

Day-Brite



by Signify

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FSW8110L840-UNV-DIM.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] FO43879P1.PSO
[TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY
[ISSUE DATE] 6/8/2022
[MANUFAC] DAY-BRITE / CFI
[LUMCAT] FSW8110L840-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	10633
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	80.8
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	12347	10280	9803
55	11690	9256	8766
65	10673	8073	7635
75	8781	6595	6346
85	4761	4589	4791

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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	3137.628	3137.628	3137.628	3137.628	3137.628
2.5	3091.945	3123.448	3137.766	3147.851	3161.271
5.0	3080.213	3112.245	3128.520	3139.404	3152.784
7.5	3061.611	3094.062	3112.924	3126.363	3141.491
10.0	3035.610	3068.630	3091.476	3109.399	3125.904
12.5	3001.850	3036.389	3063.608	3085.165	3102.579
15.0	2961.571	2996.908	3029.399	3052.105	3069.040
17.5	2914.552	2950.568	2987.262	3011.676	3030.517
20.0	2860.303	2898.466	2937.787	2965.525	2986.014
22.5	2799.684	2839.954	2883.598	2914.172	2932.884
25.0	2731.956	2775.061	2822.580	2855.390	2874.781
27.5	2657.807	2703.778	2754.053	2791.337	2810.897
30.0	2578.756	2626.664	2682.171	2720.074	2741.372
32.5	2494.003	2544.218	2605.436	2644.877	2662.810
35.0	2404.668	2458.477	2522.840	2562.191	2582.970
37.5	2311.228	2367.603	2432.795	2478.257	2499.924
40.0	2213.984	2272.157	2340.674	2391.258	2411.797
42.5	2110.979	2172.766	2247.943	2298.547	2320.145
45.0	2003.999	2072.397	2150.489	2202.761	2223.630
47.5	1896.078	1967.484	2049.801	2105.567	2124.718
50.0	1785.428	1859.191	1946.202	2005.333	2024.638
52.5	1670.884	1749.118	1839.764	1902.218	1923.153
55.0	1551.461	1637.961	1731.169	1797.622	1818.704
57.5	1430.060	1522.936	1621.969	1689.600	1711.092
60.0	1307.640	1406.361	1510.603	1582.027	1603.541
62.5	1184.015	1287.180	1397.614	1473.337	1495.425
65.0	1057.501	1168.650	1285.071	1363.324	1388.023
67.5	930.217	1049.837	1172.818	1252.620	1279.242
70.0	803.163	929.677	1059.434	1142.264	1171.011
72.5	675.363	811.575	945.865	1032.459	1063.468
75.0	548.312	696.803	834.299	921.985	955.616
77.5	426.098	583.388	723.150	814.594	849.254
80.0	313.030	472.071	614.784	709.043	744.116
82.5	206.086	366.913	509.780	607.314	644.190
85.0	113.843	268.587	412.846	511.342	550.146
87.5	44.633	180.766	326.821	426.000	464.724
90.0	5.200	120.233	261.393	360.642	398.124
92.5	4.375	98.292	224.261	318.108	353.052
95.0	6.614	93.861	208.125	294.581	327.534
97.5	9.140	93.302	201.200	282.597	313.589
100.0	11.229	93.040	199.209	276.035	305.467
102.5	14.145	92.751	197.549	273.078	301.541
105.0	15.958	92.152	195.357	269.827	297.839
107.5	17.873	91.179	192.820	265.931	293.403
110.0	19.776	89.044	189.991	261.571	288.321
112.5	21.476	85.266	186.051	256.461	282.508
115.0	23.189	78.542	181.286	250.544	275.780
117.5	24.891	72.857	174.913	244.772	268.872
120.0	26.488	69.082	166.755	238.520	261.891
122.5	28.000	64.785	157.619	231.444	254.062
125.0	29.414	64.305	148.257	224.047	244.397
127.5	30.650	64.535	137.889	214.270	232.664
130.0	32.152	64.407	124.679	201.320	221.529
132.5	35.307	64.635	112.455	187.041	212.647

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CANDELA TABULATION - (Cont.)

