

Day-Brite



by Signify

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 2EVG74LH840-4-D-UNV-DIM.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] FO34171.PSO
[TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY
[ISSUE DATE] 2/11/15
[MANUFAC] DAY-BRITE / CFI
[LUMCAT] 2EVG74LH840-4-D-UNV-DIM
[LUMINAIRE] 2X4 EvoGrid 4-LP 3.2.1 4000K BOARDS 75W DRIVER 14K RESISTOR
[LAMP] LED. LUMINAIRE OUTPUT = 7559 LMS
[TEST DATE] 2/11/15

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7559
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	62.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	2.00 ft
Luminous Height	0.00 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3011	3141	3256
55	2736	2995	3289
65	2456	3044	3515
75	2191	3224	3788
85	1888	2903	3069

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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	2761.3	2761.3	2761.3	2761.3	2761.3	2761.3	2761.3	2761.3	2761.3	2761.3
2.5	2750.5	2753.8	2757.8	2763.6	2767.7	2763.6	2757.8	2753.8	2750.5	2753.8
5.0	2738.4	2742.8	2744.9	2756.3	2756.1	2756.3	2744.9	2742.8	2738.4	2742.8
7.5	2718.1	2724.2	2726.4	2741.4	2739.8	2741.4	2726.4	2724.2	2718.1	2724.2
10.0	2688.9	2698.5	2702.1	2714.7	2718.3	2714.7	2702.1	2698.5	2688.9	2698.5
12.5	2651.6	2664.3	2668.3	2680.9	2682.8	2680.9	2668.3	2664.3	2651.6	2664.3
15.0	2606.5	2621.3	2626.1	2637.4	2639.9	2637.4	2626.1	2621.3	2606.5	2621.3
17.5	2553.6	2571.2	2576.1	2585.4	2588.2	2585.4	2576.1	2571.2	2553.6	2571.2
20.0	2493.2	2511.8	2516.2	2529.0	2530.4	2529.0	2516.2	2511.8	2493.2	2511.8
22.5	2425.5	2443.6	2449.4	2462.7	2466.4	2462.7	2449.4	2443.6	2425.5	2443.6
25.0	2350.1	2368.2	2375.6	2391.9	2393.6	2391.9	2375.6	2368.2	2350.1	2368.2
27.5	2267.9	2286.9	2297.1	2316.4	2316.2	2316.4	2297.1	2286.9	2267.9	2286.9
30.0	2180.9	2199.1	2217.2	2233.3	2232.7	2233.3	2217.2	2199.1	2180.9	2199.1
32.5	2089.8	2108.0	2130.5	2146.9	2149.2	2146.9	2130.5	2108.0	2089.8	2108.0
35.0	1993.9	2013.4	2035.2	2055.5	2065.8	2055.5	2035.2	2013.4	1993.9	2013.4
37.5	1894.3	1915.2	1936.3	1967.3	1977.1	1967.3	1936.3	1915.2	1894.3	1915.2
40.0	1792.0	1813.4	1840.6	1880.5	1887.7	1880.5	1840.6	1813.4	1792.0	1813.4
42.5	1689.0	1711.2	1747.4	1788.3	1798.3	1788.3	1747.4	1711.2	1689.0	1711.2
45.0	1584.1	1609.4	1652.1	1694.8	1712.8	1694.8	1652.1	1609.4	1584.1	1609.4
47.5	1478.7	1505.9	1556.0	1607.4	1631.2	1607.4	1556.0	1505.9	1478.7	1505.9
50.0	1374.4	1400.4	1460.2	1525.9	1553.5	1525.9	1460.2	1400.4	1374.4	1400.4
52.5	1270.7	1296.7	1367.0	1446.2	1477.7	1446.2	1367.0	1296.7	1270.7	1296.7
55.0	1167.5	1198.5	1277.8	1366.8	1403.2	1366.8	1277.8	1198.5	1167.5	1198.5
57.5	1065.4	1103.0	1193.4	1292.8	1330.1	1292.8	1193.4	1103.0	1065.4	1103.0
60.0	965.6	1006.9	1113.3	1220.4	1259.8	1220.4	1113.3	1006.9	965.6	1006.9
