

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FSW470L835-UNV-DIM.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] FO43878P3.PSO

[TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY

[ISSUEDATE] 6/8/2022

[MANUFAC] DAY-BRITE / CFI

[LUMCAT] FSW470L835-UNV-DIM

[LUMINAIRE] 4FT FLUXSTREAM WRAP 2-FLS VO+TvS 22" 835 LV2E BOARDS, XI075C200V054VPT3 DRIVER @1168mA

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6414
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	51.8
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)	3.63 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	14795	12417	11955
55	13900	11148	10692
65	12530	9679	9310
75	10050	7881	7733
85	4930	5419	5847

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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	1877.643	1877.643	1877.643	1877.643	1877.643
2.5	1864.904	1866.821	1875.267	1881.427	1889.707
5.0	1858.054	1862.671	1869.492	1876.313	1884.141
7.5	1846.858	1865.337	1868.110	1868.709	1877.500
10.0	1831.134	1850.147	1863.634	1868.519	1868.772
12.5	1810.807	1830.569	1847.063	1860.136	1862.393
15.0	1786.548	1807.002	1826.556	1840.178	1850.308
17.5	1758.188	1778.939	1801.178	1815.818	1827.178
20.0	1725.484	1747.655	1771.480	1788.314	1800.726
22.5	1688.984	1712.556	1738.795	1757.877	1768.843
25.0	1648.266	1673.663	1702.480	1722.530	1733.399
27.5	1603.598	1630.552	1661.578	1683.715	1694.851
30.0	1555.655	1583.976	1618.009	1640.822	1652.844
32.5	1504.540	1534.393	1571.642	1596.266	1605.398
35.0	1450.481	1483.123	1521.603	1546.591	1557.630
37.5	1394.341	1428.334	1467.812	1495.880	1507.187
40.0	1335.650	1370.642	1412.746	1443.402	1454.393
42.5	1274.187	1311.090	1356.975	1387.845	1399.147
45.0	1210.310	1250.449	1298.109	1330.016	1341.158
47.5	1145.032	1187.102	1236.807	1270.625	1281.704
50.0	1077.672	1121.557	1173.835	1210.247	1221.612
52.5	1008.297	1055.627	1109.763	1148.754	1160.115
55.0	936.997	988.933	1045.191	1085.797	1097.080
57.5	864.195	919.773	979.574	1020.665	1032.351
60.0	790.492	849.315	912.193	955.461	967.962
62.5	715.117	777.381	843.322	890.160	902.423
65.0	638.658	705.723	775.473	824.348	837.043
67.5	561.978	634.209	708.132	757.446	771.724
70.0	485.208	561.907	639.896	690.372	706.464
72.5	408.078	490.935	572.001	624.280	641.277
75.0	331.459	421.533	504.736	558.398	575.903
77.5	257.073	353.105	437.835	493.740	511.991
80.0	186.692	285.893	372.394	429.594	449.426
82.5	123.830	221.229	308.529	368.253	389.085
85.0	68.957	161.803	249.422	310.384	332.041
87.5	27.516	109.249	197.379	258.829	280.835
90.0	2.776	72.753	158.156	218.303	240.285
92.5	2.727	59.675	135.586	192.061	212.534
95.0	3.992	56.797	125.596	177.619	196.739
97.5	5.565	56.457	121.321	170.296	188.396
100.0	6.714	56.266	120.092	166.235	183.511
102.5	8.393	55.978	119.045	164.332	181.104
105.0	9.518	55.356	117.730	162.396	179.085
107.5	10.638	54.310	116.211	160.026	176.414
110.0	11.789	52.620	114.450	157.312	173.314
112.5	12.779	50.006	111.844	154.301	169.782
115.0	13.768	46.235	108.703	150.793	165.740
117.5	14.761	43.040	104.425	147.187	161.538
120.0	15.628	41.309	99.025	143.191	157.325
122.5	16.453	39.071	93.636	138.509	152.591
125.0	17.330	38.508	87.667	133.375	146.382
127.5	18.157	38.452	81.574	126.696	139.044
130.0	19.088	38.670	74.447	119.154	131.767
132.5	21.085	39.118	68.362	111.229	125.520

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CANDELA TABULATION - (Cont.)