135.0	38.211	65.811	106.955	175.057	206.280
137.5	41.274	67.145	100.870	159.756	196.886
140.0	44.301	68.677	93.835	142.414	182.294
142.5	47.361	69.991	92.988	129.917	166.827
145.0	50.574	71.375	93.240	118.117	155.145
147.5	53.803	72.214	92.685	106.542	138.226
150.0	56.723	72.463	91.395	102.192	125.649
152.5	59.443	73.146	90.214	98.147	119.772
155.0	62.095	73.879	89.174	92.467	113.873
157.5	64.763	73.911	87.866	87.986	106.426
160.0	67.179	73.965	86.266	83.950	98.462
162.5	69.805	74.362	83.904	79.738	90.500
165.0	72.831	75.437	82.105	75.473	82.578
167.5	74.628	75.768	79.706	72.210	66.774
170.0	75.431	75.948	77.567	70.105	45.598
172.5	76.892	77.146	76.793	67.576	43.019
175.0	78.276	78.264	77.076	66.620	41.252
177.5	79.055	79.235	77.478	67.069	40.847
180.0	71.205	71.205	71.205	71.205	71.205

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1150.35	N.A.	10.80
0-30	2447.22	N.A.	23.00
0-40	4017.34	N.A.	37.80
0-60	7196.31	N.A.	67.70
0-80	9291.29	N.A.	87.40
0-90	9717.46	N.A.	91.40
10-90	9420.4	N.A.	88.60
20-40	2866.99	N.A.	27.00
20-50	4514.46	N.A.	42.50
40-70	4426.4	N.A.	41.60
60-80	2094.98	N.A.	19.70
70-80	847.54	N.A.	8.00
80-90	426.17	N.A.	4.00
90-110	403.90	N.A.	3.80
90-120	567.54	N.A.	5.30
90-130	695.86	N.A.	6.50
90-150	847.43	N.A.	8.00
90-180	915.96	N.A.	8.60
110-180	512.06	N.A.	4.80
0-180	10633.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	297.06
10-20	853.29
20-30	1296.87
30-40	1570.12
40-50	1647.46
50-60	1531.5
60-70	1247.44
70-80	847.54
80-90	426.17
90-100	215.32
100-110	188.58
110-120	163.64
120-130	128.32
130-140	90.89
140-150	60.69
150-160	39.80
160-170	21.99
170-180	6.74

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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

X=2H	Y=2H	18.3	19.8	18.8	20.3	20.8	UGR Viewed Endwise			
	3H	19.8	21.1	20.3	21.6	22.2	20.1	21.6	20.6	22.1
	4H	20.3	21.5	20.8	22.0	22.6	22.4	23.7	22.9	24.2
	6H	20.5	21.7	21.1	22.2	22.8	23.4	24.6	23.9	25.2
	8H	20.6	21.7	21.1	22.3	22.9	24.3	25.5	24.9	26.1
	12H	20.6	21.7	21.1	22.2	22.9	24.8	26.0	25.4	26.5
							25.3	26.4	25.9	26.9

