



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LED4HTHOWT40120V-277V-FL_S.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TESTLAB] Photopia 2017.2.1 see: www.ltioptics.com/ies
 [ISSUEDATE]
 [TESTDATE] Wed Feb 07 16:31:13 2018
 [TEST] 1
 [MANUFAC] BEGHELLI
 [LUMCAT]
 [LUMINAIRE] BS100LED4HTHOWT40120V-277V-FL
 [LAMP] LED 0.195W White 5630 package (65mA)
 [LAMPCAT] SPMWHT541MP5WAT0S5
 [OTHER]
 IESNA:LM-63-2002
 [TEST] 6,552
 [TESTLAB] CSA Group
 [ISSUEDATE] 7/24/2013 1:09:24 PM
 [MANUFAC] Beghelli
 [LUMINAIRE] BS100LEDDLC4HT50WWT41120-277V
 [OTHER] Luminous shape: Rectangle
 [OTHER] Luminous dimensions (feet)
 0 - 180 Axis: 4.2
 90 - 270 Axis: 0.6
 [OTHER] Height: 0.1

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8610
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	70
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.21 ft
Luminous Width (90-270)	0.58 ft
Luminous Height	0.32 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10895	8351	8264
55	9202	7053	6888
65	6651	5590	5472
75	3898	3833	3813
85	2069	2023	1962

