

Day-Brite



by Signify

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FSX440L840-UNV.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] FO38883.PSO
[TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY
[ISSUE DATE] 12/13/17
[MANUFAC] SIGNIFY DAY-BRITE - CFI
[LUMCAT] FSX440L840-UNV-DIM
[LUMINAIRE] 4' FSX FLUXSTREAM SEALED STRIP
[MORE] 2-LINEP 2.40L7 4000K BOARDS 54W DRIVER 2.61K RESISTOR
[LAMP] LED. LUMINAIRE OUTPUT = 3955 LUMENS
[TEST DATE] 12/13/17
[LM79] Absolute Photometry tested in accordance with IES procedure LM79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3955
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	32.4
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.44
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.90 ft
Luminous Width (90-270)	0.20 ft
Luminous Height	0.12 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12692	10010	9728
55	11149	9111	9073
65	9964	7762	8544
75	7669	7099	7672
85	2984	6682	7541

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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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	1038.6	1038.6	1038.6	1038.6	1038.6	1038.6	1038.6	1038.6	1038.6	1038.6
2.5	1020.5	1031.2	1039.0	1046.5	1046.3	1046.5	1039.0	1031.2	1020.5	1031.2
5.0	1016.9	1027.8	1035.8	1044.2	1043.5	1044.2	1035.8	1027.8	1016.9	1027.8
7.5	1011.0	1022.0	1030.9	1039.7	1039.4	1039.7	1030.9	1022.0	1011.0	1022.0
10.0	1002.9	1014.0	1023.8	1033.2	1034.2	1033.2	1023.8	1014.0	1002.9	1014.0
12.5	992.3	1003.5	1015.0	1025.6	1026.4	1025.6	1015.0	1003.5	992.3	1003.5
15.0	979.3	991.1	1003.6	1015.6	1016.6	1015.6	1003.6	991.1	979.3	991.1
17.5	964.4	976.1	990.2	1003.6	1005.7	1003.6	990.2	976.1	964.4	976.1
20.0	947.4	959.3	975.0	990.7	992.8	990.7	975.0	959.3	947.4	959.3
22.5	927.9	940.8	958.1	974.9	978.4	974.9	958.1	940.8	927.9	940.8
25.0	906.8	920.3	939.3	958.2	962.8	958.2	939.3	920.3	906.8	920.3
27.5	883.7	897.9	919.2	939.9	944.9	939.9	919.2	897.9	883.7	897.9
30.0	858.4	873.8	898.2	921.4	925.8	921.4	898.2	873.8	858.4	873.8
32.5	831.3	848.0	875.9	901.2	908.3	901.2	875.9	848.0	831.3	848.0
35.0	802.6	820.7	851.5	879.7	887.8	879.7	851.5	820.7	802.6	820.7
37.5	772.3	791.8	825.9	857.3	866.3	857.3	825.9	791.8	772.3	791.8
