

# Day-Brite



by Signify

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FSI8110L830-UNV-DIM.IES**

## DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] FO43935P5.PSO  
[TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY  
[ISSUE DATE] 7/20/2022  
[MANUFAC] DAY-BRITE CFI by SIGNIFY  
[LUMCAT] FSI8110L830-UNV-DIM  
[LUMINAIRE] 8' FLUXSTREAM INDUSTRIAL 4-FLS VO+TvS LV2E 830 BOARDS, 2xXI050C140V054BST1 897mA 277V, FSI DI

## CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10477
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
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	11546	9927	9519
55	11081	9020	8633
65	10237	7836	7544
75	8564	6170	6121
85	4569	4122	4560

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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>
<b>0.0</b>	3076.744	3076.744	3076.744	3076.744	3076.744
<b>2.5</b>	3029.421	3062.900	3075.663	3088.024	3102.411
<b>5.0</b>	3018.945	3052.976	3066.252	3078.156	3091.787
<b>7.5</b>	3002.439	3036.591	3049.820	3061.649	3075.952
<b>10.0</b>	2978.996	3013.222	3026.573	3039.933	3054.703
<b>12.5</b>	2948.802	2982.646	2996.977	3010.169	3026.442
<b>15.0</b>	2912.223	2944.629	2960.473	2973.711	2988.360
<b>17.5</b>	2869.248	2900.534	2917.199	2929.719	2945.824
<b>20.0</b>	2820.550	2850.006	2866.541	2881.189	2897.584
<b>22.5</b>	2764.869	2793.149	2811.270	2827.020	2840.763
<b>25.0</b>	2702.400	2730.372	2749.651	2764.879	2780.181
<b>27.5</b>	2634.246	2662.077	2681.217	2699.263	2712.950
<b>30.0</b>	2561.713	2587.901	2609.785	2626.488	2640.716
<b>32.5</b>	2483.905	2509.271	2533.181	2550.509	2560.835
<b>35.0</b>	2400.560	2425.152	2449.389	2466.502	2479.582
<b>37.5</b>	2311.978	2335.804	2359.546	2380.431	2393.941
<b>40.0</b>	2218.933	2242.862	2267.874	2291.317	2303.734
<b>42.5</b>	2121.173	2145.840	2175.109	2196.881	2209.793
<b>45.0</b>	2019.492	2045.877	2075.827	2099.084	2112.463
<b>47.5</b>	1915.169	1941.647	1972.111	1997.748	2013.209
<b>50.0</b>	1807.369	1834.273	1866.117	1894.732	1911.538
<b>52.5</b>	1696.603	1722.367	1756.961	1789.698	1807.952
<b>55.0</b>	1581.046	1607.025	1644.284	1683.424	1701.896
<b>57.5</b>	1461.092	1488.952	1529.646	1573.684	1592.875
<b>60.0</b>	1338.078	1367.620	1412.936	1462.922	1482.399
<b>62.5</b>	1213.169	1242.574	1294.200	1350.083	1368.609
<b>65.0</b>	1086.254	1115.407	1175.004	1235.073	1255.120
<b>67.5</b>	957.460	987.288	1054.214	1118.540	1140.221
<b>70.0</b>	827.595	858.498	932.934	1001.768	1025.273
<b>72.5</b>	697.992	730.291	814.246	886.636	911.095
<b>75.0</b>	567.985	604.402	697.381	772.893	799.047
<b>77.5</b>	439.104	483.975	585.085	663.313	690.980
<b>80.0</b>	317.673	371.489	478.047	559.539	588.586
<b>82.5</b>	207.145	270.650	380.640	465.490	495.261
<b>85.0</b>	112.020	183.065	299.633	383.654	413.845
<b>87.5</b>	40.112	117.952	235.182	320.793	349.379
<b>90.0</b>	5.572	86.547	197.222	278.311	306.169
<b>92.5</b>	6.235	84.825	184.932	258.647	284.757
<b>95.0</b>	13.689	90.614	184.645	253.686	278.279
<b>97.5</b>	23.966	98.269	189.227	254.405	277.880
<b>100.0</b>	34.271	105.994	195.710	258.741	281.388
<b>102.5</b>	43.628	113.577	202.449	264.553	286.854
<b>105.0</b>	52.557	121.020	208.850	270.293	292.314
<b>107.5</b>	61.574	128.207	215.026	275.591	297.389
<b>110.0</b>	70.371	134.382	220.927	280.320	301.913
<b>112.5</b>	78.708	136.585	225.855	284.363	305.805
<b>115.0</b>	86.747	134.020	229.714	287.689	308.652
<b>117.5</b>	94.384	129.964	230.457	290.938	311.197
<b>120.0</b>	101.500	126.063	229.451	293.632	313.341
<b>122.5</b>	108.354	122.889	227.401	295.548	314.498
<b>125.0</b>	114.978	121.703	224.540	297.092	314.941
<b>127.5</b>	121.237	124.041	219.484	297.620	315.236
<b>130.0</b>	127.212	127.165	210.134	294.327	314.413
<b>132.5</b>	135.228	133.148	199.491	288.266	312.919

