



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LED4HTMOWT35120V-277V-FL_S.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TESTLAB] Photopia 2017.0.4 see: www.ltioptics.com/ies

[ISSUEDATE]

[TESTDATE] Wed Jun 28 17:13:56 2017

[MANUFAC] BEGHELLI

[LUMINAIRE] BS100LED4HTMOWT35120V-277V-FL

[LAMP] LED 0.195W White 5630 package (65mA)

[LAMPCAT] SPMWHT541MP5WAT0S5

[OTHER] Indoor Photometric Report

[OTHER] LUMINAIRE PROPERTIES

[OTHER] Number of lamps: 180

[OTHER] Lumens per lamp: 38.9

[OTHER] Input watts: 60

[OTHER] Distribution: Direct

[OTHER] Symmetry: None

[OTHER] Photometric Type: C

[OTHER] Luminous shape: Rectangle

[OTHER] Luminous dimensions (feet)

[OTHER] 0 - 180 Axis: 4.2

[OTHER] 90 - 270 Axis: 0.6

[OTHER] Height: 0.3

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6615
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	60
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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : BS100LED4HTMOWT35120V-277V-FL_S.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8345	6442	6340
55	7106	5408	5337
65	5089	4289	4277
75	3003	2944	2959
85	1583	1560	1501