40.0	740.3	760.9	799.4	833.8	844.5	833.8	799.4	760.9	740.3	760.9
42.5	706.3	728.7	771.6	809.5	821.8	809.5	771.6	728.7	706.3	728.7
45.0	671.0	695.1	742.4	784.4	798.3	784.4	742.4	695.1	671.0	695.1
47.5	634.5	660.4	712.9	758.7	774.3	758.7	712.9	660.4	634.5	660.4
50.0	596.7	624.5	682.3	732.5	750.0	732.5	682.3	624.5	596.7	624.5
52.5	525.8	587.8	651.4	706.0	725.7	706.0	651.4	587.8	525.8	587.8
55.0	484.2	515.6	620.5	679.4	700.9	679.4	620.5	515.6	484.2	515.6
57.5	445.8	480.5	589.7	652.7	675.4	652.7	589.7	480.5	445.8	480.5
60.0	406.5	444.9	523.1	626.3	650.2	626.3	523.1	444.9	406.5	444.9
62.5	366.4	409.4	494.4	599.8	624.8	599.8	494.4	409.4	366.4	409.4
65.0	325.6	374.0	465.5	572.7	598.9	572.7	465.5	374.0	325.6	374.0
67.5	283.9	338.8	437.4	511.0	573.7	511.0	437.4	338.8	283.9	338.8
70.0	242.0	304.1	409.5	486.9	513.9	486.9	409.5	304.1	242.0	304.1
72.5	200.8	270.5	382.0	462.7	490.3	462.7	382.0	270.5	200.8	270.5
75.0	160.5	238.0	355.1	438.7	466.5	438.7	355.1	238.0	160.5	238.0
77.5	121.8	207.4	329.2	414.9	442.9	414.9	329.2	207.4	121.8	207.4
80.0	85.3	178.9	304.1	391.6	419.7	391.6	304.1	178.9	85.3	178.9
82.5	52.5	152.6	280.2	368.7	397.0	368.7	280.2	152.6	52.5	152.6
85.0	25.5	128.7	257.6	346.0	374.6	346.0	257.6	128.7	25.5	128.7
87.5	7.2	107.6	235.5	323.4	352.0	323.4	235.5	107.6	7.2	107.6
90.0	0.0	89.1	214.4	301.5	330.0	301.5	214.4	89.1	0.0	89.1
92.5	0.0	73.6	194.8	280.4	308.4	280.4	194.8	73.6	0.0	73.6
95.0	0.0	60.7	176.5	260.1	287.5	260.1	176.5	60.7	0.0	60.7
97.5	0.0	49.9	159.3	240.5	267.3	240.5	159.3	49.9	0.0	49.9
100.0	0.0	41.0	143.3	221.4	247.6	221.4	143.3	41.0	0.0	41.0
102.5	0.0	34.4	128.3	203.3	228.6	203.3	128.3	34.4	0.0	34.4
105.0	0.0	27.8	114.4	185.9	210.1	185.9	114.4	27.8	0.0	27.8
107.5	0.0	22.7	101.6	169.4	192.2	169.4	101.6	22.7	0.0	22.7
110.0	0.0	19.1	89.9	153.6	175.1	153.6	89.9	19.1	0.0	19.1
112.5	0.0	16.2	79.3	138.7	158.8	138.7	79.3	16.2	0.0	16.2
115.0	0.0	13.3	69.7	124.5	143.5	124.5	69.7	13.3	0.0	13.3
117.5	0.0	10.8	60.6	111.3	129.0	111.3	60.6	10.8	0.0	10.8
120.0	0.0	8.5	52.6	98.8	115.2	98.8	52.6	8.5	0.0	8.5
122.5	0.0	6.5	44.6	87.5	102.6	87.5	44.6	6.5	0.0	6.5
125.0	0.0	4.6	37.9	77.1	90.8	77.1	37.9	4.6	0.0	4.6
127.5	0.0	3.5	32.2	67.4	80.0	67.4	32.2	3.5	0.0	3.5
130.0	0.0	2.9	27.2	58.3	69.9	58.3	27.2	2.9	0.0	2.9
132.5	0.0	2.3	22.5	50.2	60.8	50.2	22.5	2.3	0.0	2.3

