

Day-Brite



by Signify

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FSI8110L850-UNV-DIM.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] FO43935P7.PSO

[TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY

[ISSUE DATE] 7/20/2022

[MANUFAC] DAY-BRITE CFI by SIGNIFY

[LUMCAT] FSI8110L850-UNV-DIM

[LUMINAIRE] 8' FLUXSTREAM INDUSTRIAL 4-FLS VO+TvS LV2E 850 BOARDS, 2xXI050C140V054BST1 897mA 277V, FSI DI

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11261
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
Total Luminaire Watts	80.8
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.24
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	12410	10670	10231
55	11911	9695	9279
65	11003	8423	8109
75	9205	6631	6579
85	4911	4430	4901

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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	3306.997	3306.997	3306.997	3306.997	3306.997
2.5	3256.132	3292.118	3305.835	3319.122	3334.586
5.0	3244.873	3281.451	3295.720	3308.515	3323.166
7.5	3227.132	3263.839	3278.059	3290.773	3306.147
10.0	3201.934	3238.722	3253.072	3267.432	3283.307
12.5	3169.481	3205.857	3221.261	3235.440	3252.931
15.0	3130.164	3164.995	3182.025	3196.254	3211.999
17.5	3083.973	3117.600	3135.513	3148.970	3166.280
20.0	3031.631	3063.291	3081.063	3096.808	3114.429
22.5	2971.783	3002.179	3021.656	3038.585	3053.357
25.0	2904.639	2934.704	2955.426	2971.793	2988.240
27.5	2831.384	2861.298	2881.870	2901.267	2915.979
30.0	2753.423	2781.571	2805.093	2823.045	2838.338
32.5	2669.792	2697.057	2722.756	2741.381	2752.480
35.0	2580.210	2606.642	2632.693	2651.087	2665.146
37.5	2484.999	2510.608	2536.127	2558.575	2573.095
40.0	2384.991	2410.710	2437.594	2462.791	2476.138
42.5	2279.915	2306.427	2337.887	2361.288	2375.166
45.0	2170.625	2198.983	2231.175	2256.172	2270.552
47.5	2058.494	2086.953	2119.697	2147.253	2163.871
50.0	1942.627	1971.544	2005.771	2036.528	2054.591
52.5	1823.571	1851.263	1888.446	1923.633	1943.253
55.0	1699.366	1727.290	1767.337	1809.405	1829.260
57.5	1570.436	1600.380	1644.120	1691.453	1712.081
60.0	1438.215	1469.968	1518.676	1572.403	1593.337
62.5	1303.958	1335.564	1391.053	1451.118	1471.032
65.0	1167.545	1198.881	1262.937	1327.502	1349.049
67.5	1029.114	1061.173	1133.108	1202.248	1225.551
70.0	889.530	922.745	1002.752	1076.737	1102.001
72.5	750.227	784.944	875.182	952.989	979.278
75.0	610.491	649.633	749.571	830.733	858.845
77.5	471.965	520.194	628.871	712.953	742.691
80.0	341.446	399.290	513.822	601.413	632.634
82.5	222.647	290.904	409.126	500.325	532.325
85.0	120.403	196.765	322.057	412.365	444.816
87.5	43.114	126.779	252.782	344.800	375.525
90.0	5.989	93.024	211.982	299.139	329.081
92.5	6.701	91.173	198.772	278.004	306.067
95.0	14.713	97.395	198.463	272.671	299.105
97.5	25.760	105.624	203.388	273.444	298.675
100.0	36.836	113.927	210.356	278.104	302.447
102.5	46.893	122.077	217.599	284.352	308.321
105.0	56.491	130.077	224.479	290.521	314.189
107.5	66.182	137.802	231.118	296.215	319.644
110.0	75.637	144.439	237.460	301.299	324.507
112.5	84.598	146.807	242.757	305.644	328.690
115.0	93.239	144.049	246.905	309.218	331.751
117.5	101.447	139.690	247.704	312.710	334.486
120.0	109.096	135.498	246.622	315.606	336.790
122.5	116.463	132.086	244.419	317.666	338.034
125.0	123.582	130.811	241.344	319.325	338.510
127.5	130.310	133.324	235.909	319.893	338.827
130.0	136.732	136.682	225.860	316.353	337.942
132.5	145.348	143.112	214.420	309.838	336.337

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CANDELA TABULATION - (Cont.)

