

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FSW455L840-UNV-DIM.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] FO43879.PSO

[TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY

[ISSUEDATE] 6/8/2022

[MANUFAC] DAY-BRITE / CFI

[LUMCAT] FSW455L840-UNV-DIM

[LUMINAIRE] 4FT FLUXSTREAM WRAP 2-FLS VO+TvS 22" 840 LV2E BOARDS, XI040C110V054BST2 DRIVER @900mA

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5325
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	40.3
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)	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	12267	10301	9926
55	11525	9246	8876
65	10389	8032	7731
75	8325	6523	6425
85	4075	4492	4851

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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	1571.171	1571.171	1571.171	1571.171	1571.171
2.5	1548.295	1564.070	1571.240	1576.290	1583.010
5.0	1542.420	1558.460	1566.610	1572.060	1578.760
7.5	1533.105	1549.355	1558.800	1565.530	1573.105
10.0	1520.085	1536.620	1548.060	1557.035	1565.300
12.5	1503.180	1520.475	1534.105	1544.900	1553.620
15.0	1483.010	1500.705	1516.975	1528.345	1536.825
17.5	1459.465	1477.500	1495.875	1508.100	1517.535
20.0	1432.300	1451.410	1471.100	1484.990	1495.250
22.5	1401.945	1422.110	1443.965	1459.275	1468.645
25.0	1368.030	1389.615	1413.410	1429.840	1439.550
27.5	1330.900	1353.920	1379.095	1397.765	1407.560
30.0	1291.315	1315.305	1343.100	1362.080	1372.745
32.5	1248.875	1274.020	1304.675	1324.425	1333.405
35.0	1204.140	1231.085	1263.315	1283.020	1293.425
37.5	1157.350	1185.580	1218.225	1240.990	1251.840
40.0	1108.655	1137.785	1172.095	1197.425	1207.710
42.5	1057.075	1088.015	1125.660	1151.000	1161.815
45.0	1003.505	1037.755	1076.860	1103.035	1113.485
47.5	949.463	985.220	1026.440	1054.365	1063.955
50.0	894.055	930.992	974.563	1004.173	1013.840
52.5	836.697	875.873	921.264	952.538	963.021
55.0	776.896	820.211	866.885	900.161	910.718
57.5	716.104	762.612	812.203	846.069	856.831
60.0	654.802	704.237	756.436	792.202	802.975
62.5	592.897	644.557	699.857	737.775	748.836
65.0	529.545	585.203	643.501	682.686	695.054
67.5	465.807	525.707	587.290	627.251	640.582
70.0	402.185	465.537	530.513	571.990	586.385
72.5	338.189	406.397	473.643	517.005	532.533
75.0	274.568	348.925	417.776	461.685	478.526
77.5	213.369	292.132	362.118	407.909	425.265
80.0	156.750	236.390	307.854	355.054	372.617
82.5	103.198	183.732	255.273	304.113	322.579
85.0	57.007	134.495	206.733	256.055	275.486
87.5	22.350	90.519	163.656	213.320	232.711
90.0	2.604	60.207	130.893	180.592	199.361
92.5	2.191	49.220	112.299	159.293	176.791
95.0	3.312	47.001	104.219	147.512	164.013
97.5	4.577	46.721	100.751	141.511	157.030
100.0	5.623	46.590	99.754	138.225	152.963
102.5	7.083	46.445	98.923	136.744	150.997
105.0	7.991	46.145	97.825	135.116	149.143
107.5	8.950	45.658	96.555	133.165	146.922
110.0	9.903	44.589	95.138	130.982	144.377
112.5	10.754	42.697	93.165	128.423	141.466
115.0	11.612	39.330	90.779	125.460	138.097
117.5	12.464	36.483	87.588	122.570	134.638
120.0	13.264	34.593	83.503	119.439	131.142
122.5	14.021	32.441	78.928	115.896	127.222
125.0	14.729	32.201	74.240	112.192	122.382
127.5	15.348	32.316	69.048	107.296	116.507
130.0	16.100	32.252	62.433	100.811	110.931
132.5	17.680	32.366	56.312	93.661	106.483

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CANDELA TABULATION - (Cont.)

