



IES INDOOR REPORT
PHOTOMETRIC FILENAME : ONE L.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 8,001
 [TESTLAB] CSA Group
 [ISSUEDATE] 5/8/2015 7:32:15 AM
 [MANUFAC] 3 form
 [LUMINAIRE] One L
 [_AMBIENT] 25.1 deg C
 [_POWERFACTOR] 0.9748
 [_ATHD] 11.49%
 [_CURRENT] 0.99
 [_VOLTAGE] 120.26
 [_STABILIZATION] 42:53.9 Stable
 [_POWER VARIATION] 0.47 %
 [_LIGHT VARIATION] 0.44 %
 [_Lumens] 9,309.79

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9312
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	116.06
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Point
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0.0	2971.45	2971.45	2971.45	2971.45	2971.45	2971.45	2971.45	2971.45	2971.45	2971.45
2.5	2963.44	2963.45	2956.74	2965.42	2962.11	2959.82	2962.89	2967.89	2963.80	2962.31
5.0	2947.83	2943.53	2944.41	2945.18	2950.48	2947.44	2946.88	2947.33	2958.23	2957.51
7.5	2925.86	2916.30	2925.15	2920.61	2921.28	2931.45	2933.10	2932.63	2930.15	2937.91
10.0	2888.22	2893.78	2888.93	2898.07	2896.26	2894.52	2899.84	2906.38	2906.24	2905.56
12.5	2855.73	2852.89	2856.31	2856.34	2863.00	2863.22	2863.29	2865.75	2876.99	2879.14
15.0	2807.73	2803.47	2813.84	2810.46	2812.58	2824.14	2827.38	2830.46	2830.75	2838.26
17.5	2760.84	2760.26	2756.34	2767.65	2768.74	2767.31	2773.49	2781.17	2784.69	2785.93
20.0	2696.89	2700.90	2705.26	2705.09	2715.89	2716.38	2719.58	2721.70	2736.68	2740.93
22.5	2640.15	2634.70	2644.17	2643.34	2645.99	2657.51	2665.02	2660.20	2670.31	2677.59
25.0	2562.20	2573.60	2568.09	2579.47	2583.81	2584.97	2593.69	2599.13	2606.10	2610.28
27.5	2494.59	2492.36	2498.36	2500.20	2511.22	2515.67	2519.84	2533.86	2538.45	2546.51
30.0	2412.22	2412.03	2420.77	2422.95	2426.92	2441.33	2447.15	2449.76	2455.79	2467.86
32.5	2322.74	2335.40	2332.04	2345.57	2350.35	2352.88	2361.81	2371.59	2379.54	2383.45
35.0	2241.13	2242.14	2251.24	2251.68	2263.08	2269.19	2274.88	2285.32	2296.27	2305.28
37.5	2150.07	2149.81	2158.72	2163.70	2165.53	2179.29	2188.85	2190.51	2201.75	2210.23
40.0	2048.67	2059.09	2057.49	2073.14	2076.64	2079.77	2087.61	2100.33	2109.74	2116.26
42.5	1954.66	1958.00	1965.75	1967.64	1976.53	1987.60	1993.38	2007.54	2015.55	2026.09
45.0	1850.21	1854.98	1863.44	1866.10	1872.67	1886.28	1895.73	1902.60	1909.61	1921.44
47.5	1743.40	1755.66	1754.02	1766.73	1772.96	1779.83	1792.07	1801.65	1810.84	1819.03
50.0	1642.85	1642.66	1652.80	1656.48	1669.07	1677.11	1688.29	1696.63	1705.90	1718.54
52.5	1531.74	1536.91	1543.16	1549.01	1560.87	1568.34	1578.84	1585.26	1593.23	1606.70
55.0	1419.18	1430.46	1433.10	1442.00	1450.28	1454.13	1467.29	1479.49	1488.91	1496.30
57.5	1312.79	1315.14	1324.97	1327.61	1336.35	1347.47	1356.85	1370.93	1378.06	1389.51
60.0	1200.37	1204.69	1212.36	1218.43	1224.53	1236.43	1246.56	1253.08	1264.60	1274.05
62.5	1084.41	1096.29	1097.23	1108.44	1116.21	1122.00	1130.52	1141.14	1154.75	1162.85
65.0	975.73	978.05	987.51	991.84	1003.23	1014.14	1021.45	1029.35	1043.33	1054.38
67.5	860.21	866.70	873.62	878.47	885.42	898.70	909.17	916.09	927.10	937.04
70.0	747.99	756.40	758.26	766.65	775.49	785.10	794.99	807.94	815.52	829.35
72.5	639.19	640.16	649.60	653.94	663.83	675.45	683.29	695.66	704.21	714.41
75.0	510.21	528.15	536.60	534.89	553.66	565.89	570.02	583.20	591.37	602.57
77.5	418.11	424.08	429.44	435.57	444.20	452.80	461.43	472.06	479.19	492.68
80.0	312.83	316.89	324.55	330.00	337.63	347.99	356.99	365.54	376.83	386.37
82.5	212.18	216.71	220.83	232.03	236.27	242.48	253.29	261.87	270.54	277.80
85.0	116.59	127.59	126.64	134.77	141.20	147.27	155.33	167.20	174.68	183.60
87.5	58.58	88.90	61.83	65.11	69.58	74.85	77.65	83.31	90.71	98.70
90.0	50.83	50.90	51.53	51.77	53.77	53.57	54.30	54.54	53.67	55.63
92.5	59.05	59.05	59.11	59.10	59.05	59.18	58.58	58.80	57.92	57.06
95.0	68.32	68.13	67.60	67.17	66.98	66.69	66.43	67.06	66.03	64.57
97.5	78.09	77.87	77.16	77.00	75.76	75.47	75.29	76.06	76.25	74.90
100.0	90.62	88.49	87.47	84.74	84.56	84.79	83.55	82.94	83.41	82.16
102.5	99.54	98.30	97.90	95.63	94.09	92.46	93.68	94.18	95.84	93.61
105.0	110.55	110.75	108.03	106.14	103.44	101.08	101.85	101.94	102.14	99.53
107.5	118.28	118.08	116.91	114.44	114.85	108.95	108.92	108.35	108.36	108.37
110.0	127.45	126.59	125.79	123.81	123.28	120.01	115.42	113.42	113.32	112.19
112.5	134.22	133.35	133.20	133.01	131.68	128.61	123.89	121.63	120.04	118.19
115.0	140.94	140.49	139.13	137.50	137.21	134.95	129.98	127.20	124.99	124.61
117.5	145.87	145.67	144.40	142.62	142.00	139.98	134.21	133.55	132.46	129.54
120.0	150.18	150.65	149.35	147.06	146.81	144.82	139.43	137.37	135.74	135.22
122.5	156.20	157.09	154.93	153.08	151.41	146.81	142.67	143.29	140.85	138.75
125.0	161.44	161.72	160.26	157.86	155.53	151.53	147.42	146.54	145.98	146.43
127.5	165.64	165.89	163.24	161.05	157.15	153.74	151.68	150.00	149.63	149.53
130.0	169.77	170.45	167.07	164.40	159.78	157.02	155.99	155.14	154.14	153.92
132.5	173.57	173.10	168.96	164.04	161.36	159.97	158.63	159.11	157.83	158.19

