

Day-Brite



by Signify

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FSI880L840-UNV-DIM.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] FO43934P1.PSO

[TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY

[ISSUEDATE] 7/20/2022

[MANUFAC] DAY-BRITE CFI by SIGNIFY

[LUMCAT] FSI880L840-UNV-DIM

[LUMINAIRE] 8' FLUXSTREAM INDUSTRIAL 4-FLS VO+TvS LV2E 840 BOARDS, XI050C140V054BST1 1302mA 277V, FSI DIF

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8385
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
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	9244	7950	7616
55	8873	7221	6908
65	8195	6274	6038
75	6864	4942	4901
85	3629	3303	3684

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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	2463.391	2463.391	2463.391	2463.391	2463.391
2.5	2425.976	2452.556	2462.531	2471.956	2483.409
5.0	2417.708	2444.388	2455.032	2464.538	2474.952
7.5	2404.428	2430.958	2441.892	2450.938	2462.281
10.0	2385.496	2412.396	2423.409	2433.345	2445.426
12.5	2361.303	2387.803	2399.266	2410.329	2422.561
15.0	2332.166	2357.538	2370.060	2380.813	2392.256
17.5	2297.828	2322.281	2335.581	2345.896	2358.307
20.0	2258.617	2282.082	2295.112	2306.315	2319.466
22.5	2214.224	2236.640	2250.899	2263.110	2274.174
25.0	2164.488	2186.266	2201.603	2213.934	2225.147
27.5	2110.110	2131.648	2146.905	2160.794	2171.787
30.0	2051.668	2072.616	2089.341	2102.521	2114.024
32.5	1989.154	2008.892	2028.233	2041.234	2049.291
35.0	1922.099	1941.437	1961.771	1974.362	1984.299
37.5	1851.269	1870.518	1888.976	1906.005	1915.958
40.0	1777.022	1795.664	1815.475	1834.400	1843.435
42.5	1698.179	1717.500	1741.144	1758.396	1768.074
45.0	1616.881	1637.340	1662.387	1679.589	1690.229
47.5	1533.628	1553.093	1579.627	1599.857	1611.146
50.0	1447.569	1466.641	1494.323	1517.534	1529.566
52.5	1358.232	1377.463	1406.535	1432.945	1446.547
55.0	1265.974	1285.048	1316.404	1347.364	1361.798
57.5	1170.442	1189.132	1225.024	1259.688	1274.384
60.0	1072.069	1092.205	1131.366	1170.927	1185.441
62.5	971.632	992.697	1036.301	1079.820	1094.634
65.0	869.574	891.367	940.671	987.069	1004.497
67.5	766.772	788.531	844.505	893.562	912.565
70.0	663.324	685.556	747.020	800.346	820.198
72.5	559.416	584.158	651.857	708.234	728.985
75.0	455.196	483.835	558.635	617.576	639.765
77.5	354.124	387.086	467.759	529.554	553.664
80.0	255.470	298.354	382.897	446.565	471.394
82.5	165.553	216.055	307.043	373.359	396.856
85.0	88.960	146.446	240.105	309.287	334.340
87.5	31.409	94.863	188.900	257.685	282.068
90.0	3.509	69.813	158.969	224.023	246.643
92.5	4.917	68.032	148.279	207.510	228.497
95.0	10.926	72.703	147.842	203.147	222.847
97.5	18.788	78.780	151.413	203.648	222.454
100.0	27.313	84.994	156.593	207.089	225.222
102.5	34.997	91.087	161.979	211.730	229.553
105.0	42.249	97.068	167.065	216.275	233.867
107.5	49.440	102.778	172.026	220.527	237.939
110.0	56.661	107.419	176.758	224.323	241.511
112.5	63.419	108.984	180.703	227.622	244.611
115.0	69.869	106.851	183.496	230.242	246.871
117.5	75.888	103.616	183.938	232.782	248.890
120.0	81.577	100.551	183.103	234.953	250.641
122.5	87.021	97.995	181.399	236.493	251.506
125.0	92.235	97.014	179.099	237.749	251.898
127.5	97.216	98.842	175.115	237.861	252.167
130.0	101.875	101.136	167.678	234.881	251.428
132.5	108.325	105.947	159.129	229.889	250.312

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CANDELA TABULATION - (Cont.)

