

Day-Brite CFI

by 



Surface

Surface Modular
LED 2x4

3200, 3800, 4300, 4800,
5400, or 7400 lumens



Project: _____
Location: _____
Cat.No: _____
Type: _____
Lamps: _____ Qty: _____
Notes: _____

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

Ordering guide

Example: 2SML43L840-4-FS-02F-UNV-DIM

Width	Family	Lumen Package ¹	Color	Length	Door Frame	Lens	Voltage	Driver	Options
2	SML		—	4	—	—	—	—	
2 2'	SML Surface Modular LED	32L 3200lm 38L 3800lm 43L 4300lm 48L 4800lm 54L 5400lm 74L 7400lm	830 3000K, 80CRI 835 3500K, 80CRI 840 4000K, 80CRI 850 5000K, 80CRI	4 4'	FS Flat Steel FA Flat Aluminum RA Regressed Aluminum TFS Tamper Resistant Flat Steel TFA Tamper Resistant Flat Aluminum	02F Pattern 12, .100" nominal diffuse 50% 12F DB-12, .125" nominal diffuse 50% 19F DB-19, .156" nominal diffuse 50% 56F .187", nominal DR high impact acrylic diffuse 50%	120 277 347 UNV Universal Voltage 120-277V	DIM 0-10V dimming SDIM Step dimming to 40% input power XDIM² MarkX phase dimming	F1 3/8" flex, 3 wire, 18 gauge 6' F2 3/8" flex, 4 wire, 18 gauge 6' F1/D 3/8" twin flex, 3 wire, 18 gauge 6', for dimmable luminaires F2/5W 3/8" single flex, 5 wire, 18 gauge 6', for dimmable luminaires EMLED³ Integral emergency battery pack 1W 1-way gasket between lens & door frame (not avail. for RA door frame) 2W 1-way & gasket between door frame & housing GLR Fusing, fast blow DSC Quick driver disconnect

Footnotes

- Nominal lumens delivered
- XDIM option requires 120V or 277V to be specified
- Philips Bodine BSL310 1100 nominal lumens

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

Energy data

Luminaire	Catalog Number	Input Power	Efficacy
2x4	2SML38L840	32.2	130.2
	2SML43L840	35.5	130.1
	2SML48L840	39.5	120.0
	2SML54L840	45.7	129.2
	2SML74L840	62.7	119.9



2SML Surface Modular LED luminaire 2x4

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Application

- High efficacy long life solid state lighting platform.
- General lighting distribution is excellent for ambient lighting.
- High CRI source provides excellent color rendering, 80 CRI minimum.
- LEDs are an excellent source for use with controls since frequent switching does not affect the life of the light source.

Construction/Finish

- Surface or pendant mounting requires 2 stems.
- 4" deep metal sided unit.
- 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.

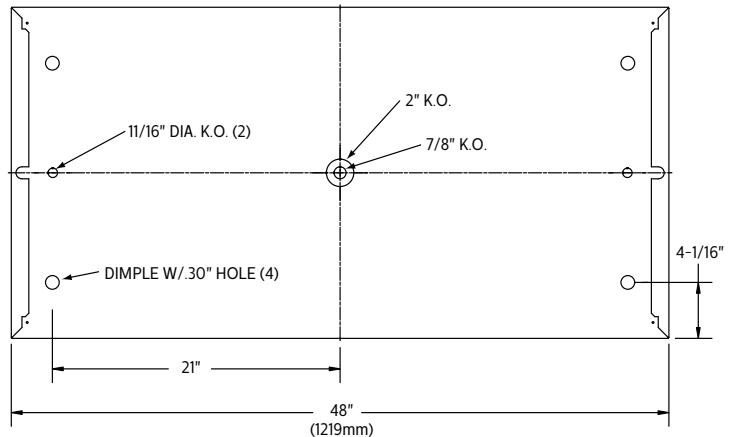
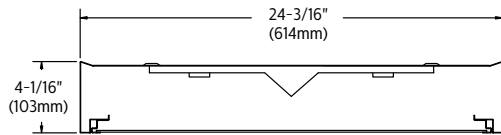
Electrical

