

Day-Brite



by Signify

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FSI880L835-UNV-DIM.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] FO43934P6.PSO
[TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY
[ISSUEDATE] 7/20/2022
[MANUFAC] DAY-BRITE CFI by SIGNIFY
[LUMCAT] FSI880L835-UNV-DIM
[LUMINAIRE] 8' FLUXSTREAM INDUSTRIAL 4-FLS VO+TvS LV2E 835 BOARDS, XI050C140V054BST1 1302mA 277V, FSI DIF

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8160
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
Total Luminaire Watts	58.8
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	7.50 ft
Luminous Width (90-270)	0.35 ft
Luminous Height	0.10 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8995	7736	7411
55	8634	7027	6722
65	7974	6105	5875
75	6679	4809	4769
85	3531	3214	3585

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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	2397.034	2397.034	2397.034	2397.034	2397.034
2.5	2360.626	2386.491	2396.197	2405.369	2416.513
5.0	2352.582	2378.543	2388.900	2398.150	2408.284
7.5	2339.659	2365.475	2376.114	2384.917	2395.954
10.0	2321.238	2347.413	2358.129	2367.797	2379.553
12.5	2297.696	2323.482	2334.636	2345.401	2357.304
15.0	2269.344	2294.033	2306.217	2316.681	2327.815
17.5	2235.931	2259.725	2272.667	2282.704	2294.781
20.0	2197.776	2220.609	2233.288	2244.190	2256.986
22.5	2154.579	2176.391	2190.266	2202.148	2212.914
25.0	2106.183	2127.374	2142.297	2154.297	2165.208
27.5	2053.269	2074.227	2089.073	2102.588	2113.285
30.0	1996.402	2016.786	2033.060	2045.885	2057.078
32.5	1935.571	1954.778	1973.598	1986.248	1994.089
35.0	1870.322	1889.140	1908.926	1921.178	1930.847
37.5	1801.401	1820.131	1838.092	1854.662	1864.347
40.0	1729.154	1747.294	1766.571	1784.987	1793.778
42.5	1652.435	1671.235	1694.243	1711.030	1720.447
45.0	1573.327	1593.235	1617.607	1634.345	1644.699
47.5	1492.316	1511.257	1537.076	1556.761	1567.746
50.0	1408.576	1427.133	1454.070	1476.656	1488.364
52.5	1321.645	1340.358	1368.647	1394.346	1407.581
55.0	1231.872	1250.432	1280.944	1311.070	1325.115
57.5	1138.913	1157.100	1192.025	1225.755	1240.055
60.0	1043.191	1062.784	1100.890	1139.385	1153.509
62.5	945.459	965.956	1008.386	1050.732	1065.147
65.0	846.150	867.356	915.332	960.480	977.439
67.5	746.117	767.291	821.757	869.492	887.983
70.0	645.455	667.089	726.897	778.787	798.104
72.5	544.346	568.423	634.298	689.156	709.348
75.0	442.934	470.802	543.587	600.940	622.531
77.5	344.585	376.659	455.159	515.290	538.750
80.0	248.589	290.317	372.583	434.536	458.696
82.5	161.094	210.235	298.772	363.302	386.166
85.0	86.564	142.501	233.638	300.956	325.334
87.5	30.563	92.308	183.812	250.744	274.470
90.0	3.414	67.933	154.687	217.989	240.000
92.5	4.784	66.199	144.285	201.921	222.342
95.0	10.631	70.744	143.859	197.675	216.844
97.5	18.282	76.658	147.334	198.162	216.462
100.0	26.577	82.705	152.375	201.510	219.155
102.5	34.055	88.634	157.615	206.027	223.370
105.0	41.110	94.453	162.565	210.449	227.567
107.5	48.108	100.009	167.392	214.586	231.529
110.0	55.135	104.525	171.997	218.280	235.006
112.5	61.710	106.049	175.835	221.491	238.021
115.0	67.987	103.973	178.553	224.040	240.221
117.5	73.844	100.825	178.983	226.512	242.186
120.0	79.380	97.842	178.171	228.624	243.890
122.5	84.677	95.355	176.513	230.122	244.731
125.0	89.751	94.401	174.275	231.345	245.112
127.5	94.597	96.179	170.398	231.453	245.374
130.0	99.131	98.412	163.161	228.554	244.656
132.5	105.407	103.093	154.842	223.696	243.569

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CANDELA TABULATION - (Cont.)