135.0	22.909	39.634	64.772	104.292	121.093
137.5	24.734	40.165	61.080	95.845	115.671
140.0	26.556	40.891	57.255	86.091	107.664
142.5	28.289	41.498	56.708	79.120	99.741
145.0	30.208	42.203	56.729	72.329	93.963
147.5	32.087	42.766	56.190	65.556	84.558
150.0	33.847	43.214	55.053	62.577	77.499
152.5	35.535	43.679	54.086	59.477	73.711
155.0	37.028	44.249	53.480	55.740	69.395
157.5	38.538	44.428	52.565	52.714	64.391
160.0	40.205	44.621	51.315	50.157	59.339
162.5	41.921	44.886	49.900	47.794	54.477
165.0	43.344	45.011	49.088	45.515	49.627
167.5	44.410	45.227	47.937	43.602	40.045
170.0	45.350	45.816	46.741	42.396	27.929
172.5	46.137	46.442	46.254	40.926	26.380
175.0	46.682	46.814	46.514	40.620	25.399
177.5	46.989	47.249	46.685	40.831	24.943
180.0	42.840	42.840	42.840	42.840	42.840

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	692.55	N.A.	10.80
0-30	1474.75	N.A.	23.00
0-40	2421.97	N.A.	37.80
0-60	4340.76	N.A.	67.70
0-80	5606.6	N.A.	87.40
0-90	5864.39	N.A.	91.40
10-90	5686.2	N.A.	88.60
20-40	1729.42	N.A.	27.00
20-50	2723.64	N.A.	42.50
40-70	2672.16	N.A.	41.70
60-80	1265.84	N.A.	19.70
70-80	512.46	N.A.	8.00
80-90	257.79	N.A.	4.00
90-110	243.35	N.A.	3.80
90-120	341.39	N.A.	5.30
90-130	417.86	N.A.	6.50
90-150	508.87	N.A.	7.90
90-180	550.09	N.A.	8.60
110-180	306.74	N.A.	4.80
0-180	6414.48	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	178.20
10-20	514.35
20-30	782.20
30-40	947.22
40-50	994.22
50-60	924.57
60-70	753.37
70-80	512.46
80-90	257.79
90-100	129.91
100-110	113.43
110-120	98.05
120-130	76.46
130-140	54.33
140-150	36.68
150-160	23.96
160-170	13.19
170-180	4.07

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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	22.7	23.3
	3H	20.5	21.9	21.0	22.4	22.9	23.0	24.3	23.5	24.8	25.4
	4H	21.0	22.3	21.5	22.8	23.4	24.0	25.3	24.5	25.8	26.4
	6H	21.3	22.4	21.8	23.0	23.6	24.9	26.1	25.5	26.7	27.3
	8H	21.3	22.4	21.9	23.0	23.6	25.4	26.5	26.0	27.1	27.7
	12H	21.3	22.4	21.9	23.0	23.6	25.8	26.9	26.4	27.5	28.1