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CANDELA TABULATION

	<u>0</u>	<u>10</u>	<u>20</u>	<u>30</u>	<u>40</u>	<u>50</u>	<u>60</u>	<u>70</u>	<u>80</u>	<u>90</u>
0.0	3029.51	3029.51	3029.51	3029.51	3029.51	3029.51	3029.51	3029.51	3029.51	3029.51
2.5	3012.34	2995.42	3005.39	3035.74	3008.60	3044.53	2996.07	3042.00	3002.31	2949.95
5.0	2966.36	3004.72	2999.16	2965.93	3025.85	2984.40	3028.58	3004.63	2982.42	3041.19
7.5	2987.37	2974.14	2999.41	2945.75	2965.63	3006.53	2993.24	2974.61	3006.18	2966.01
10.0	2922.19	2943.18	2929.46	2942.23	2929.50	2924.06	2921.58	2912.24	2935.85	2918.19
12.5	2867.51	2876.10	2884.16	2880.56	2891.97	2914.91	2893.21	2885.38	2893.34	2913.11
15.0	2830.39	2841.08	2841.82	2863.74	2837.07	2865.81	2869.37	2843.16	2855.58	2887.66
17.5	2781.10	2814.31	2816.08	2804.50	2793.14	2824.31	2819.27	2821.65	2840.67	2847.77
20.0	2745.48	2752.91	2733.16	2720.71	2730.31	2783.50	2769.10	2761.59	2788.31	2789.32
22.5	2669.06	2671.66	2685.20	2686.59	2685.61	2702.16	2729.66	2705.55	2755.11	2742.76
25.0	2601.70	2609.72	2617.41	2610.30	2628.73	2647.12	2634.46	2641.76	2670.68	2712.55
27.5	2540.19	2534.25	2537.20	2562.03	2562.78	2569.81	2576.98	2607.35	2623.98	2636.65
30.0	2462.94	2447.63	2455.53	2481.31	2471.61	2500.33	2508.99	2535.66	2578.30	2568.96
32.5	2377.69	2382.07	2376.66	2394.83	2388.94	2425.67	2442.08	2469.56	2475.53	2510.81
35.0	2300.32	2294.90	2303.26	2297.54	2306.16	2322.59	2344.76	2362.17	2403.88	2408.75
37.5	2215.80	2215.34	2209.35	2218.40	2247.40	2242.62	2264.73	2288.91	2307.98	2334.56
40.0	2109.82	2102.36	2117.48	2115.77	2135.68	2160.43	2155.23	2198.82	2239.87	2237.47
42.5	1997.65	2005.87	2009.53	2012.15	2029.28	2055.01	2067.39	2111.02	2141.05	2157.17
45.0	1885.39	1876.39	1899.14	1905.56	1931.56	1950.20	1951.86	2002.38	2033.53	2064.34
47.5	1757.31	1761.73	1779.56	1814.97	1830.04	1862.14	1871.77	1901.48	1929.03	1942.65
50.0	1613.87	1629.09	1662.92	1688.25	1712.51	1753.42	1770.61	1785.20	1829.26	1845.84
52.5	1477.92	1477.34	1520.82	1567.21	1607.42	1634.41	1670.31	1682.32	1695.52	1729.62
55.0	1330.81	1354.87	1388.08	1437.30	1481.12	1529.06	1551.19	1568.23	1589.65	1608.66
57.5	1175.05	1203.03	1250.05	1311.65	1379.15	1413.98	1445.40	1462.22	1474.96	1500.85
60.0	1031.47	1048.05	1118.02	1192.62	1259.40	1300.34	1341.80	1341.73	1365.21	1388.36
62.5	878.70	911.65	975.48	1063.91	1140.24	1188.63	1214.67	1237.12	1248.58	1282.88
65.0	743.70	768.30	849.86	934.77	1024.89	1075.86	1112.79	1119.48	1150.43	1150.25
67.5	607.93	640.71	713.94	809.29	903.82	957.06	985.60	1005.86	1039.43	1053.22
70.0	489.70	517.36	600.69	696.31	784.37	848.36	882.21	901.23	914.46	942.05
72.5	386.92	417.30	488.26	591.05	676.45	739.38	766.30	787.11	794.46	816.57
75.0	294.69	318.79	398.58	484.53	571.22	629.96	651.79	665.34	677.88	688.07
77.5	216.87	243.88	314.93	396.58	472.55	521.26	541.23	553.54	562.18	569.83
80.0	157.92	185.84	244.13	319.25	374.90	418.32	440.58	443.88	457.01	456.97
82.5	110.63	134.62	189.11	238.26	295.96	337.56	349.76	353.43	359.60	360.03
85.0	76.75	97.89	138.91	185.50	230.83	257.67	273.66	279.86	284.10	284.89
87.5	52.91	67.04	102.50	142.06	177.51	199.32	209.10	216.17	213.77	216.12
90.0	32.83	47.26	73.37	103.66	135.17	152.25	159.97	166.73	166.44	162.10
92.5	20.16	31.49	52.21	76.42	100.69	114.98	121.70	122.66	125.92	122.99
95.0	14.25	21.21	37.77	57.50	73.63	86.22	92.68	95.37	95.56	95.75
97.5	11.77	13.92	26.39	41.10	55.68	65.46	71.20	74.33	73.98	74.49
100.0	9.21	10.44	18.09	31.39	42.10	50.40	57.66	59.03	60.44	58.69
102.5	7.21	7.54	13.25	21.76	31.38	38.44	44.77	47.60	49.05	49.51
105.0	5.83	6.80	9.14	15.47	23.33	29.13	35.32	40.21	41.06	40.33
107.5	5.14	5.00	7.14	11.65	17.18	22.58	28.17	32.19	33.96	33.44
110.0	4.46	5.04	5.10	7.92	12.88	19.04	22.18	26.67	28.74	29.13
112.5	3.48	4.17	3.63	5.88	9.76	12.70	17.56	21.47	22.88	22.83
115.0	3.25	3.55	2.82	3.96	6.69	10.39	14.42	17.06	18.49	18.91
117.5	2.40	2.63	2.64	2.30	4.44	7.66	10.97	13.43	14.72	14.93
120.0	2.07	1.81	1.95	1.49	3.06	5.71	8.89	11.25	11.59	11.83
122.5	1.64	1.87	1.73	1.16	1.41	3.20	6.03	7.47	8.48	9.17
125.0	1.38	1.36	1.32	1.10	0.80	2.38	3.90	4.96	6.72	6.42
127.5	1.24	1.00	0.72	0.75	0.39	1.14	2.34	3.74	4.14	4.20
130.0	0.88	0.81	0.66	0.48	0.22	0.46	1.04	2.15	2.94	2.83
132.5	0.85	0.46	0.47	0.33	0.09	0.04	0.37	1.02	1.65	1.42

