



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LED4HTHOWT35120V-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 16:08:53 2018
 [TEST] 1
 [MANUFAC] BEGHELLI
 [LUMCAT]
 [LUMINAIRE] BS100LED4HTHOWT35120V-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	8366
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	70
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.26
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	10535	8152	7946
55	8947	6860	6647
65	6403	5438	5363
75	3788	3724	3696
85	2052	1976	1907

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0.0	2969.99	2969.99	2969.99	2969.99	2969.99	2969.99	2969.99	2969.99	2969.99	2969.99
2.5	2953.27	2922.89	2955.07	2862.94	2898.34	2972.31	2898.45	2872.94	2918.41	2936.06
5.0	2919.33	2940.83	2904.89	2855.26	2913.52	2896.96	2939.10	2891.04	2931.48	2878.62
7.5	2883.51	2923.01	2926.57	2882.91	2859.17	2887.44	2882.98	2879.85	2889.94	2866.07
10.0	2875.72	2867.56	2867.05	2874.70	2844.22	2872.26	2873.40	2839.60	2857.03	2883.79
12.5	2796.47	2806.68	2820.25	2780.02	2830.59	2831.69	2848.97	2849.03	2815.04	2803.78
15.0	2768.40	2744.41	2752.73	2771.77	2783.41	2785.76	2781.88	2801.09	2794.03	2802.72
17.5	2729.11	2734.45	2753.74	2740.99	2730.02	2731.99	2718.65	2756.95	2766.14	2756.18
20.0	2656.76	2657.36	2651.82	2661.18	2675.52	2676.74	2691.25	2700.78	2714.34	2717.61
22.5	2607.73	2610.79	2607.50	2599.96	2622.46	2609.96	2642.15	2652.23	2668.73	2674.26
25.0	2521.38	2540.57	2541.48	2543.17	2553.32	2564.05	2568.61	2596.67	2619.13	2621.88
27.5	2458.29	2463.93	2451.09	2474.38	2484.91	2487.94	2510.44	2514.41	2554.86	2537.36
30.0	2376.36	2390.74	2388.29	2397.25	2414.05	2430.77	2430.18	2466.05	2501.58	2487.78
32.5	2326.45	2305.92	2327.68	2329.44	2344.48	2348.34	2349.67	2370.59	2413.54	2420.01
35.0	2239.79	2237.97	2231.31	2251.72	2266.48	2267.83	2271.98	2316.93	2328.90	2344.01
37.5	2132.63	2150.52	2138.11	2154.02	2159.48	2174.73	2201.89	2207.28	2254.66	2271.51
40.0	2051.67	2048.96	2044.62	2071.05	2072.65	2095.94	2095.56	2128.67	2168.48	2185.36
42.5	1953.76	1943.10	1950.00	1970.44	1981.16	1988.55	2006.08	2039.76	2090.02	2084.97
45.0	1823.08	1835.22	1841.10	1864.79	1874.17	1914.90	1924.00	1937.60	1975.39	1984.97
47.5	1702.23	1704.58	1734.72	1746.28	1767.57	1795.16	1827.46	1838.44	1892.38	1905.91
50.0	1564.34	1584.50	1601.98	1636.88	1666.67	1698.28	1718.43	1744.00	1766.15	1780.69