135.0	19.134	32.955	53.558	87.660	103.295
137.5	20.668	33.623	50.511	79.998	98.591
140.0	22.184	34.390	46.988	71.314	91.284
142.5	23.716	35.048	46.564	65.056	83.539
145.0	25.325	35.741	46.690	59.147	77.689
147.5	26.942	36.161	46.412	53.351	69.217
150.0	28.404	36.286	45.766	51.173	62.919
152.5	29.766	36.628	45.175	49.147	59.976
155.0	31.094	36.995	44.654	46.303	57.022
157.5	32.430	37.011	43.999	44.059	53.293
160.0	33.640	37.038	43.198	42.038	49.305
162.5	34.955	37.237	42.015	39.929	45.318
165.0	36.470	37.775	41.114	37.793	41.351
167.5	37.370	37.941	39.913	36.159	33.437
170.0	37.772	38.031	38.842	35.105	22.833
172.5	38.504	38.631	38.454	33.839	21.542
175.0	39.197	39.191	38.596	33.360	20.657
177.5	39.587	39.677	38.797	33.585	20.454
180.0	35.656	35.656	35.656	35.656	35.656

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	576.04	N.A.	10.80
0-30	1225.45	N.A.	23.00
0-40	2011.69	N.A.	37.80
0-60	3603.56	N.A.	67.70
0-80	4652.62	N.A.	87.40
0-90	4866.03	N.A.	91.40
10-90	4717.27	N.A.	88.60
20-40	1435.65	N.A.	27.00
20-50	2260.62	N.A.	42.50
40-70	2216.53	N.A.	41.60
60-80	1049.06	N.A.	19.70
70-80	424.41	N.A.	8.00
80-90	213.40	N.A.	4.00
90-110	202.26	N.A.	3.80
90-120	284.20	N.A.	5.30
90-130	348.45	N.A.	6.50
90-150	424.35	N.A.	8.00
90-180	458.67	N.A.	8.60
110-180	256.41	N.A.	4.80
0-180	5324.7	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	148.75
10-20	427.28
20-30	649.41
30-40	786.24
40-50	824.97
50-60	766.90
60-70	624.66
70-80	424.41
80-90	213.40
90-100	107.82
100-110	94.43
110-120	81.94
120-130	64.25
130-140	45.51
140-150	30.39
150-160	19.93
160-170	11.01
170-180	3.38

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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	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	20.1	21.5	20.6	22.0	22.6
	3H	19.8	21.2	20.3	21.7	22.2	22.3	23.6	22.8	24.1	24.7
	4H	20.3	21.6	20.8	22.1	22.7	23.3	24.6	23.8	25.1	25.7
	6H	20.6	21.7	21.1	22.3	22.9	24.2	25.4	24.8	26.0	26.6
	8H	20.6	21.7	21.2	22.3	22.9	24.7	25.8	25.2	26.4	27.0
	12H	20.6	21.7	21.2	22.3	22.9	25.1	26.2	25.7	26.8	27.4