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135.0	0.36	0.49	0.19	0.15	0.04	0.00	0.02	0.23	0.87	0.81
137.5	0.39	0.32	0.18	0.08	0.11	0.00	0.00	0.00	0.03	0.31
140.0	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142.5	0.00	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**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	3029.51	3029.51	3029.51	3029.51	3029.51	3029.51	3029.51	3029.51	3029.51	3029.51
2.5	2965.81	2990.05	3024.81	3011.88	2947.26	3003.89	3012.47	2968.73	2970.29	2999.07
5.0	3009.22	2957.02	2986.53	2996.11	2967.62	2982.15	2961.11	3010.69	3029.53	3002.41
7.5	2961.39	2938.67	2987.73	2988.87	2993.13	2963.34	2959.91	2994.91	2992.21	2955.49
10.0	2942.93	2957.77	2954.08	2956.52	2942.83	2969.09	2933.18	2952.44	2933.58	2967.44
12.5	2924.47	2901.28	2878.06	2907.41	2891.27	2926.98	2903.74	2894.13	2909.35	2884.13
15.0	2881.31	2856.20	2853.68	2871.05	2864.78	2862.10	2834.96	2893.72	2860.92	2890.34
17.5	2844.52	2837.95	2841.99	2822.00	2854.49	2824.82	2813.13	2824.80	2840.83	2840.54
20.0	2790.52	2754.36	2767.39	2768.66	2778.36	2766.62	2756.81	2785.58	2779.04	2783.87
22.5	2753.91	2725.60	2726.23	2703.43	2716.80	2705.67	2719.14	2707.93	2722.95	2723.49
25.0	2712.76	2680.43	2665.87	2647.92	2658.91	2668.02	2647.17	2649.08	2663.03	2677.15
27.5	2628.92	2611.67	2615.33	2596.23	2572.89	2599.21	2562.89	2599.91	2583.30	2563.59
30.0	2557.92	2556.78	2531.79	2506.96	2492.99	2502.13	2500.22	2501.22	2516.61	2504.63
32.5	2510.49	2467.51	2459.14	2429.04	2431.51	2439.28	2435.95	2420.08	2426.78	2438.95
35.0	2415.50	2398.94	2377.98	2355.02	2347.54	2343.11	2336.38	2347.79	2333.71	2345.74
37.5	2331.06	2280.82	2266.64	2278.06	2278.53	2249.05	2250.24	2235.28	2265.68	2254.59
40.0	2240.64	2202.92	2188.17	2170.60	2176.57	2155.63	2172.50	2146.43	2166.88	2156.54
42.5	2134.89	2101.32	2093.73	2077.04	2079.33	2057.15	2049.36	2040.29	2050.76	2051.68
45.0	2031.39	2011.43	1997.98	1990.23	1975.40	1944.24	1934.93	1926.16	1950.45	1927.39
47.5	1942.52	1901.89	1892.60	1874.49	1859.50	1831.81	1813.99	1807.35	1809.74	1805.13
50.0	1837.43	1802.92	1787.59	1769.09	1739.53	1731.13	1691.71	1680.81	1659.66	1676.64
52.5	1711.94	1694.60	1682.27	1654.13	1637.71	1608.06	1566.59	1550.57	1519.13	1545.56
55.0	1607.44	1578.29	1574.15	1557.93	1530.27	1476.51	1449.18	1388.32	1384.80	1399.77
57.5	1496.18	1472.86	1469.37	1442.72	1401.43	1357.43	1293.22	1248.29	1232.71	1254.95
60.0	1379.77	1373.27	1352.36	1326.26	1286.86	1228.89	1160.38	1111.56	1088.21	1095.54
62.5	1267.88	1259.14	1238.85	1216.96	1171.83	1102.02	1020.23	962.72	939.04	958.74
65.0	1156.04	1140.31	1122.53	1095.76	1052.20	970.88	887.89	824.94	796.28	828.07
67.5	1035.98	1028.51	1016.84	981.96	933.42	849.25	763.84	697.65	666.92	690.38
70.0	930.31	919.51	897.19	872.66	820.40	742.95	650.33	573.52	546.94	572.04
72.5	803.51	801.87	778.93	757.47	704.31	625.74	538.60	464.46	436.29	469.42
75.0	681.54	677.95	664.30	639.30	599.40	520.57	435.04	374.29	346.13	374.27
77.5	564.95	558.11	555.35	534.83	490.27	419.69	352.39	286.14	262.84	290.63
80.0	455.64	453.24	453.59	434.03	401.33	335.79	275.15	217.25	195.61	218.17

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CANDELA TABULATION - (Cont.)

