td> <td>56</td> <td>51</td> <td>65</td> <td>56</td> <td>50</td> <td>54</td> <td>48</td> </tr> <tr> <td>5</td> <td>60</td> <td>51</td> <td>45</td> <td>59</td> <td>51</td> <td>44</td> <td>48</td> <td>42</td> </tr> <tr> <td>6</td> <td>56</td> <td>46</td> <td>40</td> <td>55</td> <td>46</td> <td>39</td> <td>44</td> <td>39</td> </tr> <tr> <td>7</td> <td>52</td> <td>41</td> <td>34</td> <td>51</td> <td>40</td> <td>34</td> <td>40</td> <td>34</td> </tr> <tr> <td>8</td> <td>48</td> <td>38</td> <td>32</td> <td>47</td> <td>38</td> <td>32</td> <td>36</td> <td>30</td> </tr> <tr> <td>9</td> <td>46</td> <td>34</td> <td>28</td> <td>45</td> <td>34</td> <td>28</td> <td>34</td> <td>28</td> </tr> <tr> <td>10</td> <td>42</td> <td>33</td> <td>26</td> <td>41</td> <td>32</td> <td>26</td> <td>30</td> <td>26</td> </tr> </tbody> </table>									pcc	80	70	50	70	50	30	50	30	pw	70	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
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85	123	115	106																																																																																																																																									

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
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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



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Contact Factory for Additional Configurations.
 Specifications are subject to change without notice.
 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