52.5	1433.71	1455.06	1474.94	1529.61	1557.18	1588.56	1623.91	1627.26	1656.07	1678.83
55.0	1294.04	1316.17	1350.68	1409.83	1445.22	1482.46	1518.17	1518.27	1555.65	1552.45
57.5	1147.68	1171.27	1213.53	1287.32	1340.82	1370.84	1407.34	1418.32	1439.96	1457.06
60.0	996.41	1021.48	1083.13	1157.91	1222.80	1261.01	1292.14	1315.13	1324.59	1350.51
62.5	855.27	879.95	944.24	1031.32	1104.75	1155.59	1190.16	1205.94	1221.22	1244.37
65.0	715.95	745.09	815.39	903.62	995.68	1047.67	1088.36	1094.43	1113.68	1127.23
67.5	590.38	616.05	696.43	798.60	887.79	942.13	970.61	980.93	999.28	1019.13
70.0	473.93	504.03	584.45	680.18	769.38	825.92	860.46	875.82	889.14	897.82
72.5	370.44	400.76	479.63	567.29	655.75	714.38	741.59	754.88	769.75	792.38
75.0	286.40	316.36	382.52	481.00	556.22	610.69	635.59	646.22	662.50	667.02
77.5	211.23	237.41	306.83	387.55	460.72	506.17	530.18	537.99	545.53	553.83
80.0	154.62	177.32	234.87	305.25	367.97	409.76	428.22	431.28	436.80	447.52
82.5	104.85	131.10	179.94	237.14	289.11	325.49	341.33	344.81	350.58	353.83
85.0	76.11	95.49	135.94	177.70	223.81	253.34	265.80	268.17	270.53	276.93
87.5	51.37	68.71	99.13	133.64	169.52	192.30	203.55	209.50	209.25	207.27
90.0	31.43	44.73	71.13	102.09	129.30	149.82	159.41	157.78	160.26	157.26
92.5	19.65	29.84	52.38	72.52	95.20	111.56	118.49	122.21	119.57	121.82
95.0	14.22	20.36	36.31	55.71	71.96	84.77	89.59	91.98	96.03	93.22
97.5	11.77	13.87	26.20	39.76	54.98	64.79	71.48	71.08	72.61	71.75
100.0	8.29	9.27	17.84	29.76	41.05	49.31	52.33	56.78	58.48	58.76
102.5	6.91	7.44	13.12	21.61	31.92	38.75	43.37	46.48	45.92	46.73
105.0	6.41	5.87	9.62	15.50	22.11	29.01	34.39	38.63	40.26	38.33
107.5	5.06	4.65	6.33	10.78	16.43	21.44	28.34	29.93	33.44	32.11
110.0	3.78	4.87	4.40	7.86	13.33	17.30	22.53	25.60	27.31	27.49
112.5	3.57	3.93	3.27	4.91	9.59	13.29	17.35	20.26	23.50	21.83
115.0	3.21	3.31	3.22	3.40	6.33	10.12	12.83	15.93	17.28	17.28
117.5	2.48	2.54	2.14	2.21	4.62	7.22	10.66	13.24	13.85	14.48
120.0	1.97	2.18	2.00	1.62	3.06	5.08	7.42	10.40	11.19	11.20
122.5	1.87	1.57	1.51	1.32	1.22	3.77	5.44	7.26	8.53	8.65
125.0	1.18	1.27	1.08	0.92	0.77	2.03	4.18	5.60	5.74	6.02
127.5	1.41	0.84	0.76	0.67	0.29	0.83	2.08	4.02	4.73	4.82
130.0	0.87	0.70	0.73	0.40	0.15	0.19	1.11	2.19	2.90	3.08
132.5	0.71	0.51	0.48	0.23	0.12	0.00	0.36	1.11	0.94	1.75

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CANDELA TABULATION - (Cont.)