82.5	366.20	360.59	354.43	345.84	314.55	263.80	210.11	164.03	140.26	164.77
85.0	280.47	282.27	280.15	267.97	240.67	199.72	162.07	118.37	100.65	117.76
87.5	216.79	214.85	212.81	204.87	182.20	147.79	115.59	82.15	65.63	84.58
90.0	165.70	165.65	163.90	153.70	138.51	110.70	82.77	57.52	40.99	57.70
92.5	123.57	123.62	122.33	115.69	102.72	82.96	59.88	39.74	27.98	38.00
95.0	94.84	96.54	92.84	90.25	76.41	61.02	42.50	25.18	19.79	25.60
97.5	74.34	75.23	74.12	68.44	57.87	44.68	30.95	18.60	15.40	19.29
100.0	59.90	59.67	55.68	52.37	46.80	34.43	23.07	13.53	12.39	14.23
102.5	48.41	47.83	45.92	38.66	33.35	26.40	18.10	11.10	9.53	11.25
105.0	39.24	39.46	36.58	30.78	25.22	19.74	12.66	9.01	8.75	9.63
107.5	33.86	32.02	28.56	24.21	19.15	14.89	10.01	8.46	8.90	8.74
110.0	26.81	25.79	24.90	18.33	15.56	11.06	8.98	7.28	7.27	7.95
112.5	22.44	21.21	18.59	14.70	12.04	8.53	7.20	7.24	6.41	6.38
115.0	17.53	16.42	15.16	10.89	8.29	6.07	6.35	5.50	5.70	6.48
117.5	14.77	13.71	11.74	8.34	5.47	4.49	5.58	5.07	5.28	5.18
120.0	11.15	10.78	8.17	5.31	4.60	4.18	3.99	4.12	4.05	4.20
122.5	8.80	7.20	5.46	3.58	2.63	2.87	3.27	3.49	2.91	3.09
125.0	6.00	5.51	4.33	2.20	1.23	2.04	2.63	2.40	2.98	2.61
127.5	4.37	3.67	2.42	1.85	1.00	1.34	1.87	2.27	2.06	2.15
130.0	2.45	1.78	0.88	0.44	0.62	1.00	1.23	1.47	1.46	1.71
132.5	1.56	0.92	0.42	0.25	0.24	0.57	1.05	0.87	1.09	1.19
135.0	0.77	0.44	0.05	0.02	0.20	0.30	0.54	0.54	0.69	0.76
137.5	0.05	0.00	0.00	0.03	0.08	0.24	0.50	0.35	0.31	0.41
140.0	0.00	0.00	0.00	0.00	0.08	0.13	0.08	0.20	0.11	0.18
142.5	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.06	0.05	0.08
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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	3029.51	3029.51	3029.51	3029.51	3029.51	3029.51	3029.51	3029.51	3029.51	3029.51
2.5	3027.35	3122.21	3073.65	3042.31	3058.59	2978.31	3005.37	3015.03	3015.26	3001.99
5.0	2995.92	3000.31	3023.63	3002.21	2989.48	3018.99	2987.77	3010.15	2996.54	3029.83
7.5	2945.40	2966.73	2972.90	2936.17	2972.13	2943.86	2974.11	2976.33	2927.25	2975.29
10.0	2974.19	2979.66	2955.07	2946.20	2944.07	2950.95	2933.78	2942.91	2939.83	2903.82
12.5	2924.81	2906.16	2923.92	2884.76	2926.12	2910.22	2916.44	2896.17	2908.44	2914.08
15.0	2897.69	2870.83	2878.73	2884.53	2890.22	2900.37	2865.10	2913.35	2861.65	2874.02
17.5	2824.47	2845.58	2840.92	2817.38	2838.63	2823.34	2838.40	2836.21	2838.28	2824.80
20.0	2780.16	2753.61	2760.50	2771.62	2773.98	2776.64	2783.45	2785.57	2797.18	2783.11
22.5	2733.14	2735.77	2724.68	2720.08	2736.12	2746.59	2740.53	2783.76	2736.04	2727.22
25.0	2639.55	2658.04	2652.85	2666.81	2672.01	2678.92	2703.34	2694.90	2687.78	2688.24
27.5	2575.06	2585.09	2598.82	2586.98	2594.22	2622.31	2640.94	2628.03	2597.44	2587.86