135.0	114.702	109.379	146.549	216.275	242.026
137.5	124.530	117.206	139.042	203.774	237.751
140.0	134.161	126.067	132.733	189.330	228.156
142.5	143.681	135.327	128.893	174.661	216.405
145.0	153.037	145.043	130.156	160.833	204.738
147.5	162.164	155.237	133.178	148.581	193.565
150.0	170.961	165.083	138.051	139.584	183.497
152.5	179.412	174.261	144.730	135.183	176.958
155.0	187.894	183.050	154.242	134.155	173.454
157.5	196.035	191.501	164.972	135.780	170.130
160.0	203.526	199.425	176.863	142.563	168.188
162.5	210.467	207.113	188.590	151.500	168.931
165.0	216.613	214.073	199.054	161.442	158.154
167.5	222.044	220.202	208.168	172.483	135.129
170.0	225.981	225.871	216.188	182.823	115.726
172.5	230.501	231.175	224.013	191.351	112.498
175.0	233.946	235.332	230.095	198.526	115.112
177.5	235.035	237.788	234.061	203.322	116.915
180.0	213.875	213.875	213.875	213.875	213.875

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	877.03	N.A.	10.70
0-30	1863.26	N.A.	22.80
0-40	3055.01	N.A.	37.40
0-60	5443.86	N.A.	66.70
0-80	6916.9	N.A.	84.80
0-90	7169.93	N.A.	87.90
10-90	6943.1	N.A.	85.10
20-40	2177.98	N.A.	26.70
20-50	3422.76	N.A.	41.90
40-70	3292.79	N.A.	40.40
60-80	1473.04	N.A.	18.10
70-80	569.10	N.A.	7.00
80-90	253.03	N.A.	3.10
90-110	305.66	N.A.	3.70
90-120	468.87	N.A.	5.70
90-130	618.38	N.A.	7.60
90-150	841.13	N.A.	10.30
90-180	989.68	N.A.	12.10
110-180	684.02	N.A.	8.40
0-180	8159.62	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	226.83
10-20	650.20
20-30	986.23
30-40	1191.75
40-50	1244.78
50-60	1144.07
60-70	903.94
70-80	569.10
80-90	253.03
90-100	146.77
100-110	158.89
110-120	163.20
120-130	149.51
130-140	125.62
140-150	97.14
150-160	75.57
160-170	53.34
170-180	19.65

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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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	91	91	91	88
1	105	100	96	92	101	97	93	89	90	87	84	84	82	79	79	77	75	72
2	95	87	80	74	92	84	78	72	79	73	69	73	69	65	69	65	62	59
3	87	76	68	61	83	74	66	60	69	63	57	65	59	55	60	56	52	50
4	79	67	58	52	76	65	57	51	61	54	49	57	51	47	54	49	45	42
5	73	60	51	44	70	58	50	43	55	47	42	51	45	40	48	43	39	36
6	67	54	45	38	64	52	44	38	49	42	37	46	40	35	44	38	34	32
7	62	49	40	34	60	47	39	33	45	37	32	42	36	31	40	34	30	28
8	58	44	36	30	56	43	35	30	41	34	29	39	32	28	37	31	27	25
9	54	41	32	27	52	40	32	27	38	31	26	36	29	25	34	28	24	22
10	51	37	30	24	49	36	29	24	35	28	23	33	27	23	31	26	22	20