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0.0	2329.04	2329.04	2329.04	2329.04	2329.04	2329.04	2329.04	2329.04	2329.04	2329.04
2.5	2307.35	2343.55	2302.08	2330.28	2336.78	2323.69	2293.40	2278.57	2351.24	2340.32
5.0	2313.35	2297.59	2288.06	2306.53	2289.10	2314.34	2272.51	2301.37	2281.12	2279.88
7.5	2276.64	2264.31	2278.28	2301.62	2275.91	2263.58	2291.28	2285.43	2306.31	2241.97
10.0	2239.41	2228.63	2250.84	2276.31	2239.17	2242.36	2256.41	2280.48	2245.14	2272.92
12.5	2234.61	2213.04	2199.09	2220.12	2220.04	2232.82	2230.68	2227.09	2249.43	2245.77
15.0	2161.55	2203.57	2184.65	2189.37	2176.43	2180.03	2200.21	2206.05	2201.80	2212.14
17.5	2144.72	2134.78	2138.57	2154.62	2157.63	2166.87	2154.29	2170.43	2162.02	2150.99
20.0	2108.31	2108.89	2103.35	2119.53	2117.85	2130.76	2145.90	2121.71	2122.80	2132.60
22.5	2058.08	2072.41	2058.05	2060.62	2067.62	2080.07	2094.36	2087.16	2103.45	2100.26
25.0	2014.80	2009.15	2012.76	2002.56	2023.25	2019.26	2025.17	2042.34	2069.41	2065.41
27.5	1964.68	1960.76	1952.57	1942.05	1956.82	1961.79	1969.98	1988.30	2008.54	2011.53
30.0	1904.09	1886.30	1874.47	1901.29	1909.72	1910.14	1916.17	1939.05	1952.04	1976.10
32.5	1835.41	1831.97	1834.90	1851.08	1836.88	1855.06	1865.16	1878.33	1905.88	1907.76
35.0	1753.88	1774.05	1772.34	1779.82	1778.99	1783.95	1801.76	1823.06	1844.41	1854.94
37.5	1687.08	1705.37	1703.00	1693.71	1699.99	1724.93	1730.76	1755.61	1782.74	1789.26
40.0	1612.85	1614.96	1629.32	1619.05	1630.71	1652.52	1663.19	1677.84	1718.74	1733.59
42.5	1537.26	1539.21	1540.97	1541.71	1566.11	1575.13	1587.22	1603.17	1639.28	1643.08
45.0	1444.08	1447.74	1459.34	1462.94	1488.82	1505.31	1511.28	1525.03	1562.97	1583.72
47.5	1347.11	1360.83	1369.21	1385.75	1398.99	1421.62	1433.33	1456.15	1480.30	1508.84
50.0	1242.48	1258.48	1279.65	1301.11	1319.71	1338.96	1350.85	1367.44	1394.44	1407.22
52.5	1131.97	1151.23	1166.64	1197.25	1230.31	1251.86	1276.94	1285.43	1307.91	1328.10
55.0	1027.79	1034.58	1068.60	1112.36	1142.01	1165.90	1184.56	1203.95	1235.55	1246.40
57.5	909.06	916.39	966.21	1018.05	1053.87	1081.29	1106.85	1112.71	1133.76	1145.92
60.0	786.99	806.88	856.10	909.48	959.88	1000.83	1024.86	1038.51	1058.53	1066.62
62.5	674.54	699.92	752.74	814.84	871.45	908.96	936.18	953.64	970.59	984.10
65.0	569.03	586.91	651.61	714.38	783.34	828.37	851.02	864.42	883.83	899.00
67.5	468.06	493.88	544.50	622.58	698.11	733.52	764.94	779.85	796.53	809.60
70.0	372.08	401.61	459.64	537.29	605.95	650.88	684.67	696.26	704.56	718.05
72.5	294.12	315.94	374.59	454.21	522.30	564.24	588.10	600.86	610.53	621.82
75.0	227.03	247.69	303.27	377.60	438.73	483.86	503.21	514.57	522.62	533.95
77.5	168.94	190.21	242.27	307.32	363.29	396.78	416.86	424.71	431.03	436.26
80.0	121.64	141.78	186.75	241.56	291.42	325.87	341.39	345.20	351.16	359.92
82.5	85.20	103.02	143.62	186.55	230.91	256.25	270.78	273.38	276.95	275.96
85.0	58.70	75.62	109.80	143.76	178.88	197.65	210.58	212.00	215.51	217.97
87.5	40.34	52.43	79.20	105.76	132.88	153.04	164.45	166.13	166.90	165.48
90.0	24.20	35.78	56.37	81.00	99.81	117.33	123.28	124.17	124.86	127.24
92.5	16.32	24.83	41.41	58.92	76.83	88.14	93.43	95.98	95.29	92.90
95.0	11.07	16.09	27.98	43.59	57.79	68.06	70.43	72.82	73.45	74.55
97.5	8.76	11.05	19.86	31.02	42.27	51.26	55.15	58.15	57.38	57.16
100.0	6.55	8.12	14.44	23.28	31.53	37.85	42.45	44.65	47.63	46.21
102.5	5.54	5.81	9.96	16.87	25.11	28.95	34.26	37.42	36.25	37.67
105.0	4.89	4.93	7.40	13.24	18.48	22.76	27.35	29.75	30.51	31.12
107.5	3.92	4.03	5.05	9.46	13.72	17.96	21.32	24.78	24.65	25.68
110.0	3.30	3.89	3.87	6.16	9.07	14.15	17.12	20.19	21.82	21.30
112.5	3.32	3.44	3.05	4.37	6.79	10.53	13.95	16.18	17.34	18.28
115.0	2.87	2.57	2.26	3.28	5.44	8.02	10.59	13.12	14.24	13.91
117.5	2.08	1.74	1.88	2.12	3.49	5.31	7.86	9.97	11.40	11.12
120.0	2.04	1.74	1.42	1.23	1.92	4.00	6.08	7.49	8.90	9.08
122.5	1.26	1.25	1.22	0.78	1.06	3.13	4.13	5.90	6.20	7.10
125.0	1.10	0.94	0.88	0.61	0.57	1.27	3.18	4.68	4.46	5.50
127.5	0.62	0.65	0.78	0.47	0.36	0.70	1.67	2.94	3.81	3.16
130.0	0.60	0.56	0.60	0.30	0.19	0.20	0.86	1.34	2.39	2.40
132.5	0.52	0.43	0.31	0.26	0.21	0.04	0.41	1.02	1.55	1.42

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CANDELA TABULATION - (Cont.)