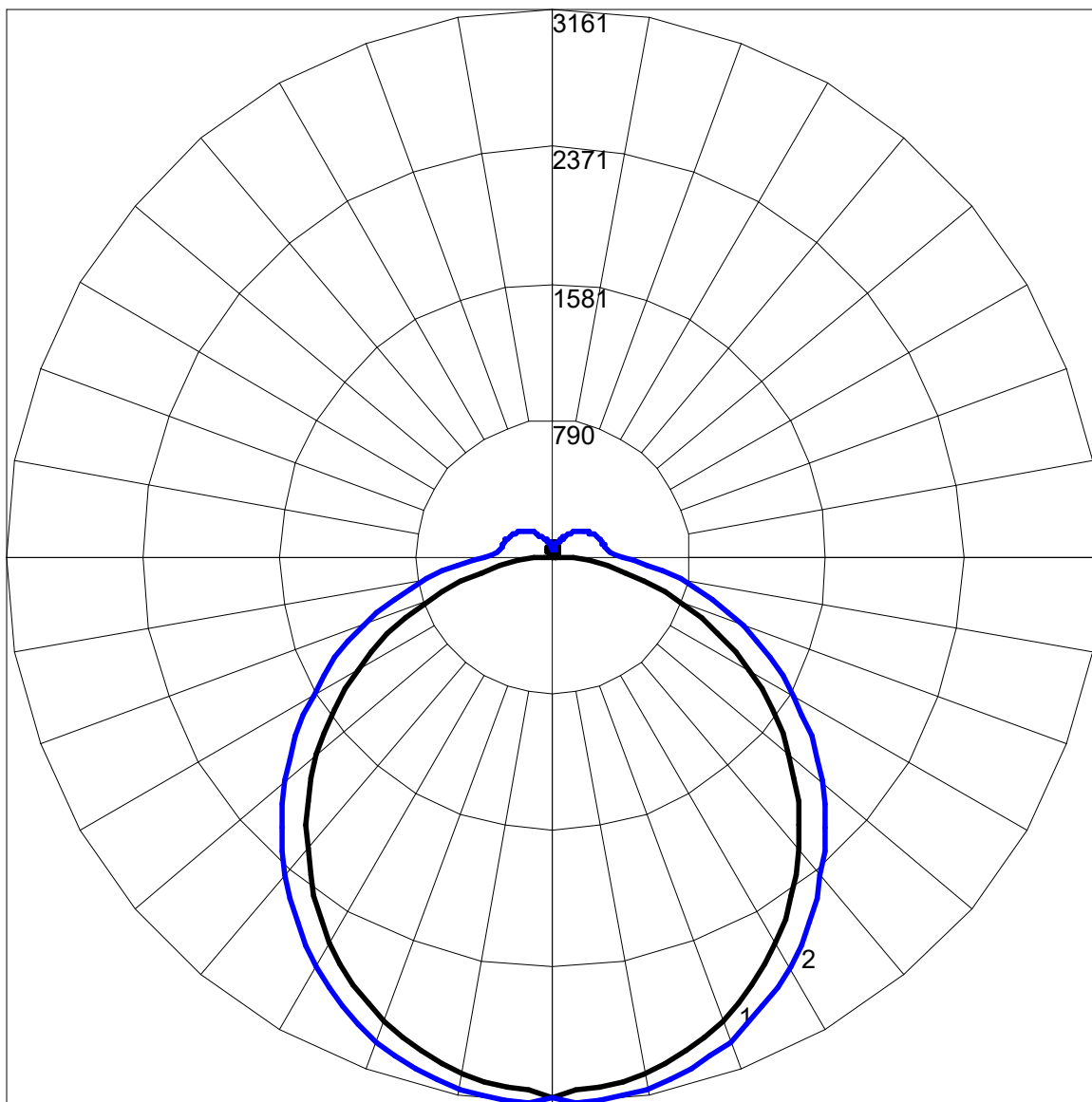
4H	2H	19.1	20.4	19.6	20.9	21.5	20.5	21.8	21.1	22.3
	3H	20.8	21.9	21.4	22.5	23.1	23.0	24.1	23.5	24.6
	4H	21.5	22.4	22.0	23.0	23.6	24.2	25.1	24.7	25.7
	6H	21.9	22.7	22.4	23.3	24.0	25.3	26.2	25.9	26.8
	8H	21.9	22.7	22.5	23.3	24.0	25.9	26.7	26.4	27.3
	12H	22.0	22.7	22.6	23.3	24.0	26.4	27.2	27.0	27.8

8H	4H	22.0	22.8	22.6	23.4	24.1	24.4	25.2	25.0	25.8
	6H	22.5	23.2	23.2	23.9	24.5	25.6	26.3	26.2	26.9
	8H	22.7	23.3	23.3	24.0	24.6	26.3	26.9	26.9	27.5
	12H	22.8	23.3	23.4	24.0	24.7	27.0	27.5	27.6	28.2

12H	4H	22.1	22.8	22.7	23.5	24.1	24.4	25.1	25.0	25.7
	6H	22.7	23.3	23.4	24.0	24.7	25.7	26.3	26.3	26.9
	8H	22.9	23.5	23.6	24.1	24.9	26.3	26.9	27.0	27.5

Maximum UGR = 28.9

POLAR GRAPH



Maximum Candela = 3161.271 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)