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UGR TABLE - CORRECTED

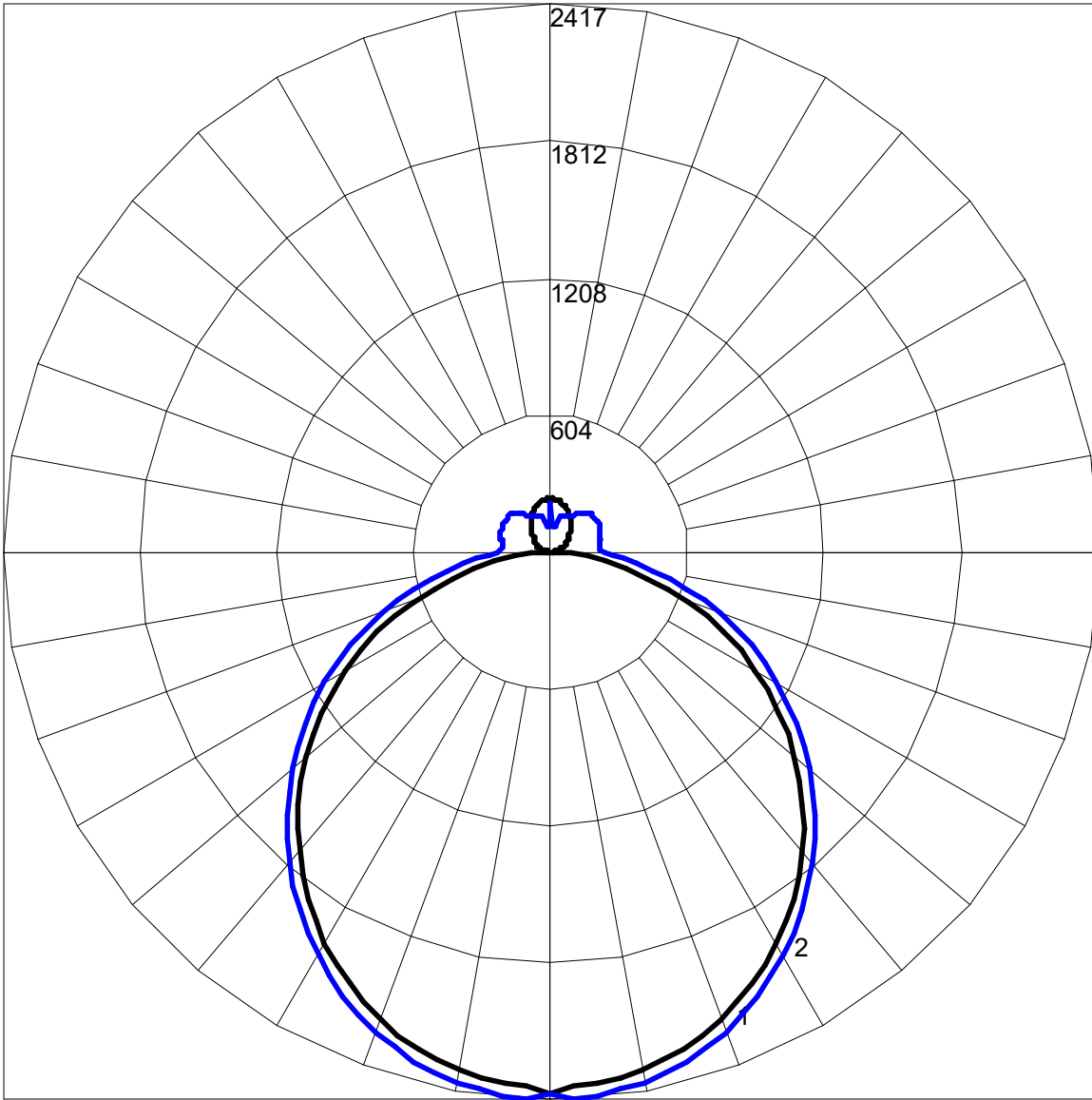
Reflectances

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	17.5	18.9	18.0	19.5	20.1	18.7	20.1	19.2	20.6	21.2
	3H	19.0	20.3	19.6	20.9	21.5	20.8	22.0	21.3	22.6	23.2
	4H	19.5	20.7	20.1	21.3	22.0	21.7	22.9	22.2	23.4	24.1
	6H	19.8	20.9	20.4	21.5	22.2	22.5	23.6	23.0	24.2	24.8
	8H	19.9	20.9	20.5	21.5	22.2	22.8	23.9	23.4	24.5	25.2
	12H	19.9	20.9	20.5	21.5	22.2	23.2	24.2	23.8	24.8	25.5
4H	2H	18.2	19.4	18.8	20.0	20.6	19.1	20.3	19.7	20.9	21.6
	3H	19.9	21.0	20.5	21.6	22.2	21.4	22.4	22.0	23.0	23.7
	4H	20.5	21.5	21.1	22.1	22.8	22.4	23.4	23.0	24.0	24.7
	6H	20.9	21.7	21.5	22.4	23.1	23.4	24.2	24.0	24.9	25.6
	8H	21.0	21.8	21.6	22.4	23.1	23.9	24.6	24.5	25.3	26.0
	12H	21.0	21.7	21.7	22.4	23.1	24.3	25.0	25.0	25.7	26.4
8H	4H	20.9	21.7	21.6	22.3	23.1	22.6	23.4	23.3	24.0	24.8
	6H	21.4	22.1	22.1	22.8	23.5	23.7	24.4	24.4	25.0	25.8
	8H	21.6	22.1	22.2	22.8	23.6	24.3	24.9	25.0	25.5	26.3
	12H	21.6	22.1	22.3	22.8	23.6	24.9	25.4	25.6	26.1	26.9
12H	4H	21.0	21.7	21.7	22.4	23.1	22.6	23.3	23.3	24.0	24.7
	6H	21.6	22.1	22.2	22.8	23.6	23.8	24.3	24.4	25.0	25.8
	8H	21.7	22.3	22.4	22.9	23.7	24.3	24.9	25.0	25.5	26.3

Maximum UGR = 26.9

POLAR GRAPH



Maximum Candela = 2416.513 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)