135.0	0.39	0.21	0.36	0.17	0.04	0.00	0.00	0.26	0.37	0.95
137.5	0.11	0.29	0.24	0.09	0.07	0.00	0.00	0.00	0.07	0.14
140.0	0.20	0.16	0.11	0.07	0.00	0.00	0.00	0.00	0.00	0.00
142.5	0.05	0.08	0.08	0.02	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
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	2969.99	2969.99	2969.99	2969.99	2969.99	2969.99	2969.99	2969.99	2969.99	2969.99
2.5	2969.94	2969.38	2950.38	2902.94	2912.68	2939.19	2929.67	2969.02	2954.50	2960.26
5.0	2927.71	2925.50	2899.72	2901.18	2935.49	2929.07	2913.35	2939.15	2899.91	2915.11
7.5	2897.76	2902.63	2913.82	2855.51	2899.80	2917.05	2907.25	2890.16	2924.33	2900.10
10.0	2848.55	2901.06	2859.35	2826.04	2841.13	2868.03	2857.86	2868.18	2874.82	2865.45
12.5	2838.51	2854.09	2854.61	2830.41	2820.65	2839.25	2846.70	2837.70	2822.27	2830.78
15.0	2800.03	2831.30	2779.11	2796.31	2790.10	2798.19	2794.81	2803.44	2811.37	2804.39
17.5	2758.29	2775.03	2773.82	2753.33	2757.50	2748.78	2751.47	2732.41	2748.52	2757.84
20.0	2692.90	2711.26	2699.24	2705.81	2689.65	2711.48	2675.78	2696.83	2689.91	2700.50
22.5	2679.35	2658.11	2665.66	2673.56	2632.58	2631.50	2644.52	2643.88	2640.88	2654.31
25.0	2618.87	2624.01	2594.19	2591.73	2598.20	2568.97	2585.10	2581.86	2552.28	2596.53
27.5	2554.77	2541.46	2518.48	2521.36	2516.48	2495.87	2509.84	2501.98	2510.59	2517.90
30.0	2480.38	2484.05	2474.74	2447.21	2444.76	2422.75	2412.05	2442.71	2426.64	2422.40
32.5	2424.14	2401.25	2378.44	2378.25	2356.54	2366.23	2358.13	2342.92	2347.15	2369.63
35.0	2355.07	2331.76	2307.10	2289.86	2269.68	2286.96	2286.70	2261.82	2288.64	2273.13
37.5	2261.73	2240.18	2224.24	2216.27	2217.07	2193.65	2183.03	2200.75	2189.04	2188.91
40.0	2172.29	2141.60	2128.00	2119.31	2101.80	2084.87	2093.50	2092.32	2093.80	2091.43
42.5	2077.37	2036.10	2023.47	2016.92	2018.49	2007.29	1997.94	1996.07	1991.31	1986.17
45.0	1986.30	1949.48	1929.58	1929.20	1910.16	1897.10	1888.82	1877.42	1873.62	1885.44
47.5	1882.08	1851.91	1841.81	1818.07	1802.01	1791.12	1775.02	1755.49	1760.71	1767.23
50.0	1774.40	1740.16	1725.41	1716.90	1692.84	1672.92	1648.16	1625.73	1613.70	1630.66
52.5	1663.05	1647.14	1633.54	1609.81	1590.28	1559.80	1533.27	1495.48	1492.17	1506.15
55.0	1561.26	1538.55	1524.91	1515.28	1485.75	1442.94	1389.55	1349.82	1337.49	1363.51
57.5	1445.41	1423.86	1421.94	1405.09	1358.88	1318.59	1264.17	1217.44	1201.40	1209.47
60.0	1335.16	1320.14	1314.93	1289.35	1249.17	1204.68	1126.87	1073.12	1051.89	1071.34
62.5	1237.81	1212.11	1202.82	1178.75	1142.67	1066.50	991.17	930.53	910.70	934.36
65.0	1127.95	1104.91	1095.78	1066.11	1028.95	946.58	863.86	804.42	782.18	801.48
67.5	1009.42	999.15	984.51	947.63	909.32	831.91	740.61	678.63	650.27	673.04
70.0	888.69	885.44	873.67	845.36	789.95	720.43	630.35	558.48	533.88	558.66
72.5	777.71	776.65	758.04	735.33	686.26	611.17	524.52	455.43	424.78	457.92
75.0	665.63	661.95	648.38	624.08	576.78	506.85	423.27	360.08	340.52	361.93
77.5	552.98	551.23	535.43	521.20	480.84	411.88	346.76	281.72	257.80	281.31
80.0	448.37	438.06	432.29	422.02	389.87	331.97	272.48	212.00	186.86	211.62

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CANDELA TABULATION - (Cont.)