135.0	0.30	0.23	0.27	0.20	0.11	0.03	0.00	0.27	0.55	0.48
137.5	0.10	0.15	0.09	0.07	0.04	0.00	0.00	0.00	0.07	0.10
140.0	0.14	0.12	0.02	0.04	0.00	0.04	0.00	0.00	0.00	0.00
142.5	0.06	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.02	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	2329.04	2329.04	2329.04	2329.04	2329.04	2329.04	2329.04	2329.04	2329.04	2329.04
2.5	2313.58	2336.27	2327.79	2346.81	2275.56	2322.20	2317.18	2378.87	2324.64	2302.00
5.0	2294.33	2321.72	2318.42	2303.07	2316.75	2296.83	2353.08	2318.33	2303.28	2300.73
7.5	2286.43	2288.59	2322.30	2276.17	2306.47	2307.38	2277.64	2289.32	2320.41	2282.66
10.0	2282.28	2278.19	2250.04	2273.53	2240.81	2254.70	2301.51	2290.09	2261.50	2268.37
12.5	2243.80	2253.17	2219.43	2219.62	2220.70	2233.63	2244.25	2237.85	2252.55	2249.17
15.0	2210.34	2218.56	2221.33	2201.44	2199.69	2176.67	2191.29	2217.10	2217.61	2206.84
17.5	2179.40	2188.46	2171.49	2171.57	2159.72	2172.08	2162.94	2168.63	2161.88	2167.06
20.0	2137.76	2131.73	2138.58	2128.41	2129.43	2138.71	2122.93	2151.96	2122.80	2120.27
22.5	2116.87	2096.72	2086.14	2104.62	2095.07	2083.13	2088.04	2088.31	2095.60	2088.15
25.0	2058.29	2061.18	2033.63	2039.15	2055.10	2044.67	2026.18	2051.04	2037.73	2036.74
27.5	2006.94	2006.63	1996.25	1991.23	1988.96	1983.90	1978.79	1970.34	1966.77	1971.49
30.0	1978.86	1963.76	1951.82	1929.51	1942.70	1921.47	1929.55	1925.60	1912.17	1923.49
32.5	1915.89	1896.65	1880.51	1876.01	1858.53	1875.46	1859.90	1864.53	1863.33	1877.92
35.0	1851.19	1835.38	1816.94	1819.57	1817.99	1808.12	1796.95	1790.62	1814.18	1793.94
37.5	1781.10	1764.58	1754.46	1744.86	1738.21	1732.09	1737.57	1724.96	1739.35	1731.42
40.0	1725.21	1693.44	1678.42	1667.75	1659.46	1665.61	1637.69	1663.10	1650.72	1655.93
42.5	1648.58	1622.31	1612.88	1597.29	1582.17	1571.89	1583.37	1572.16	1573.69	1563.41
45.0	1571.69	1544.56	1536.54	1515.81	1511.69	1495.19	1488.10	1479.64	1483.65	1483.26
47.5	1489.33	1480.96	1450.14	1443.26	1431.35	1414.10	1404.64	1386.86	1392.51	1393.65
50.0	1407.15	1386.23	1377.75	1352.59	1339.22	1324.42	1308.74	1294.15	1272.54	1296.25
52.5	1323.64	1296.81	1293.14	1276.25	1257.25	1236.46	1208.05	1183.57	1175.35	1184.06
55.0	1228.84	1226.11	1209.37	1186.16	1170.62	1135.06	1094.02	1076.44	1062.57	1075.93
57.5	1139.00	1127.46	1122.25	1111.80	1077.75	1039.55	997.80	959.55	942.63	966.23
60.0	1064.25	1056.58	1037.08	1030.87	979.27	948.67	895.15	843.70	836.62	848.06
62.5	973.87	962.10	947.36	927.05	897.70	847.40	786.85	742.28	722.14	735.10
65.0	887.15	868.24	862.65	847.12	810.27	750.54	685.79	632.84	614.33	633.59
67.5	801.52	795.92	775.84	760.42	718.68	659.84	587.02	533.56	517.88	531.03
70.0	715.18	701.82	691.31	668.59	627.51	565.39	504.38	440.73	420.84	440.63
72.5	620.28	614.84	597.18	583.26	539.54	485.04	410.64	358.66	340.50	356.41
75.0	526.27	523.04	513.98	495.13	459.99	401.07	337.88	286.66	266.15	285.07
77.5	434.27	429.73	421.86	411.10	379.38	327.17	268.44	223.05	200.61	223.86
80.0	346.71	345.13	345.04	330.31	304.73	260.92	210.76	169.39	151.99	169.58

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CANDELA TABULATION - (Cont.)