135.0	117.877	112.407	150.606	222.262	248.726
137.5	127.978	120.451	142.891	209.415	244.333
140.0	137.875	129.557	136.407	194.572	234.472
142.5	147.658	139.073	132.461	179.496	222.396
145.0	157.274	149.058	133.759	165.286	210.406
147.5	166.654	159.534	136.864	152.695	198.923
150.0	175.694	169.653	141.873	143.449	188.577
152.5	184.379	179.085	148.737	138.925	181.857
155.0	193.096	188.117	158.512	137.869	178.256
157.5	201.461	196.802	169.539	139.538	174.839
160.0	209.160	204.946	181.759	146.510	172.844
162.5	216.293	212.846	193.811	155.694	173.607
165.0	222.610	220.000	204.565	165.911	162.532
167.5	228.191	226.298	213.931	177.258	138.869
170.0	232.237	232.123	222.172	187.884	118.929
172.5	236.882	237.575	230.214	196.649	115.612
175.0	240.423	241.847	236.465	204.022	118.298
177.5	241.541	244.371	240.541	208.950	120.152
180.0	219.796	219.796	219.796	219.796	219.796

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	901.31	N.A.	10.70
0-30	1914.84	N.A.	22.80
0-40	3139.58	N.A.	37.40
0-60	5594.57	N.A.	66.70
0-80	7108.38	N.A.	84.80
0-90	7368.42	N.A.	87.90
10-90	7135.31	N.A.	85.10
20-40	2238.27	N.A.	26.70
20-50	3517.52	N.A.	41.90
40-70	3383.95	N.A.	40.40
60-80	1513.81	N.A.	18.10
70-80	584.85	N.A.	7.00
80-90	260.04	N.A.	3.10
90-110	314.12	N.A.	3.70
90-120	481.84	N.A.	5.70
90-130	635.49	N.A.	7.60
90-150	864.41	N.A.	10.30
90-180	1017.08	N.A.	12.10
110-180	702.96	N.A.	8.40
0-180	8385.5	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	233.11
10-20	668.20
20-30	1013.53
30-40	1224.74
40-50	1279.24
50-60	1175.74
60-70	928.96
70-80	584.86
80-90	260.04
90-100	150.83
100-110	163.29
110-120	167.72
120-130	153.65
130-140	129.09
140-150	99.82
150-160	77.66
160-170	54.81
170-180	20.20

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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	
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	37	29	24	35	28	23	33	27	23	31	26	22	20

