

Day-Brite



by Signify

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FSW8140L835-UNV-DIM.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] FO43878P6.PSO
[TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY
[ISSUE DATE] 6/8/2022
[MANUFAC] DAY-BRITE / CFI
[LUMCAT] FSW8140L835-UNV-DIM
[LUMINAIRE] 8FT FLUXSTREAM WRAP 4-FLS VO+TvS 22" 835 LV2E BOARDS

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	12810
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
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	14891	12392	11807
55	14100	11160	10560
65	12872	9729	9195
75	10600	7968	7637
85	5759	5536	5775

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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	3749.654	3749.654	3749.654	3749.654	3749.654
2.5	3724.213	3728.041	3744.908	3757.209	3773.745
5.0	3710.533	3719.753	3733.375	3746.997	3762.630
7.5	3688.176	3725.078	3730.616	3731.811	3749.368
10.0	3656.774	3694.744	3721.677	3731.432	3731.937
12.5	3616.181	3655.647	3688.584	3714.691	3719.200
15.0	3567.736	3608.583	3647.631	3674.836	3695.065
17.5	3511.102	3552.541	3596.953	3626.188	3648.875
20.0	3445.791	3490.067	3537.646	3571.263	3596.049
22.5	3372.901	3419.975	3472.374	3510.480	3532.380
25.0	3291.587	3342.305	3399.853	3439.893	3461.599
27.5	3202.385	3256.211	3318.170	3362.378	3384.618
30.0	3106.643	3163.200	3231.163	3276.722	3300.730
32.5	3004.566	3064.184	3138.570	3187.742	3205.979
35.0	2896.611	2961.796	3038.640	3088.542	3110.587
37.5	2784.498	2852.384	2931.220	2987.272	3009.852
40.0	2667.294	2737.171	2821.254	2882.474	2904.423
42.5	2544.551	2618.247	2709.879	2771.527	2794.097
45.0	2416.989	2497.146	2592.325	2656.042	2678.292
47.5	2286.629	2370.644	2469.903	2537.439	2559.562
50.0	2152.111	2239.749	2344.148	2416.863	2439.559
52.5	2013.570	2108.087	2216.198	2294.062	2316.749
55.0	1871.183	1974.900	2087.246	2168.336	2190.868
57.5	1725.796	1836.787	1956.210	2038.268	2061.606
60.0	1578.612	1696.083	1821.649	1908.056	1933.020
62.5	1428.090	1552.429	1684.115	1777.649	1802.139
65.0	1275.400	1409.328	1548.619	1646.222	1671.575
67.5	1122.270	1266.516	1414.139	1512.619	1541.134
70.0	968.960	1122.128	1277.872	1378.674	1410.809
72.5	814.932	980.398	1142.287	1246.687	1280.629
75.0	661.924	841.801	1007.959	1115.121	1150.079
77.5	513.376	705.151	874.357	985.998	1022.445
80.0	372.824	570.928	743.671	857.898	897.503
82.5	247.289	441.794	616.132	735.401	777.003
85.0	137.707	323.120	498.096	619.836	663.086
87.5	54.950	218.170	394.166	516.881	560.827
90.0	5.544	145.288	315.837	435.951	479.850
92.5	5.447	119.171	270.764	383.546	424.431
95.0	7.971	113.423	250.815	354.705	392.887
97.5	11.113	112.745	242.279	340.081	376.226
100.0	13.408	112.364	239.823	331.972	366.471
102.5	16.760	111.789	237.734	328.171	361.664
105.0	19.007	110.545	235.107	324.306	357.634
107.5	21.243	108.456	232.073	319.572	352.299
110.0	23.542	105.083	228.556	314.152	346.108
112.5	25.520	99.861	223.352	308.140	339.055
115.0	27.494	92.331	217.079	301.133	330.982
117.5	29.478	85.950	208.537	293.933	322.592
120.0	31.210	82.495	197.752	285.953	314.178
122.5	32.856	78.026	186.991	276.602	304.724
125.0	34.609	76.900	175.071	266.349	292.324
127.5	36.260	76.788	162.903	253.011	277.671
130.0	38.118	77.223	148.671	237.951	263.139
132.5	42.107	78.119	136.518	222.124	250.664

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CANDELA TABULATION - (Cont.)