82.5	353.31	348.21	344.00	332.33	301.76	255.14	204.81	158.19	135.18	155.10
85.0	267.22	273.47	267.16	255.99	232.16	196.66	152.72	115.92	95.61	117.52
87.5	213.48	208.86	206.16	201.79	177.78	146.91	112.84	83.14	66.24	82.85
90.0	159.39	165.24	158.80	149.62	135.77	110.22	82.39	56.78	41.69	57.23
92.5	120.61	119.83	118.36	113.01	103.11	80.02	59.55	37.82	27.22	37.93
95.0	91.64	91.00	88.57	84.49	75.14	60.79	42.95	26.10	20.34	25.92
97.5	73.26	73.02	69.80	63.82	56.00	44.02	31.53	18.53	15.25	18.36
100.0	56.84	59.01	56.28	50.93	41.66	31.55	23.19	14.74	11.61	14.14
102.5	46.69	45.80	43.28	38.43	31.47	24.23	17.10	11.54	10.49	11.02
105.0	38.43	38.86	36.29	31.11	24.87	19.51	12.89	9.27	8.05	9.14
107.5	31.81	31.15	28.68	24.47	19.33	14.82	10.45	8.50	7.73	8.50
110.0	27.16	25.91	23.85	18.22	15.49	10.74	7.67	7.63	7.55	7.52
112.5	21.66	20.79	17.53	13.95	11.28	8.15	7.03	5.96	6.64	6.65
115.0	18.16	16.29	13.54	11.65	8.06	6.51	5.91	5.92	5.55	5.45
117.5	14.04	12.68	11.50	8.08	5.97	4.68	5.01	4.82	4.31	5.10
120.0	10.08	10.41	7.84	5.84	3.79	3.49	4.07	3.92	3.31	3.76
122.5	7.62	6.91	5.58	4.12	2.63	2.64	3.15	3.61	3.32	3.35
125.0	6.04	5.15	3.58	2.47	1.49	2.07	2.33	3.42	2.81	2.91
127.5	3.94	4.09	2.12	1.45	0.97	1.78	2.11	2.06	1.71	1.82
130.0	3.08	1.93	1.31	0.28	0.71	0.86	1.14	1.26	1.67	1.59
132.5	1.11	0.88	0.27	0.14	0.25	0.67	0.95	1.21	1.02	0.92
135.0	0.56	0.17	0.03	0.12	0.21	0.43	0.67	0.71	0.83	0.71
137.5	0.07	0.00	0.00	0.00	0.17	0.28	0.40	0.42	0.42	0.47
140.0	0.00	0.00	0.00	0.00	0.05	0.07	0.12	0.10	0.13	0.19
142.5	0.00	0.00	0.00	0.00	0.00	0.03	0.09	0.05	0.06	0.23
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
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	2969.99	2969.99	2969.99	2969.99	2969.99	2969.99	2969.99	2969.99	2969.99	2969.99
2.5	2938.79	2915.29	2905.18	2980.80	2964.12	3003.75	2904.49	2919.79	2921.90	2905.67
5.0	2927.00	2886.00	2898.52	2888.92	2900.62	2953.78	2906.19	2902.76	2917.80	2927.19
7.5	2939.69	2872.85	2928.95	2869.32	2891.22	2871.65	2884.55	2859.41	2907.88	2841.38
10.0	2861.40	2836.23	2867.79	2865.15	2847.78	2851.75	2851.84	2834.55	2852.43	2857.53
