

Day-Brite



by Signify

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FSI880L830-UNV-DIM.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] FO43934P5.PSO
[TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY
[ISSUEDATE] 7/20/2022
[MANUFAC] DAY-BRITE CFI by SIGNIFY
[LUMCAT] FSI880L830-UNV-DIM
[LUMINAIRE] 8' FLUXSTREAM INDUSTRIAL 4-FLS VO+TvS LV2E 830 BOARDS, XI050C140V054BST1 1302mA 277V, FSI DIF

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7841
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
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	8644	7434	7122
55	8297	6752	6459
65	7663	5866	5645
75	6418	4621	4582
85	3393	3088	3445

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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	2303.334	2303.334	2303.334	2303.334	2303.334
2.5	2268.350	2293.203	2302.530	2311.343	2322.052
5.0	2260.619	2285.566	2295.518	2304.406	2314.144
7.5	2248.202	2273.008	2283.232	2291.690	2302.296
10.0	2230.501	2255.652	2265.950	2275.240	2286.537
12.5	2207.879	2232.657	2243.375	2253.720	2265.157
15.0	2180.636	2204.359	2216.067	2226.122	2236.821
17.5	2148.528	2171.393	2183.829	2193.473	2205.078
20.0	2111.865	2133.805	2145.989	2156.464	2168.760
22.5	2070.356	2091.316	2104.648	2116.066	2126.411
25.0	2023.852	2044.215	2058.555	2070.085	2080.570
27.5	1973.007	1993.146	2007.411	2020.398	2030.677
30.0	1918.362	1937.950	1953.588	1965.912	1976.667
32.5	1859.910	1878.366	1896.450	1908.606	1916.140
35.0	1797.212	1815.294	1834.306	1846.079	1855.371
37.5	1730.984	1748.983	1766.241	1782.164	1791.470
40.0	1661.562	1678.993	1697.516	1715.212	1723.659
42.5	1587.841	1605.907	1628.015	1644.146	1653.195
45.0	1511.825	1530.955	1554.374	1570.459	1580.408
47.5	1433.982	1452.182	1476.992	1495.907	1506.463
50.0	1353.515	1371.347	1397.231	1418.934	1430.184
52.5	1269.982	1287.963	1315.146	1339.841	1352.559
55.0	1183.718	1201.553	1230.872	1259.820	1273.316
57.5	1094.393	1111.869	1145.429	1177.840	1191.581
60.0	1002.413	1021.240	1057.857	1094.847	1108.418
62.5	908.501	928.197	968.968	1009.659	1023.511
65.0	813.074	833.451	879.552	922.935	939.231
67.5	716.952	737.297	789.634	835.503	853.272
70.0	620.225	641.013	698.483	748.344	766.906
72.5	523.068	546.203	609.503	662.217	681.620
75.0	425.620	452.398	522.338	577.450	598.197
77.5	331.115	361.936	437.367	495.147	517.690
80.0	238.871	278.968	358.018	417.550	440.765
82.5	154.797	202.017	287.093	349.100	371.070
85.0	83.180	136.931	224.505	289.192	312.616
87.5	29.368	88.700	176.627	240.942	263.741
90.0	3.281	65.277	148.640	209.468	230.618
92.5	4.597	63.611	138.645	194.027	213.650
95.0	10.216	67.979	138.236	189.948	208.368
97.5	17.567	73.661	141.575	190.416	208.000
100.0	25.538	79.472	146.418	193.633	210.588
102.5	32.723	85.169	151.454	197.973	214.638
105.0	39.503	90.761	156.210	202.223	218.671
107.5	46.227	96.100	160.848	206.198	222.479
110.0	52.979	100.439	165.274	209.748	225.819
112.5	59.298	101.903	168.962	212.832	228.717
115.0	65.329	99.909	171.574	215.282	230.831
117.5	70.957	96.884	171.986	217.657	232.719
120.0	76.277	94.018	171.206	219.687	234.356
122.5	81.367	91.628	169.613	221.127	235.165
125.0	86.243	90.711	167.462	222.301	235.531
127.5	90.899	92.419	163.737	222.406	235.783
130.0	95.256	94.565	156.783	219.620	235.092
132.5	101.287	99.063	148.790	214.952	234.048

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CANDELA TABULATION - (Cont.)