- Standard 0–10V dimming.
- Driver and LED boards are accessible from below. LED boards are individually replaceable if required.
- Five-year luminaire limited warranty including LED boards and driver. Visit www.philips.com/warranties for complete warranty information.
- High efficiency LEDs have 50,000 hour rated life (defined by testing at 70% lumen maintenance (L70)), based on 25°C ambient operating temperature.
- cETLus listed to UL and CSA standards, suitable for damp location.
- Many luminaire components, such as reflectors, refractors, lenses, sockets, lampholders, and LEDs are made from various types of plastics which can be adversely affected by airborne contaminants. If sulfur based chemicals, petroleum based products, cleaning solutions, or other contaminants are expected in the intended area of use, consult factory for compatibility.

Enclosure

- Mitered corner door frames painted after fabrication with a choice of Flat Steel, Flat Aluminum, Regressed Aluminum, or Tamper Resistant Flat Steel or Aluminum.
- Door frames standard with guide post spring loaded latches.
- Prismatic acrylic pattern 12 lens standard (02F). Other lenses optional.
- Can be hinged and latched from either side.
- TFS/TFA Door latches secured with 2 Torx head pin drive screws
- Special screwdriver required for TFS/TFA door, catalog #TPDTH sold separately
- #56F Lens withstands impact of 70 ft lbs. at 75°F. with the lens supported on all four edges.

Dimensions



Photometry

Surface Modular LED 2x4 3800 nominal delivered lumens

Catalog No.	2SML38L840-4-FS-02F-UNV-DIM
Test No.	36652
S/MH	1.2
Lamp Type	LED
Lumens	4194
Input Watts	32

Comparative yearly lighting energy cost per 1000 lumens – **\$1.85** 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.

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Candlepower

Angle	End	45	Cross
0	1845	1845	1845
5	1828	1836	1840
15	1749	1757	1760
25	1580	1586	1584
35	1318	1320	1311
45	993	987	967
55	657	637	603
65	363	338	345
75	203	193	220
85	78	79	96

Light Distribution

Degrees	Lumens	% Luminaire
0-30	1397	33.3
0-40	2219	52.9
0-60	3540	84.4
0-90	4192	100.0
0-180	4194	100.0

Average Luminance

Angle	End	45°	Cross
45	2179	2168	2122
55	1778	1723	1632
65	1334	1243	1265
75	1215	1159	1321
85	1393	1402	1717

Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)

pcc	80			70			50		
	70	50	30	70	50	30	50	30	
pw									
RCR									
0	118	118	118	115	115	115	111	111	
1	110	105	101	107	103	98	98	95	
2	100	93	85	97	91	84	86	82	
3	92	82	75	90	81	73	78	71	
4	84	73	66	82	72	65	69	63	
5	79	67	57	77	65	57	63	56	
6	72	59	52	70	58	51	57	51	
7	68	55	46	66	54	46	53	46	
8	63	51	41	61	50	41	48	41	
9	58	46	39	57	46	38	45	38	
10	56	42	35	55	42	34	41	34	

2SML Surface Modular LED luminaire 2x4

3200, 3800, 4300, 4800, 5400, or 7400 lumens

Surface Modular LED 2x4 4300 nominal delivered lumens

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Catalog No. 2SML43L840-4-FS-02F-UNV-DIM Test No. 36653 S/MH 1.2 Lamp Type LED Lumens 4620 Input Watts 36	Candlepower				Light Distribution			Average Luminance				
	Angle	End	45	Cross	Degrees	Lumens	% Luminaire	Angle	End	45°	Cross	
	0	2029	2029	2029	0-30	1537	33.3	45	2397	2386	2335	
	5	2011	2020	2024	0-40	2441	52.8	55	1958	1899	1836	
	15	1924	1932	1937	0-60	3900	84.4	65	1467	1368	1390	
	25	1738	1745	1744	0-90	4618	100.0	75	1337	1271	1452	
	35	1450	1452	1443	0-180	4620	100.0	85	1530	1535	1872	
	45	1092	1087	1064	Coefficients of Utilization							
	55	724	702	678	EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)							
	65	400	372	379	pcc	80	70	50				
75	223	212	242	pw	70	50	30	70	50	30	50	30
85	86	86	105	RCR								
Comparative yearly lighting energy cost per 1000 lumens – \$1.85 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.								

