

Day-Brite



by Signify

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FSW8140L840-UNV-DIM.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] FO43878P1.PSO
[TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY
[ISSUE DATE] 6/8/2022
[MANUFAC] DAY-BRITE / CFI
[LUMCAT] FSW8140L840-UNV-DIM
[LUMINAIRE] 8FT FLUXSTREAM WRAP 4-FLS VO+TvS 22" 840 LV2E BOARDS

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	13164
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	103.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	7.34 ft
Luminous Width (90-270)	0.33 ft
Luminous Height	0.14 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	15304	12735	12134
55	14490	11469	10852
65	13228	9998	9449
75	10893	8189	7848
85	5919	5690	5935

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	3853.455	3853.455	3853.455	3853.455	3853.455
2.5	3827.310	3831.244	3848.578	3861.219	3878.214
5.0	3813.252	3822.727	3836.726	3850.725	3866.791
7.5	3790.276	3828.199	3833.891	3835.119	3853.162
10.0	3758.005	3797.026	3824.704	3834.729	3835.248
12.5	3716.287	3756.846	3790.695	3817.525	3822.158
15.0	3666.502	3708.479	3748.609	3776.567	3797.355
17.5	3608.299	3650.885	3696.527	3726.572	3749.887
20.0	3541.180	3586.682	3635.578	3670.127	3695.598
22.5	3466.273	3514.650	3568.499	3607.660	3630.167
25.0	3382.708	3434.830	3493.971	3535.119	3557.426
27.5	3291.036	3346.353	3410.027	3455.459	3478.315
30.0	3192.644	3250.767	3320.612	3367.431	3392.104
32.5	3087.741	3149.009	3225.455	3275.989	3294.730
35.0	2976.798	3043.787	3122.759	3174.042	3196.698
37.5	2861.581	2931.346	3012.365	3069.968	3093.173
40.0	2741.132	2812.944	2899.354	2962.270	2984.826
42.5	2614.992	2690.728	2784.896	2848.251	2871.446
45.0	2483.899	2566.275	2664.088	2729.569	2752.435
47.5	2349.930	2436.270	2538.277	2607.683	2630.418
50.0	2211.687	2301.752	2409.041	2483.769	2507.094
52.5	2069.311	2166.445	2277.549	2357.568	2380.883
55.0	1922.983	2029.571	2145.028	2228.362	2251.518
57.5	1773.572	1887.634	2010.364	2094.693	2118.677
60.0	1622.313	1743.036	1872.078	1960.876	1986.532
62.5	1467.623	1595.405	1730.736	1826.860	1852.028
65.0	1310.707	1448.342	1591.489	1691.794	1717.849
67.5	1153.337	1301.577	1453.287	1554.493	1583.797
70.0	995.784	1153.192	1313.247	1416.840	1449.864
72.5	837.492	1007.538	1173.908	1281.199	1316.081
75.0	680.248	865.104	1035.862	1145.990	1181.916
77.5	527.587	724.671	898.562	1013.294	1050.750
80.0	383.144	586.733	764.258	881.648	922.348
82.5	254.134	454.024	633.189	755.759	798.512
85.0	141.519	332.065	511.885	636.995	681.442
87.5	56.471	224.209	405.077	531.190	576.352
90.0	5.697	149.310	324.580	448.019	493.133
92.5	5.598	122.470	278.260	394.164	436.181
95.0	8.192	116.563	257.759	364.524	403.763
97.5	11.421	115.866	248.986	349.495	386.641
100.0	13.779	115.475	246.462	341.161	376.616
102.5	17.224	114.883	244.315	337.255	371.676
105.0	19.533	113.605	241.615	333.283	367.534
107.5	21.831	111.459	238.498	328.419	362.052
110.0	24.194	107.992	234.883	322.849	355.690
112.5	26.227	102.626	229.535	316.670	348.441
115.0	28.256	94.887	223.089	309.469	340.145
117.5	30.294	88.329	214.310	302.070	331.522
120.0	32.074	84.779	203.227	293.869	322.875
122.5	33.765	80.186	192.167	284.259	313.160
125.0	35.567	79.029	179.918	273.723	300.417
127.5	37.264	78.913	167.413	260.015	285.357
130.0	39.173	79.361	152.786	244.539	270.424
132.5	43.273	80.281	140.297	228.273	257.603

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CANDELA TABULATION - (Cont.)

