

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FSW470L840-UNV-DIM.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] FO43878.PSO

[TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY

[ISSUEDATE] 6/8/2022

[MANUFAC] DAY-BRITE / CFI

[LUMCAT] FSW470L840-UNV-DIM

[LUMINAIRE] 4FT FLUXSTREAM WRAP 2-FLS VO+TvS 22" 840 LV2E BOARDS, XI075C200V054VPT3 DRIVER @1168mA

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6592
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
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	15205	12761	12286
55	14284	11457	10988
65	12877	9947	9568
75	10328	8099	7947
85	5066	5569	6009

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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	1929.622	1929.622	1929.622	1929.622	1929.622
2.5	1916.530	1918.500	1927.180	1933.510	1942.020
5.0	1909.490	1914.235	1921.245	1928.255	1936.300
7.5	1897.985	1916.975	1919.825	1920.440	1929.475
10.0	1881.825	1901.365	1915.225	1920.245	1920.505
12.5	1860.935	1881.245	1898.195	1911.630	1913.950
15.0	1836.005	1857.025	1877.120	1891.120	1901.530
17.5	1806.860	1828.185	1851.040	1866.085	1877.760
20.0	1773.250	1796.035	1820.520	1837.820	1850.575
22.5	1735.740	1759.965	1786.930	1806.540	1817.810
25.0	1693.895	1719.995	1749.610	1770.215	1781.385
27.5	1647.990	1675.690	1707.575	1730.325	1741.770
30.0	1598.720	1627.825	1662.800	1686.245	1698.600
32.5	1546.190	1576.870	1615.150	1640.455	1649.840
35.0	1490.635	1524.180	1563.725	1589.405	1600.750
37.5	1432.940	1467.875	1508.445	1537.290	1548.910
40.0	1372.625	1408.585	1451.855	1483.360	1494.655
42.5	1309.460	1347.385	1394.540	1426.265	1437.880
45.0	1243.815	1285.065	1334.045	1366.835	1378.285
47.5	1176.730	1219.965	1271.045	1305.800	1317.185
50.0	1107.505	1152.605	1206.330	1243.750	1255.430
52.5	1036.210	1084.850	1140.485	1180.555	1192.230
55.0	962.936	1016.310	1074.125	1115.855	1127.450
57.5	888.118	945.235	1006.692	1048.920	1060.930
60.0	812.375	872.827	937.445	981.911	994.758
62.5	734.914	798.901	866.668	914.802	927.405
65.0	656.338	725.259	796.940	847.168	860.215
67.5	577.535	651.766	727.735	778.414	793.088
70.0	498.640	577.462	657.610	709.484	726.021
72.5	419.375	504.526	587.836	641.562	659.029
75.0	340.635	433.202	518.709	573.856	591.846
77.5	264.190	362.880	449.956	507.408	526.164
80.0	191.860	293.807	382.703	441.486	461.867
82.5	127.258	227.353	317.070	378.447	399.856
85.0	70.866	166.282	256.327	318.976	341.233
87.5	28.278	112.273	202.843	265.994	288.609
90.0	2.853	74.767	162.534	224.346	246.937
92.5	2.803	61.327	139.339	197.378	218.418
95.0	4.102	58.369	129.073	182.536	202.185
97.5	5.719	58.020	124.680	175.010	193.611
100.0	6.900	57.824	123.416	170.837	188.591
102.5	8.625	57.528	122.341	168.881	186.117
105.0	9.781	56.888	120.989	166.892	184.043
107.5	10.932	55.813	119.428	164.456	181.298
110.0	12.115	54.077	117.618	161.667	178.112
112.5	13.133	51.390	114.940	158.573	174.482
115.0	14.149	47.515	111.712	154.967	170.328
117.5	15.170	44.231	107.316	151.262	166.010
120.0	16.061	42.453	101.766	147.155	161.680
122.5	16.908	40.153	96.228	142.343	156.815
125.0	17.810	39.574	90.094	137.067	150.434
127.5	18.660	39.516	83.832	130.203	142.893
130.0	19.616	39.740	76.508	122.453	135.415
132.5	21.669	40.201	70.254	114.308	128.995

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CANDELA TABULATION - (Cont.)