Surface Modular LED 2x4 4800 nominal delivered lumens

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Catalog No. 2SML48L840-4-FS-02F-UNV-DIM Test No. 36654 S/MH 1.2 Lamp Type LED Lumens 5126 Input Watts 40	Candlepower				Light Distribution			Average Luminance				
	Angle	End	45	Cross	Degrees	Lumens	% Luminaire	Angle	End	45°	Cross	
	0	2249	2249	2249	0-30	1703	33.2	45	2659	2648	2584	
	5	2229	2239	2243	0-40	2705	52.8	55	2170	2110	2028	
	15	2133	2142	2146	0-60	4325	84.4	65	1627	1518	1540	
	25	1925	1934	1932	0-90	5124	100.0	75	1481	1408	1609	
	35	1608	1610	1600	0-180	5126	100.0	85	1683	1690	2073	
	45	1211	1206	1177	Coefficients of Utilization							
	55	802	780	750	EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)							
	65	443	413	419	pcc	80	70	50				
75	247	235	268	pw	70	50	30	70	50	30	50	30
85	95	95	116	RCR								
Comparative yearly lighting energy cost per 1000 lumens – \$1.85 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.								

Surface Modular LED 2x4 5400 nominal delivered lumens

LER – 129

Catalog No. 2SML54L840-4-FS-02F-UNV-DIM Test No. 36655 S/MH 1.2 Lamp Type LED Lumens 5906 Input Watts 46	Candlepower				Light Distribution			Average Luminance				
	Angle	End	45	Cross	Degrees	Lumens	% Luminaire	Angle	End	45°	Cross	
	0	2588	2588	2588	0-30	1960	33.2	45	3057	3047	2972	
	5	2564	2576	2581	0-40	3112	52.7	55	2496	2425	2337	
	15	2454	2465	2470	0-60	4975	84.2	65	1940	1744	1827	
	25	2217	2226	2224	0-90	5904	100.0	75	1702	1621	1851	
	35	1850	1854	1839	0-180	5906	100.0	85	1940	1943	2394	
	45	1393	1388	1354	Coefficients of Utilization							
	55	922	896	864	EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)							
	65	528	475	497	pcc	80	70	50				
75	284	270	309	pw	70	50	30	70	50	30	50	30
85	109	109	134	RCR								
Comparative yearly lighting energy cost per 1000 lumens – \$1.86 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.								

2SML Surface Modular LED luminaire 2x4

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Surface Modular LED 2x4 7400 nominal delivered lumens

LER – 126

		Candlepower				Light Distribution			Average Luminance			
		Angle	End	45	Cross	Degrees	Lumens	% Luminaire	Angle	End	45'	Cross
Catalog No.	2SML74L840-4-FS-02F-UNV-DIM	0	3440	3440	3440	0-30	2604	33.1	45	4062	4041	3959
Test No.	36656	5	3408	3425	3432	0-40	4137	52.5	55	3320	3217	3116
S/MH	1.2	15	3261	3276	3283	0-60	6616	84.0	65	2661	2487	2530
Lamp Type	LED	25	2946	2955	2953	0-90	7876	100.0	75	2265	2156	2466
Lumens	7879	35	2459	2460	2445	0-180	7879	100.0	85	2593	2599	3202
Input Watts	63	45	1850	1841	1804							
		55	1227	1189	1152							
		65	725	677	689							
		75	378	360	411							
		85	146	146	180							

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)										
pcc	80	70	50							
pw	70	50	30	70	50	30	50	30		
RCR										
0	118	118	118	115	115	115	111	111		
1	109	105	101	107	103	98	98	95		
2	100	93	85	97	91	84	86	81		
3	92	81	75	90	81	73	78	71		
4	84	73	65	82	71	65	69	63		
5	79	66	57	77	65	56	63	56		
6	72	59	52	70	58	51	56	50		
7	68	55	46	66	54	46	53	45		
8	63	50	41	61	50	41	47	40		
9	58	46	38	57	46	38	45	38		
10	56	42	34	54	41	34	40	34		

Comparative yearly lighting energy cost per 1000 lumens – **\$1.90** 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.

