



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LED4HTMOWT40120V-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 17:25:46 2017

[MANUFAC] BEGHELLI

[LUMINAIRE] BS100LED4HTMOWT40120V-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: 40.1

[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	6807
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
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 : BS100LED4HTMOWT40120V-277V-FL_S.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8551	6608	6507
55	7265	5596	5445
65	5283	4416	4378
75	3087	3021	3010
85	1693	1601	1514

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0.0	2413.03	2413.03	2413.03	2413.03	2413.03	2413.03	2413.03	2413.03	2413.03	2413.03
2.5	2311.08	2356.50	2310.83	2349.16	2417.00	2396.32	2367.40	2409.97	2413.93	2370.42
5.0	2359.18	2358.55	2394.91	2343.81	2364.67	2398.44	2329.95	2354.99	2395.92	2381.86
7.5	2340.63	2339.22	2338.46	2315.29	2334.21	2316.01	2350.82	2358.42	2333.67	2343.06
10.0	2297.42	2302.67	2308.43	2329.89	2309.28	2323.46	2317.49	2316.26	2338.56	2328.06
12.5	2317.35	2295.53	2297.44	2263.25	2273.04	2291.30	2289.40	2282.65	2302.04	2279.88
15.0	2254.69	2235.80	2244.52	2230.13	2263.58	2265.48	2269.61	2296.59	2258.88	2284.44
17.5	2219.21	2214.12	2220.25	2198.53	2236.42	2247.14	2233.88	2217.55	2246.20	2244.16
20.0	2159.77	2170.47	2179.71	2160.34	2175.45	2172.94	2197.27	2196.04	2194.85	2226.26
22.5	2109.87	2129.33	2109.58	2112.42	2116.13	2121.11	2135.71	2150.14	2176.02	2181.39
25.0	2074.14	2073.61	2049.83	2071.42	2075.03	2082.89	2093.92	2103.69	2132.63	2115.17
27.5	2003.58	2008.14	2016.12	2014.51	2011.95	2025.67	2038.43	2061.71	2079.45	2084.01
30.0	1950.28	1958.74	1944.38	1947.44	1958.37	1980.07	1983.14	2009.43	2013.88	2017.94
32.5	1891.78	1869.96	1894.73	1891.48	1892.83	1913.01	1926.11	1939.21	1967.80	1979.85
35.0	1816.06	1806.87	1819.61	1823.02	1821.56	1841.73	1863.22	1875.96	1896.20	1914.91
37.5	1748.79	1751.10	1755.94	1749.08	1760.21	1764.70	1784.78	1808.97	1820.91	1843.91
40.0	1673.37	1665.22	1678.20	1671.69	1685.27	1693.48	1715.12	1727.08	1764.35	1774.45
42.5	1578.44	1580.41	1578.31	1586.88	1615.66	1621.03	1630.76	1652.34	1686.07	1694.07
45.0	1479.74	1484.91	1508.19	1517.76	1536.11	1535.38	1559.59	1576.79	1610.87	1625.62
47.5	1388.53	1401.98	1405.40	1423.41	1446.43	1466.26	1471.68	1494.03	1524.98	1534.61