12.5	2811.58	2841.08	2846.55	2803.93	2810.73	2834.59	2848.38	2823.18	2821.65	2827.27
15.0	2798.59	2807.12	2802.90	2810.74	2790.15	2803.04	2775.13	2782.68	2773.74	2773.42
17.5	2751.83	2749.24	2737.44	2750.78	2773.49	2754.05	2756.11	2741.91	2741.83	2755.10
20.0	2675.40	2688.18	2684.68	2691.47	2697.38	2700.30	2684.48	2704.00	2695.64	2695.73
22.5	2650.09	2641.09	2630.37	2649.86	2633.54	2636.85	2663.77	2669.26	2673.33	2628.69
25.0	2574.89	2580.42	2582.89	2573.89	2578.51	2603.87	2595.93	2613.76	2615.73	2596.94
27.5	2497.12	2509.51	2506.12	2523.66	2529.17	2531.66	2546.32	2557.35	2546.58	2518.52

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

30.0	2421.56	2432.00	2441.39	2461.96	2462.53	2469.59	2488.39	2497.51	2479.66	2462.37
32.5	2362.95	2357.11	2370.96	2366.99	2385.44	2410.31	2422.39	2427.33	2420.93	2382.65
35.0	2275.92	2287.71	2283.98	2289.44	2307.28	2339.45	2334.07	2334.59	2339.61	2296.76
37.5	2188.92	2182.55	2191.36	2199.51	2199.70	2273.37	2264.62	2276.32	2264.02	2230.70
40.0	2095.67	2081.63	2109.33	2122.85	2115.02	2143.53	2174.75	2176.46	2167.42	2132.02
42.5	1980.21	1994.12	2014.36	2016.07	2042.87	2061.00	2068.13	2105.59	2070.49	2033.74
45.0	1881.45	1884.69	1896.94	1922.28	1940.32	1948.98	1993.57	1998.19	1967.16	1942.27
47.5	1775.61	1783.01	1802.78	1823.03	1830.37	1852.50	1882.48	1896.87	1869.55	1832.55
50.0	1658.31	1686.36	1708.39	1707.98	1732.56	1749.13	1774.25	1802.16	1762.49	1738.73
52.5	1529.56	1553.73	1587.68	1606.76	1630.42	1651.57	1663.42	1680.83	1657.14	1637.82
55.0	1396.96	1433.81	1470.78	1503.20	1524.90	1543.30	1554.90	1573.37	1544.71	1533.37
57.5	1255.80	1323.14	1367.66	1395.53	1423.43	1427.13	1442.46	1461.69	1438.40	1414.22
60.0	1125.44	1200.45	1246.15	1283.93	1307.17	1331.23	1334.84	1358.06	1336.23	1311.13
62.5	997.96	1067.63	1129.94	1173.86	1195.33	1214.48	1233.82	1245.73	1230.79	1208.60
65.0	864.92	953.54	1015.45	1071.14	1088.40	1109.02	1121.52	1136.13	1106.75	1090.54
67.5	747.35	835.54	910.36	958.89	980.47	994.91	1013.36	1023.46	1007.24	985.95
70.0	628.43	720.60	792.86	851.13	869.93	887.31	900.53	910.80	896.09	885.43
72.5	523.78	609.97	686.14	740.46	759.99	766.52	775.30	796.75	772.23	767.03