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135.0	0.0	1.8	18.1	42.8	52.3	42.8	18.1	1.8	0.0	1.8
137.5	0.0	1.4	15.3	35.5	44.7	35.5	15.3	1.4	0.0	1.4
140.0	0.0	1.1	12.0	28.7	37.8	28.7	12.0	1.1	0.0	1.1
142.5	0.0	0.8	7.8	23.3	31.4	23.3	7.8	0.8	0.0	0.8
145.0	0.0	0.7	6.1	18.6	25.6	18.6	6.1	0.7	0.0	0.7
147.5	0.0	0.5	5.0	13.5	20.5	13.5	5.0	0.5	0.0	0.5
150.0	0.0	0.4	3.8	8.9	15.0	8.9	3.8	0.4	0.0	0.4
152.5	0.0	0.3	2.9	6.5	10.4	6.5	2.9	0.3	0.0	0.3
155.0	0.0	0.2	2.2	4.7	7.7	4.7	2.2	0.2	0.0	0.2
157.5	0.0	0.1	1.6	3.2	5.7	3.2	1.6	0.1	0.0	0.1
160.0	0.0	0.1	1.2	2.1	3.9	2.1	1.2	0.1	0.0	0.1
162.5	0.0	0.1	0.8	1.4	2.6	1.4	0.8	0.1	0.0	0.1
165.0	0.0	0.1	0.5	0.8	1.5	0.8	0.5	0.1	0.0	0.1
167.5	0.0	0.1	0.3	0.4	0.8	0.4	0.3	0.1	0.0	0.1
170.0	0.1	0.0	0.1	0.1	0.3	0.1	0.1	0.0	0.1	0.0
172.5	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1
175.0	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1
177.5	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	1038.6	1038.6	1038.6	1038.6	1038.6	1038.6	1038.6
2.5	1039.0	1046.5	1046.3	1046.5	1039.0	1031.2	1020.5
5.0	1035.8	1044.2	1043.5	1044.2	1035.8	1027.8	1016.9
7.5	1030.9	1039.7	1039.4	1039.7	1030.9	1022.0	1011.0
10.0	1023.8	1033.2	1034.2	1033.2	1023.8	1014.0	1002.9
12.5	1015.0	1025.6	1026.4	1025.6	1015.0	1003.5	992.3
15.0	1003.6	1015.6	1016.6	1015.6	1003.6	991.1	979.3
17.5	990.2	1003.6	1005.7	1003.6	990.2	976.1	964.4
20.0	975.0	990.7	992.8	990.7	975.0	959.3	947.4
22.5	958.1	974.9	978.4	974.9	958.1	940.8	927.9
25.0	939.3	958.2	962.8	958.2	939.3	920.3	906.8
27.5	919.2	939.9	944.9	939.9	919.2	897.9	883.7
30.0	898.2	921.4	925.8	921.4	898.2	873.8	858.4
32.5	875.9	901.2	908.3	901.2	875.9	848.0	831.3
35.0	851.5	879.7	887.8	879.7	851.5	820.7	802.6
37.5	825.9	857.3	866.3	857.3	825.9	791.8	772.3
40.0	799.4	833.8	844.5	833.8	799.4	760.9	740.3
42.5	771.6	809.5	821.8	809.5	771.6	728.7	706.3
45.0	742.4	784.4	798.3	784.4	742.4	695.1	671.0
47.5	712.9	758.7	774.3	758.7	712.9	660.4	634.5
50.0	682.3	732.5	750.0	732.5	682.3	624.5	596.7
52.5	651.4	706.0	725.7	706.0	651.4	587.8	525.8
55.0	620.5	679.4	700.9	679.4	620.5	515.6	484.2
57.5	589.7	652.7	675.4	652.7	589.7	480.5	445.8
60.0	523.1	626.3	650.2	626.3	523.1	444.9	406.5
62.5	494.4	599.8	624.8	599.8	494.4	409.4	366.4
65.0	465.5	572.7	598.9	572.7	465.5	374.0	325.6
67.5	437.4	511.0	573.7	511.0	437.4	338.8	283.9
70.0	409.5	486.9	513.9	486.9	409.5	304.1	242.0
72.5	382.0	462.7	490.3	462.7	382.0	270.5	200.8
75.0	355.1	438.7	466.5	438.7	355.1	238.0	160.5
77.5	329.2	414.9	442.9	414.9	329.2	207.4	121.8
80.0	304.1	391.6	419.7	391.6	304.1	178.9	85.3