135.0	45.749	79.149	129.350	208.271	241.822
137.5	49.394	80.210	121.977	191.402	230.995
140.0	53.032	81.659	114.338	171.923	215.004
142.5	56.493	82.872	113.246	158.002	199.183
145.0	60.325	84.279	113.287	144.440	187.644
147.5	64.077	85.404	112.210	130.916	168.863
150.0	67.592	86.298	109.941	124.966	154.765
152.5	70.964	87.227	108.009	118.775	147.202
155.0	73.945	88.365	106.799	111.313	138.582
157.5	76.961	88.723	104.972	105.269	128.590
160.0	80.289	89.108	102.477	100.163	118.501
162.5	83.717	89.638	99.650	95.444	108.790
165.0	86.558	89.887	98.029	90.893	99.105
167.5	88.686	90.318	95.730	87.073	79.971
170.0	90.563	91.494	93.342	84.665	55.774
172.5	92.135	92.745	92.368	81.729	52.680
175.0	93.223	93.488	92.889	81.117	50.722
177.5	93.837	94.356	93.229	81.539	49.812
180.0	85.552	85.552	85.552	85.552	85.552

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1383.02	N.A.	10.80
0-30	2945.07	N.A.	23.00
0-40	4836.67	N.A.	37.80
0-60	8668.5	N.A.	67.70
0-80	11196.38	N.A.	87.40
0-90	11711.19	N.A.	91.40
10-90	11355.33	N.A.	88.60
20-40	3453.65	N.A.	27.00
20-50	5439.11	N.A.	42.50
40-70	5336.31	N.A.	41.70
60-80	2527.87	N.A.	19.70
70-80	1023.39	N.A.	8.00
80-90	514.81	N.A.	4.00
90-110	485.97	N.A.	3.80
90-120	681.76	N.A.	5.30
90-130	834.46	N.A.	6.50
90-150	1016.21	N.A.	7.90
90-180	1098.53	N.A.	8.60
110-180	612.56	N.A.	4.80
0-180	12809.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	355.86
10-20	1027.16
20-30	1562.05
30-40	1891.61
40-50	1985.46
50-60	1846.37
60-70	1504.48
70-80	1023.39
80-90	514.81
90-100	259.44
100-110	226.53
110-120	195.80
120-130	152.70
130-140	108.50
140-150	73.25
150-160	47.86
160-170	26.34
170-180	8.12

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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	19.0	20.5	19.5	21.0	21.5	20.8	22.3	21.3	22.8	23.3
	3H	20.5	21.8	21.0	22.3	22.9	23.0	24.4	23.6	24.9	25.5
	4H	21.0	22.2	21.5	22.8	23.3	24.1	25.3	24.6	25.9	26.5
	6H	21.2	22.4	21.8	23.0	23.6	25.1	26.2	25.6	26.8	27.4
	8H	21.3	22.4	21.9	23.0	23.6	25.5	26.7	26.1	27.2	27.8
	12H	21.3	22.4	21.9	22.9	23.6	26.0	27.1	26.6	27.6	28.3