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

30.0	2514.74	2525.21	2532.10	2521.78	2521.65	2563.57	2561.51	2554.91	2542.04	2531.24
32.5	2430.53	2442.02	2441.78	2450.12	2441.48	2467.14	2496.69	2485.67	2483.31	2461.80
35.0	2348.98	2370.27	2355.89	2356.40	2366.48	2396.90	2411.15	2417.40	2399.05	2383.13
37.5	2254.22	2251.26	2255.62	2262.86	2287.91	2299.52	2329.40	2325.78	2313.94	2280.92
40.0	2139.95	2160.09	2156.51	2184.46	2193.00	2221.55	2229.80	2237.58	2221.85	2184.75
42.5	2052.70	2053.67	2066.15	2087.84	2086.23	2108.83	2131.68	2142.93	2122.86	2087.80
45.0	1951.59	1943.13	1968.94	1978.39	2003.53	2014.75	2039.64	2039.95	2019.41	1985.52
47.5	1819.21	1834.51	1868.64	1876.30	1894.59	1913.31	1933.11	1958.33	1927.60	1902.61
50.0	1684.09	1726.44	1742.53	1770.84	1786.69	1800.24	1824.91	1816.75	1816.17	1786.58
52.5	1562.86	1604.01	1645.78	1660.10	1687.70	1679.36	1717.24	1734.49	1705.50	1669.86
55.0	1430.89	1484.16	1518.99	1549.14	1567.77	1587.76	1599.05	1612.23	1592.33	1573.80
57.5	1299.28	1355.51	1408.64	1433.16	1477.39	1486.45	1496.42	1499.72	1475.56	1458.72
60.0	1157.33	1228.30	1287.29	1322.00	1352.15	1370.06	1381.53	1390.57	1362.69	1351.43
62.5	1023.26	1108.07	1171.80	1215.02	1241.87	1250.74	1269.05	1273.42	1254.45	1226.60
65.0	890.63	984.55	1058.76	1099.21	1119.31	1140.91	1162.29	1163.09	1135.41	1125.13
67.5	762.68	859.01	937.65	979.30	1017.06	1028.94	1037.57	1058.69	1034.89	1008.74
70.0	648.41	740.87	819.44	868.15	907.65	917.36	926.15	931.43	917.84	901.36
72.5	537.62	628.37	708.73	763.29	780.41	799.52	800.88	812.70	798.29	788.50
75.0	445.87	517.96	593.09	651.29	668.47	675.47	681.78	695.00	684.67	664.34
77.5	352.82	423.73	488.99	535.27	554.75	560.31	558.41	569.05	564.37	554.58
80.0	276.55	345.46	399.09	430.44	447.38	454.21	460.80	462.26	451.55	444.21
82.5	212.52	262.85	312.23	340.22	356.79	363.45	362.41	364.35	357.14	361.66
85.0	158.53	199.73	243.93	262.52	277.42	275.07	277.12	283.20	274.43	276.03
87.5	117.06	149.54	180.98	201.97	214.52	215.51	217.22	215.86	215.52	215.31
90.0	84.03	111.43	135.26	155.72	165.54	165.65	165.28	162.06	164.16	162.12
92.5	58.59	85.05	101.70	116.23	125.57	124.44	121.32	124.59	125.92	123.07
95.0	44.68	60.80	76.10	87.28	93.58	98.10	94.40	94.22	93.43	92.82
97.5	30.78	45.62	57.20	67.71	72.84	75.22	75.05	74.52	74.35	72.34
100.0	23.15	34.79	44.35	50.21	56.77	60.25	60.14	60.25	58.78	60.10
102.5	16.74	25.60	33.03	39.88	46.42	47.81	49.15	48.00	49.83	48.23
105.0	13.32	19.17	25.90	31.48	34.91	38.07	39.41	42.40	38.91	37.86
107.5	10.32	14.57	19.77	23.04	28.38	32.52	33.02	34.13	33.42	31.66
110.0	8.75	12.16	15.08	18.46	23.21	26.82	27.88	28.51	26.25	26.30
112.5	7.43	9.50	10.98	15.12	19.23	20.42	20.57	22.38	22.34	20.80
115.0	6.33	6.34	8.94	10.32	14.01	16.98	17.55	18.71	18.58	17.98
117.5	5.61	4.81	6.05	8.23	11.29	12.62	13.94	14.13	14.50	12.98
120.0	3.80	2.67	4.38	6.06	8.27	10.28	11.50	11.77	11.29	10.25
122.5	2.93	2.83	2.54	3.59	6.28	7.15	8.13	9.23	8.38	7.27
125.0	2.60	2.02	1.51	1.94	4.03	5.38	5.60	6.23	6.53	5.24
127.5	1.87	1.14	1.03	0.85	2.05	3.72	3.91	4.54	4.34	3.70
130.0	1.29	0.98	0.65	0.30	1.01	1.92	2.61	3.00	2.30	1.79
132.5	1.01	0.71	0.27	0.26	0.24	0.88	1.05	1.51	1.62	0.97
135.0	0.70	0.32	0.19	0.07	0.00	0.16	0.77	0.63	0.72	0.18
137.5	0.40	0.30	0.13	0.00	0.00	0.00	0.03	0.03	0.00	0.00
140.0	0.22	0.14	0.06	0.03	0.00	0.00	0.00	0.00	0.00	0.00
142.5	0.11	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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CANDELA TABULATION - (Cont.)

