

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FSW880L840-UNV-DIM.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] FO43880P1.PSO
[TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY
[ISSUE DATE] 6/9/2022
[MANUFAC] DAY-BRITE / CFI
[LUMCAT] FSW880L840-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	7969
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	136
Total Luminaire Watts	58.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.30
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	9264	7706	7348
55	8771	6936	6570
65	7998	6048	5723
75	6612	4937	4759
85	3611	3440	3591

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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	2353.457	2353.457	2353.457	2353.457	2353.457
2.5	2318.986	2342.641	2353.774	2361.123	2371.088
5.0	2310.279	2334.453	2346.735	2354.733	2364.728
7.5	2296.340	2320.814	2334.952	2345.027	2356.470
10.0	2276.870	2301.822	2318.886	2331.987	2344.628
12.5	2251.518	2277.409	2297.958	2313.564	2326.894
15.0	2221.303	2247.823	2272.316	2288.921	2301.972
17.5	2186.036	2212.996	2240.884	2258.657	2273.245
20.0	2145.287	2173.575	2203.150	2224.438	2239.645
22.5	2099.696	2129.890	2162.372	2186.026	2199.606
25.0	2048.742	2080.934	2116.960	2141.882	2155.971
27.5	1992.976	2027.255	2065.367	2093.984	2107.893
30.0	1934.148	1968.846	2011.169	2040.744	2055.592
32.5	1871.385	1907.085	1953.274	1984.671	1996.649
35.0	1803.632	1842.145	1890.893	1922.967	1936.800
37.5	1733.098	1773.883	1823.932	1859.552	1874.300
40.0	1660.228	1702.201	1754.986	1793.991	1808.160
42.5	1583.220	1627.841	1684.735	1724.298	1739.317
45.0	1503.557	1552.072	1611.966	1653.033	1666.736
47.5	1421.972	1473.135	1536.530	1578.752	1592.653
50.0	1338.719	1392.740	1459.008	1503.126	1517.091
52.5	1252.810	1310.821	1378.673	1425.666	1441.317
55.0	1163.969	1226.603	1297.225	1347.254	1363.108
57.5	1073.789	1139.957	1215.290	1266.783	1282.465
60.0	981.965	1052.361	1132.107	1185.879	1202.166
62.5	887.764	963.357	1047.349	1104.277	1121.491
65.0	792.525	873.843	962.724	1022.234	1040.431
67.5	697.580	784.763	878.424	939.598	958.516
70.0	603.142	695.781	793.180	856.771	877.352
72.5	507.661	607.260	708.116	773.943	797.292
75.0	412.898	519.905	624.500	691.058	716.687
77.5	323.438	433.946	541.091	610.846	636.680
80.0	235.738	353.793	459.480	531.971	558.301
82.5	155.153	273.549	381.850	455.064	483.402
85.0	86.344	198.927	309.455	384.251	412.313
87.5	34.664	133.697	243.876	321.627	350.889
90.0	6.123	89.691	195.143	270.867	299.840
92.5	3.331	73.168	167.317	238.026	265.024
95.0	4.961	69.693	155.335	220.549	245.589
97.5	6.804	69.230	150.288	211.602	235.235
100.0	8.371	69.042	148.747	206.735	229.250
102.5	10.484	68.821	147.494	204.487	226.320
105.0	11.790	68.315	145.853	202.030	223.476
107.5	13.282	67.610	143.938	199.103	220.183
110.0	14.698	66.021	141.793	195.820	216.321
112.5	15.946	63.053	138.875	191.980	211.940
115.0	17.196	57.877	135.399	187.604	206.913
117.5	18.470	53.901	130.780	183.279	201.781
120.0	19.672	51.025	124.625	178.604	196.507
122.5	20.811	47.892	117.753	173.276	190.500
125.0	21.845	47.794	110.670	167.676	182.899
127.5	22.794	47.662	102.566	160.335	174.252
130.0	23.964	47.189	92.407	150.779	166.184
132.5	26.330	47.185	84.421	140.243	159.996

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CANDELA TABULATION - (Cont.)