135.0	23.543	40.731	66.565	107.179	124.445
137.5	25.419	41.277	62.771	98.498	118.873
140.0	27.291	42.023	58.840	88.474	110.644
142.5	29.072	42.647	58.278	81.310	102.502
145.0	31.044	43.371	58.299	74.331	96.564
147.5	32.975	43.950	57.745	67.371	86.899
150.0	34.784	44.410	56.577	64.309	79.644
152.5	36.519	44.888	55.583	61.123	75.752
155.0	38.053	45.474	54.960	57.283	71.316
157.5	39.605	45.658	54.020	54.173	66.174
160.0	41.318	45.856	52.736	51.545	60.982
162.5	43.082	46.129	51.281	49.117	55.985
165.0	44.544	46.257	50.447	46.775	51.001
167.5	45.639	46.479	49.264	44.809	41.154
170.0	46.605	47.084	48.035	43.570	28.702
172.5	47.414	47.728	47.534	42.059	27.110
175.0	47.974	48.110	47.802	41.744	26.102
177.5	48.290	48.557	47.977	41.961	25.634
180.0	44.026	44.026	44.026	44.026	44.026

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	711.72	N.A.	10.80
0-30	1515.57	N.A.	23.00
0-40	2489.02	N.A.	37.80
0-60	4460.93	N.A.	67.70
0-80	5761.81	N.A.	87.40
0-90	6026.74	N.A.	91.40
10-90	5843.61	N.A.	88.60
20-40	1777.3	N.A.	27.00
20-50	2799.04	N.A.	42.50
40-70	2746.14	N.A.	41.70
60-80	1300.88	N.A.	19.70
70-80	526.65	N.A.	8.00
80-90	264.93	N.A.	4.00
90-110	250.08	N.A.	3.80
90-120	350.84	N.A.	5.30
90-130	429.43	N.A.	6.50
90-150	522.96	N.A.	7.90
90-180	565.32	N.A.	8.60
110-180	315.23	N.A.	4.80
0-180	6592.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	183.13
10-20	528.59
20-30	803.85
30-40	973.45
40-50	1021.74
50-60	950.17
60-70	774.23
70-80	526.65
80-90	264.93
90-100	133.51
100-110	116.57
110-120	100.76
120-130	78.58
130-140	55.83
140-150	37.70
150-160	24.63
160-170	13.56
170-180	4.18

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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