82.5	274.74	275.87	272.65	264.03	240.72	201.90	164.02	125.14	109.09	124.83
85.0	215.90	215.20	210.73	202.90	186.93	151.58	123.30	91.87	76.70	90.08
87.5	162.72	165.21	163.34	154.28	139.66	116.31	90.48	64.74	53.22	63.96
90.0	124.14	126.57	126.40	118.56	105.31	85.18	64.04	44.24	32.38	45.81
92.5	96.36	95.07	93.94	91.10	80.15	63.64	46.47	29.66	21.13	30.10
95.0	75.17	74.51	73.68	67.47	59.24	46.26	32.68	20.16	15.23	20.12
97.5	57.39	56.40	55.58	51.06	45.43	34.94	24.14	13.48	12.09	14.08
100.0	45.71	45.99	43.30	40.06	33.05	25.62	17.03	10.51	9.94	10.32
102.5	37.77	37.14	35.23	30.97	25.41	18.83	13.31	8.08	8.49	8.43
105.0	30.64	31.06	28.27	24.58	19.26	15.11	9.68	7.64	6.66	7.75
107.5	25.78	24.75	21.90	17.88	15.76	11.87	8.06	6.53	6.35	6.57
110.0	21.49	21.03	17.37	15.38	12.01	8.50	6.06	6.12	6.14	5.70
112.5	16.49	16.47	14.07	11.14	9.02	6.47	5.57	5.64	4.99	5.11
115.0	14.54	12.91	11.03	8.82	6.83	4.84	4.80	4.51	4.35	4.22
117.5	10.83	10.08	8.96	6.03	4.70	3.55	3.32	3.52	3.88	3.62
120.0	8.47	7.83	6.03	4.65	3.29	2.53	3.28	3.24	3.09	3.31
122.5	5.91	6.04	4.33	2.88	2.05	1.67	2.33	2.55	2.68	2.75
125.0	4.39	4.02	3.43	1.81	1.17	1.52	1.80	2.17	2.43	1.78
127.5	3.36	2.74	1.69	0.87	0.65	1.21	1.33	1.76	1.39	1.77
130.0	2.07	1.77	0.87	0.23	0.61	0.56	0.94	1.19	1.32	1.26
132.5	1.02	0.76	0.21	0.11	0.33	0.52	0.62	0.96	0.85	0.59
135.0	0.68	0.38	0.06	0.07	0.11	0.42	0.54	0.68	0.55	0.52
137.5	0.02	0.00	0.00	0.06	0.09	0.14	0.36	0.27	0.34	0.32
140.0	0.00	0.00	0.00	0.00	0.04	0.06	0.09	0.27	0.24	0.14
142.5	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.12	0.03	0.08
145.0	0.00	0.00	0.00	0.00	0.00	0.03	0.02	0.00	0.02	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	2329.04	2329.04	2329.04	2329.04	2329.04	2329.04	2329.04	2329.04	2329.04	2329.04
2.5	2338.60	2336.52	2291.83	2349.88	2321.66	2290.67	2309.54	2290.95	2281.41	2312.42
5.0	2346.08	2318.88	2316.27	2295.64	2313.89	2331.83	2297.17	2304.53	2297.47	2277.50
7.5	2280.15	2279.57	2272.16	2284.53	2276.89	2268.36	2293.56	2302.35	2248.57	2293.49
10.0	2270.62	2265.51	2269.95	2248.56	2261.63	2273.39	2239.78	2258.43	2228.83	2259.57
12.5	2245.16	2250.19	2226.16	2233.34	2236.23	2252.71	2244.33	2223.33	2226.51	2250.74
15.0	2200.87	2223.16	2225.35	2210.88	2199.27	2212.92	2210.39	2204.43	2199.41	2190.30
17.5	2159.04	2164.18	2171.86	2160.75	2163.79	2179.72	2170.05	2174.24	2159.36	2162.25
20.0	2133.01	2127.97	2136.46	2122.65	2147.77	2133.11	2131.82	2134.45	2141.51	2125.63
22.5	2067.99	2071.87	2103.66	2089.85	2066.76	2092.72	2108.34	2098.24	2097.30	2071.94
25.0	2045.75	2045.72	2056.41	2043.33	2035.15	2061.03	2063.56	2072.87	2067.73	2052.52
27.5	1981.66	1992.27	1986.11	1989.03	1986.53	2013.65	2021.37	2021.33	2001.36	2001.23