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82.5	280.2	368.7	397.0	368.7	280.2	152.6	52.5
85.0	257.6	346.0	374.6	346.0	257.6	128.7	25.5
87.5	235.5	323.4	352.0	323.4	235.5	107.6	7.2
90.0	214.4	301.5	330.0	301.5	214.4	89.1	0.0
92.5	194.8	280.4	308.4	280.4	194.8	73.6	0.0
95.0	176.5	260.1	287.5	260.1	176.5	60.7	0.0
97.5	159.3	240.5	267.3	240.5	159.3	49.9	0.0
100.0	143.3	221.4	247.6	221.4	143.3	41.0	0.0
102.5	128.3	203.3	228.6	203.3	128.3	34.4	0.0
105.0	114.4	185.9	210.1	185.9	114.4	27.8	0.0
107.5	101.6	169.4	192.2	169.4	101.6	22.7	0.0
110.0	89.9	153.6	175.1	153.6	89.9	19.1	0.0
112.5	79.3	138.7	158.8	138.7	79.3	16.2	0.0
115.0	69.7	124.5	143.5	124.5	69.7	13.3	0.0
117.5	60.6	111.3	129.0	111.3	60.6	10.8	0.0
120.0	52.6	98.8	115.2	98.8	52.6	8.5	0.0
122.5	44.6	87.5	102.6	87.5	44.6	6.5	0.0
125.0	37.9	77.1	90.8	77.1	37.9	4.6	0.0
127.5	32.2	67.4	80.0	67.4	32.2	3.5	0.0
130.0	27.2	58.3	69.9	58.3	27.2	2.9	0.0
132.5	22.5	50.2	60.8	50.2	22.5	2.3	0.0
135.0	18.1	42.8	52.3	42.8	18.1	1.8	0.0
137.5	15.3	35.5	44.7	35.5	15.3	1.4	0.0
140.0	12.0	28.7	37.8	28.7	12.0	1.1	0.0
142.5	7.8	23.3	31.4	23.3	7.8	0.8	0.0
145.0	6.1	18.6	25.6	18.6	6.1	0.7	0.0
147.5	5.0	13.5	20.5	13.5	5.0	0.5	0.0
150.0	3.8	8.9	15.0	8.9	3.8	0.4	0.0
152.5	2.9	6.5	10.4	6.5	2.9	0.3	0.0
155.0	2.2	4.7	7.7	4.7	2.2	0.2	0.0
157.5	1.6	3.2	5.7	3.2	1.6	0.1	0.0
160.0	1.2	2.1	3.9	2.1	1.2	0.1	0.0
162.5	0.8	1.4	2.6	1.4	0.8	0.1	0.0
165.0	0.5	0.8	1.5	0.8	0.5	0.1	0.0
167.5	0.3	0.4	0.8	0.4	0.3	0.1	0.0
170.0	0.1	0.1	0.3	0.1	0.1	0.0	0.1
172.5	0.1	0.0	0.0	0.0	0.1	0.1	0.1
175.0	0.1	0.0	0.0	0.0	0.1	0.1	0.1
177.5	0.0	0.0	0.0	0.0	0.0	0.1	0.1
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	381.28	N.A.	9.60
0-30	813.91	N.A.	20.60
0-40	1345.57	N.A.	34.00
0-60	2457.81	N.A.	62.10
0-80	3274.64	N.A.	82.80
0-90	3530.46	N.A.	89.30
10-90	3432.09	N.A.	86.80
20-40	964.29	N.A.	24.40
20-50	1534.98	N.A.	38.80
40-70	1572.94	N.A.	39.80
60-80	816.83	N.A.	20.70
70-80	356.12	N.A.	9.00
80-90	255.82	N.A.	6.50
90-110	291.24	N.A.	7.40
90-120	361.17	N.A.	9.10
90-130	398.86	N.A.	10.10
90-150	422.72	N.A.	10.70
90-180	424.31	N.A.	10.70
110-180	133.07	N.A.	3.40
0-180	3954.77	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	98.36
10-20	282.92
20-30	432.63
30-40	531.66
40-50	570.69
50-60	541.54
60-70	460.71
70-80	356.12
80-90	255.82
90-100	175.82
100-110	115.42
110-120	69.93
120-130	37.68
130-140	17.63
140-150	6.23
150-160	1.40
160-170	0.19
170-180	0.01