50.0	1287.19	1283.80	1304.55	1336.11	1354.26	1368.22	1397.70	1404.28	1436.67	1453.07
52.5	1172.64	1179.73	1204.32	1241.67	1268.66	1289.28	1309.23	1332.45	1353.07	1365.86
55.0	1050.78	1067.33	1091.11	1137.38	1179.27	1209.01	1232.66	1252.09	1271.80	1271.76
57.5	929.03	945.35	981.52	1039.15	1082.43	1116.18	1139.46	1152.51	1169.79	1186.63
60.0	817.98	831.86	876.23	941.64	995.62	1026.04	1049.62	1062.04	1079.38	1102.48
62.5	699.18	723.36	770.77	837.73	897.84	937.66	963.62	984.66	997.75	1010.13
65.0	590.73	604.27	672.60	742.57	808.10	851.42	875.42	889.04	908.48	920.25
67.5	480.66	500.98	569.63	645.10	711.99	760.05	788.85	800.30	819.82	827.62
70.0	384.58	408.56	469.71	553.46	626.61	669.01	693.75	710.87	725.76	740.98
72.5	303.42	327.00	388.43	468.60	537.81	577.02	605.13	623.34	632.65	645.08
75.0	233.37	252.40	314.22	389.14	451.95	494.86	517.74	525.70	535.33	543.26
77.5	173.14	193.45	250.70	312.71	371.30	411.93	431.37	434.13	443.28	453.61
80.0	124.13	144.93	192.60	250.03	300.16	330.24	347.58	355.27	359.21	369.17
82.5	89.53	105.82	147.46	192.39	236.34	262.74	273.36	280.05	283.32	287.36
85.0	62.78	77.19	109.90	146.66	182.65	203.77	214.55	218.93	221.99	219.85
87.5	42.77	55.18	79.16	111.41	138.92	159.24	163.93	169.60	171.15	169.29
90.0	25.57	37.06	57.70	82.54	104.97	121.12	128.59	128.90	128.05	130.83
92.5	15.73	24.25	42.18	60.90	76.74	90.34	97.06	98.89	97.26	95.65
95.0	11.66	16.19	29.70	45.33	59.47	69.58	74.81	76.78	74.27	74.27
97.5	8.85	10.54	21.31	32.78	43.22	52.08	57.22	57.97	58.34	58.39
100.0	7.12	7.56	15.50	22.07	32.27	39.65	45.09	46.96	45.95	47.31
102.5	5.96	6.51	10.15	17.59	24.22	31.44	35.20	38.09	38.36	37.49
105.0	4.83	5.02	7.15	12.11	17.84	24.28	27.70	31.01	32.21	33.35
107.5	4.08	4.26	5.26	9.08	13.73	18.47	21.33	24.43	27.00	26.05
110.0	3.85	3.52	3.82	6.53	10.33	13.43	18.12	20.45	21.11	21.90
112.5	2.85	2.81	3.06	5.02	7.21	10.48	13.57	17.16	17.59	18.76
115.0	2.53	2.72	2.36	2.99	5.33	7.75	11.95	13.67	14.78	14.49
117.5	2.06	1.87	2.24	1.95	3.98	6.08	8.58	10.37	11.22	11.40
120.0	1.70	1.90	1.93	1.37	2.05	4.41	5.73	8.21	8.76	9.25
122.5	1.17	1.22	1.32	1.06	1.08	2.53	4.28	5.48	7.00	7.44
125.0	1.02	1.05	1.09	0.89	0.53	1.78	2.72	4.22	4.75	5.11
127.5	0.92	0.95	0.87	0.42	0.27	0.55	1.92	3.09	3.53	3.69
130.0	0.63	0.55	0.48	0.46	0.22	0.19	1.01	1.52	2.34	2.28
132.5	0.46	0.43	0.42	0.36	0.17	0.06	0.24	0.69	1.13	1.36