170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Horizontal Angles
Angles

	300	310	320	330	340	350	360
0.0	3029.51	3029.51	3029.51	3029.51	3029.51	3029.51	3029.51
2.5	3001.15	3018.52	3030.25	3027.47	2998.55	3021.14	3012.34
5.0	3000.56	2978.17	2947.55	3013.19	3006.19	2969.24	2966.36
7.5	2964.42	2960.92	2981.58	2948.87	2939.93	2936.50	2987.37
10.0	2941.12	2939.00	2945.40	2952.97	2942.27	2933.57	2922.19
12.5	2888.47	2913.74	2882.98	2908.11	2873.96	2868.10	2867.51
15.0	2851.08	2867.84	2861.45	2838.15	2835.33	2821.69	2830.39
17.5	2818.62	2818.84	2802.74	2806.11	2801.22	2763.62	2781.10
20.0	2777.57	2764.14	2751.70	2723.82	2723.86	2736.55	2745.48
22.5	2708.07	2710.78	2698.92	2701.57	2678.37	2677.82	2669.06
25.0	2634.99	2641.35	2629.58	2625.27	2616.85	2608.36	2601.70
27.5	2585.99	2568.87	2542.65	2560.79	2536.03	2547.59	2540.19
30.0	2487.82	2489.18	2488.28	2471.77	2463.65	2468.54	2462.94
32.5	2438.51	2408.23	2404.43	2398.18	2381.23	2367.69	2377.69
35.0	2364.84	2311.09	2312.65	2298.72	2302.80	2294.02	2300.32
37.5	2257.00	2252.72	2229.27	2215.38	2216.50	2206.53	2215.80
40.0	2174.42	2148.77	2140.55	2127.98	2115.89	2104.28	2109.82
42.5	2066.16	2060.81	2041.95	2018.70	2008.83	1997.14	1997.65
45.0	1973.79	1946.35	1939.51	1904.57	1906.24	1886.63	1885.39
47.5	1877.99	1847.69	1832.89	1807.05	1773.00	1768.29	1757.31
50.0	1775.01	1748.84	1727.72	1697.42	1650.89	1621.44	1613.87
52.5	1675.99	1637.65	1596.91	1568.68	1532.85	1481.84	1477.92
55.0	1553.60	1514.40	1475.87	1435.30	1388.18	1345.99	1330.81
57.5	1435.48	1411.42	1372.27	1316.95	1245.85	1203.66	1175.07
60.0	1334.36	1305.50	1253.01	1184.42	1110.75	1043.59	1031.47
62.5	1226.20	1185.97	1133.12	1067.40	978.33	900.23	878.70
65.0	1110.74	1077.48	1017.26	939.71	840.44	759.57	743.70
67.5	991.32	962.15	911.32	816.87	713.37	636.36	607.93
70.0	884.24	853.00	787.43	703.34	595.53	512.20	489.70
72.5	766.43	735.24	683.44	588.64	495.96	416.09	386.92
75.0	654.11	622.95	580.95	492.08	399.71	323.65	294.69
77.5	540.75	525.58	470.54	395.86	309.28	243.51	216.87
80.0	438.30	423.96	377.83	315.15	245.62	183.42	157.92
82.5	351.31	335.03	295.45	245.91	184.81	134.38	110.63
85.0	272.46	258.45	228.01	185.76	135.41	97.63	76.75
87.5	212.13	200.05	175.16	138.94	101.88	68.07	52.91
90.0	159.60	153.54	129.39	104.75	75.14	46.48	32.83
92.5	121.21	114.52	99.82	78.14	54.15	30.04	20.16
95.0	92.41	84.26	74.53	55.80	37.59	21.89	14.25
97.5	70.72	65.61	56.65	42.12	26.36	13.99	11.77
100.0	54.41	50.95	41.50	30.46	17.92	10.32	9.21
102.5	44.43	37.99	31.00	21.86	13.83	7.45	7.21
105.0	35.21	29.39	23.52	15.22	9.32	6.33	5.83
107.5	27.50	23.39	16.63	12.34	6.18	5.06	5.14
110.0	22.73	17.06	11.89	8.22	4.44	4.42	4.46
112.5	16.50	14.35	8.89	5.59	3.74	4.31	3.48
115.0	14.00	10.81	6.57	3.24	3.07	3.16	3.25