135.0	158.018	152.103	202.938	299.408	334.245
137.5	171.627	163.441	192.394	282.280	328.283
140.0	185.020	176.434	183.561	262.439	315.297
142.5	198.214	189.893	178.182	242.281	299.121
145.0	210.992	203.771	179.418	223.193	283.049
147.5	223.432	217.754	183.697	206.292	267.623
150.0	235.470	230.723	190.232	193.676	253.849
152.5	247.192	242.630	199.456	187.286	244.664
155.0	258.841	253.308	212.690	186.035	239.692
157.5	269.831	263.286	228.030	188.087	235.110
160.0	279.705	272.852	244.055	196.654	232.515
162.5	288.743	282.915	259.921	208.835	233.268
165.0	297.859	292.323	273.829	222.225	218.480
167.5	305.150	300.584	286.138	236.597	186.850
170.0	310.424	308.466	297.449	250.805	160.617
172.5	316.028	315.930	308.684	263.443	155.989
175.0	320.724	321.936	317.475	274.263	160.286
177.5	322.364	325.922	323.251	281.423	163.589
180.0	295.035	295.035	295.035	295.035	295.035

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1209.99	N.A.	10.70
0-30	2570.57	N.A.	22.80
0-40	4214.84	N.A.	37.40
0-60	7511.71	N.A.	66.70
0-80	9545.65	N.A.	84.80
0-90	9893.82	N.A.	87.90
10-90	9580.88	N.A.	85.10
20-40	3004.85	N.A.	26.70
20-50	4722.55	N.A.	41.90
40-70	4545.17	N.A.	40.40
60-80	2033.94	N.A.	18.10
70-80	785.65	N.A.	7.00
80-90	348.17	N.A.	3.10
90-110	421.53	N.A.	3.70
90-120	646.96	N.A.	5.70
90-130	853.65	N.A.	7.60
90-150	1162.36	N.A.	10.30
90-180	1367.08	N.A.	12.10
110-180	945.55	N.A.	8.40
0-180	11260.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	312.95
10-20	897.05
20-30	1360.57
30-40	1644.27
40-50	1717.71
50-60	1579.17
60-70	1248.29
70-80	785.65
80-90	348.17
90-100	202.27
100-110	219.26
110-120	225.43
120-130	206.69
130-140	173.94
140-150	134.77
150-160	104.43
160-170	73.26
170-180	27.03

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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	36	29	24	35	28	23	33	27	23	31	26	22	20

