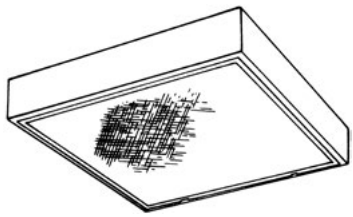
Day-Brite CFI by Signify

Surface

Surface Modular 2x2

TT5



Project:

Location:

Cat.No:

Type:

Lamps: Qty:

Notes:

The 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: 2SMR2CF40-FS01-UNV-1/1-EB

Width	Family	No. of Lamps (not included)	Lamp Type	Door Frame	Lens	Voltage	Options
2	SMR		–		–	–	
2 2'	**SMR** Surface Modular	**2** **3** **4** (CF40 only)	**CF40** 40WTT5 (24") **CF50** 50WTT5 (24") **CF55** 55WTT5 (24")	**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 **2/2** Two 2-lamp ballasts **EB** Electronic ballast, <10% THD, std. ballast factor **EB10I** Electronic ballast, instant start, <10% THD **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 **E5** B50 emerg. ballast, U.S. or Canada market, T8, 1100-1400 lumens, UNV (3 lamp only) **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

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2SMR Surface Modular luminaire 2x2

CFTT5

Construction/Finish

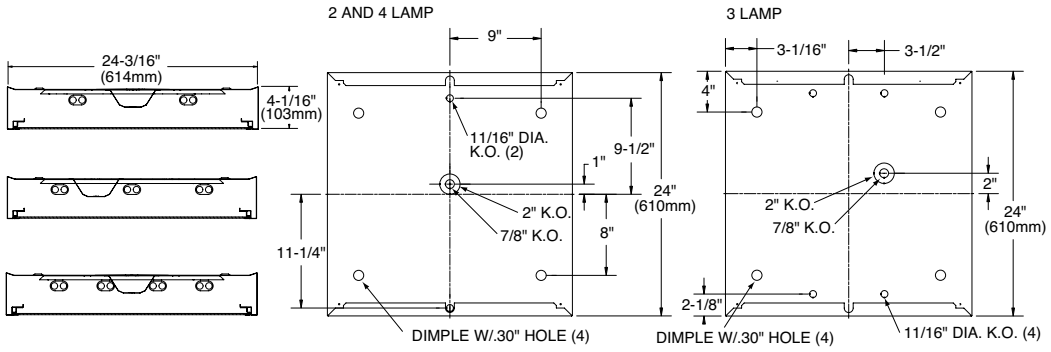
- For surface or pendant mounting. 2 and 4 lamp models require 2 stems for pendant mounting, 3 lamp models require 4 stems.
- 4" deep metal sided unit allows a wide choice of lens and shallow metal or plastic louvers.
- Housing is multi-stage phosphate treated for maximum corrosion resistance and painted after fabrication with white polyester coating.
- K.O.'s provided in ends allow individual or continuous row mounting.
- cULus listed for direct mounting on low density ceilings and damp locations.
- Self-contained fluorescent emergency power packs can be incorporated.

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.

Electrical

Dimensions



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

2SMR Surface Modular luminaire 2x2

CFTT5

PHOTOMETRIC DATA

CATALOG # 2SMR2CF40-FS01-1/2-EB LAMPS = 40WTT5 INPUT WATTS = 74
TEST #25222 S/MH=1.4 BALLAST = ELECTRONIC BALLAST FACTOR = .96

LER = FL-66
TER = 58

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = $3.64 BASED ON 3000 HRS. AND $.08 PER KWH.

FIXTURE EFFICIENCY= 81.3%

CANDLEPOWER

Angle	End	45	Cross
0	1955	1955	1955
5	1956	1952	1945
10	1928	1938	1938
15	1880	1914	1935
20	1813	1880	1921
25	1729	1832	1896
30	1621	1752	1839
35	1489	1651	1754
40	1330	1515	1615
45	1141	1328	1413
50	936	1107	1155
55	744	864	879
60	579	627	638
65	434	431	452
70	313	285	325
75	216	199	246
80	145	149	186
85	81	89	107

MAINTAINED ILLUMINATION TABLE- Square Feet/Fixture*

- 80-50-20 Reflectances (Ceiling-Wall-Floor)
- LLF = 0.81 3150 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
2' X 2'	5	-	146	88	63	44
2-Lamp	2	-	102	61	44	31
CF40	1	-	75	45	32	-