135.0	47.015	81.340	132.930	214.036	248.517
137.5	50.762	82.430	125.354	196.701	237.389
140.0	54.500	83.920	117.503	176.683	220.956
142.5	58.057	85.166	116.381	162.376	204.696
145.0	61.995	86.612	116.423	148.439	192.838
147.5	65.851	87.768	115.317	134.540	173.537
150.0	69.464	88.687	112.984	128.425	159.049
152.5	72.928	89.641	110.999	122.063	151.277
155.0	75.992	90.812	109.755	114.394	142.418
157.5	79.091	91.179	107.878	108.183	132.149
160.0	82.512	91.574	105.314	102.935	121.781
162.5	86.035	92.120	102.408	98.087	111.802
165.0	88.954	92.375	100.743	93.410	101.849
167.5	91.141	92.819	98.380	89.484	82.185
170.0	93.070	94.027	95.926	87.009	57.318
172.5	94.686	95.313	94.925	83.992	54.139
175.0	95.804	96.076	95.461	83.363	52.126
177.5	96.435	96.968	95.810	83.796	51.191
180.0	87.920	87.920	87.920	87.920	87.920

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1421.31	N.A.	10.80
0-30	3026.59	N.A.	23.00
0-40	4970.57	N.A.	37.80
0-60	8908.47	N.A.	67.70
0-80	11506.33	N.A.	87.40
0-90	12035.39	N.A.	91.40
10-90	11669.68	N.A.	88.60
20-40	3549.26	N.A.	27.00
20-50	5589.68	N.A.	42.50
40-70	5484.04	N.A.	41.70
60-80	2597.85	N.A.	19.70
70-80	1051.72	N.A.	8.00
80-90	529.06	N.A.	4.00
90-110	499.42	N.A.	3.80
90-120	700.64	N.A.	5.30
90-130	857.56	N.A.	6.50
90-150	1044.34	N.A.	7.90
90-180	1128.94	N.A.	8.60
110-180	629.52	N.A.	4.80
0-180	13164.33	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	365.71
10-20	1055.6
20-30	1605.29
30-40	1943.97
40-50	2040.42
50-60	1897.48
60-70	1546.13
70-80	1051.72
80-90	529.06
90-100	266.62
100-110	232.80
110-120	201.22
120-130	156.93
130-140	111.50
140-150	75.28
150-160	49.18
160-170	27.07
170-180	8.35

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	91
1	106	100	96	91	102	97	93	89	91	88	85	86	83	81	81	79	77	74
2	96	87	80	73	92	84	77	72	79	74	69	75	70	66	70	67	63	61
3	87	76	67	60	84	74	66	59	69	63	57	65	60	55	62	57	53	51
4	79	67	58	51	76	65	57	50	61	54	48	58	52	47	55	50	45	43
5	73	60	50	44	70	58	49	43	55	47	42	52	46	40	49	44	39	37
6	67	54	44	38	65	52	44	37	49	42	36	47	40	35	45	39	34	32
7	62	48	40	33	60	47	39	33	45	37	32	43	36	31	41	35	30	28
8	58	44	36	30	56	43	35	29	41	34	29	39	33	28	37	32	27	25
9	54	40	32	27	52	39	32	26	38	31	26	36	30	25	34	29	25	23
10	51	37	29	24	49	36	29	24	35	28	23	33	27	23	32	26	22	20

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UGR TABLE - CORRECTED

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	19.1	20.6	19.6	21.1	21.6	20.9	22.4	21.4	22.9	23.4
	3H	20.6	21.9	21.1	22.4	23.0	23.2	24.5	23.7	25.0	25.6
	4H	21.1	22.3	21.6	22.9	23.4	24.2	25.4	24.7	26.0	26.6
	6H	21.3	22.5	21.9	23.1	23.7	25.2	26.3	25.7	26.9	27.5
	8H	21.4	22.5	22.0	23.1	23.7	25.6	26.8	26.2	27.3	27.9
	12H	21.4	22.5	22.0	23.0	23.7	26.1	27.2	26.7	27.7	28.4