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135.0	177.99	176.28	170.83	168.14	166.11	165.01	162.86	163.16	163.69	164.60
137.5	185.77	183.22	178.29	175.25	173.91	173.29	171.06	171.10	169.75	171.96
140.0	192.03	189.41	185.92	183.51	182.69	181.48	181.23	182.09	180.59	180.83
142.5	198.63	195.78	192.53	189.96	190.84	189.77	189.84	190.44	189.62	190.88
145.0	202.83	200.30	195.97	193.98	194.13	194.29	196.16	196.95	195.51	198.02
147.5	206.38	202.17	198.84	197.77	199.00	199.72	200.77	199.71	199.22	201.70
150.0	209.56	205.73	202.11	201.81	203.17	204.29	203.89	204.53	202.97	207.65
152.5	211.70	207.46	204.64	204.84	206.38	207.48	207.98	206.95	206.42	210.02
155.0	213.11	208.97	206.51	208.37	210.39	211.27	210.79	210.19	209.71	213.52
157.5	215.35	211.38	209.85	211.81	214.56	213.70	213.77	213.46	212.07	217.16
160.0	215.98	212.24	212.29	214.60	216.82	216.63	216.58	215.66	215.33	219.30
162.5	217.30	214.22	214.79	217.99	219.22	219.33	218.30	218.14	217.18	222.56
165.0	218.60	215.45	217.49	220.22	221.73	220.74	220.84	220.10	219.68	225.13
167.5	219.25	216.47	219.36	223.03	223.27	223.09	222.76	221.87	221.72	226.85
170.0	220.65	218.80	221.63	225.11	225.11	224.89	224.40	224.25	223.21	229.33
172.5	220.75	219.75	223.74	226.08	226.71	226.13	226.47	225.12	225.57	229.81
175.0	220.64	221.49	225.35	228.12	227.83	228.51	227.14	226.94	226.88	230.89
177.5	221.77	223.70	227.90	229.25	229.92	228.99	229.28	228.71	228.41	232.52
180.0	227.76	227.76	227.76	227.76	227.76	227.76	227.76	227.76	227.76	227.76