62.5	867.6	912.8	1035.7	1146.8	1185.0	1146.8	1035.7	912.8	867.6	912.8
65.0	772.3	822.6	957.1	1067.0	1105.0	1067.0	957.1	822.6	772.3	822.6
67.5	679.8	736.8	876.8	980.6	1017.9	980.6	876.8	736.8	679.8	736.8
70.0	590.8	654.6	796.2	892.6	930.3	892.6	796.2	654.6	590.8	654.6
72.5	504.3	576.7	711.8	802.8	836.1	802.8	711.8	576.7	504.3	576.7
75.0	421.8	502.7	620.7	701.9	729.3	701.9	620.7	502.7	421.8	502.7
77.5	341.2	426.6	523.0	585.8	605.8	585.8	523.0	426.6	341.2	426.6
80.0	263.8	342.0	417.1	457.6	470.5	457.6	417.1	342.0	263.8	342.0
82.5	190.6	253.3	302.8	327.9	338.8	327.9	302.8	253.3	190.6	253.3
85.0	122.4	163.0	188.2	196.3	199.0	196.3	188.2	163.0	122.4	163.0
87.5	57.0	72.7	73.2	81.3	93.5	81.3	73.2	72.7	57.0	72.7
90.0	3.7	6.2	5.8	9.3	17.6	9.3	5.8	6.2	3.7	6.2
92.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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135.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	2761.3	2761.3	2761.3	2761.3	2761.3	2761.3	2761.3
2.5	2757.8	2763.6	2767.7	2763.6	2757.8	2753.8	2750.5
5.0	2744.9	2756.3	2756.1	2756.3	2744.9	2742.8	2738.4
7.5	2726.4	2741.4	2739.8	2741.4	2726.4	2724.2	2718.1
10.0	2702.1	2714.7	2718.3	2714.7	2702.1	2698.5	2688.9
12.5	2668.3	2680.9	2682.8	2680.9	2668.3	2664.3	2651.6
15.0	2626.1	2637.4	2639.9	2637.4	2626.1	2621.3	2606.5
17.5	2576.1	2585.4	2588.2	2585.4	2576.1	2571.2	2553.6
20.0	2516.2	2529.0	2530.4	2529.0	2516.2	2511.8	2493.2
22.5	2449.4	2462.7	2466.4	2462.7	2449.4	2443.6	2425.5
25.0	2375.6	2391.9	2393.6	2391.9	2375.6	2368.2	2350.1
27.5	2297.1	2316.4	2316.2	2316.4	2297.1	2286.9	2267.9
30.0	2217.2	2233.3	2232.7	2233.3	2217.2	2199.1	2180.9
32.5	2130.5	2146.9	2149.2	2146.9	2130.5	2108.0	2089.8
35.0	2035.2	2055.5	2065.8	2055.5	2035.2	2013.4	1993.9
37.5	1936.3	1967.3	1977.1	1967.3	1936.3	1915.2	1894.3
40.0	1840.6	1880.5	1887.7	1880.5	1840.6	1813.4	1792.0
42.5	1747.4	1788.3	1798.3	1788.3	1747.4	1711.2	1689.0
45.0	1652.1	1694.8	1712.8	1694.8	1652.1	1609.4	1584.1
47.5	1556.0	1607.4	1631.2	1607.4	1556.0	1505.9	1478.7
50.0	1460.2	1525.9	1553.5	1525.9	1460.2	1400.4	1374.4
52.5	1367.0	1446.2	1477.7	1446.2	1367.0	1296.7	1270.7
55.0	1277.8	1366.8	1403.2	1366.8	1277.8	1198.5	1167.5
57.5	1193.4	1292.8	1330.1	1292.8	1193.4	1103.0	1065.4
60.0	1113.3	1220.4	1259.8	1220.4	1113.3	1006.9	965.6
62.5	1035.7	1146.8	1185.0	1146.8	1035.7	912.8	867.6
65.0	957.1	1067.0	1105.0	1067.0	957.1	822.6	772.3
67.5	876.8	980.6	1017.9	980.6	876.8	736.8	679.8
70.0	796.2	892.6	930.3	892.6	796.2	654.6	590.8
72.5	711.8	802.8	836.1	802.8	711.8	576.7	504.3
75.0	620.7	701.9	729.3	701.9	620.7	502.7	421.8
77.5	523.0	585.8	605.8	585.8	523.0	426.6	341.2
80.0	417.1	457.6	470.5	457.6	417.1	342.0	263.8

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CANDELA TABULATION - (Cont.)