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CANDELA TABULATION - (Cont.)

117.5	10.89	7.60	4.34	2.54	2.52	2.82	2.40
120.0	7.65	4.79	2.43	1.51	2.17	2.36	2.07
122.5	4.74	2.98	1.37	1.40	1.94	1.68	1.64
125.0	3.58	1.74	0.75	0.81	1.19	1.50	1.38
127.5	2.36	0.92	0.34	0.70	0.83	0.90	1.24
130.0	1.00	0.09	0.25	0.46	0.77	0.77	0.88
132.5	0.29	0.09	0.25	0.36	0.52	0.55	0.85
135.0	0.05	0.00	0.13	0.19	0.35	0.34	0.36
137.5	0.00	0.00	0.03	0.18	0.17	0.32	0.39
140.0	0.00	0.00	0.03	0.00	0.05	0.10	0.08
142.5	0.00	0.00	0.00	0.03	0.02	0.06	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.03	0.00
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1092.55	N.A.	12.70
0-30	2314.91	N.A.	26.90
0-40	3785.52	N.A.	44.00
0-60	6641.09	N.A.	77.10
0-80	8237.17	N.A.	95.70
0-90	8485.9	N.A.	98.60
10-90	8201.71	N.A.	95.30
20-40	2692.97	N.A.	31.30
20-50	4206.91	N.A.	48.90
40-70	3858.9	N.A.	44.80
60-80	1596.09	N.A.	18.50
70-80	592.76	N.A.	6.90
80-90	248.73	N.A.	2.90
90-110	109.73	N.A.	1.30
90-120	120.45	N.A.	1.40
90-130	123.48	N.A.	1.40
90-150	123.85	N.A.	1.40
90-180	123.85	N.A.	1.40
110-180	14.12	N.A.	0.20
0-180	8609.76	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	284.19
10-20	808.36
20-30	1222.36
30-40	1470.61
40-50	1513.94
50-60	1341.63
60-70	1003.33
70-80	592.76
80-90	248.73
90-100	81.29
100-110	28.44
110-120	10.72
120-130	3.03
130-140	0.37
140-150	0.01
150-160	0.00
160-170	0.00
170-180	0.00