75.0	429.37	506.24	580.77	626.35	650.28	653.58	661.96	669.15	657.53	652.64
77.5	343.25	416.02	481.98	522.39	538.99	544.25	544.21	552.68	548.31	539.02
80.0	267.51	328.55	389.99	419.04	433.30	438.61	449.88	449.36	441.40	435.26
82.5	206.21	257.32	302.18	333.77	346.52	350.26	347.34	354.04	350.26	345.88
85.0	154.15	198.66	235.04	255.14	269.62	275.69	272.29	273.13	275.48	268.11
87.5	111.18	146.51	178.01	199.77	209.03	209.13	211.23	209.34	212.10	207.64
90.0	80.76	107.95	134.78	148.59	158.21	162.09	160.12	158.38	157.31	159.74
92.5	56.41	80.14	98.91	115.43	120.25	124.33	122.07	120.71	123.24	121.56
95.0	41.37	59.35	76.47	84.80	89.04	91.67	93.28	92.95	94.29	93.16
97.5	29.57	43.83	57.80	63.63	72.86	71.19	72.09	71.37	70.69	71.35
100.0	22.75	30.85	43.50	49.32	55.27	58.78	57.69	57.85	58.85	58.14
102.5	15.94	23.78	32.15	38.68	44.87	46.15	47.75	47.09	47.14	46.35
105.0	12.53	18.62	24.79	30.23	33.68	38.76	39.70	38.71	38.98	38.29
107.5	9.50	15.23	18.86	24.71	27.69	31.17	32.02	31.83	32.71	30.97
110.0	8.29	11.89	14.15	18.63	21.81	25.90	26.89	26.28	27.44	25.58
112.5	7.13	9.13	10.62	14.56	17.83	20.47	22.20	22.71	21.06	20.84
115.0	5.93	5.74	7.74	10.28	13.24	15.83	17.24	17.98	18.23	16.92
117.5	4.90	4.38	6.00	7.86	11.02	12.86	14.73	15.01	13.62	13.08
120.0	4.62	2.98	4.17	5.37	7.51	10.22	11.23	10.65	10.70	9.59
122.5	3.17	2.53	2.48	3.56	5.62	6.48	8.08	8.25	7.87	7.04
125.0	2.62	1.82	1.49	2.26	3.91	4.95	5.40	6.57	5.74	4.99
127.5	1.55	1.50	0.57	0.92	2.11	3.48	4.61	4.55	4.13	3.34
130.0	1.12	1.03	0.41	0.32	1.03	2.07	2.49	2.59	2.34	2.15
132.5	1.14	0.64	0.31	0.27	0.30	0.61	1.19	1.35	1.24	0.83
135.0	0.58	0.28	0.11	0.11	0.04	0.10	0.39	0.57	0.43	0.22
137.5	0.30	0.30	0.12	0.08	0.00	0.00	0.00	0.05	0.00	0.00
140.0	0.17	0.20	0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.00
142.5	0.14	0.01	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	0.00	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	2969.99	2969.99	2969.99	2969.99	2969.99	2969.99	2969.99
2.5	2902.22	2933.90	2881.35	2995.62	2919.85	2908.96	2953.27
5.0	2898.15	2852.17	2954.70	2878.70	2948.74	2898.07	2919.33