82.5	302.8	327.9	338.8	327.9	302.8	253.3	190.6
85.0	188.2	196.3	199.0	196.3	188.2	163.0	122.4
87.5	73.2	81.3	93.5	81.3	73.2	72.7	57.0
90.0	5.8	9.3	17.6	9.3	5.8	6.2	3.7
92.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	1001.19	N.A.	13.20
0-30	2095.35	N.A.	27.70
0-40	3367.17	N.A.	44.50
0-60	5791.89	N.A.	76.60
0-80	7355.99	N.A.	97.30
0-90	7557.8	N.A.	100.00
10-90	7296.86	N.A.	96.50
20-40	2365.97	N.A.	31.30
20-50	3641.32	N.A.	48.20
40-70	3361.15	N.A.	44.50
60-80	1564.1	N.A.	20.70
70-80	627.68	N.A.	8.30
80-90	201.81	N.A.	2.70
90-110	1.09	N.A.	0.00
90-120	1.09	N.A.	0.00
90-130	1.09	N.A.	0.00
90-150	1.09	N.A.	0.00
90-180	1.09	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	7558.89	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	260.94
10-20	740.26
20-30	1094.16
30-40	1271.81
40-50	1275.35
50-60	1149.38
60-70	936.42
70-80	627.68
80-90	201.81
90-100	1.09
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

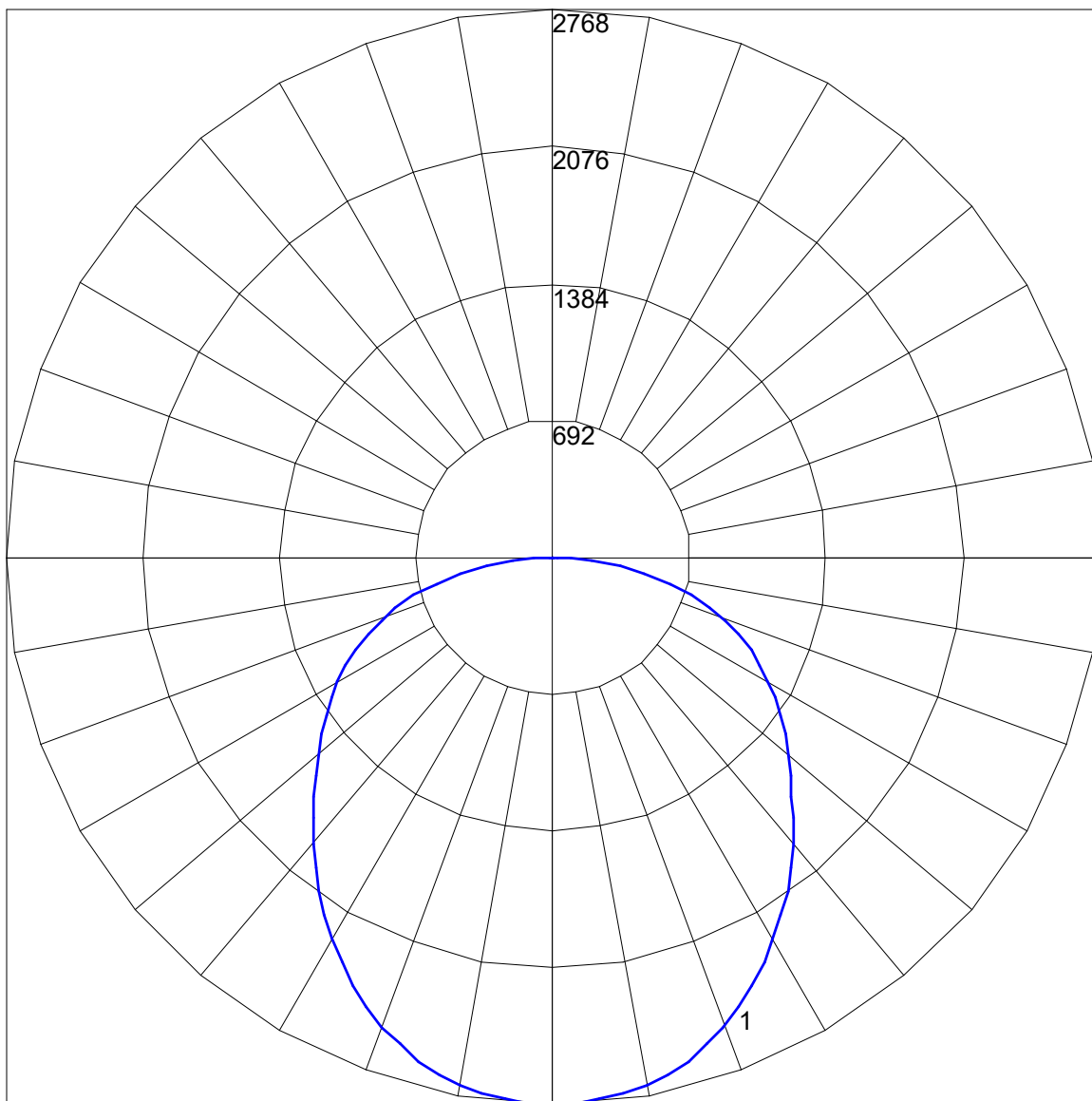
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 2767.7 Located At Horizontal Angle = 90, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)