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CANDELA TABULATION - (Cont.)

135.0	0.48	0.19	0.22	0.06	0.04	0.02	0.02	0.12	0.55	0.53
137.5	0.16	0.08	0.12	0.10	0.05	0.04	0.00	0.00	0.02	0.05
140.0	0.15	0.06	0.09	0.00	0.00	0.02	0.00	0.00	0.00	0.00
142.5	0.06	0.02	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
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	2413.03	2413.03	2413.03	2413.03	2413.03	2413.03	2413.03	2413.03	2413.03	2413.03
2.5	2385.46	2402.63	2327.71	2316.15	2436.68	2360.89	2376.37	2418.01	2372.07	2330.23
5.0	2388.23	2431.30	2361.19	2372.98	2380.07	2380.46	2379.13	2387.38	2364.41	2428.90
7.5	2350.08	2337.17	2370.26	2343.33	2366.69	2349.93	2363.30	2335.40	2354.31	2346.40
10.0	2335.00	2344.64	2320.39	2313.47	2331.09	2334.45	2329.71	2348.28	2336.70	2351.97
12.5	2299.00	2312.87	2310.15	2288.95	2305.62	2298.50	2289.47	2317.98	2319.58	2306.04
15.0	2258.41	2297.43	2283.58	2281.62	2259.96	2253.24	2259.87	2281.60	2276.23	2269.92
17.5	2254.66	2239.83	2251.78	2240.74	2242.80	2238.79	2224.56	2231.46	2232.78	2235.48
20.0	2199.59	2190.27	2210.05	2181.20	2180.92	2194.01	2184.84	2196.50	2187.02	2189.77
22.5	2167.34	2170.85	2155.07	2150.61	2142.06	2145.53	2140.84	2132.28	2153.55	2155.86
25.0	2127.57	2120.87	2110.37	2110.94	2102.84	2093.48	2086.72	2080.83	2093.95	2089.29
27.5	2090.04	2065.68	2056.53	2046.86	2052.22	2049.66	2034.93	2039.49	2044.10	2040.07
30.0	2015.72	2006.94	2007.18	1997.93	1992.82	1963.61	1975.89	1986.99	1995.77	1989.23
32.5	1968.51	1953.71	1945.55	1933.05	1911.80	1928.77	1917.78	1921.06	1913.90	1921.12
35.0	1900.41	1892.79	1870.54	1870.63	1865.24	1854.17	1850.71	1853.54	1861.20	1851.58
37.5	1829.80	1816.90	1794.61	1801.38	1792.86	1791.82	1786.42	1774.23	1779.86	1782.77
40.0	1774.47	1757.34	1723.77	1724.53	1709.91	1710.55	1701.22	1701.50	1707.81	1699.01
42.5	1700.16	1678.36	1651.11	1654.16	1624.50	1624.48	1623.49	1616.56	1614.87	1620.73
45.0	1611.51	1589.01	1585.40	1576.32	1552.65	1543.57	1539.12	1528.77	1526.65	1532.85
47.5	1521.17	1504.78	1495.29	1481.90	1477.49	1451.18	1430.61	1428.85	1424.15	1436.35
50.0	1441.00	1423.75	1408.05	1397.34	1391.87	1371.73	1345.45	1327.61	1321.82	1318.06
52.5	1353.09	1336.93	1329.94	1305.55	1291.81	1263.47	1239.36	1220.02	1208.16	1221.91
55.0	1271.52	1251.36	1242.08	1230.33	1210.96	1180.01	1131.39	1106.04	1096.74	1104.38
57.5	1178.76	1169.01	1159.97	1139.23	1109.17	1075.73	1028.72	986.27	980.48	986.45
60.0	1091.39	1081.04	1076.31	1049.41	1021.93	974.79	908.17	866.03	857.51	871.62
62.5	1004.23	989.11	986.12	961.63	921.10	872.95	810.76	757.73	742.68	757.12
65.0	915.79	900.46	884.04	873.96	834.22	772.04	703.03	654.77	634.67	647.05
67.5	825.93	811.66	796.92	778.31	737.36	679.56	601.36	547.56	528.07	549.29
70.0	731.03	720.32	707.27	685.98	644.52	586.80	506.94	456.96	435.79	451.18
72.5	635.46	631.12	620.80	598.32	553.12	495.66	422.93	367.37	345.11	366.46
75.0	538.85	537.03	525.74	507.57	470.85	412.32	350.96	292.25	272.46	294.62
77.5	446.46	444.67	439.59	421.79	391.27	338.37	280.48	231.53	210.42	227.53
80.0	360.75	355.02	361.94	344.20	312.53	270.14	220.19	171.84	156.74	175.48

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CANDELA TABULATION - (Cont.)

