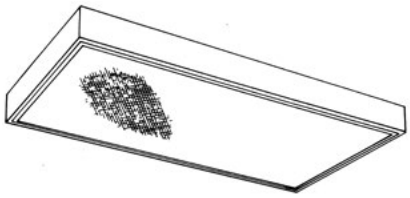
Day-Brite CFI by signify

Surface

Surface Modular 2x4

T5, T5HO, or T8



Project:

Location:

Cat.No:

Type:

Lamps: Qty:

Notes:

Day-Brite / CFI Surface Modular luminaire is a shallow body, surface mounted premium grade luminaire with a variety of door frames and lens options available.

Ordering guide

Example: 2SMR232-FS01-UNV-1/2-EBLHE

Width	Family	No. of Lamps (not included)	Lamp Type	Door Frame	Lens	Voltage	Options
2	SMR		–		–	–	
2 2'	**SMR** Surface Modular	**2** **3** **4**	**28** 28wT5 (46") **32** 32wT8 (48") **54** 54wT5HO (46")	**FS** Flat Steel **FA** Flat Aluminum **RA** Regressed Aluminum **TFS** Tamper Resistant Flat Steel	**01** Pattern 12 prismatic acrylic **12** K-12, .125" nominal **19** K-19, .156" nominal **21** Pattern 12, .125" nominal **30** 1/2"x1/2"x1/2" silver polystyrene louver **34** 1-1/2"x1-1/2"x1" silver polystyrene louver **52** 3/4"x3/4"x1/2" silver polystyrene louver **56** .187" nominal DR high impact acrylic (recommended w/ TFS door)	**120** **277** **347** **UNV** Universal Voltage 120-277V	**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, <10% THD, std. ballast factor **EB10R** T8 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 **EBSD** T8 electronic step dimming ballast, .88 ballast factor **EBD7** Advance Mark 7 dimming ballast, 0-10V (low voltage) control **EBDX** Advance Mark 10 dimming ballast, phase control **EBD** Electronic dimming ballast, customer specified **E1** B100 emerg. ballast, T8, 350-450 lumens, 120/277V **E1CAN** B100-CAN emerg. ballast, Canada market, T8, 350-450 lumens, 120/347V **E7** B60 emerg. ballast, T8, 600-700 lumens, 120/277V **E5** B50 emerg. ballast, U.S. or Canada market, T8, 1100-1400 lumens, UNV **E5-CAN** B50-CAN emerg. ballast, Canada market, T8, 1100-1400 lumens, 120/347V **E5ST** B50ST emerg. ballast w/self test, T8, 1100-1400 lumens, UNV **E7LP** LP550 emerg. ballast T5/T5HO, 430-700 lumens, 120/277V **E6LP** LP600 emerg. ballast U.S. or Canada market, T5/T5HO, 750-1325 lumens, 120/277V **GLR** Fusing, fast blow **1W** 1-way gasketing, between lens & door frame (not avail. w/RA door) **2W** 2-way gasketing, 1W + gasketing between door frame & housing

Accessories (order separately)

- **TPDTH** Tamper proof driver, Torx T-15 head pin drive and handle (required with TR option)
- **CS-400** Rigid canopy
- **CS-500** 42° top swivel canopy
- **CS-12** 12" Stem
- **CS-18** 18" Stem
- **CS-24** 24" Stem
- **CS-30** 30" Stem
- **CS-36** 36" Stem
- **CS-48** 48" Stem

2SMR Surface Modular luminaire 2x4

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.

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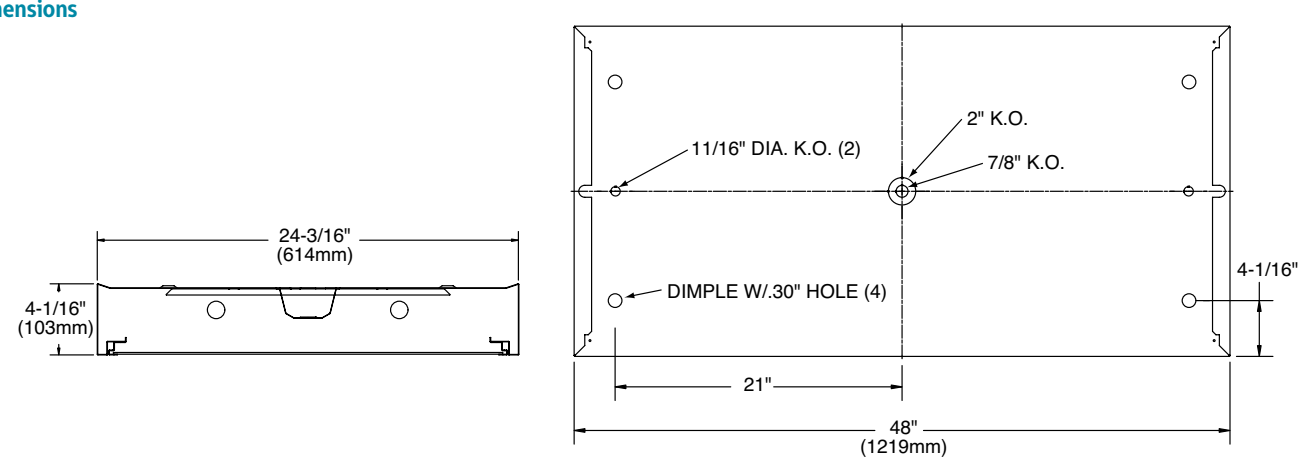
Enclosure