135.0	110.218	105.104	140.820	207.821	232.566
137.5	119.662	112.625	133.607	195.809	228.458
140.0	128.917	121.139	127.544	181.930	219.237
142.5	138.064	130.037	123.854	167.834	207.946
145.0	147.055	139.373	125.068	154.546	196.735
147.5	155.825	149.169	127.972	142.773	185.998
150.0	164.278	158.630	132.655	134.128	176.324
152.5	172.399	167.449	139.073	129.899	170.041
155.0	180.550	175.895	148.213	128.911	166.674
157.5	188.372	184.015	158.524	130.472	163.479
160.0	195.570	191.630	169.949	136.991	161.614
162.5	202.240	199.017	181.218	145.578	162.327
165.0	208.146	205.705	191.273	155.131	151.971
167.5	213.365	211.595	200.031	165.741	129.846
170.0	217.148	217.041	207.737	175.676	111.202
172.5	221.491	222.139	215.256	183.871	108.100
175.0	224.802	226.133	221.101	190.765	110.612
177.5	225.847	228.493	224.912	195.374	112.345
180.0	205.515	205.515	205.515	205.515	205.515

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	842.75	N.A.	10.70
0-30	1790.42	N.A.	22.80
0-40	2935.59	N.A.	37.40
0-60	5231.06	N.A.	66.70
0-80	6646.52	N.A.	84.80
0-90	6889.66	N.A.	87.90
10-90	6671.7	N.A.	85.10
20-40	2092.84	N.A.	26.70
20-50	3288.97	N.A.	41.90
40-70	3164.08	N.A.	40.40
60-80	1415.46	N.A.	18.10
70-80	546.85	N.A.	7.00
80-90	243.14	N.A.	3.10
90-110	293.71	N.A.	3.70
90-120	450.54	N.A.	5.70
90-130	594.20	N.A.	7.60
90-150	808.25	N.A.	10.30
90-180	951.00	N.A.	12.10
110-180	657.29	N.A.	8.40
0-180	7840.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	217.96
10-20	624.78
20-30	947.68
30-40	1145.17
40-50	1196.12
50-60	1099.35
60-70	868.60
70-80	546.85
80-90	243.14
90-100	141.03
100-110	152.68
110-120	156.82
120-130	143.67
130-140	120.71
140-150	93.34
150-160	72.61
160-170	51.25
170-180	18.89

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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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	91	91	91	88	0
1	105	100	96	92	101	97	93	89	90	87	84	84	82	79	79	77	75	72	0
2	95	87	80	74	92	84	78	72	79	73	69	73	69	65	69	65	62	59	0
3	87	76	68	61	83	74	66	60	69	63	57	65	59	55	60	56	52	50	0
4	79	67	58	52	76	65	57	51	61	54	49	57	51	47	54	49	45	42	0
5	73	60	51	44	70	58	50	43	55	47	42	51	45	40	48	43	39	36	0
6	67	54	45	38	64	52	44	38	49	42	37	46	40	35	44	38	34	32	0
7	62	49	40	34	60	47	39	33	45	37	32	42	36	31	40	34	30	28	0
8	58	44	36	30	56	43	35	30	41	34	29	39	32	28	37	31	27	25	0
9	54	41	32	27	52	40	32	27	38	31	26	36	29	25	34	28	24	22	0
10	51	37	30	24	49	36	29	24	35	28	23	33	27	23	31	26	22	20	0