82.5	283.60	282.72	278.93	272.62	244.71	206.18	170.55	129.49	114.45	130.43
85.0	220.91	221.42	217.71	209.66	190.75	156.20	125.40	94.63	77.83	94.14
87.5	172.13	170.00	166.42	164.10	145.99	118.31	91.30	66.38	55.81	66.82
90.0	130.35	131.99	127.05	122.22	107.71	86.27	66.44	46.27	33.39	46.76
92.5	95.54	98.33	96.57	92.11	81.77	63.94	47.29	30.90	20.91	30.05
95.0	74.64	76.82	74.29	68.57	59.67	47.87	33.98	20.37	16.22	21.29
97.5	58.58	58.71	56.83	54.02	45.34	35.47	23.61	15.71	11.92	14.81
100.0	46.93	47.94	45.61	42.48	33.80	27.82	18.35	10.93	9.92	10.78
102.5	37.63	37.18	36.32	32.11	25.67	19.82	12.84	8.78	8.12	8.58
105.0	29.36	31.09	27.16	24.50	20.26	15.75	10.94	7.50	7.23	7.68
107.5	26.15	25.33	23.95	19.68	15.13	12.34	8.67	6.92	6.51	7.30
110.0	21.66	20.70	17.73	14.56	12.64	9.05	6.67	6.69	5.85	5.72
112.5	17.38	17.16	14.43	11.76	9.47	6.35	5.84	6.34	5.38	5.53
115.0	13.77	13.36	11.92	8.77	6.71	5.39	4.71	4.43	4.49	4.86
117.5	11.50	10.12	9.84	6.84	4.90	3.64	3.93	4.31	3.60	4.21
120.0	9.82	8.37	6.38	4.86	3.63	2.87	3.41	3.46	3.35	3.30
122.5	6.62	5.98	5.08	3.33	2.06	1.92	2.47	2.89	2.49	3.02
125.0	5.24	4.59	3.03	1.85	1.23	2.05	2.01	2.22	2.12	2.06
127.5	3.58	2.90	1.98	1.11	0.49	1.09	1.46	1.62	1.69	1.85
130.0	2.29	1.60	1.04	0.31	0.44	0.70	1.15	1.15	1.23	1.39
132.5	1.34	0.88	0.28	0.11	0.31	0.53	0.61	0.88	0.79	0.90
135.0	0.51	0.24	0.03	0.06	0.19	0.20	0.65	0.39	0.65	0.60
137.5	0.06	0.00	0.00	0.02	0.08	0.09	0.32	0.47	0.32	0.33
140.0	0.00	0.00	0.00	0.00	0.09	0.10	0.15	0.26	0.21	0.19
142.5	0.00	0.00	0.00	0.00	0.02	0.00	0.04	0.02	0.10	0.07
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	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	2413.03	2413.03	2413.03	2413.03	2413.03	2413.03	2413.03	2413.03	2413.03	2413.03
2.5	2419.89	2385.16	2412.64	2385.06	2356.47	2385.25	2378.35	2362.23	2328.21	2448.01
5.0	2372.38	2363.53	2337.26	2376.41	2375.60	2346.19	2348.27	2389.93	2355.51	2359.37
7.5	2356.15	2338.90	2362.59	2376.29	2340.53	2361.82	2368.70	2345.91	2348.15	2352.57
10.0	2328.86	2299.86	2332.32	2326.26	2332.05	2350.78	2335.36	2344.44	2305.06	2327.52
12.5	2306.50	2301.42	2312.89	2321.59	2288.12	2312.90	2310.53	2299.80	2306.84	2280.57
15.0	2287.21	2298.46	2273.70	2255.75	2262.67	2277.96	2272.88	2271.39	2272.75	2261.06
17.5	2224.33	2246.10	2230.37	2231.72	2250.46	2248.61	2231.08	2245.92	2241.01	2225.64
20.0	2172.33	2199.78	2194.54	2193.88	2194.76	2204.31	2231.46	2202.64	2207.58	2181.83
22.5	2140.43	2157.29	2149.33	2146.71	2146.88	2157.72	2166.78	2164.02	2167.08	2157.07
25.0	2088.00	2099.77	2120.24	2095.40	2090.28	2128.92	2135.70	2143.67	2128.51	2109.86
27.5	2042.46	2040.72	2036.15	2045.33	2051.43	2073.04	2079.80	2073.97	2064.07	2058.41

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CANDELA TABULATION - (Cont.)