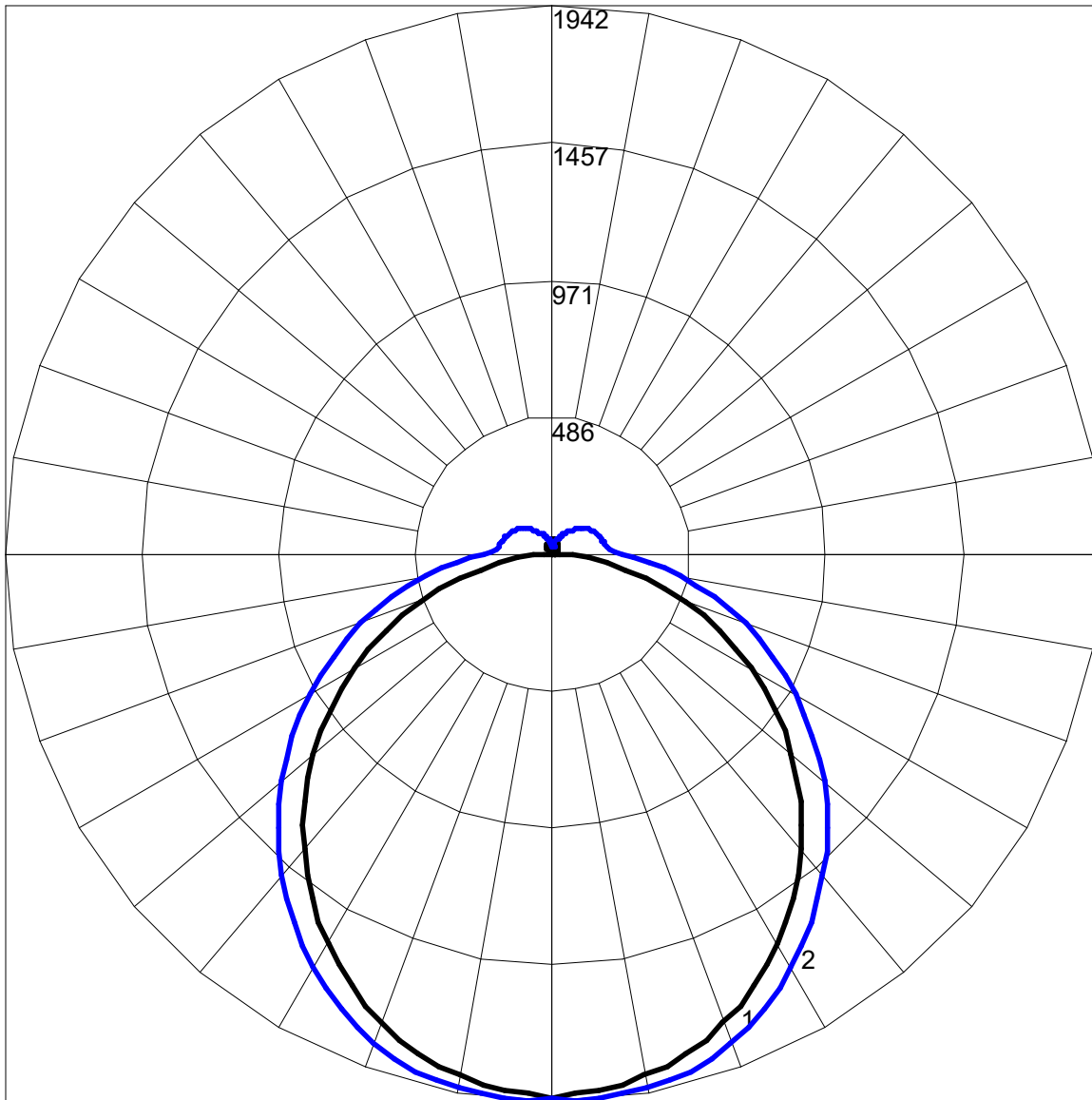
X=2H	Y=2H	19.1	20.6	19.6	21.1	21.6	20.9	22.4	21.4	22.8	23.4
	3H	20.6	22.0	21.1	22.5	23.0	23.1	24.4	23.6	24.9	25.5
	4H	21.1	22.4	21.6	22.9	23.5	24.1	25.4	24.6	25.9	26.5
	6H	21.4	22.5	21.9	23.1	23.7	25.0	26.2	25.6	26.8	27.4
	8H	21.4	22.5	22.0	23.1	23.7	25.5	26.6	26.1	27.2	27.8
	12H	21.4	22.5	22.0	23.1	23.7	25.9	27.0	26.5	27.6	28.2

UGR Viewed Endwise

4H	2H	19.9	21.2	20.5	21.7	22.3	21.3	22.6	21.8	23.1	23.7
	3H	21.7	22.7	22.2	23.3	23.9	23.7	24.8	24.3	25.4	26.0
	4H	22.3	23.3	22.9	23.8	24.5	24.9	25.9	25.5	26.4	27.1
	6H	22.7	23.5	23.3	24.1	24.8	26.0	26.9	26.6	27.5	28.1
	8H	22.8	23.6	23.4	24.2	24.8	26.5	27.3	27.1	27.9	28.6
	12H	22.8	23.5	23.4	24.2	24.8	27.1	27.8	27.7	28.4	29.1
8H	4H	22.8	23.6	23.4	24.2	24.9	25.1	25.9	25.7	26.5	27.2
	6H	23.4	24.0	24.0	24.7	25.3	26.3	27.0	27.0	27.7	28.3
	8H	23.5	24.1	24.2	24.8	25.5	27.0	27.6	27.6	28.2	28.9
	12H	23.6	24.2	24.2	24.8	25.5	27.6	28.2	28.3	28.8	29.6
12H	4H	22.9	23.7	23.5	24.3	24.9	25.1	25.8	25.7	26.5	27.1
	6H	23.6	24.2	24.2	24.8	25.5	26.4	27.0	27.0	27.6	28.3
	8H	23.8	24.3	24.4	24.9	25.7	27.0	27.6	27.7	28.2	29.0

Maximum UGR = 29.6

POLAR GRAPH



Maximum Candela = 1942.02 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)