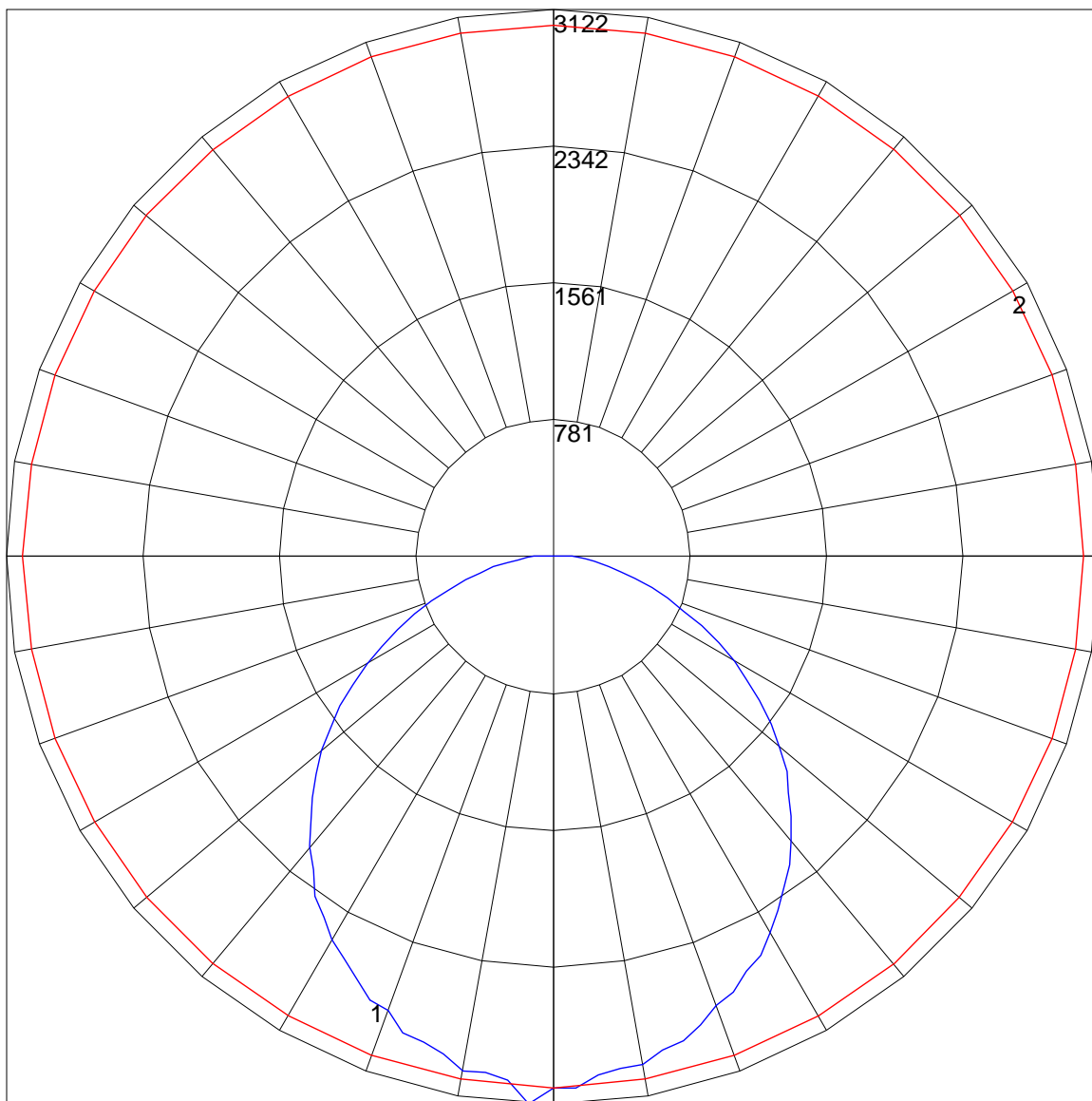
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	110	110	105	105	105	101	101	101	99
1	108	103	99	95	105	101	97	93	96	93	90	92	89	87	88	86	84	82
2	98	90	83	77	95	88	81	76	84	79	74	80	76	72	77	74	70	68
3	89	79	71	64	87	77	69	63	74	67	62	71	65	61	68	64	59	57
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	47	73	61	53	46	59	51	46	57	50	45	55	49	44	42
6	70	56	47	41	68	55	47	40	53	46	40	51	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	38	32	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

POLAR GRAPH



Maximum Candela = 3122.21 Located At Horizontal Angle = 210, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (210 - 30) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0)