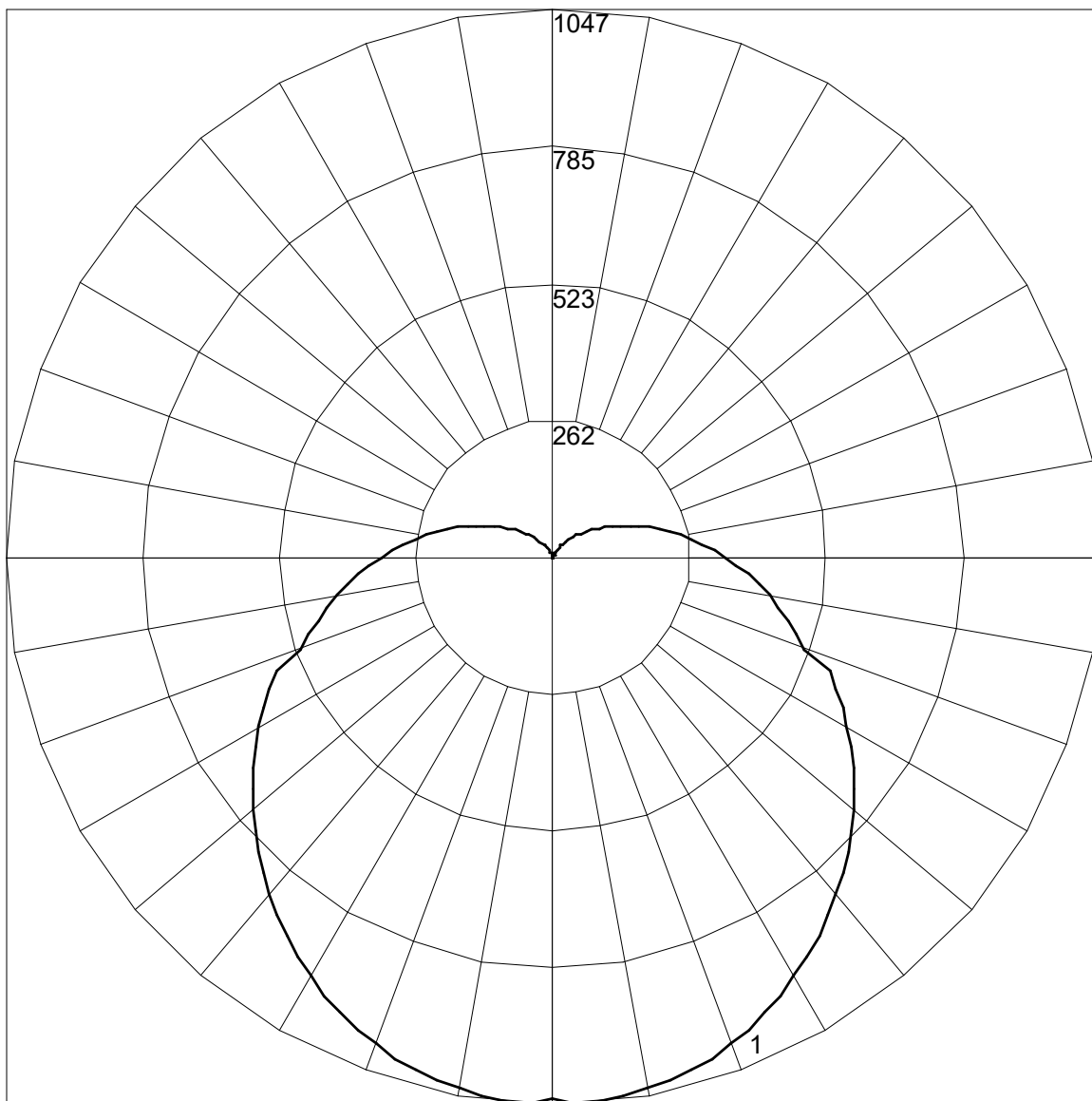
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	113	113	113	105	105	105	98	98	98	92	92	92	89
1	104	98	93	88	100	95	90	86	88	85	81	83	80	77	77	75	73	70
2	94	84	77	70	90	82	75	69	76	70	65	71	66	62	67	63	59	56
3	85	73	65	58	81	71	63	56	66	60	54	62	56	52	58	53	49	47
4	77	65	55	48	74	63	54	47	59	51	45	55	49	44	52	46	42	39
5	71	58	48	41	68	56	47	40	52	45	39	49	43	38	46	41	36	34
6	65	52	42	36	63	50	41	35	47	40	34	44	38	33	42	36	32	29
7	61	47	38	31	58	45	37	31	43	35	30	40	34	29	38	32	28	26
8	56	42	34	28	54	41	33	27	39	32	26	37	30	26	35	29	25	23
9	53	39	30	25	51	38	30	24	36	29	24	34	28	23	32	27	22	20
10	49	36	28	22	47	35	27	22	33	26	21	31	25	21	30	24	20	18

POLAR GRAPH



Maximum Candela = 1046.5 Located At Horizontal Angle = 67.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270)