**Vert.
Angles**

Horizontal Angles

	<u>100</u>	<u>110</u>	<u>120</u>	<u>130</u>	<u>140</u>	<u>150</u>	<u>160</u>	<u>170</u>	<u>180</u>	<u>190</u>
0.0	2971.45	2971.45	2971.45	2971.45	2971.45	2971.45	2971.45	2971.45	2971.45	2971.45
2.5	2969.91	2970.72	2966.48	2967.04	2968.23	2975.71	2972.63	2968.91	2969.25	2972.13
5.0	2959.87	2960.80	2964.70	2966.16	2966.18	2959.35	2960.75	2966.04	2970.23	2968.91
7.5	2934.30	2935.70	2941.65	2945.55	2944.18	2950.05	2951.95	2950.97	2949.46	2947.86
10.0	2916.13	2918.01	2916.68	2918.36	2920.65	2927.26	2923.89	2920.97	2931.44	2934.31
12.5	2883.13	2886.80	2891.86	2893.75	2895.99	2889.86	2892.96	2897.14	2911.05	2906.66
15.0	2837.12	2841.02	2846.51	2852.15	2853.24	2858.11	2862.02	2859.62	2868.64	2866.08
17.5	2798.57	2801.92	2801.38	2804.82	2808.23	2813.49	2812.03	2808.25	2830.61	2830.74
20.0	2744.33	2750.62	2756.10	2760.08	2762.96	2757.24	2761.30	2765.89	2786.66	2781.53
22.5	2679.91	2687.40	2693.53	2698.19	2699.27	2703.49	2711.13	2707.75	2725.35	2721.64
25.0	2623.73	2629.81	2630.65	2632.31	2637.58	2647.09	2641.17	2640.43	2667.86	2668.26
27.5	2550.47	2557.40	2565.42	2572.63	2574.35	2570.26	2572.48	2578.52	2604.03	2599.45
30.0	2470.49	2469.21	2484.48	2490.88	2493.06	2499.08	2503.22	2502.85	2524.57	2522.30
32.5	2396.93	2378.12	2406.42	2412.53	2416.47	2424.92	2417.31	2419.76	2451.64	2451.59
35.0	2312.37	2287.04	2329.72	2334.79	2339.25	2336.27	2336.54	2340.16	2373.72	2369.69
37.5	2219.42	2195.95	2234.15	2240.63	2245.70	2248.02	2253.76	2250.05	2281.00	2276.62
40.0	2130.28	2104.87	2143.06	2148.06	2152.84	2156.98	2154.37	2154.17	2194.74	2190.72
42.5	2030.63	2013.78	2049.99	2056.53	2057.60	2056.89	2061.19	2064.48	2101.81	2097.15
45.0	1927.40	1922.69	1947.04	1952.10	1955.91	1962.31	1965.73	1963.24	1998.88	1993.54
47.5	1831.80	1831.61	1846.67	1849.98	1856.82	1863.09	1860.89	1858.26	1902.27	1896.03
50.0	1726.46	1735.55	1741.03	1752.36	1754.97	1753.46	1757.29	1759.13	1798.76	1794.08
52.5	1616.55	1624.34	1629.72	1636.98	1641.04	1648.69	1650.78	1650.86	1687.90	1683.93
55.0	1509.16	1517.18	1522.76	1528.16	1536.07	1540.93	1538.17	1538.33	1584.84	1580.80
57.5	1396.87	1407.35	1415.98	1420.79	1428.13	1427.54	1430.46	1429.57	1474.30	1469.28
60.0	1285.35	1292.29	1301.89	1307.62	1316.44	1317.19	1321.21	1318.78	1358.76	1354.31
62.5	1177.26	1179.35	1191.82	1197.77	1203.96	1205.13	1204.73	1203.78	1249.72	1246.07
65.0	1058.90	1072.32	1079.36	1086.99	1089.06	1089.60	1093.72	1094.08	1134.22	1130.36
67.5	945.02	958.70	965.79	970.93	974.45	978.77	980.03	978.51	1019.39	1014.53
70.0	836.58	845.65	852.38	857.90	861.45	865.56	862.93	864.60	907.78	901.65
72.5	723.55	732.13	738.00	746.93	749.28	749.61	752.28	754.33	791.19	788.58
75.0	610.59	616.25	624.89	631.12	636.64	640.79	639.42	642.32	676.35	674.54
77.5	491.55	495.47	515.14	519.47	523.70	526.95	529.22	525.47	558.20	560.07
80.0	396.79	401.65	407.28	411.82	417.73	419.21	419.85	418.58	454.75	451.23

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CANDELA TABULATION - (Cont.)