UGR Viewed Endwise

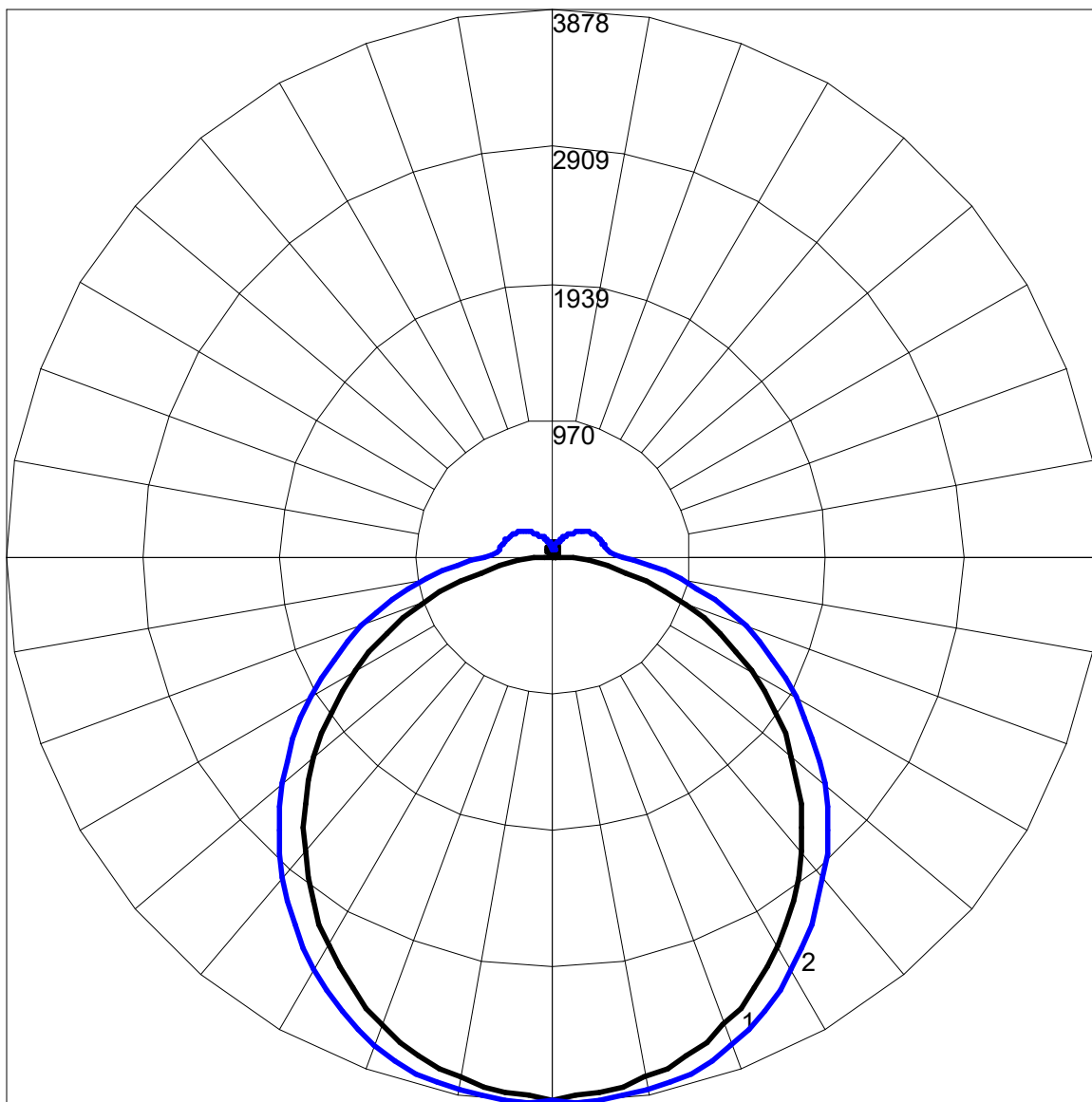
4H	2H	19.9	21.2	20.5	21.7	22.3	21.3	22.6	21.9	23.1	23.7
	3H	21.7	22.7	22.2	23.3	23.9	23.8	24.9	24.3	25.4	26.0
	4H	22.3	23.3	22.8	23.8	24.5	25.0	25.9	25.5	26.5	27.2
	6H	22.7	23.5	23.3	24.1	24.8	26.1	27.0	26.7	27.6	28.2
	8H	22.8	23.6	23.3	24.2	24.8	26.7	27.5	27.3	28.1	28.7
	12H	22.8	23.5	23.4	24.1	24.8	27.2	28.0	27.9	28.6	29.3

8H	4H	22.8	23.6	23.4	24.2	24.9	25.2	26.0	25.8	26.6	27.2
	6H	23.3	24.0	24.0	24.7	25.3	26.4	27.1	27.1	27.8	28.4
	8H	23.5	24.1	24.2	24.8	25.5	27.1	27.7	27.7	28.4	29.0
	12H	23.6	24.2	24.2	24.8	25.5	27.8	28.4	28.4	29.0	29.7

12H	4H	22.9	23.7	23.5	24.3	24.9	25.2	25.9	25.8	26.5	27.2
	6H	23.5	24.2	24.2	24.8	25.5	26.5	27.1	27.1	27.7	28.4
	8H	23.8	24.3	24.4	24.9	25.7	27.2	27.7	27.8	28.4	29.1

Maximum UGR = 29.7

POLAR GRAPH



Maximum Candela = 3878.214 Located At Horizontal Angle = 90, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Vertical Plane Through Horizontal Angles (90 - 270)