- Mitered corner door frames painted after fabrication with a choice of Flat Steel, Flat Aluminum, Regressed Aluminum, or Tamper Resistant Flat Steel.
- Door frames standard with guide post spring loaded latches.
- Prismatic acrylic pattern 12 lens standard (01). Other lenses or louvers optional.
- Can be hinged and latched from either side.
- TFS Door latches secured with 2 Torx head pin drive screws
- Special screwdriver required for TFS door, catalog #TPDTH sold separately
- #56 Lens withstands impact of 70 ft lbs. at 75°F. with the lens supported on all four edges.

Dimensions



Photometry

Surface Modular 2 Lamp T8

Efficiency – 81.2% **LER – 69** **TER – 60**

Catalog No.	2SMR232-FS01-1/2-EB
Test No.	25170
S/MH	1.5
Lamp Type	F32T8
Ballast Factor	.88
Input Watts	59

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 Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Candlepower

Angle	End	45	Cross
0	1661	1661	1661
5	1667	1658	1646
10	1645	1648	1647
15	1610	1632	1646
20	1565	1605	1641
25	1496	1574	1629
30	1415	1528	1614
35	1308	1470	1580
40	1168	1389	1512
45	997	1250	1388
50	816	1048	1180
55	645	820	919
60	481	594	673
65	358	408	468
70	270	271	320
75	211	196	219
80	153	152	147
85	84	82	81

Light Distribution

Degrees	Lumens	% Lamp	% Luminaire
0-30	1343	23.6	29.0
0-40	2254	39.5	48.7
0-60	3906	68.5	84.4
0-90	4626	81.2	100.0

Average Luminance

Angle	End	45°	Cross
45	2183	2737	3040
55	1741	2214	2481
65	1312	1495	1715
75	1262	1173	1310
85	1492	1457	1439

Coefficients of Utilization

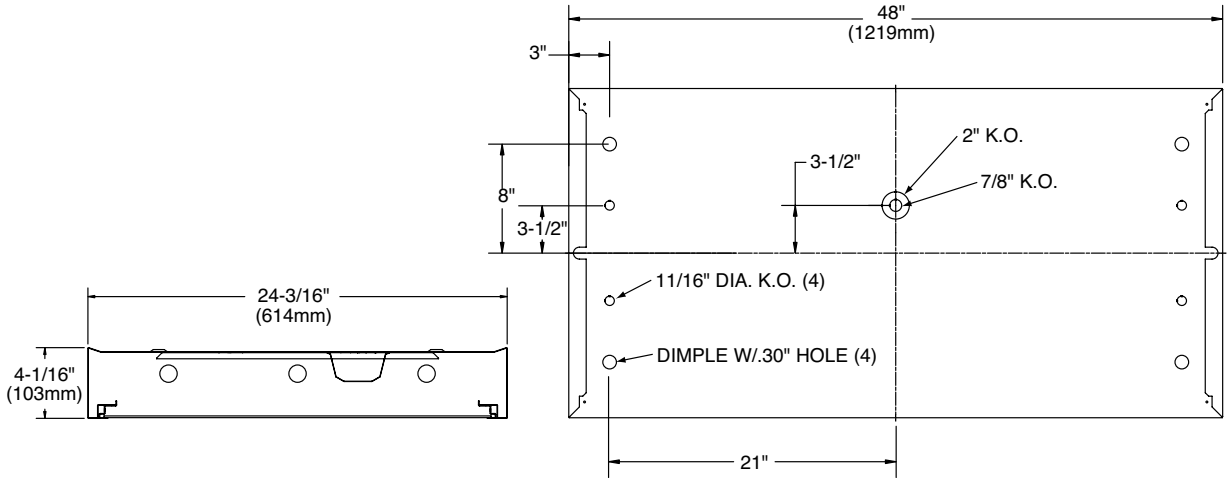
EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)

pcc	80	70	50					
pw	70	50	30	70	50	30	50	30
RCR								
0	96	96	96	93	93	93	90	90
1	89	84	81	86	82	80	80	77
2	81	75	69	79	72	68	70	66
3	73	66	59	71	65	58	63	57
4	68	58	52	66	57	51	56	50
5	63	53	46	60	52	45	50	44
6	57	47	40	56	46	40	45	39
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