30.0	1994.41	1978.17	1982.85	1996.30	2003.14	2017.20	2039.45	2026.57	2012.95	1989.49
32.5	1925.40	1911.02	1915.92	1934.09	1935.33	1964.51	1963.64	1961.60	1963.61	1954.72
35.0	1851.62	1858.28	1847.09	1874.65	1885.28	1888.16	1896.95	1909.70	1890.52	1881.66
37.5	1780.74	1773.94	1788.97	1805.51	1802.77	1818.17	1837.38	1830.72	1831.64	1808.36
40.0	1714.36	1709.02	1718.34	1724.36	1732.80	1746.08	1781.51	1779.94	1757.60	1729.34
42.5	1618.84	1623.95	1638.86	1646.50	1658.48	1672.20	1693.17	1699.57	1686.31	1652.62
45.0	1534.91	1532.82	1561.43	1568.70	1574.45	1597.12	1613.63	1631.06	1611.66	1585.90
47.5	1438.89	1441.66	1467.81	1495.01	1493.07	1508.62	1521.92	1538.02	1527.67	1492.14
50.0	1332.35	1359.89	1382.14	1398.07	1415.54	1428.85	1448.05	1455.05	1434.11	1410.39
52.5	1237.64	1273.15	1301.71	1317.20	1333.90	1349.36	1350.70	1363.11	1348.91	1328.72
55.0	1135.56	1172.17	1197.36	1221.16	1240.93	1262.19	1264.82	1281.17	1264.07	1251.12
57.5	1026.16	1068.52	1101.62	1142.22	1157.98	1157.59	1182.20	1186.21	1173.69	1159.39
60.0	920.58	966.62	1012.56	1050.01	1060.09	1082.03	1087.18	1105.03	1086.21	1058.59
62.5	807.23	867.90	924.17	954.06	984.06	990.09	1002.64	1016.02	999.37	976.30
65.0	702.61	774.55	831.43	865.25	887.95	904.36	906.84	925.19	909.40	893.19
67.5	602.71	676.51	744.39	768.68	798.52	804.47	825.56	832.56	819.28	806.51
70.0	511.94	586.82	646.41	689.82	703.27	727.40	726.78	737.39	724.79	716.67
72.5	424.84	493.24	560.61	595.57	617.23	627.15	633.44	641.83	624.41	622.46
75.0	344.75	415.27	474.35	511.09	521.56	534.32	537.71	547.55	531.82	533.12
77.5	278.17	338.81	387.55	426.02	438.19	443.23	447.88	447.92	444.57	434.62
80.0	219.13	268.76	316.50	343.39	354.29	359.45	366.84	363.08	360.48	356.69
82.5	166.50	206.70	245.64	270.61	282.95	285.23	287.03	288.98	283.21	281.50
85.0	125.38	156.46	186.76	209.35	218.89	220.62	223.94	225.06	219.54	220.36
87.5	91.00	119.21	144.08	160.64	169.73	170.28	169.97	171.06	169.88	169.49
90.0	66.06	89.15	108.71	121.82	127.01	127.80	132.24	127.87	128.74	129.97
92.5	47.88	66.56	80.60	92.22	98.23	96.76	100.25	97.29	97.92	97.85
95.0	34.01	49.19	60.04	70.70	73.28	74.86	76.21	73.98	75.55	74.97
97.5	23.96	36.21	46.31	52.92	56.51	60.16	58.08	60.24	58.86	59.10
100.0	18.55	26.01	34.11	40.92	44.80	46.15	46.93	46.14	47.17	45.88
102.5	13.77	20.30	25.63	30.88	36.29	38.40	38.26	38.58	36.91	37.69
105.0	10.61	15.63	20.44	25.91	28.84	30.66	30.75	32.34	31.91	31.89
107.5	8.15	12.42	15.54	18.91	23.17	25.54	25.34	27.09	25.97	25.11
110.0	6.96	9.30	11.82	15.31	17.91	20.42	21.08	21.63	22.26	20.76
112.5	5.76	7.01	9.26	11.61	14.73	16.96	18.11	18.79	17.18	17.16
115.0	4.36	4.75	6.41	9.56	10.20	12.57	14.06	14.75	14.71	13.34
117.5	4.36	3.67	4.80	5.72	8.83	10.24	11.72	12.18	11.67	10.22
120.0	2.81	2.73	2.79	4.72	6.34	7.66	8.99	8.79	9.07	8.78
122.5	2.57	1.94	2.00	2.95	4.49	5.37	6.48	7.21	6.55	5.74
125.0	2.20	1.35	1.33	1.27	3.13	4.09	4.43	5.07	4.80	3.81
127.5	1.52	1.29	0.74	0.97	1.87	2.84	3.41	3.81	3.71	2.88
