

Day-Brite



by Signify

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FSW440L840-UNV-DIM.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] FO43880.PSO

[TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY

[ISSUEDATE] 6/9/2022

[MANUFAC] DAY-BRITE / CFI

[LUMCAT] FSW440L840-UNV-DIM

[LUMINAIRE] 4FT FLUXSTREAM WRAP 2-FLS VO+TvS 22" 840 LV2E BOARDS, XI040C110V054BST2 DRIVER @655mA

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3990
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	29.2
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	9204	7721	7440
55	8646	6929	6653
65	7786	6017	5795
75	6269	4883	4819
85	3091	3367	3636

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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	1178.496	1178.496	1178.496	1178.496	1178.496
2.5	1161.235	1173.080	1178.655	1182.335	1187.325
5.0	1156.875	1168.980	1175.130	1179.135	1184.140
7.5	1149.895	1162.150	1169.230	1174.275	1180.005
10.0	1140.145	1152.640	1161.185	1167.745	1174.075
12.5	1127.450	1140.415	1150.705	1158.520	1165.195
15.0	1112.320	1125.600	1137.865	1146.180	1152.715
17.5	1094.660	1108.160	1122.125	1131.025	1138.330
20.0	1074.255	1088.420	1103.230	1113.890	1121.505
22.5	1051.425	1066.545	1082.810	1094.655	1101.455
25.0	1025.910	1042.030	1060.070	1072.550	1079.605
27.5	997.985	1015.150	1034.235	1048.565	1055.530
30.0	968.527	985.902	1007.095	1021.905	1029.340
32.5	937.098	954.975	978.104	993.826	999.824
35.0	903.171	922.456	946.867	962.928	969.855
37.5	867.851	888.274	913.336	931.173	938.558
40.0	831.361	852.379	878.811	898.343	905.438
42.5	792.799	815.143	843.633	863.444	870.965
45.0	752.908	777.202	807.194	827.758	834.620
47.5	712.054	737.674	769.419	790.562	797.523
50.0	670.365	697.416	730.600	752.692	759.685
52.5	627.346	656.395	690.372	713.904	721.741
55.0	582.859	614.223	649.587	674.639	682.578
57.5	537.701	570.835	608.558	634.343	642.196
60.0	491.720	526.971	566.904	593.830	601.986
62.5	444.549	482.402	524.461	552.968	561.588
65.0	396.858	437.578	482.085	511.885	520.997
67.5	349.314	392.971	439.872	470.505	479.978
70.0	302.024	348.413	397.186	429.029	439.335
72.5	254.212	304.086	354.590	387.553	399.245
75.0	206.759	260.343	312.719	346.048	358.882
77.5	161.962	217.299	270.952	305.882	318.818
80.0	118.046	177.162	230.085	266.385	279.570
82.5	77.693	136.980	191.212	227.874	242.064
85.0	43.237	99.613	154.960	192.414	206.466
87.5	17.358	66.949	122.121	161.055	175.708
90.0	3.066	44.913	97.718	135.637	150.145
92.5	1.668	36.639	83.784	119.192	132.711
95.0	2.484	34.899	77.784	110.440	122.979
97.5	3.407	34.667	75.257	105.960	117.794
100.0	4.192	34.573	74.485	103.523	114.797
102.5	5.250	34.462	73.858	102.397	113.330
105.0	5.904	34.209	73.036	101.167	111.906
107.5	6.651	33.856	72.077	99.701	110.257
110.0	7.360	33.060	71.003	98.057	108.323
112.5	7.985	31.574	69.542	96.134	106.129
115.0	8.611	28.982	67.801	93.943	103.612
117.5	9.249	26.991	65.488	91.777	101.042
120.0	9.851	25.551	62.406	89.436	98.401
122.5	10.421	23.982	58.965	86.768	95.393
125.0	10.939	23.933	55.418	83.964	91.587
127.5	11.414	23.867	51.360	80.288	87.257
130.0	12.000	23.630	46.273	75.503	83.217
132.5	13.185	23.628	42.274	70.227	80.118

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CANDELA TABULATION - (Cont.)