135.0	28.569	48.072	80.365	131.249	154.935
137.5	30.864	49.082	75.239	119.387	147.662
140.0	33.120	50.282	70.051	106.622	136.595
142.5	35.369	51.517	69.460	97.689	124.761
145.0	37.727	52.655	69.244	88.563	115.758
147.5	40.102	53.382	68.495	80.122	103.027
150.0	42.278	53.723	67.321	76.689	93.426
152.5	44.319	54.231	66.600	72.689	89.400
155.0	46.235	54.690	65.975	68.046	85.022
157.5	48.158	54.959	65.346	64.781	79.453
160.0	50.121	55.169	64.088	62.167	73.635
162.5	52.196	55.602	62.402	59.295	67.916
165.0	54.207	56.092	60.978	56.128	62.071
167.5	55.375	56.355	59.551	53.827	50.534
170.0	56.305	56.905	57.977	52.447	34.692
172.5	57.358	57.801	57.556	50.826	32.295
175.0	58.348	58.696	57.769	50.292	30.812
177.5	58.955	59.417	58.091	50.574	30.502
180.0	53.470	53.470	53.470	53.470	53.470

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	862.81	N.A.	10.80
0-30	1835.42	N.A.	23.00
0-40	3012.76	N.A.	37.80
0-60	5395.49	N.A.	67.70
0-80	6965.00	N.A.	87.40
0-90	7284.41	N.A.	91.40
10-90	7061.59	N.A.	88.60
20-40	2149.95	N.A.	27.00
20-50	3384.92	N.A.	42.50
40-70	3317.33	N.A.	41.60
60-80	1569.51	N.A.	19.70
70-80	634.91	N.A.	8.00
80-90	319.41	N.A.	4.00
90-110	302.06	N.A.	3.80
90-120	424.34	N.A.	5.30
90-130	520.17	N.A.	6.50
90-150	633.25	N.A.	7.90
90-180	684.23	N.A.	8.60
110-180	382.17	N.A.	4.80
0-180	7968.64	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	222.82
10-20	639.99
20-30	972.61
30-40	1177.34
40-50	1234.97
50-60	1147.75
60-70	934.60
70-80	634.91
80-90	319.41
90-100	161.09
100-110	140.97
110-120	122.28
120-130	95.82
130-140	67.85
140-150	45.23
150-160	29.53
160-170	16.40
170-180	5.05

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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	78	72	79	74	69	75	70	66	70	67	63	61
3	87	76	67	61	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	40	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