2SMR Surface Modular luminaire 2x4

T5, T5HO, or T8

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

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 Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Candlepower

Angle	End	45	Cross
0	2486	2486	2486
5	2487	2476	2471
10	2459	2461	2469
15	2398	2431	2461
20	2326	2388	2443
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

Light Distribution

Degrees	Lumens	% Lamp	% Luminaire
0-30	1996	23.3	29.7
0-40	3325	38.9	49.4
0-60	5684	66.5	84.4
0-90	6731	78.7	100.0

Average Luminance

Angle	End	45°	Cross
45	3252	3850	4183
55	2573	3115	3547
65	1916	2129	2535
75	1837	1699	1897
85	2185	2043	1883

Coefficients of Utilization

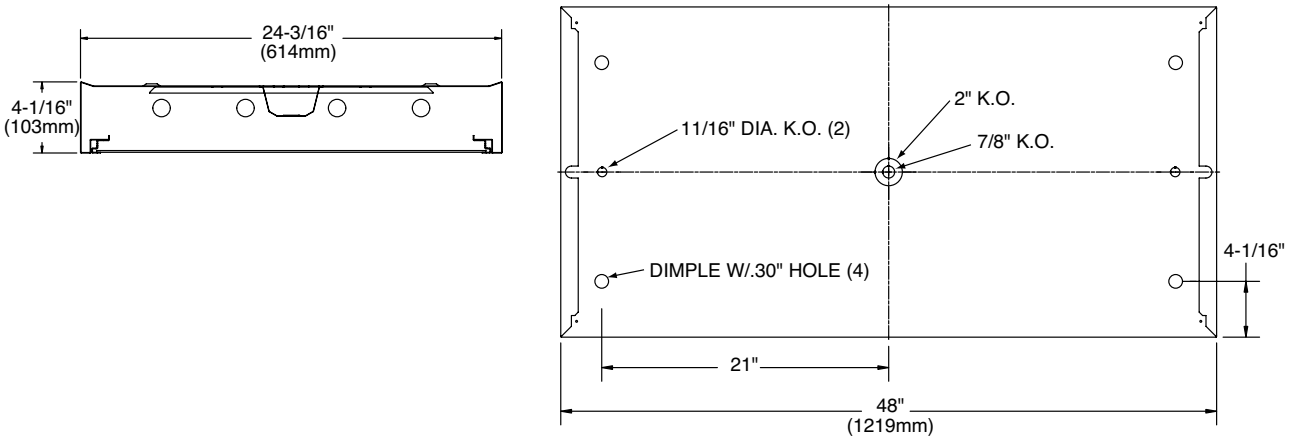
EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)

pcc	80	70	50					
pw	70	50	30	70	50	30	50	30
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

2SMR Surface Modular luminaire 2x4

T5, T5HO, or T8

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 Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Candlepower

Angle	End	45	Cross
0	3269	3269	3269
5	3285	3258	3245
10	3238	3236	3239
15	3165	3205	3233
20	3067	3156	3207
25	2937	3079	3163
30	2769	2973	3086
35	2561	2836	2973
40	2300	2645	2807
45	1953	2367	2536
50	1601	1977	2164
55	1254	1551	1720
60	931	1132	1254
65	687	775	868
70	520	511	598
75	399	370	412
80	293	281	274
85	161	158	152

Light Distribution

Degrees	Lumens	% Lamp	% Luminaire
0-30	2628	23.1	29.6
0-40	4379	38.4	49.4
0-60	7504	65.8	84.6
0-90	8866	77.8	100.0

Average Luminance

Angle	End	45°	Cross
45	4277	5183	5553
55	3385	4187	4643
65	2517	2840	3180
75	2387	2214	2465
85	2860	2807	2701

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
RCR								
0	93	93	93	90	90	90	85	85
1	84	81	79	82	80	77	77	73
2	78	71	67	76	69	66	68	64
3	70	64	57	69	61	56	59	55
4	66	56	50	64	56	50	54	47
5	59	51	44	58	50	44	47	42
6	56	46	39	54	45	39	44	38
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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