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CANDELA TABULATION - (Cont.)

30.0	1926.48	1930.06	1918.11	1932.68	1940.28	1960.61	1966.87	1973.59	1990.62	1951.56
32.5	1866.87	1872.70	1866.39	1874.08	1884.65	1907.90	1925.73	1929.01	1903.59	1895.56
35.0	1783.40	1796.81	1805.79	1812.32	1815.62	1843.99	1851.91	1859.55	1843.13	1817.19
37.5	1723.24	1733.40	1745.98	1747.61	1766.53	1758.60	1790.25	1796.09	1792.00	1750.84
40.0	1663.63	1644.94	1663.88	1672.56	1678.22	1703.86	1727.22	1716.94	1716.71	1689.75
42.5	1571.05	1574.68	1594.58	1596.24	1610.97	1623.27	1643.36	1645.42	1645.73	1609.52
45.0	1501.89	1494.82	1515.03	1523.85	1538.63	1542.43	1577.05	1580.51	1565.15	1529.53
47.5	1397.63	1417.64	1437.40	1438.09	1451.57	1470.01	1489.76	1497.99	1478.05	1451.04
50.0	1303.69	1322.79	1345.75	1370.74	1384.28	1383.03	1398.73	1417.56	1396.42	1361.98
52.5	1205.65	1230.61	1248.24	1286.73	1290.46	1302.89	1314.69	1329.45	1310.39	1290.71
55.0	1097.34	1135.97	1161.83	1189.77	1212.66	1215.76	1235.75	1234.08	1222.52	1209.69
57.5	991.74	1047.05	1079.37	1108.91	1120.65	1137.24	1146.96	1150.48	1136.07	1123.41
60.0	890.57	943.73	983.95	1016.03	1044.77	1046.08	1059.08	1060.68	1052.80	1033.31
62.5	784.70	845.37	898.10	934.77	957.42	963.22	974.64	990.36	969.10	956.81
65.0	682.83	754.42	808.45	842.95	860.08	875.60	892.75	902.34	880.91	867.99
67.5	584.79	657.07	724.79	759.36	784.64	789.45	802.84	806.78	789.96	779.25
70.0	494.79	567.10	624.02	669.43	688.76	709.29	706.66	718.02	706.44	696.16
72.5	410.38	486.65	541.71	589.88	597.46	606.45	619.69	622.81	612.50	611.44
75.0	337.65	403.70	457.80	491.90	511.58	518.17	527.01	528.45	523.96	507.37
77.5	269.98	324.93	377.82	413.21	429.58	434.41	432.82	438.61	432.38	424.79
80.0	213.72	261.19	306.72	334.67	339.15	349.70	347.50	355.41	352.67	344.54
82.5	163.51	201.63	240.97	264.61	273.20	276.08	276.91	277.94	275.79	270.70
85.0	121.06	153.96	182.63	204.43	211.96	214.60	219.50	215.64	210.76	211.39
87.5	89.35	115.02	139.27	160.37	161.27	164.28	167.10	166.32	165.74	168.31
90.0	64.48	84.85	105.42	120.75	125.93	128.60	126.87	127.20	126.07	124.97
92.5	47.08	63.96	79.61	87.74	94.83	93.99	95.31	92.87	95.37	94.34
95.0	33.19	47.22	59.88	69.01	71.82	73.94	73.77	74.74	72.21	72.65
97.5	24.31	34.48	45.70	52.47	55.20	56.12	56.59	57.69	57.38	55.03
100.0	17.46	27.13	34.12	38.74	42.84	44.54	44.35	46.22	45.60	46.23
102.5	13.35	19.54	25.40	30.67	35.41	36.16	36.82	37.31	37.33	36.66
105.0	9.57	14.50	20.54	24.50	27.81	30.44	31.68	31.85	30.33	30.09
107.5	7.60	11.56	15.71	18.63	22.95	26.09	26.00	25.34	24.91	25.31
110.0	6.47	8.87	11.76	14.36	18.59	19.23	21.16	22.01	22.05	20.22
112.5	5.35	6.43	8.45	11.60	14.16	16.62	17.44	16.73	18.25	16.15
115.0	5.11	4.77	6.87	8.24	11.45	13.39	13.88	14.13	14.06	12.66
117.5	4.18	3.87	4.76	6.68	9.02	9.99	11.78	11.05	10.80	10.32
120.0	3.48	3.01	3.35	4.93	6.61	7.79	8.46	9.68	8.87	7.83
122.5	2.48	2.25	1.87	2.79	4.80	5.68	6.27	6.71	6.27	5.51
125.0	1.52	1.64	1.33	1.71	3.00	4.00	4.10	4.58	4.34	4.02
127.5	1.45	1.04	0.72	1.05	2.06	2.62	3.35	3.03	3.45	2.93