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	147.016	141.513	188.808	278.561	310.973
<b>137.5</b>	159.678	152.061	178.998	262.626	305.426
<b>140.0</b>	172.138	164.150	170.780	244.167	293.344
<b>142.5</b>	184.413	176.671	165.776	225.412	278.294
<b>145.0</b>	196.302	189.583	166.926	207.653	263.342
<b>147.5</b>	207.875	202.593	170.907	191.929	248.990
<b>150.0</b>	219.075	214.659	176.987	180.191	236.175
<b>152.5</b>	229.981	225.737	185.569	174.246	227.629
<b>155.0</b>	240.819	235.671	197.881	173.083	223.003
<b>157.5</b>	251.044	244.955	212.153	174.991	218.740
<b>160.0</b>	260.231	253.854	227.063	182.962	216.326
<b>162.5</b>	268.639	263.216	241.823	194.294	217.026
<b>165.0</b>	277.120	271.970	254.763	206.753	203.268
<b>167.5</b>	283.904	279.656	266.215	220.124	173.841
<b>170.0</b>	288.811	286.988	276.739	233.342	149.434
<b>172.5</b>	294.024	293.933	287.192	245.100	145.128
<b>175.0</b>	298.393	299.521	295.370	255.167	149.126
<b>177.5</b>	299.919	303.230	300.744	261.829	152.199
<b>180.0</b>	274.493	274.493	274.493	274.493	274.493

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1125.75	N.A.	10.70
0-30	2391.59	N.A.	22.80
0-40	3921.38	N.A.	37.40
0-60	6988.7	N.A.	66.70
0-80	8881.03	N.A.	84.80
0-90	9204.96	N.A.	87.90
10-90	8913.8	N.A.	85.10
20-40	2795.63	N.A.	26.70
20-50	4393.74	N.A.	41.90
40-70	4228.7	N.A.	40.40
60-80	1892.32	N.A.	18.10
70-80	730.95	N.A.	7.00
80-90	323.93	N.A.	3.10
90-110	392.18	N.A.	3.70
90-120	601.91	N.A.	5.70
90-130	794.21	N.A.	7.60
90-150	1081.43	N.A.	10.30
90-180	1271.9	N.A.	12.10
110-180	879.72	N.A.	8.40
0-180	10476.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	291.16
10-20	834.59
20-30	1265.84
30-40	1529.79
40-50	1598.11
50-60	1469.22
60-70	1161.38
70-80	730.95
80-90	323.93
90-100	188.18
100-110	203.99
110-120	209.73
120-130	192.30
130-140	161.83
140-150	125.39
150-160	97.16
160-170	68.16
170-180	25.15

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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	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
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