82.5	288.87	296.58	299.61	306.41	309.43	311.84	314.03	312.34	346.50	344.09
85.0	191.17	196.51	201.54	206.79	209.28	209.50	210.88	210.04	244.05	238.04
87.5	102.47	108.49	111.87	116.43	114.48	121.89	116.50	115.98	144.83	139.60
90.0	53.30	54.95	56.60	57.45	59.15	60.86	59.68	58.20	67.31	65.65
92.5	56.23	55.93	54.75	54.32	53.89	54.07	53.76	50.81	49.26	49.82
95.0	64.39	63.61	62.37	61.23	60.40	59.86	59.11	58.12	55.84	56.14
97.5	74.04	72.15	70.11	68.78	68.09	67.58	66.55	66.41	63.46	64.09
100.0	81.31	79.63	77.39	76.67	76.62	75.57	75.34	75.64	72.59	73.32
102.5	91.53	88.23	86.53	84.39	83.76	83.79	84.57	84.54	81.99	82.65
105.0	99.94	97.36	92.29	91.46	93.26	94.32	94.26	95.01	95.10	95.02
107.5	104.98	101.62	99.06	98.05	102.74	103.23	103.79	104.94	101.32	102.09
110.0	110.52	106.90	105.79	108.84	110.73	111.39	110.40	112.01	110.08	112.59
112.5	116.86	115.27	115.16	116.71	117.77	117.78	118.38	118.63	117.22	117.10
115.0	122.24	122.00	121.90	123.03	126.79	125.30	125.22	123.94	124.28	124.29
117.5	129.91	129.50	128.00	129.32	131.65	130.82	129.36	130.02	129.31	129.58
120.0	135.04	134.71	134.25	136.74	136.98	135.29	134.89	133.94	134.00	134.09
122.5	140.91	141.48	140.50	140.79	140.43	139.37	138.56	138.22	139.46	139.33
125.0	146.70	146.80	146.01	144.86	144.26	144.98	143.74	143.98	143.61	144.04
127.5	150.48	151.08	150.98	149.19	148.10	147.97	148.48	148.02	147.61	147.82
130.0	155.99	157.43	155.69	152.50	152.56	153.34	151.91	152.45	152.54	153.25
132.5	160.33	163.17	159.11	155.56	156.46	155.29	156.27	156.59	158.80	157.25
135.0	167.02	167.30	162.74	160.36	159.85	159.27	159.47	160.15	165.07	163.90
137.5	173.95	175.19	169.70	168.40	166.16	165.69	164.57	167.20	171.72	169.63
140.0	182.82	183.26	178.78	175.39	173.84	172.02	173.61	176.77	178.70	176.74
142.5	193.42	191.65	184.97	182.10	181.93	180.83	183.28	184.58	185.22	183.95
145.0	200.03	197.07	190.62	186.61	186.58	189.30	190.23	191.52	190.99	190.44
147.5	204.37	199.67	194.28	189.43	191.29	193.24	194.63	195.49	194.89	195.15
150.0	209.19	203.42	196.25	194.66	197.05	198.00	198.74	200.59	199.46	199.84
152.5	211.94	204.98	199.43	199.32	201.36	201.61	203.05	203.87	202.49	203.87
155.0	214.44	207.30	202.50	203.12	204.46	205.77	206.84	207.12	205.60	207.88
157.5	216.53	210.07	205.03	208.01	208.62	209.45	210.16	210.79	208.47	210.74
160.0	218.55	211.65	209.17	210.74	211.70	212.08	213.44	213.08	210.15	213.29
162.5	220.87	213.87	212.45	214.57	214.37	215.72	215.75	215.65	213.12	215.89
165.0	222.35	216.25	215.43	217.27	217.79	217.67	217.98	217.56	214.73	218.14
167.5	223.81	217.29	218.99	219.24	219.50	220.21	220.72	218.82	216.16	219.53
170.0	225.18	219.50	221.00	222.03	222.00	222.44	222.15	220.49	217.79	221.65
172.5	225.78	220.90	223.82	223.43	223.83	223.86	224.23	221.47	218.47	222.18
175.0	227.17	223.33	225.57	225.51	225.24	225.28	225.75	221.77	219.91	223.15
177.5	228.83	226.62	227.26	227.80	227.85	227.57	226.72	222.66	220.72	223.90
180.0	227.76	227.76	227.76	227.76	227.76	227.76	227.76	227.76	227.76	227.76

**Vert.
Angles**

Horizontal Angles

	<u>200</u>	<u>210</u>	<u>220</u>	<u>230</u>	<u>240</u>	<u>250</u>	<u>260</u>	<u>270</u>	<u>280</u>	<u>290</u>
0.0	2971.45	2971.45	2971.45	2971.45	2971.45	2971.45	2971.45	2971.45	2971.45	2971.45
2.5	2970.45	2970.39	2974.78	2968.74	2965.91	2964.16	2973.64	2969.13	2969.74	2971.03
5.0	2961.45	2967.46	2961.64	2959.17	2960.14	2963.01	2955.22	2952.83	2957.17	2955.60
7.5	2956.00	2945.85	2945.77	2951.29	2949.41	2943.36	2939.58	2942.51	2932.99	2932.85
10.0	2934.60	2930.04	2932.67	2924.03	2918.21	2915.92	2922.72	2916.86	2915.70	2915.50
12.5	2901.10	2906.04	2896.27	2894.26	2893.36	2894.15	2882.11	2879.04	2880.70	2877.93
15.0	2867.04	2861.79	2859.42	2862.98	2859.03	2850.89	2847.04	2847.00	2836.66	2833.80
17.5	2831.74	2823.78	2823.49	2814.08	2805.59	2803.52	2806.62	2796.41	2797.68	2794.11
20.0	2775.19	2776.90	2767.53	2763.89	2761.38	2760.08	2746.72	2739.43	2740.35	2733.44
22.5	2720.87	2712.81	2712.66	2712.58	2706.14	2696.37	2692.55	2688.60	2677.67	2672.03
25.0	2665.50	2659.72	2657.72	2642.60	2635.17	2632.29	2630.85	2620.94	2620.21	2614.67
27.5	2591.85	2590.76	2582.52	2576.87	2575.94	2569.01	2555.47	2548.77	2544.74	2538.94

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CANDELA TABULATION - (Cont.)