135.0	14.306	24.072	40.243	65.723	77.584
137.5	15.455	24.578	37.676	59.783	73.942
140.0	16.585	25.179	35.078	53.391	68.400
142.5	17.711	25.797	34.782	48.918	62.474
145.0	18.892	26.367	34.674	44.348	57.966
147.5	20.081	26.731	34.299	40.121	51.591
150.0	21.171	26.902	33.711	38.402	46.783
152.5	22.193	27.156	33.350	36.399	44.767
155.0	23.152	27.386	33.037	34.074	42.575
157.5	24.115	27.521	32.722	32.439	39.786
160.0	25.098	27.626	32.092	31.130	36.873
162.5	26.137	27.843	31.248	29.692	34.009
165.0	27.144	28.088	30.535	28.106	31.082
167.5	27.729	28.220	29.820	26.954	25.305
170.0	28.195	28.495	29.032	26.263	17.372
172.5	28.722	28.944	28.821	25.451	16.172
175.0	29.218	29.392	28.928	25.184	15.429
177.5	29.522	29.753	29.089	25.325	15.274
180.0	26.775	26.775	26.775	26.775	26.775

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	432.05	N.A.	10.80
0-30	919.09	N.A.	23.00
0-40	1508.64	N.A.	37.80
0-60	2701.8	N.A.	67.70
0-80	3487.73	N.A.	87.40
0-90	3647.68	N.A.	91.40
10-90	3536.1	N.A.	88.60
20-40	1076.59	N.A.	27.00
20-50	1695.00	N.A.	42.50
40-70	1661.16	N.A.	41.60
60-80	785.93	N.A.	19.70
70-80	317.93	N.A.	8.00
80-90	159.95	N.A.	4.00
90-110	151.26	N.A.	3.80
90-120	212.49	N.A.	5.30
90-130	260.47	N.A.	6.50
90-150	317.10	N.A.	7.90
90-180	342.63	N.A.	8.60
110-180	191.37	N.A.	4.80
0-180	3990.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	111.58
10-20	320.48
20-30	487.04
30-40	589.55
40-50	618.41
50-60	574.74
60-70	468.00
70-80	317.93
80-90	159.95
90-100	80.67
100-110	70.59
110-120	61.23
120-130	47.98
130-140	33.98
140-150	22.65
150-160	14.79
160-170	8.21
170-180	2.53

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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