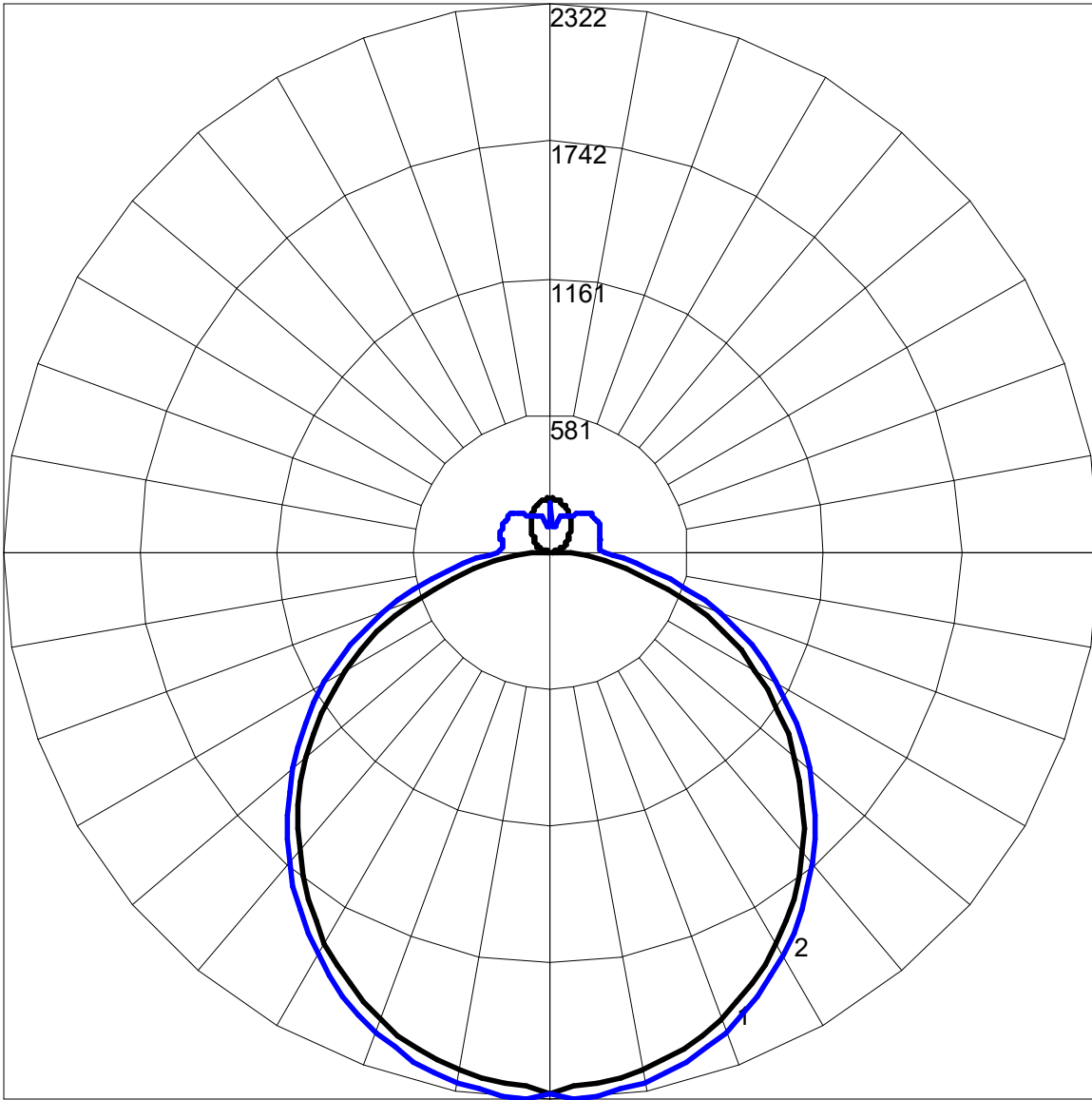
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UGR TABLE - CORRECTED

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	17.4	18.8	17.9	19.4	20.0	18.6	20.0	19.1	20.5	21.1
	3H	18.9	20.2	19.5	20.8	21.4	20.7	21.9	21.2	22.5	23.1
	4H	19.4	20.6	20.0	21.2	21.9	21.6	22.8	22.1	23.3	24.0
	6H	19.7	20.8	20.3	21.4	22.1	22.4	23.5	22.9	24.1	24.7
	8H	19.8	20.8	20.4	21.4	22.1	22.7	23.8	23.3	24.4	25.1
	12H	19.8	20.8	20.4	21.4	22.1	23.1	24.1	23.7	24.7	25.4
4H	2H	18.1	19.3	18.7	19.9	20.5	19.0	20.2	19.6	20.8	21.5
	3H	19.8	20.9	20.4	21.5	22.1	21.3	22.3	21.9	22.9	23.6
	4H	20.4	21.4	21.0	22.0	22.7	22.3	23.3	22.9	23.9	24.6
	6H	20.8	21.6	21.4	22.3	23.0	23.3	24.1	23.9	24.8	25.5
	8H	20.9	21.7	21.5	22.3	23.0	23.8	24.5	24.4	25.2	25.9
	12H	20.9	21.6	21.6	22.3	23.0	24.2	24.9	24.9	25.6	26.3
8H	4H	20.8	21.6	21.5	22.2	23.0	22.5	23.3	23.2	23.9	24.7
	6H	21.3	22.0	22.0	22.7	23.4	23.6	24.3	24.3	24.9	25.7
	8H	21.5	22.0	22.1	22.7	23.5	24.2	24.8	24.9	25.4	26.2
	12H	21.5	22.0	22.2	22.7	23.5	24.8	25.3	25.5	26.0	26.8
12H	4H	20.9	21.6	21.6	22.3	23.0	22.5	23.2	23.2	23.9	24.6
	6H	21.5	22.0	22.1	22.7	23.5	23.7	24.2	24.3	24.9	25.7
	8H	21.6	22.2	22.3	22.8	23.6	24.2	24.8	24.9	25.4	26.2

Maximum UGR = 26.8

POLAR GRAPH



Maximum Candela = 2322.052 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)