30.0	2521.49	2512.37	2511.22	2509.61	2500.90	2489.48	2482.28	2480.88	2467.17	2460.93
32.5	2446.10	2441.05	2437.48	2423.00	2414.77	2408.55	2406.64	2394.88	2390.60	2385.29
35.0	2358.86	2355.23	2346.64	2341.39	2335.71	2330.08	2314.79	2307.29	2298.65	2294.64
37.5	2273.11	2264.75	2260.32	2257.86	2248.54	2236.69	2230.45	2223.81	2208.79	2205.21
40.0	2186.73	2183.23	2174.72	2160.83	2150.46	2143.94	2140.41	2127.29	2122.25	2116.04
42.5	2086.01	2087.14	2073.62	2067.90	2058.06	2052.67	2038.11	2028.28	2021.38	2010.51
45.0	1989.93	1982.27	1975.23	1971.04	1962.61	1947.12	1942.25	1934.32	1921.15	1911.27
47.5	1892.81	1886.96	1879.93	1863.65	1855.04	1846.01	1837.94	1826.28	1821.22	1810.94
50.0	1785.07	1777.87	1770.31	1763.33	1753.24	1744.10	1730.17	1718.99	1709.49	1703.26
52.5	1680.37	1673.11	1665.44	1657.00	1646.85	1632.03	1624.17	1616.40	1599.23	1597.21
55.0	1572.23	1570.06	1558.41	1544.73	1535.06	1526.74	1516.63	1507.47	1488.85	1490.18
57.5	1457.56	1456.05	1443.12	1437.02	1428.09	1418.23	1403.47	1396.40	1378.48	1375.68
60.0	1351.33	1340.89	1332.06	1324.26	1317.86	1300.22	1294.71	1284.07	1268.10	1263.11
62.5	1240.16	1229.52	1221.62	1210.30	1198.54	1190.84	1181.65	1167.03	1157.14	1152.49
65.0	1121.64	1116.44	1105.30	1097.98	1086.36	1078.44	1066.12	1052.35	1046.18	1034.94
67.5	1008.12	1002.68	993.76	984.82	973.77	961.07	953.71	942.58	930.04	922.99
70.0	894.43	888.93	880.95	867.12	859.35	849.51	836.99	828.52	816.34	810.13
72.5	779.45	775.17	764.32	758.03	746.37	737.19	725.32	714.91	705.78	696.29
75.0	668.78	661.41	653.51	645.58	634.73	622.64	614.53	604.52	594.20	585.57
77.5	543.84	550.44	525.38	533.02	519.46	501.18	492.65	489.63	480.97	470.82
80.0	444.95	439.78	429.25	422.56	411.19	403.27	392.59	384.77	374.91	365.88
82.5	337.11	329.10	321.90	313.07	307.93	296.10	290.06	277.65	267.83	261.03
85.0	234.05	228.56	219.21	212.30	205.08	197.62	188.84	179.46	171.97	165.89
87.5	135.71	131.54	127.09	120.31	114.79	107.17	99.48	95.35	87.56	83.53
90.0	66.84	66.64	64.94	63.11	61.16	59.66	58.78	57.42	55.79	55.25
92.5	51.08	52.92	54.08	55.77	55.44	56.56	57.06	57.70	58.43	59.30
95.0	57.65	59.00	60.22	61.73	63.08	64.90	66.14	66.62	66.68	67.45
97.5	65.47	66.58	67.47	68.23	70.28	73.37	75.06	75.87	76.86	76.67
100.0	73.77	74.85	75.81	76.50	76.82	79.36	81.19	82.14	83.18	82.91
102.5	82.46	83.04	83.26	84.32	86.35	87.71	90.19	89.58	90.77	94.08
105.0	94.64	94.45	93.23	92.30	92.25	97.78	99.69	101.16	101.78	103.58
107.5	102.73	102.92	102.90	99.53	99.37	101.82	103.84	106.15	106.48	107.30
110.0	111.36	110.42	111.65	108.86	104.76	108.15	109.99	110.66	112.34	111.75
112.5	118.17	118.67	118.71	118.30	113.90	114.16	113.81	115.20	115.45	117.35
115.0	125.13	125.45	126.91	124.51	121.62	121.22	121.95	121.83	124.05	124.81
117.5	130.97	131.67	132.39	130.84	127.97	126.39	127.47	125.89	129.15	129.52
120.0	134.78	136.85	137.82	136.06	134.02	133.11	132.13	131.47	131.73	133.03
122.5	139.78	140.23	141.36	141.65	140.23	140.03	138.69	136.71	137.24	137.86
125.0	143.94	145.48	145.06	145.78	144.74	144.41	144.65	142.87	142.52	140.73
127.5	148.57	148.84	148.94	148.49	149.36	150.34	147.48	144.88	144.80	144.39
130.0	152.63	153.22	153.06	152.64	154.48	155.39	152.70	150.49	149.96	149.28
132.5	156.71	158.60	156.76	157.23	159.37	162.09	159.34	156.08	154.80	154.71
135.0	161.69	161.52	162.15	162.96	163.86	166.98	167.27	164.04	161.57	160.48
137.5	167.14	166.02	166.30	167.73	169.07	173.40	172.46	169.42	167.08	167.61
140.0	174.23	172.74	172.45	175.11	176.33	180.38	180.20	176.83	174.96	176.38
142.5	183.07	180.92	180.29	181.72	184.52	188.12	189.27	185.08	183.28	184.94
145.0	189.33	189.28	187.59	186.57	189.76	194.40	196.71	193.45	191.05	191.32
147.5	194.13	192.70	191.76	189.16	193.41	197.11	202.49	199.27	194.91	194.86
150.0	198.91	198.11	196.35	194.07	195.73	201.62	205.90	204.43	200.02	199.59
152.5	202.64	202.20	200.36	199.01	198.63	203.53	209.75	207.71	203.83	202.52
155.0	207.17	205.56	205.62	202.93	202.39	206.31	212.41	211.29	206.23	206.13
157.5	210.30	209.90	208.80	207.86	204.80	209.42	214.47	215.05	209.76	209.69
160.0	213.14	212.70	211.88	211.47	208.72	211.14	217.41	217.26	212.41	212.14
162.5	216.16	215.61	215.86	214.35	212.70	213.41	219.15	221.08	215.22	214.89
165.0	218.79	219.13	218.03	218.21	216.02	215.58	220.93	223.67	218.50	217.65
167.5	221.79	221.04	221.31	220.12	219.69	217.53	223.71	225.42	220.23	219.92