130.0	1.07	0.90	0.52	0.34	0.66	1.62	2.05	2.30	1.99	1.41
132.5	0.72	0.60	0.31	0.11	0.24	0.69	0.93	1.04	1.23	0.82
135.0	0.53	0.31	0.19	0.12	0.02	0.10	0.43	0.44	0.50	0.08
137.5	0.16	0.15	0.05	0.00	0.00	0.00	0.00	0.00	0.02	0.00
140.0	0.13	0.09	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142.5	0.04	0.04	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	2329.04	2329.04	2329.04	2329.04	2329.04	2329.04	2329.04
2.5	2317.89	2307.93	2318.67	2291.03	2334.90	2349.28	2307.57
5.0	2290.39	2272.23	2288.83	2293.46	2295.35	2296.52	2313.52
7.5	2301.58	2287.55	2288.38	2287.87	2279.97	2295.30	2276.64
10.0	2251.27	2268.14	2249.99	2263.19	2245.10	2244.21	2239.50
12.5	2232.10	2242.74	2234.06	2226.85	2219.47	2232.58	2234.61
15.0	2200.43	2194.94	2191.59	2188.15	2178.51	2195.49	2161.55
17.5	2166.67	2156.68	2154.58	2154.13	2159.14	2153.65	2144.72
20.0	2122.74	2110.10	2118.72	2117.76	2089.99	2123.78	2108.34
22.5	2068.76	2083.80	2079.90	2065.41	2078.10	2063.34	2058.12
25.0	2009.24	2026.68	2011.49	2001.81	1990.95	1990.08	2014.80
27.5	1985.16	1968.40	1959.80	1966.34	1946.95	1949.51	1964.68
30.0	1916.95	1914.53	1898.87	1900.93	1895.26	1891.40	1904.09
32.5	1872.32	1856.00	1841.19	1850.42	1832.17	1830.86	1835.41
35.0	1808.81	1783.04	1776.57	1775.48	1760.43	1767.39	1753.90
37.5	1736.52	1722.82	1711.90	1694.16	1703.14	1691.97	1687.10
40.0	1664.98	1658.18	1638.65	1625.72	1629.58	1622.06	1612.85
42.5	1591.41	1585.54	1570.90	1548.41	1545.38	1534.61	1537.26
45.0	1521.23	1491.67	1493.02	1467.85	1457.41	1457.99	1444.09
47.5	1438.13	1429.62	1405.87	1392.67	1371.31	1348.40	1347.11
50.0	1354.68	1337.50	1325.87	1301.56	1262.78	1255.20	1242.50
52.5	1271.47	1245.87	1229.66	1207.51	1170.54	1155.91	1131.97
55.0	1185.68	1172.04	1143.94	1112.60	1061.15	1040.63	1027.79
57.5	1117.94	1088.89	1050.69	1013.69	960.04	921.08	909.06
60.0	1018.90	991.61	964.27	913.68	849.15	810.08	786.99
62.5	942.35	913.19	879.05	817.94	745.17	701.00	674.54
65.0	850.41	828.41	781.93	717.78	645.41	590.82	569.05
67.5	761.43	734.46	697.01	626.78	547.84	489.39	468.06
70.0	673.64	651.67	604.60	533.89	458.89	393.70	372.08
72.5	592.68	567.31	525.43	456.19	379.47	321.25	294.12
75.0	505.86	482.95	440.98	377.21	304.97	246.34	227.06
77.5	421.17	399.43	359.18	307.45	241.76	187.00	168.94
80.0	340.50	326.20	291.63	245.02	185.10	142.46	121.66
82.5	266.67	256.59	228.03	184.84	142.00	104.89	85.20
85.0	212.65	197.29	177.27	141.72	106.96	75.34	58.70
87.5	163.38	153.85	135.22	107.86	78.44	53.30	40.34
90.0	124.32	116.32	102.41	79.92	57.15	36.90	24.21
92.5	93.36	85.19	74.95	59.26	40.68	25.35	16.32
95.0	70.95	66.66	58.12	44.73	29.01	16.23	11.07
97.5	56.30	50.23	41.68	31.30	20.81	11.26	8.77
100.0	42.56	38.84	32.02	22.42	14.81	7.39	6.55
102.5	33.91	29.10	24.65	16.54	10.65	6.04	5.54
105.0	27.92	23.05	17.05	13.13	6.87	4.92	4.89
107.5	21.15	17.95	13.00	9.11	4.82	3.97	3.92
110.0	17.65	14.05	10.03	6.11	3.77	3.33	3.30
112.5	13.85	11.16	6.59	4.86	3.02	2.94	3.32
115.0	9.98	7.99	5.07	2.72	2.22	2.39	2.87