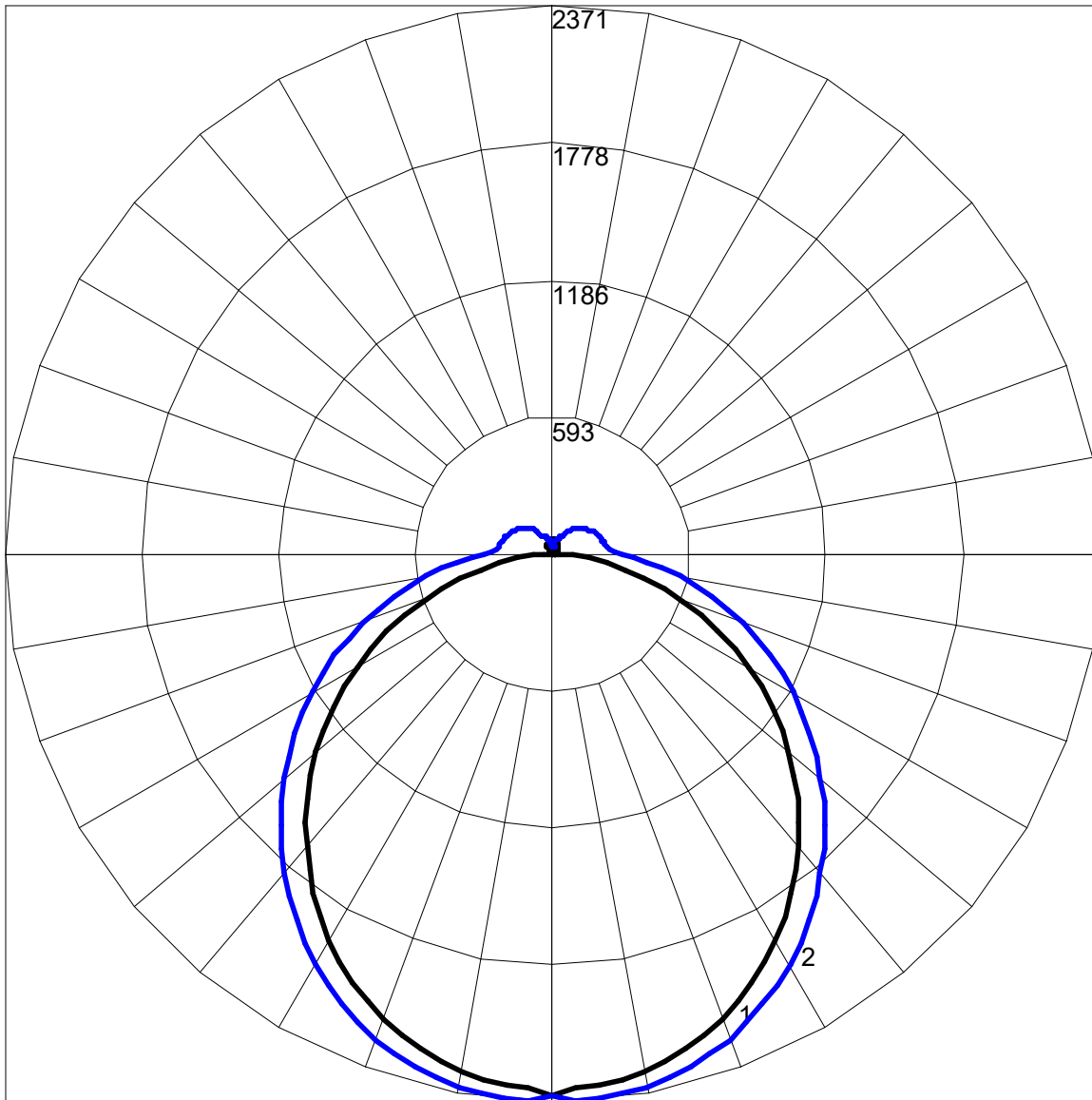
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	17.3	18.8	17.8	19.3	19.8	19.1	20.6	19.6	21.1	21.6
	3H	18.8	20.1	19.3	20.6	21.2	21.4	22.7	21.9	23.2	23.8
	4H	19.2	20.5	19.8	21.0	21.6	22.4	23.6	22.9	24.2	24.7
	6H	19.5	20.7	20.1	21.2	21.8	23.4	24.5	23.9	25.1	25.7
	8H	19.6	20.7	20.1	21.3	21.9	23.8	25.0	24.4	25.5	26.1
	12H	19.6	20.7	20.1	21.2	21.9	24.3	25.4	24.9	25.9	26.6
4H	2H	18.1	19.4	18.6	19.9	20.5	19.5	20.8	20.1	21.3	21.9
	3H	19.8	20.9	20.4	21.5	22.1	22.0	23.1	22.5	23.6	24.2
	4H	20.5	21.4	21.0	22.0	22.6	23.2	24.1	23.7	24.7	25.3
	6H	20.9	21.7	21.4	22.3	23.0	24.3	25.2	24.9	25.8	26.4
	8H	20.9	21.7	21.5	22.3	23.0	24.9	25.7	25.4	26.3	26.9
	12H	21.0	21.7	21.6	22.3	23.0	25.4	26.2	26.0	26.8	27.5
8H	4H	21.0	21.8	21.6	22.4	23.1	23.4	24.2	24.0	24.8	25.4
	6H	21.5	22.2	22.2	22.9	23.5	24.6	25.3	25.2	25.9	26.6
	8H	21.7	22.3	22.3	23.0	23.6	25.3	25.9	25.9	26.5	27.2
	12H	21.8	22.3	22.4	23.0	23.7	26.0	26.5	26.6	27.2	27.9
12H	4H	21.1	21.8	21.7	22.5	23.1	23.4	24.1	24.0	24.7	25.4
	6H	21.7	22.3	22.4	23.0	23.7	24.7	25.3	25.3	25.9	26.6
	8H	21.9	22.5	22.6	23.1	23.9	25.4	25.9	26.0	26.5	27.3

Maximum UGR = 27.9

POLAR GRAPH



Maximum Candela = 2371.088 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)