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CANDELA TABULATION - (Cont.)

170.0	223.71	223.91	223.67	222.91	222.06	220.03	224.24	227.84	222.66	222.38
172.5	225.16	225.59	225.13	225.83	224.60	222.25	226.31	228.73	224.76	223.84
175.0	227.22	226.87	227.97	226.92	227.11	224.54	227.88	230.52	226.85	226.13
177.5	227.51	228.97	228.97	229.11	228.07	227.43	228.67	232.07	228.63	227.38
180.0	227.76	227.76	227.76	227.76	227.76	227.76	227.76	227.76	227.76	227.76

Vert. Horizontal Angles
Angles

	300	310	320	330	340	350	360
0.0	2971.45	2971.45	2971.45	2971.45	2971.45	2971.45	2971.45
2.5	2973.38	2971.15	2972.26	2963.19	2963.51	2969.76	2963.44
5.0	2950.82	2948.94	2949.90	2957.78	2952.87	2949.58	2947.83
7.5	2934.74	2936.65	2933.49	2935.44	2937.45	2936.64	2925.86
10.0	2913.76	2909.35	2911.21	2902.00	2902.47	2908.62	2888.22
12.5	2872.24	2868.88	2867.90	2875.37	2871.23	2867.37	2855.73
15.0	2835.50	2835.47	2831.91	2829.78	2833.38	2832.94	2807.73
17.5	2788.42	2784.22	2781.68	2777.00	2776.76	2781.62	2760.84
20.0	2727.44	2726.10	2722.61	2728.18	2726.28	2721.65	2696.89
22.5	2673.20	2671.68	2664.59	2664.92	2668.92	2668.25	2640.15
25.0	2608.84	2602.85	2603.53	2595.70	2593.89	2597.36	2562.20
27.5	2530.41	2526.59	2524.37	2529.61	2526.40	2523.28	2494.59
30.0	2459.41	2455.77	2447.76	2447.56	2449.77	2451.90	2412.22
32.5	2376.83	2371.61	2371.93	2361.93	2362.15	2366.03	2322.74
35.0	2286.20	2282.68	2280.52	2280.71	2281.07	2274.73	2241.13
37.5	2199.13	2197.65	2191.37	2187.12	2189.88	2190.52	2150.07
40.0	2105.63	2097.42	2100.06	2091.95	2091.23	2092.13	2048.67
42.5	2005.16	2001.31	1996.25	1998.24	1997.22	1993.67	1954.66
45.0	1908.61	1904.76	1896.98	1894.52	1896.09	1898.49	1850.21
47.5	1806.12	1798.18	1797.31	1791.25	1787.83	1791.51	1743.40
50.0	1694.63	1688.55	1685.08	1691.12	1687.94	1686.03	1642.85
52.5	1592.12	1585.45	1578.36	1577.58	1576.39	1582.15	1531.74
55.0	1480.54	1474.78	1473.11	1466.28	1465.08	1468.99	1419.18
57.5	1366.65	1364.22	1358.25	1357.52	1359.86	1355.15	1312.79
60.0	1258.32	1255.16	1246.86	1241.33	1244.53	1244.85	1200.37
62.5	1141.12	1134.32	1134.85	1129.15	1128.33	1129.13	1084.41
65.0	1028.16	1023.33	1018.98	1017.17	1018.12	1016.63	975.73
67.5	916.07	911.11	906.00	902.99	903.00	905.76	860.21
70.0	803.80	796.60	793.33	789.02	787.45	785.94	747.99
72.5	688.17	682.05	676.79	679.53	675.54	676.91	639.19
75.0	578.58	563.11	567.16	561.62	563.55	564.48	510.21
77.5	466.50	459.20	455.05	452.07	452.11	452.01	418.11
80.0	358.24	352.52	349.95	348.28	347.74	345.32	312.83
82.5	255.94	244.81	246.92	242.40	243.29	242.76	212.18
85.0	156.14	149.68	148.28	146.05	145.47	144.33	116.59
87.5	77.64	75.14	75.01	68.60	72.09	99.23	58.58
90.0	54.03	54.91	53.73	52.46	51.65	63.21	50.83
92.5	59.04	58.91	58.86	58.61	58.42	57.49	59.05
95.0	67.17	66.76	66.60	65.96	65.82	66.45	68.32
97.5	75.77	75.28	75.27	75.35	75.58	75.86	78.09
100.0	82.74	83.67	84.10	83.84	84.44	85.00	90.62
102.5	93.33	93.57	93.04	92.64	95.50	97.02	99.54
105.0	102.74	100.23	100.75	105.72	105.19	106.58	110.55
107.5	106.38	107.24	111.72	115.49	115.82	115.86	118.28
110.0	112.68	116.86	122.63	122.25	124.57	126.80	127.45
112.5	121.89	126.37	130.50	130.40	132.37	132.20	134.22
115.0	128.88	132.52	135.83	137.06	138.41	140.35	140.94