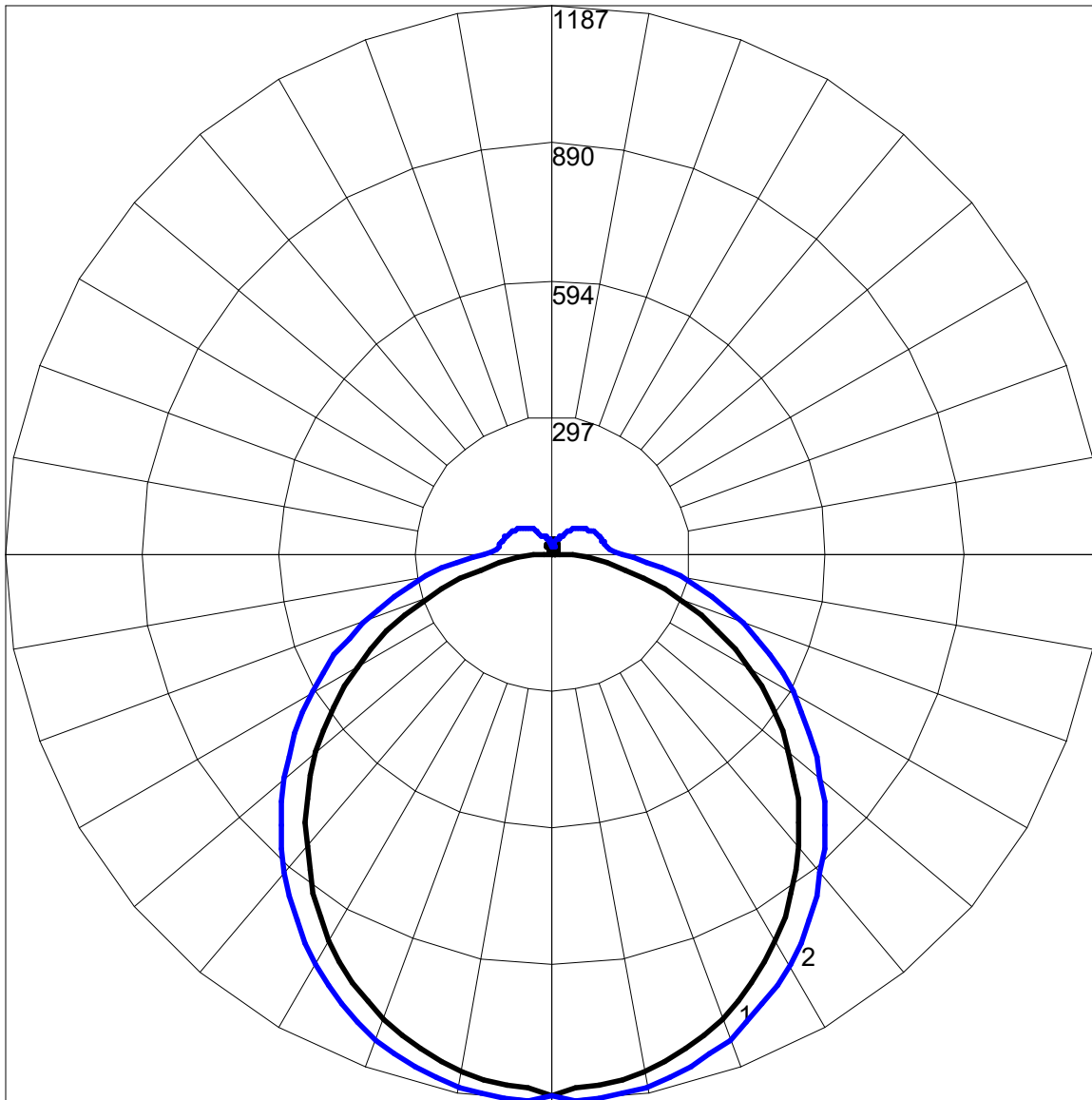
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	17.3	18.8	17.8	19.3	19.8	19.1	20.6	19.6	21.0	21.6
	3H	18.8	20.2	19.3	20.7	21.2	21.3	22.6	21.8	23.1	23.7
	4H	19.3	20.6	19.8	21.1	21.7	22.3	23.6	22.8	24.1	24.7
	6H	19.6	20.7	20.1	21.3	21.9	23.2	24.4	23.8	25.0	25.6
	8H	19.6	20.7	20.2	21.3	21.9	23.7	24.8	24.3	25.4	26.0
	12H	19.6	20.7	20.2	21.3	21.9	24.1	25.2	24.7	25.8	26.4
4H	2H	18.1	19.4	18.7	19.9	20.5	19.5	20.8	20.0	21.3	21.9
	3H	19.9	20.9	20.4	21.5	22.1	21.9	23.0	22.5	23.6	24.2
	4H	20.5	21.5	21.0	22.0	22.7	23.1	24.1	23.7	24.6	25.3
	6H	20.9	21.7	21.5	22.3	23.0	24.2	25.1	24.8	25.7	26.3
	8H	21.0	21.8	21.6	22.4	23.0	24.7	25.5	25.3	26.1	26.8
	12H	21.0	21.7	21.6	22.3	23.0	25.3	26.0	25.9	26.6	27.3
8H	4H	21.0	21.8	21.6	22.4	23.1	23.3	24.1	23.9	24.7	25.4
	6H	21.5	22.2	22.2	22.9	23.5	24.5	25.2	25.1	25.8	26.5
	8H	21.7	22.3	22.4	23.0	23.7	25.2	25.8	25.8	26.4	27.1
	12H	21.8	22.3	22.4	23.0	23.7	25.8	26.4	26.5	27.0	27.8
12H	4H	21.1	21.8	21.7	22.5	23.1	23.3	24.0	23.9	24.6	25.3
	6H	21.7	22.3	22.4	23.0	23.7	24.6	25.2	25.2	25.8	26.5
	8H	21.9	22.5	22.6	23.1	23.9	25.2	25.8	25.9	26.4	27.2

Maximum UGR = 27.8

POLAR GRAPH



Maximum Candela = 1187.325 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)