*Observe Fixture S/MH Requirements for Specific Applications

AVERAGE LUMINANCE CD/SQ.M WITH 3150 LUMEN LAMPS

ANGLE	END	45°	CROSS
45	5110	5947	6328
55	4107	4770	4853
65	3252	3229	3387
75	2643	2435	3010
85	2943	3234	3887

TYPICAL V.C.P.'s

Room Size	Mounting Height Lengthwise 8.5	10	Crosswise 8.5	10
30x30	47	50	44	49
40x40	48	47	41	44
60x30	49	53	48	52
60x60	40	43	37	40
100x100	38	39	34	36

LLF = .81 LLF = LIGHT LOSS FACTOR LLF = LDD X LLD X BF LDD = VERY CLEAN 0.94 CLEAN 0.90
LLD = 0.90 @ 40% RATED LAMP LIFE BF = .96 ELECTRONIC BALLAST & CF40 LAMP (RELAMP AT 70% LAMP LIFE)

COEFFICIENT OF UTILIZATION

pfc	20							
pcc	80			70			50	
pw	70	50	30	70	50	30	50	30
RCR								
0	96	96	96	94	94	94	90	90
1	89	84	81	86	83	81	80	78
2	81	75	69	80	73	68	70	67
3	75	67	60	72	66	59	63	57
4	68	59	53	67	58	52	56	51
5	64	54	46	61	53	46	51	45
6	58	47	40	56	47	40	46	40
7	55	44	36	53	42	36	41	35
8	51	40	33	50	40	33	39	33
9	47	36	29	46	35	29	35	29
10	45	34	28	44	34	28	33	27

LIGHT DISTRIBUTION

DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	1569	24.9	30.6
0-40	2594	41.2	50.6
0-60	4352	69.1	84.9
0-90	5123	81.3	100.0

PHOTOMETRIC DATA

CATALOG # 2SMR3CF40-FS01-1/3-EB LAMPS = 40WTT5 INPUT WATTS = 110
TEST #25223 S/MH=1.3 BALLAST = ELECTRONIC BALLAST FACTOR = .96

LER = FL-60
TER = 54

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = $4.00 BASED ON 3000 HRS. AND $.08 PER KWH.

FIXTURE EFFICIENCY= 72.9%

CANDLEPOWER

Angle	End	45	Cross
0	2765	2765	2765
5	2747	2747	2777
10	2709	2723	2773
15	2643	2680	2753
20	2551	2615	2718
25	2420	2524	2644
30	2275	2400	2540
35	2083	2227	2363
40	1853	1999	2138
45	1586	1720	1843
50	1292	1420	1503
55	1019	1109	1165
60	788	809	858
65	576	561	606
70	416	367	435
75	288	250	331
80	189	184	246
85	99	105	137

MAINTAINED ILLUMINATION TABLE- Square Feet/Fixture*

- 80-50-20 Reflectances (Ceiling-Wall-Floor)
- LLF = 0.81 3150 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
2' X 2'	5	-	-	118	84	59
3-Lamp	2	-	138	83	59	41
CF40	1	-	102	61	44	31

*Observe Fixture S/MH Requirements for Specific Applications

AVERAGE LUMINANCE CD/SQ.M WITH 3150 LUMEN LAMPS

ANGLE	END	45°	CROSS
45	7102	7702	8253
55	5626	6122	6432
65	4316	4203	4541
75	3524	3059	4050
85	3597	3815	4977

TYPICAL V.C.P.'s

Room Size	Mounting Height Lengthwise 8.5	10	Crosswise 8.5	10
30x30	40	43	37	42
40x40	37	40	34	37
60x30	42	46	41	45
60x60	34	37	31	33
100x100	33	34	29	31

LLF = .81 LLF = LIGHT LOSS FACTOR LLF = LDD X LLD X BF LDD = VERY CLEAN 0.94 CLEAN 0.90
LLD = 0.90 @ 40% RATED LAMP LIFE BF = .96 ELECTRONIC BALLAST & CF40 LAMP (RELAMP AT 70% LAMP LIFE)

COEFFICIENT OF UTILIZATION

pfc	20							
pcc	80			70			50	
pw	70	50	30	70	50	30	50	30
RCR								
0	86	86	86	84	84	84	81	81
1	80	77	73	78	75	71	71	69
2	72	68	63	70	66	61	64	59
3	67	59	55	66	58	54	56	53
4	61	54	47	59	53	46	51	46
5	56	47	41	56	47	41	46	40
6	53	44	38	52	42	36	41	36
7	48	40	34	47	39	33	38	33
8	46	35	29	45	35	29	34	29
9	42	33	28	41	33	28	32	27
10	40	30	25	39	30	25	29	25

LIGHT DISTRIBUTION

DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	2187	23.1	31.7
0-40	3573	37.8	51.9
0-60	5873	62.2	85.3
0-90	6888	72.9	100.0

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