UGR Viewed Endwise

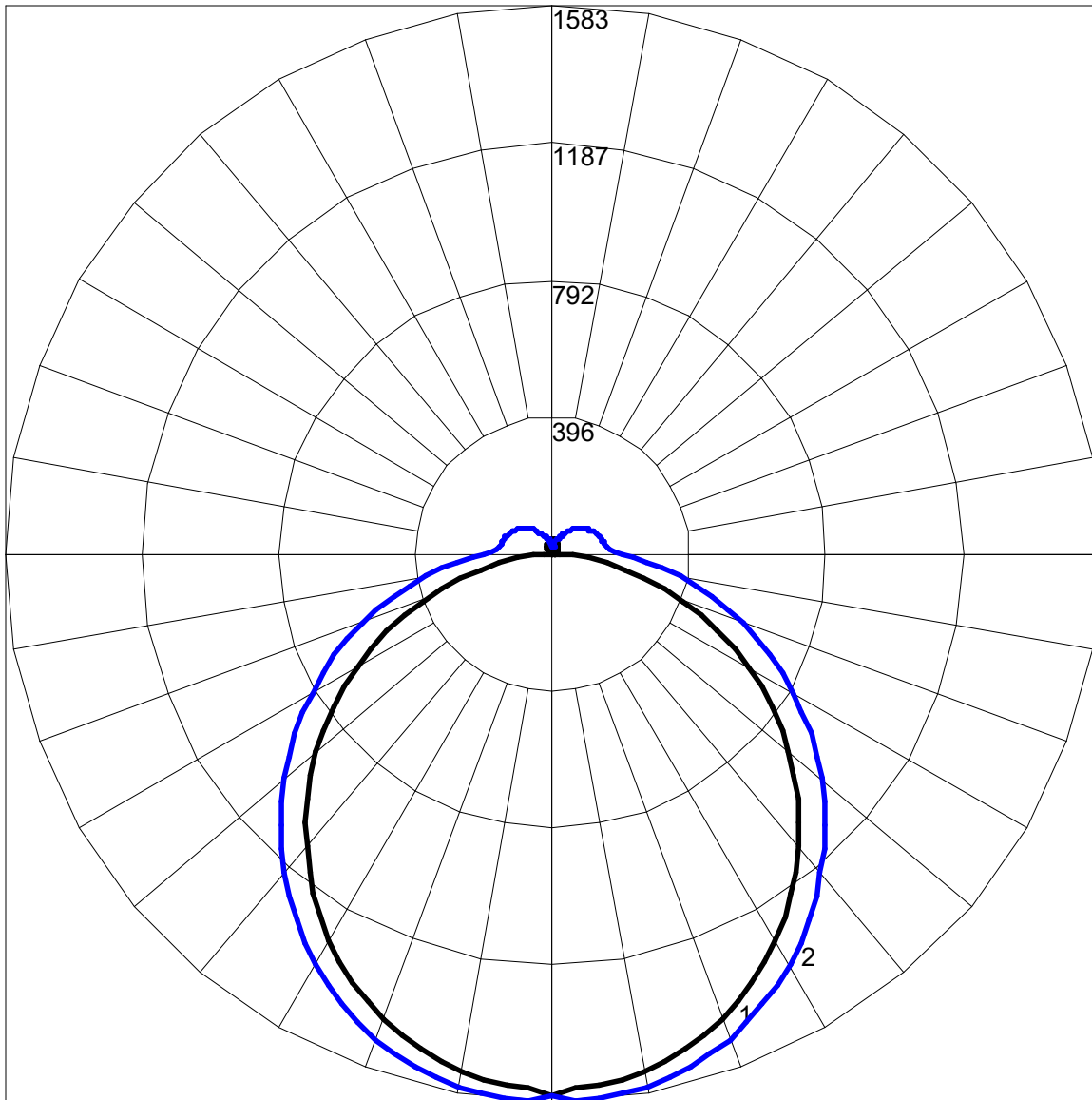
4H	2H	19.1	20.4	19.7	20.9	21.5	20.5	21.8	21.0	22.3	22.9
	3H	20.9	21.9	21.4	22.5	23.1	22.9	24.0	23.5	24.6	25.2
	4H	21.5	22.5	22.0	23.0	23.7	24.1	25.1	24.7	25.6	26.3
	6H	21.9	22.7	22.5	23.3	24.0	25.2	26.1	25.8	26.7	27.3
	8H	22.0	22.8	22.6	23.4	24.0	25.7	26.5	26.3	27.1	27.8
	12H	22.0	22.7	22.6	23.4	24.0	26.3	27.0	26.9	27.6	28.3

8H	4H	22.0	22.8	22.6	23.4	24.1	24.3	25.1	24.9	25.7	26.4
	6H	22.5	23.2	23.2	23.9	24.5	25.5	26.2	26.1	26.8	27.5
	8H	22.7	23.3	23.4	24.0	24.7	26.2	26.8	26.8	27.4	28.1
	12H	22.8	23.4	23.4	24.0	24.7	26.8	27.4	27.5	28.0	28.8

12H	4H	22.1	22.8	22.7	23.5	24.1	24.3	25.0	24.9	25.6	26.3
	6H	22.7	23.3	23.4	24.0	24.7	25.6	26.2	26.2	26.8	27.5
	8H	22.9	23.5	23.6	24.1	24.9	26.2	26.8	26.9	27.4	28.2

Maximum UGR = 28.8

POLAR GRAPH



Maximum Candela = 1583.01 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)