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CANDELA TABULATION - (Cont.)

117.5	131.47	136.88	140.88	141.46	142.29	144.40	145.87
120.0	134.64	139.42	144.92	145.34	148.18	148.01	150.18
122.5	138.32	142.43	148.47	150.61	151.77	154.59	156.20
125.0	141.26	144.90	149.33	153.88	155.68	158.40	161.44
127.5	145.63	147.32	150.94	156.47	159.57	162.09	165.64
130.0	151.05	151.35	154.22	159.33	162.98	167.41	169.77
132.5	153.91	155.36	157.31	160.85	166.28	170.61	173.57
135.0	160.10	161.34	162.72	164.12	168.47	174.97	177.99
137.5	166.67	166.27	168.49	170.32	173.09	179.28	185.77
140.0	174.90	174.05	176.50	176.49	178.74	184.52	192.03
142.5	184.65	184.01	185.09	183.30	185.20	190.11	198.63
145.0	191.08	190.81	188.57	188.20	189.58	193.81	202.83
147.5	196.09	194.35	192.95	191.66	192.95	197.40	206.38
150.0	198.84	199.21	198.08	195.97	195.59	200.09	209.56
152.5	202.78	202.51	201.29	199.60	198.55	201.63	211.70
155.0	206.85	206.39	205.71	203.32	201.41	204.24	213.11
157.5	209.67	209.81	210.06	207.33	204.99	206.04	215.35
160.0	212.69	212.24	212.79	211.11	208.46	207.44	215.98
162.5	215.20	215.66	216.00	215.36	211.47	210.07	217.30
165.0	217.91	218.81	218.70	218.68	214.75	211.67	218.60
167.5	220.81	220.53	221.20	220.65	217.09	213.97	219.25
170.0	222.26	223.23	223.45	223.57	220.41	216.41	220.65
172.5	224.76	224.59	224.52	224.87	222.75	217.82	220.75
175.0	226.38	226.38	226.86	226.50	224.62	220.36	220.64
177.5	227.67	228.20	227.94	228.16	226.54	221.70	221.77
180.0	227.76	227.76	227.76	227.76	227.76	227.76	227.76

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1082.25	N.A.	11.60
0-30	2288.47	N.A.	24.60
0-40	3730.55	N.A.	40.10
0-60	6560.21	N.A.	70.40
0-80	8239.32	N.A.	88.50
0-90	8450.96	N.A.	90.70
10-90	8170.12	N.A.	87.70
20-40	2648.3	N.A.	28.40
20-50	4134.64	N.A.	44.40
40-70	3872.92	N.A.	41.60
60-80	1679.1	N.A.	18.00
70-80	635.84	N.A.	6.80
80-90	211.65	N.A.	2.30
90-110	175.61	N.A.	1.90
90-120	302.20	N.A.	3.20
90-130	434.44	N.A.	4.70
90-150	682.52	N.A.	7.30
90-180	861.40	N.A.	9.30
110-180	685.80	N.A.	7.40
0-180	9312.37	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	280.84
10-20	801.41
20-30	1206.22
30-40	1442.08
40-50	1486.34
50-60	1343.32
60-70	1043.26
70-80	635.84
80-90	211.65
90-100	71.42
100-110	104.19
110-120	126.60
120-130	132.24
130-140	128.10
140-150	119.98
150-160	95.72
160-170	61.71
170-180	21.45