130.0	1.42	0.75	0.47	0.31	0.76	1.77	1.93	2.18	1.78	1.60
132.5	0.68	0.56	0.27	0.06	0.16	0.60	1.03	1.03	1.29	0.63
135.0	0.36	0.30	0.13	0.06	0.00	0.11	0.52	0.55	0.39	0.08
137.5	0.33	0.19	0.08	0.02	0.02	0.00	0.00	0.08	0.00	0.00
140.0	0.15	0.08	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00
142.5	0.02	0.02	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	2413.03	2413.03	2413.03	2413.03	2413.03	2413.03	2413.03
2.5	2371.87	2373.08	2400.96	2354.29	2428.21	2400.01	2311.08
5.0	2348.60	2404.11	2381.92	2358.99	2378.89	2388.34	2359.18
7.5	2357.65	2343.36	2354.75	2356.41	2362.77	2334.19	2340.63
10.0	2313.34	2315.86	2309.11	2314.32	2333.82	2296.43	2297.49
12.5	2292.32	2292.37	2267.24	2282.03	2292.62	2290.24	2317.35
15.0	2243.39	2258.81	2253.91	2238.42	2280.12	2254.17	2254.73
17.5	2224.70	2232.78	2217.01	2224.82	2222.32	2210.54	2219.25
20.0	2204.99	2199.54	2175.25	2162.72	2173.21	2145.11	2159.77
22.5	2151.39	2124.83	2121.92	2120.60	2114.31	2111.87	2109.89
25.0	2085.05	2080.34	2064.64	2086.59	2072.12	2066.95	2074.16
27.5	2036.05	2031.45	2024.71	2013.02	2009.35	2004.04	2003.61
30.0	1974.83	1951.38	1954.90	1944.39	1952.66	1940.71	1950.28
32.5	1924.59	1895.30	1897.82	1902.94	1888.86	1885.48	1891.78
35.0	1854.15	1843.63	1829.94	1838.85	1816.19	1813.59	1816.06
37.5	1786.31	1770.71	1759.05	1755.89	1742.81	1745.74	1748.81
40.0	1711.66	1694.90	1680.07	1664.27	1662.23	1662.58	1673.39
42.5	1639.26	1632.84	1603.24	1599.19	1583.24	1582.36	1578.46
45.0	1558.84	1546.94	1523.60	1503.58	1502.45	1487.54	1479.74
47.5	1477.87	1450.74	1449.48	1427.30	1403.86	1395.11	1388.53
50.0	1405.48	1375.47	1355.90	1325.04	1306.69	1289.37	1287.19
52.5	1308.08	1296.78	1271.29	1239.60	1199.30	1179.37	1172.66
55.0	1234.14	1202.15	1175.97	1135.92	1097.15	1071.52	1050.80
57.5	1143.93	1116.77	1086.69	1042.39	994.26	945.00	929.03
60.0	1055.47	1035.77	990.44	939.33	870.74	833.00	817.98
62.5	967.76	931.75	901.70	846.98	774.89	722.09	699.20
65.0	878.87	852.91	807.28	739.63	668.98	614.69	590.73
67.5	794.45	759.00	715.76	643.30	561.60	505.49	480.66
70.0	701.25	668.32	623.70	555.00	471.64	410.84	384.59
72.5	600.90	582.38	536.48	470.17	386.89	326.50	303.42
75.0	515.66	501.04	447.59	384.84	308.14	254.63	233.39
77.5	428.96	409.20	374.81	315.04	246.96	193.74	173.14
80.0	353.27	333.56	298.91	247.11	194.52	147.20	124.13
82.5	272.56	263.26	231.84	193.13	146.78	106.29	89.53
85.0	218.86	206.66	182.86	147.63	112.85	76.48	62.78
87.5	165.79	156.38	139.26	108.79	81.42	55.15	42.77
90.0	127.05	119.50	105.58	80.36	57.66	37.39	25.57
92.5	94.87	93.18	78.84	59.12	41.89	25.54	15.73
95.0	72.56	67.91	57.88	44.53	29.46	16.24	11.66
97.5	57.06	51.37	44.11	32.17	20.79	10.98	8.87
100.0	45.33	40.01	33.38	23.17	15.02	8.04	7.12
102.5	34.18	29.97	24.15	18.13	10.87	5.97	5.96
105.0	27.78	24.31	17.60	12.94	7.22	5.25	4.83
107.5	23.28	19.03	13.17	8.76	5.48	4.03	4.09
110.0	18.00	13.57	10.25	6.34	3.43	3.73	3.85
112.5	14.56	11.03	6.95	4.62	3.22	3.49	2.85
115.0	10.46	7.66	5.48	3.10	2.38	2.67	2.53