UGR Viewed Endwise

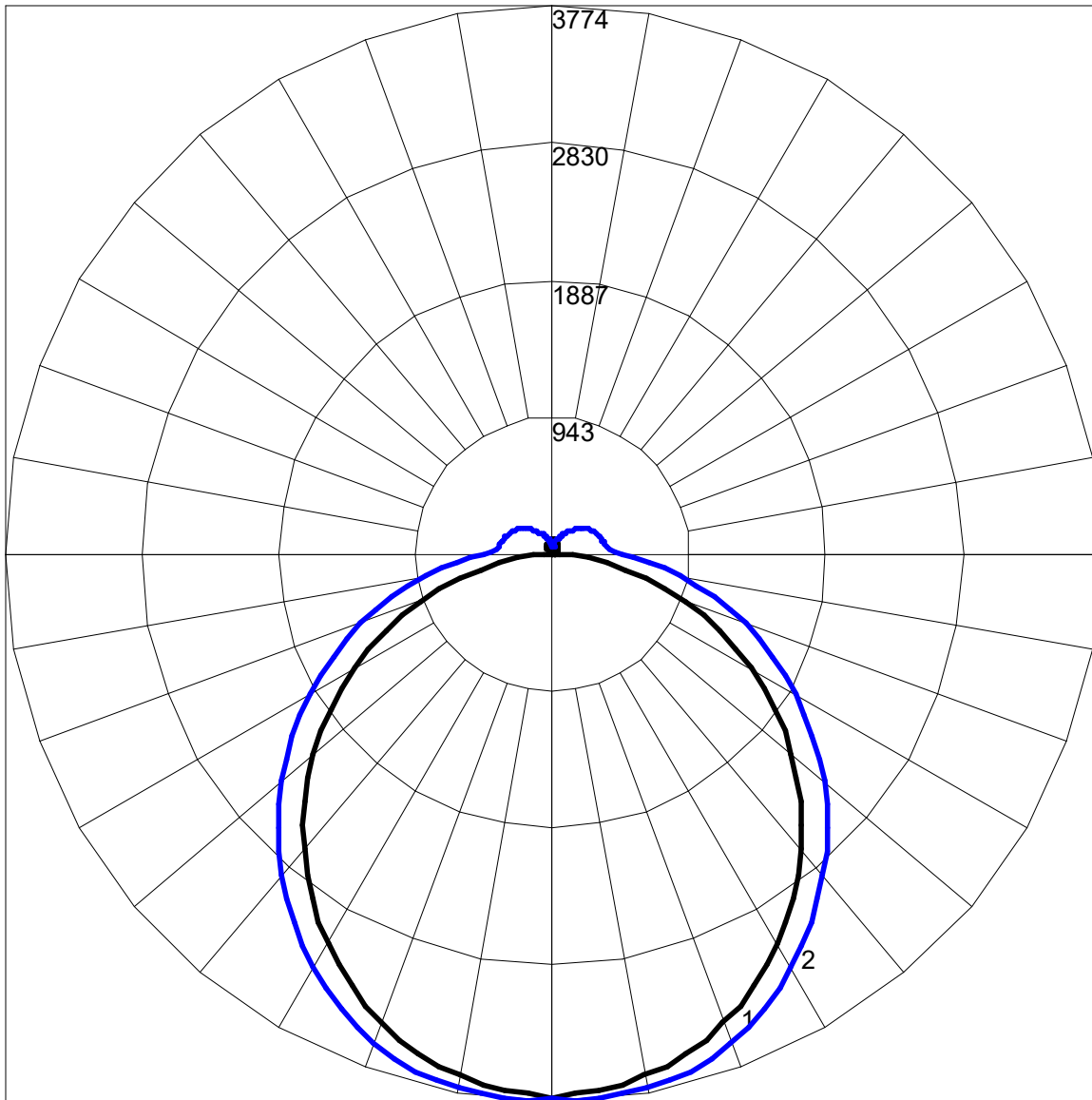
4H	2H	19.8	21.1	20.4	21.6	22.2	21.2	22.5	21.8	23.0	23.6
	3H	21.6	22.6	22.1	23.2	23.8	23.7	24.8	24.2	25.3	25.9
	4H	22.2	23.1	22.7	23.7	24.4	24.9	25.8	25.4	26.4	27.1
	6H	22.6	23.4	23.2	24.0	24.7	26.0	26.9	26.6	27.5	28.1
	8H	22.7	23.5	23.2	24.1	24.7	26.6	27.4	27.2	28.0	28.6
	12H	22.7	23.4	23.3	24.0	24.7	27.1	27.9	27.8	28.5	29.2

8H	4H	22.7	23.5	23.3	24.1	24.8	25.1	25.9	25.7	26.5	27.1
	6H	23.2	23.9	23.9	24.6	25.2	26.3	27.0	27.0	27.7	28.3
	8H	23.4	24.0	24.1	24.7	25.4	27.0	27.6	27.6	28.3	28.9
	12H	23.5	24.1	24.1	24.7	25.4	27.7	28.3	28.3	28.9	29.6

12H	4H	22.8	23.6	23.4	24.2	24.8	25.1	25.8	25.7	26.4	27.1
	6H	23.4	24.1	24.1	24.7	25.4	26.4	27.0	27.0	27.6	28.3
	8H	23.7	24.2	24.3	24.8	25.6	27.1	27.6	27.7	28.3	29.0

Maximum UGR = 29.6

POLAR GRAPH



Maximum Candela = 3773.745 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)