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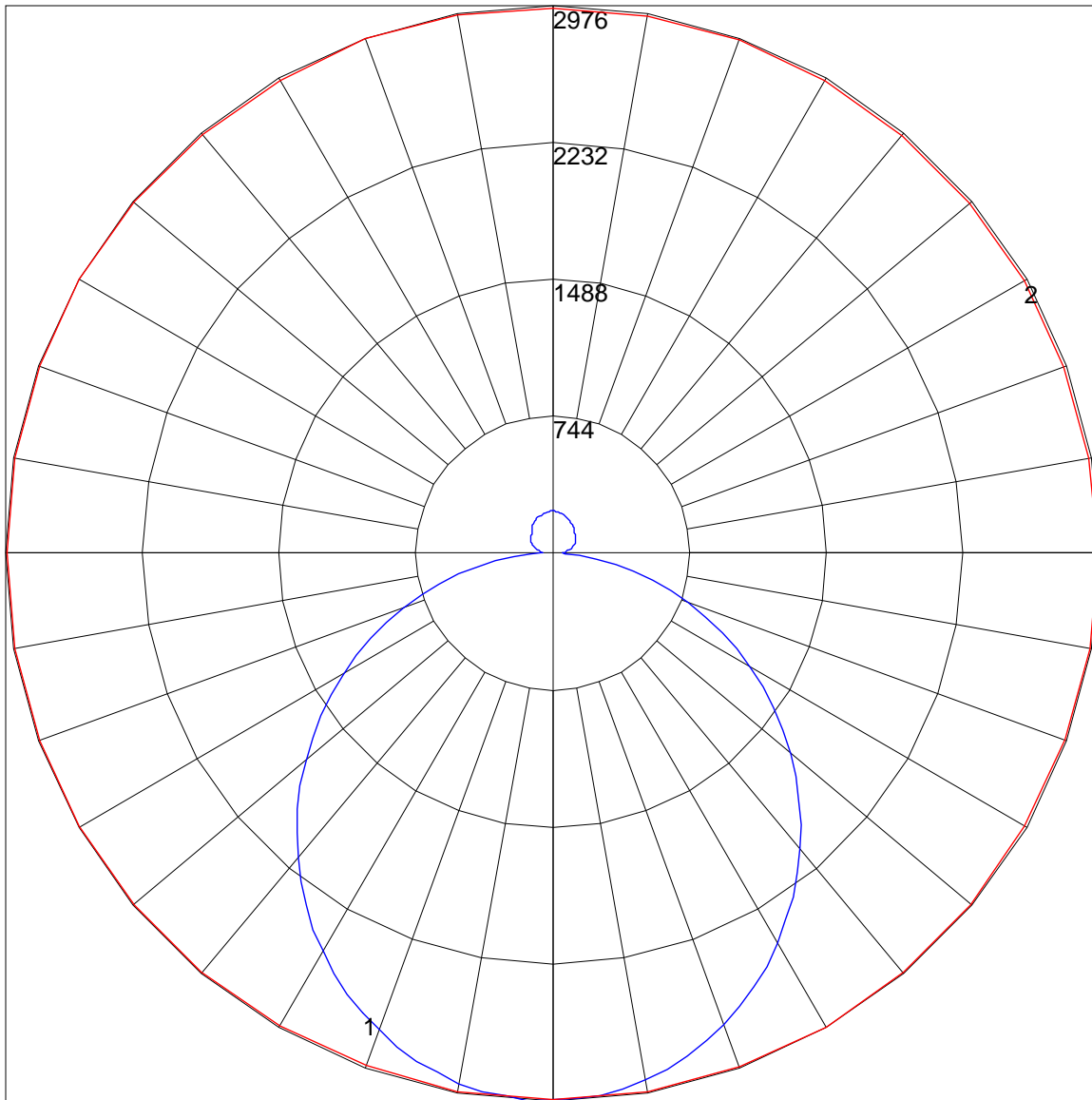
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	94	94	94	91
1	106	102	97	93	103	98	94	91	92	89	86	87	84	82	82	80	78	75
2	97	88	81	76	93	86	79	74	81	75	71	76	72	68	72	68	65	62
3	88	77	69	63	85	75	68	62	71	64	59	67	62	57	63	59	55	52
4	80	68	60	53	77	67	58	52	63	56	50	59	54	49	56	51	47	45
5	74	61	52	46	71	59	51	45	56	49	44	53	47	42	51	45	41	39
6	68	55	46	40	66	54	45	39	51	44	38	48	42	37	46	40	36	34
7	63	50	41	35	61	49	40	35	46	39	34	44	38	33	42	36	32	30
8	59	45	37	31	57	44	36	31	42	35	30	40	34	29	38	33	29	27
9	55	42	33	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24
10	51	38	31	25	50	38	30	25	36	29	25	34	28	24	33	27	23	22

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POLAR GRAPH



Maximum Candela = 2975.71 Located At Horizontal Angle = 150, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (150 - 330) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)