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CANDELA TABULATION - (Cont.)

117.5	9.00	5.10	3.52	2.07	1.89	2.15	2.08
120.0	5.66	4.00	2.25	1.12	1.73	1.84	2.04
122.5	4.48	2.49	1.06	0.88	1.37	1.34	1.26
125.0	3.07	1.28	0.64	0.65	0.89	1.38	1.10
127.5	1.49	0.53	0.26	0.66	0.55	0.80	0.62
130.0	0.73	0.14	0.17	0.30	0.56	0.76	0.60
132.5	0.16	0.02	0.16	0.26	0.40	0.51	0.52
135.0	0.00	0.02	0.13	0.15	0.26	0.33	0.30
137.5	0.00	0.02	0.02	0.07	0.19	0.26	0.10
140.0	0.00	0.00	0.00	0.08	0.08	0.05	0.14
142.5	0.00	0.00	0.00	0.02	0.00	0.01	0.06
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.02
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	839.47	N.A.	12.70
0-30	1777.56	N.A.	26.90
0-40	2907.22	N.A.	44.00
0-60	5101.24	N.A.	77.10
0-80	6328.22	N.A.	95.70
0-90	6519.3	N.A.	98.60
10-90	6300.73	N.A.	95.30
20-40	2067.76	N.A.	31.30
20-50	3231.19	N.A.	48.80
40-70	2965.35	N.A.	44.80
60-80	1226.98	N.A.	18.50
70-80	455.65	N.A.	6.90
80-90	191.08	N.A.	2.90
90-110	84.39	N.A.	1.30
90-120	92.65	N.A.	1.40
90-130	94.98	N.A.	1.40
90-150	95.28	N.A.	1.40
90-180	95.28	N.A.	1.40
110-180	10.88	N.A.	0.20
0-180	6614.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	218.57
10-20	620.90
20-30	938.09
30-40	1129.67
40-50	1163.44
50-60	1030.58
60-70	771.33
70-80	455.65
80-90	191.08
90-100	62.49
100-110	21.90
110-120	8.26
120-130	2.33
130-140	0.29
140-150	0.01
150-160	0.00
160-170	0.00
170-180	0.00