7.5	2857.17	2884.20	2878.61	2878.37	2878.74	2884.45	2883.51
10.0	2897.26	2844.10	2859.61	2817.01	2851.55	2851.08	2875.72
12.5	2797.12	2831.81	2807.83	2808.53	2832.76	2814.58	2796.47
15.0	2797.13	2808.31	2774.01	2786.91	2745.75	2764.81	2768.40
17.5	2741.27	2742.84	2716.63	2707.80	2708.94	2729.06	2729.11
20.0	2690.97	2682.40	2666.48	2669.99	2681.59	2672.06	2656.76
22.5	2647.99	2630.67	2618.81	2605.30	2579.26	2590.65	2607.73
25.0	2573.75	2541.99	2554.63	2546.24	2536.82	2537.66	2521.38
27.5	2498.41	2506.76	2464.48	2488.63	2490.59	2487.08	2458.29
30.0	2437.96	2411.36	2408.58	2403.95	2412.01	2378.62	2376.36
32.5	2342.46	2337.00	2336.48	2329.86	2333.28	2327.59	2326.45
35.0	2292.13	2255.10	2241.49	2250.40	2237.09	2225.99	2239.79
37.5	2203.71	2163.49	2160.83	2146.31	2143.49	2143.58	2132.63
40.0	2085.82	2070.86	2066.62	2041.07	2051.94	2049.75	2051.67
42.5	2009.71	1984.67	1967.39	1958.88	1945.01	1943.90	1953.76
45.0	1913.75	1898.81	1878.12	1863.04	1844.28	1828.38	1823.08
47.5	1812.15	1792.37	1779.93	1733.87	1723.69	1718.08	1702.23
50.0	1700.97	1683.81	1671.01	1628.07	1598.86	1585.89	1564.34
52.5	1602.84	1579.57	1562.22	1523.05	1471.25	1455.41	1433.71
55.0	1509.47	1473.95	1442.00	1407.01	1342.32	1303.47	1294.04
57.5	1405.60	1366.89	1324.11	1273.43	1218.82	1165.72	1147.68
60.0	1292.35	1265.31	1214.47	1153.36	1082.46	1015.01	996.41
62.5	1191.82	1149.94	1107.71	1025.03	949.25	885.60	855.27
65.0	1079.84	1041.45	998.91	911.83	815.70	749.62	715.95
67.5	969.24	929.15	876.73	783.50	696.28	617.09	590.38
70.0	861.40	817.81	763.67	678.77	580.25	500.57	473.93
72.5	742.72	711.73	659.38	573.68	475.77	400.11	370.44
75.0	644.08	610.04	555.57	474.68	386.48	312.95	286.40
77.5	531.17	498.77	459.86	385.43	305.66	240.64	211.23
80.0	422.60	411.38	364.80	303.65	238.46	175.93	154.62
82.5	334.33	322.92	288.32	234.86	184.63	133.26	104.85
85.0	264.67	252.39	224.31	177.14	136.42	94.13	76.11
87.5	206.26	194.92	168.63	136.14	101.38	67.49	51.37
90.0	156.33	149.95	127.10	101.21	71.84	46.47	31.43
92.5	118.84	110.98	96.83	74.11	51.11	31.79	19.65
95.0	90.48	80.05	72.36	54.27	35.62	19.13	14.22
97.5	68.14	62.15	54.17	40.40	26.28	15.05	11.77