UGR Viewed Endwise

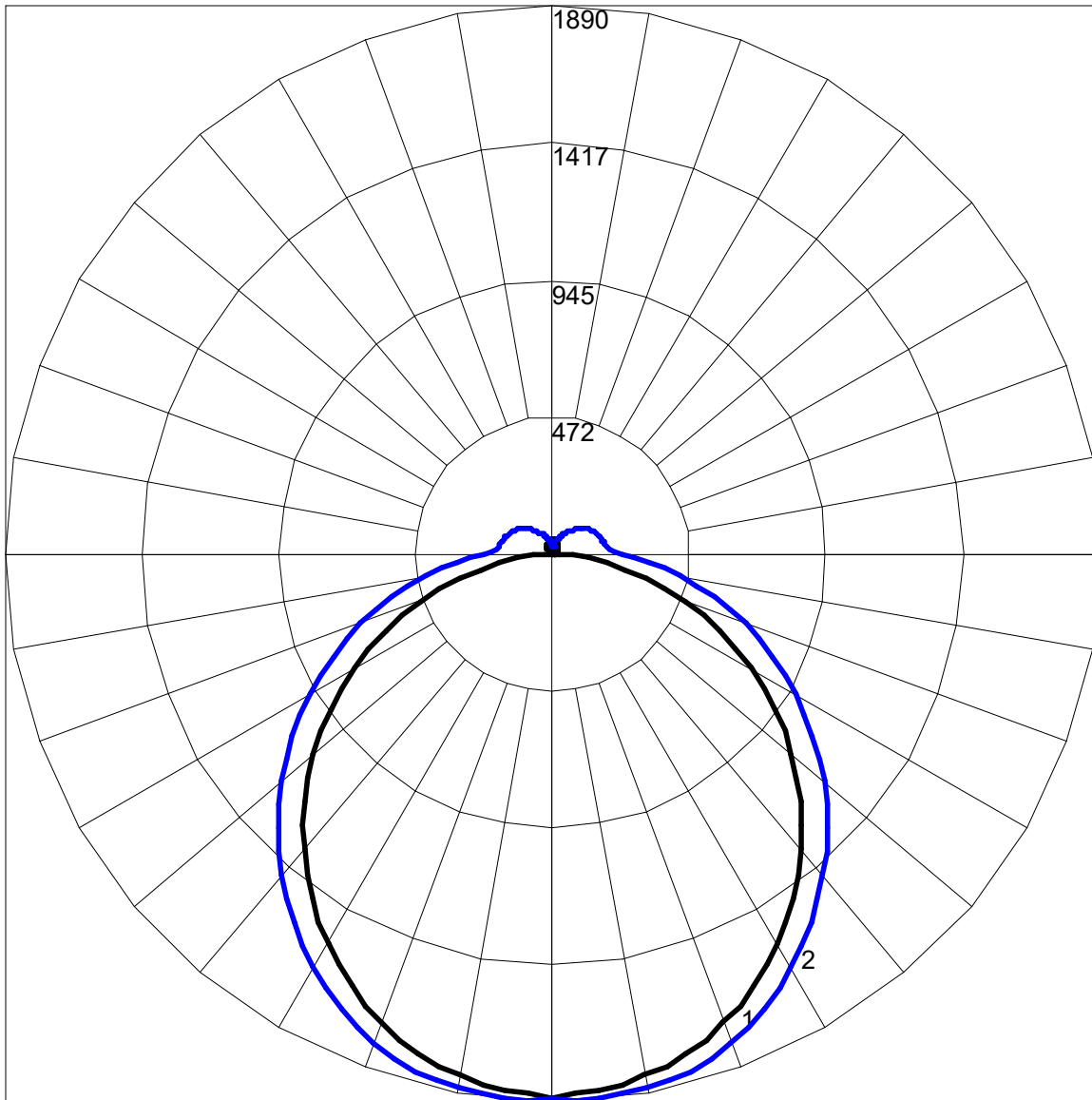
4H	2H	19.8	21.1	20.4	21.6	22.2	21.2	22.5	21.7	23.0	23.6
	3H	21.6	22.6	22.1	23.2	23.8	23.6	24.7	24.2	25.3	25.9
	4H	22.2	23.2	22.8	23.7	24.4	24.8	25.8	25.4	26.3	27.0
	6H	22.6	23.4	23.2	24.0	24.7	25.9	26.8	26.5	27.4	28.0
	8H	22.7	23.5	23.3	24.1	24.7	26.4	27.2	27.0	27.8	28.5
	12H	22.7	23.4	23.3	24.1	24.7	27.0	27.7	27.6	28.3	29.0

8H	4H	22.7	23.5	23.3	24.1	24.8	25.0	25.8	25.6	26.4	27.1
	6H	23.3	23.9	23.9	24.6	25.2	26.2	26.9	26.9	27.6	28.2
	8H	23.4	24.0	24.1	24.7	25.4	26.9	27.5	27.5	28.1	28.8
	12H	23.5	24.1	24.1	24.7	25.4	27.5	28.1	28.2	28.7	29.5

12H	4H	22.8	23.6	23.4	24.2	24.8	25.0	25.7	25.6	26.4	27.0
	6H	23.5	24.1	24.1	24.7	25.4	26.3	26.9	26.9	27.5	28.2
	8H	23.7	24.2	24.3	24.8	25.6	26.9	27.5	27.6	28.1	28.9

Maximum UGR = 29.5

POLAR GRAPH



Maximum Candela = 1889.707 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)