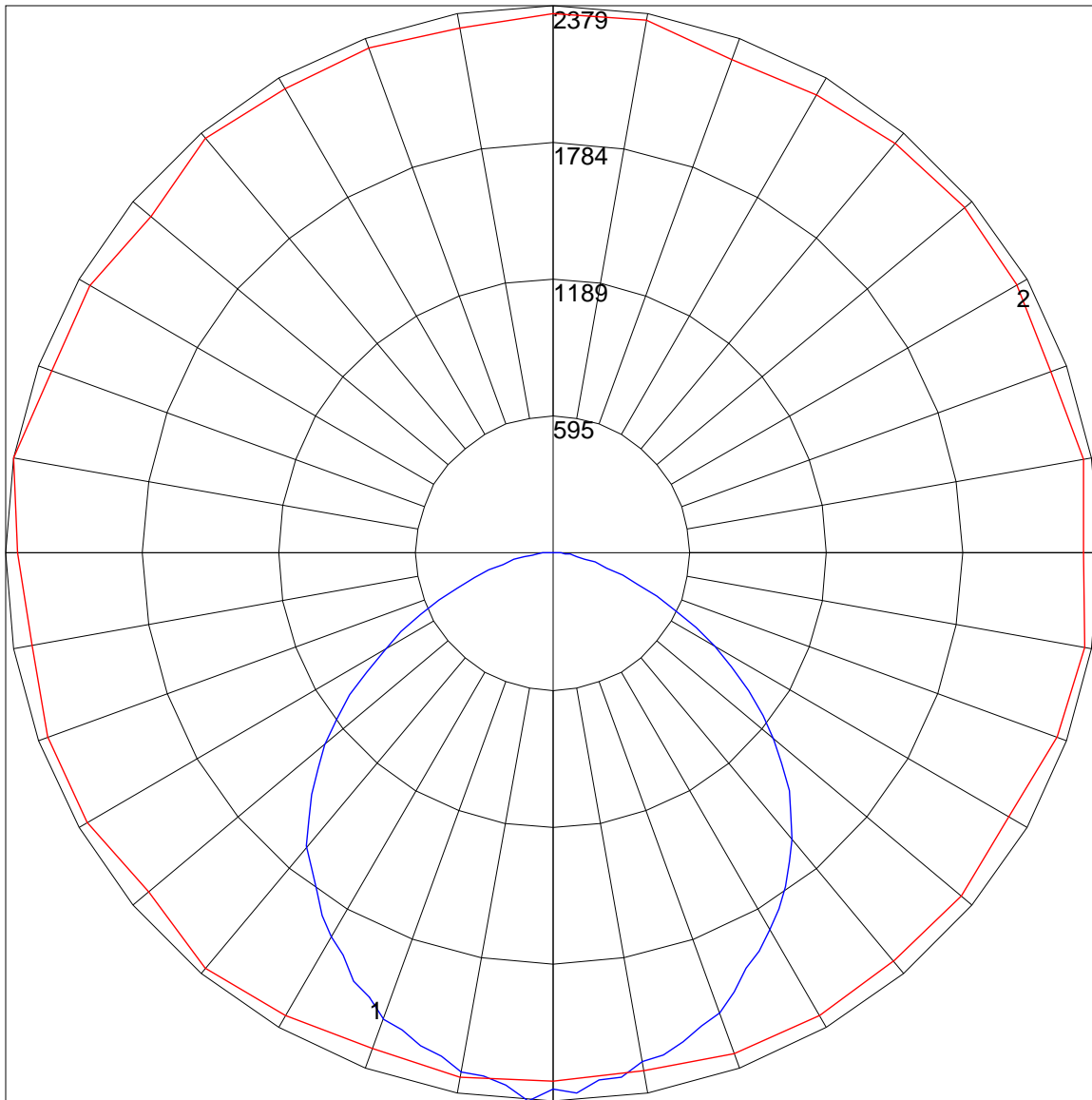
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	79	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 = 2378.87 Located At Horizontal Angle = 170, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (170 - 350) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)