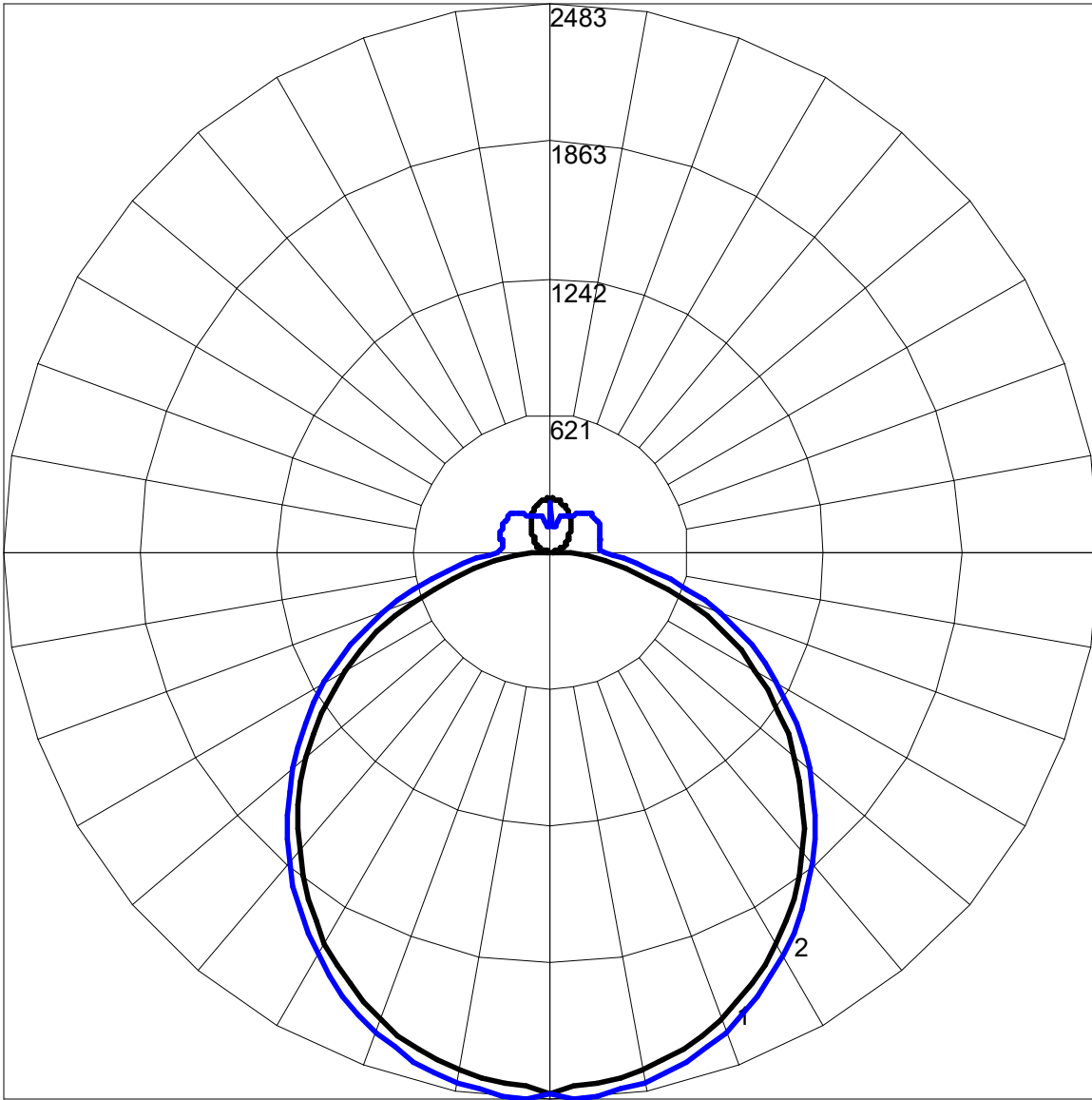
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UGR TABLE - CORRECTED

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	17.6	19.0	18.1	19.6	20.2	18.8	20.2	19.3	20.7	21.3
	3H	19.1	20.4	19.7	21.0	21.6	20.9	22.1	21.4	22.7	23.3
	4H	19.6	20.8	20.2	21.4	22.1	21.8	23.0	22.3	23.5	24.2
	6H	19.9	21.0	20.5	21.6	22.3	22.6	23.7	23.1	24.3	24.9
	8H	20.0	21.0	20.6	21.6	22.3	22.9	24.0	23.5	24.6	25.3
	12H	20.0	21.0	20.6	21.6	22.3	23.3	24.3	23.9	24.9	25.6
4H	2H	18.3	19.5	18.9	20.1	20.7	19.2	20.4	19.8	21.0	21.7
	3H	20.0	21.1	20.6	21.7	22.3	21.5	22.5	22.1	23.1	23.8
	4H	20.6	21.6	21.2	22.2	22.9	22.5	23.5	23.1	24.1	24.8
	6H	21.0	21.8	21.6	22.5	23.2	23.5	24.3	24.1	25.0	25.7
	8H	21.1	21.9	21.7	22.5	23.2	24.0	24.7	24.6	25.4	26.1
	12H	21.1	21.8	21.8	22.5	23.2	24.4	25.1	25.1	25.8	26.5
8H	4H	21.0	21.8	21.7	22.4	23.2	22.7	23.5	23.4	24.1	24.9
	6H	21.5	22.2	22.2	22.9	23.6	23.8	24.5	24.5	25.1	25.9
	8H	21.7	22.2	22.3	22.9	23.7	24.4	25.0	25.1	25.6	26.4
	12H	21.7	22.2	22.4	22.9	23.7	25.0	25.5	25.7	26.2	27.0
12H	4H	21.1	21.8	21.8	22.5	23.2	22.7	23.4	23.4	24.1	24.8
	6H	21.7	22.2	22.3	22.9	23.7	23.9	24.4	24.5	25.1	25.9
	8H	21.8	22.4	22.5	23.0	23.8	24.4	25.0	25.1	25.6	26.4

Maximum UGR = 27.0

POLAR GRAPH



Maximum Candela = 2483.409 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)