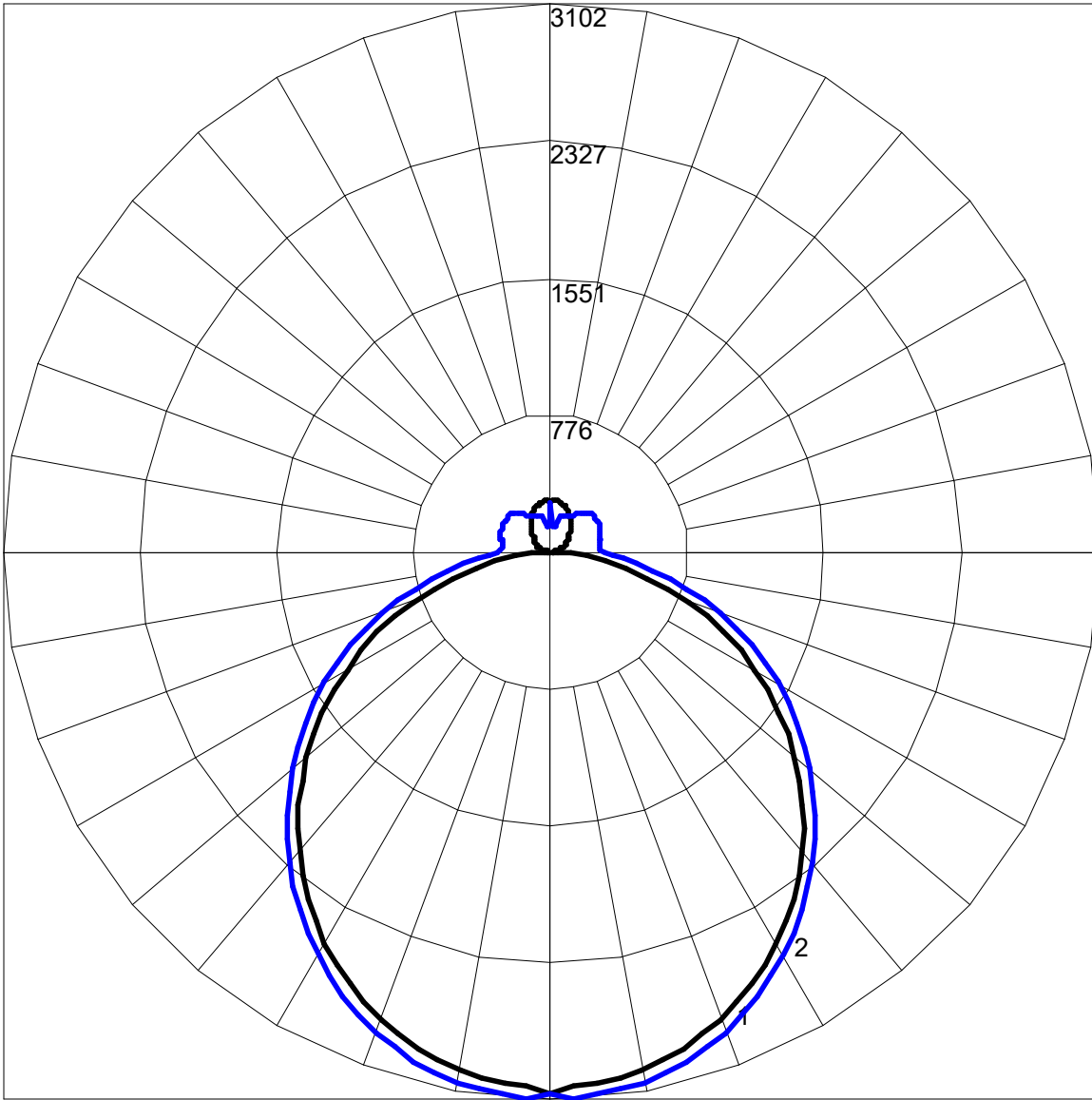
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**UGR TABLE - CORRECTED**

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	18.4	19.8	19.0	20.4	21.0	19.6	21.0	20.1	21.5	22.1
	3H	19.9	21.2	20.5	21.8	22.4	21.7	22.9	22.2	23.5	24.1
	4H	20.4	21.6	21.0	22.2	22.9	22.6	23.8	23.1	24.3	25.0
	6H	20.7	21.8	21.3	22.4	23.1	23.4	24.5	23.9	25.1	25.7
	8H	20.8	21.8	21.4	22.4	23.1	23.7	24.8	24.3	25.4	26.1
	12H	20.8	21.8	21.4	22.4	23.1	24.1	25.1	24.7	25.7	26.4
4H	2H	19.1	20.3	19.7	20.9	21.5	20.0	21.2	20.6	21.8	22.5
	3H	20.8	21.9	21.4	22.5	23.1	22.3	23.3	22.9	23.9	24.6
	4H	21.4	22.4	22.0	23.0	23.7	23.3	24.3	23.9	24.9	25.6
	6H	21.8	22.6	22.4	23.3	24.0	24.3	25.1	24.9	25.8	26.5
	8H	21.9	22.7	22.5	23.3	24.0	24.8	25.5	25.4	26.2	26.9
	12H	21.9	22.6	22.6	23.3	24.0	25.2	25.9	25.9	26.6	27.3
8H	4H	21.8	22.6	22.5	23.2	24.0	23.5	24.3	24.2	24.9	25.7
	6H	22.3	23.0	23.0	23.7	24.4	24.6	25.3	25.3	26.0	26.7
	8H	22.5	23.0	23.1	23.7	24.5	25.2	25.8	25.9	26.4	27.2
	12H	22.5	23.1	23.2	23.7	24.5	25.8	26.3	26.5	27.0	27.8
12H	4H	21.9	22.6	22.6	23.3	24.0	23.5	24.2	24.2	24.9	25.6
	6H	22.5	23.0	23.1	23.7	24.5	24.7	25.2	25.3	25.9	26.7
	8H	22.6	23.2	23.3	23.8	24.6	25.2	25.8	25.9	26.4	27.2

Maximum UGR = 27.8

POLAR GRAPH



Maximum Candela = 3102.411 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)