100.0	54.39	49.10	39.65	29.92	17.80	9.65	8.29
102.5	43.51	37.82	30.02	20.34	12.84	7.58	6.91
105.0	33.78	27.48	23.38	15.38	8.74	5.97	6.41
107.5	27.13	22.41	15.95	11.36	6.25	5.26	5.06
110.0	21.33	17.09	12.99	8.21	4.89	4.49	3.80
112.5	17.36	13.34	9.44	5.09	4.14	3.69	3.57
115.0	13.26	10.78	6.17	3.33	2.87	3.42	3.21

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CANDELA TABULATION - (Cont.)

117.5	10.58	7.37	4.63	2.12	2.46	2.87	2.48
120.0	7.73	4.82	2.04	1.57	1.86	2.07	1.97
122.5	4.71	3.27	1.51	1.30	1.66	1.58	1.87
125.0	3.75	1.91	0.67	0.85	1.30	1.12	1.18
127.5	2.37	0.61	0.28	0.42	1.07	1.00	1.41
130.0	0.97	0.38	0.38	0.49	0.62	0.66	0.87
132.5	0.18	0.11	0.13	0.45	0.35	0.51	0.71
135.0	0.00	0.04	0.10	0.26	0.24	0.37	0.39
137.5	0.00	0.04	0.09	0.09	0.11	0.14	0.11
140.0	0.00	0.00	0.07	0.03	0.14	0.15	0.20
142.5	0.00	0.00	0.00	0.00	0.00	0.03	0.05
145.0	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
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

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1062.97	N.A.	12.70
0-30	2250.05	N.A.	26.90
0-40	3678.84	N.A.	44.00
0-60	6452.48	N.A.	77.10
0-80	8003.48	N.A.	95.70
0-90	8245.1	N.A.	98.60
10-90	7968.67	N.A.	95.30
20-40	2615.87	N.A.	31.30
20-50	4086.2	N.A.	48.80
40-70	3748.73	N.A.	44.80
60-80	1550.99	N.A.	18.50
70-80	575.91	N.A.	6.90
80-90	241.63	N.A.	2.90
90-110	106.73	N.A.	1.30
90-120	117.12	N.A.	1.40
90-130	120.07	N.A.	1.40
90-150	120.42	N.A.	1.40
90-180	120.42	N.A.	1.40
110-180	13.69	N.A.	0.20
0-180	8365.53	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	276.44
10-20	786.53
20-30	1187.09
30-40	1428.79
40-50	1470.32
50-60	1303.32
60-70	975.08
70-80	575.91
80-90	241.63
90-100	79.11
100-110	27.62
110-120	10.39
120-130	2.94
130-140	0.35
140-150	0.01
150-160	0.00
160-170	0.00
170-180	0.00

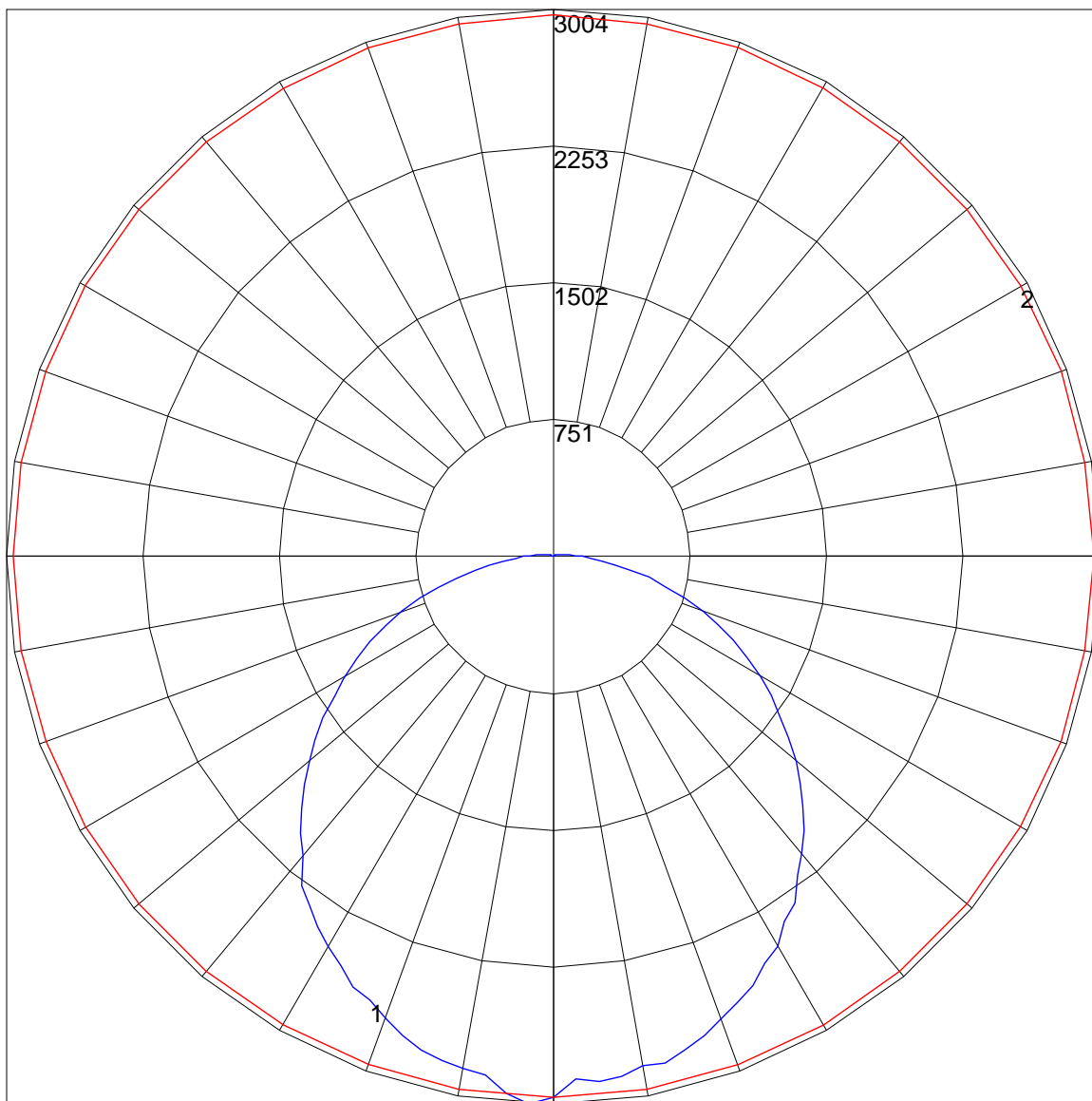
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	29	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 = 3003.75 Located At Horizontal Angle = 250, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (250 - 70) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0)