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UGR TABLE - CORRECTED

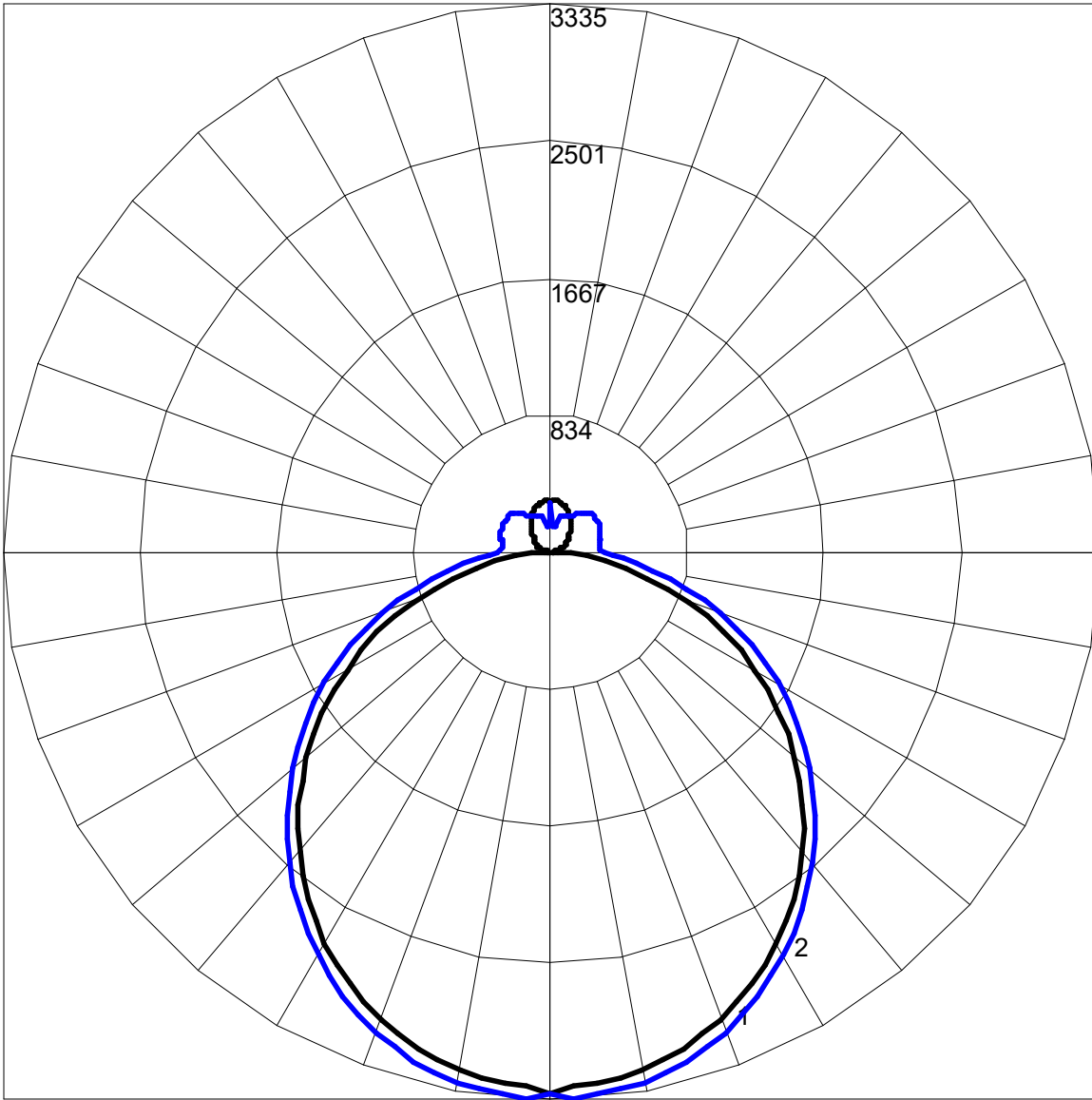
Reflectances

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	18.6	20.0	19.2	20.6	21.2	19.8	21.2	20.3	21.7	22.3
	3H	20.1	21.4	20.7	22.0	22.6	21.9	23.1	22.4	23.7	24.3
	4H	20.6	21.8	21.2	22.4	23.1	22.8	24.0	23.3	24.5	25.2
	6H	20.9	22.0	21.5	22.6	23.3	23.6	24.7	24.1	25.3	25.9
	8H	21.0	22.0	21.6	22.6	23.3	23.9	25.0	24.5	25.6	26.3
	12H	21.0	22.0	21.6	22.6	23.3	24.3	25.3	24.9	25.9	26.6
4H	2H	19.3	20.5	19.9	21.1	21.7	20.2	21.4	20.8	22.0	22.7
	3H	21.0	22.1	21.6	22.7	23.3	22.5	23.5	23.1	24.1	24.8
	4H	21.6	22.6	22.2	23.2	23.9	23.5	24.5	24.1	25.1	25.8
	6H	22.0	22.8	22.6	23.5	24.2	24.5	25.3	25.1	26.0	26.7
	8H	22.1	22.9	22.7	23.5	24.2	25.0	25.7	25.6	26.4	27.1
	12H	22.1	22.8	22.8	23.5	24.2	25.4	26.1	26.1	26.8	27.5
8H	4H	22.0	22.8	22.7	23.4	24.2	23.7	24.5	24.4	25.1	25.9
	6H	22.5	23.2	23.2	23.9	24.6	24.8	25.5	25.5	26.2	26.9
	8H	22.7	23.2	23.3	23.9	24.7	25.4	26.0	26.1	26.6	27.4
	12H	22.7	23.3	23.4	23.9	24.7	26.0	26.5	26.7	27.2	28.0
12H	4H	22.1	22.8	22.8	23.5	24.2	23.7	24.4	24.4	25.1	25.8
	6H	22.7	23.2	23.3	23.9	24.7	24.9	25.4	25.5	26.1	26.9
	8H	22.8	23.4	23.5	24.0	24.8	25.4	26.0	26.1	26.6	27.4

Maximum UGR = 28.0

POLAR GRAPH



Maximum Candela = 3334.586 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)