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CANDELA TABULATION - (Cont.)

117.5	8.56	5.40	3.64	2.03	2.06	1.96	2.06
120.0	6.03	4.25	1.97	1.07	1.53	2.02	1.70
122.5	4.39	2.74	0.93	0.90	1.13	1.34	1.17
125.0	3.20	1.61	0.63	0.67	0.99	1.00	1.02
127.5	1.33	0.64	0.29	0.53	0.77	0.66	0.92
130.0	0.72	0.21	0.18	0.44	0.57	0.48	0.63
132.5	0.18	0.04	0.18	0.25	0.47	0.33	0.46
135.0	0.02	0.00	0.13	0.17	0.29	0.35	0.48
137.5	0.00	0.02	0.02	0.07	0.11	0.22	0.16
140.0	0.00	0.00	0.02	0.00	0.11	0.10	0.15
142.5	0.00	0.00	0.00	0.00	0.02	0.09	0.06
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	864.44	N.A.	12.70
0-30	1830.22	N.A.	26.90
0-40	2992.58	N.A.	44.00
0-60	5250.28	N.A.	77.10
0-80	6512.28	N.A.	95.70
0-90	6708.89	N.A.	98.60
10-90	6484.06	N.A.	95.30
20-40	2128.13	N.A.	31.30
20-50	3324.76	N.A.	48.80
40-70	3051.34	N.A.	44.80
60-80	1262.01	N.A.	18.50
70-80	468.37	N.A.	6.90
80-90	196.60	N.A.	2.90
90-110	86.60	N.A.	1.30
90-120	95.07	N.A.	1.40
90-130	97.48	N.A.	1.40
90-150	97.77	N.A.	1.40
90-180	97.77	N.A.	1.40
110-180	11.18	N.A.	0.20
0-180	6806.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	224.82
10-20	639.62
20-30	965.77
30-40	1162.36
40-50	1196.63
50-60	1061.07
60-70	793.64
70-80	468.37
80-90	196.60
90-100	64.15
100-110	22.45
110-120	8.48
120-130	2.41
130-140	0.29
140-150	0.01
150-160	0.00
160-170	0.00
170-180	0.00

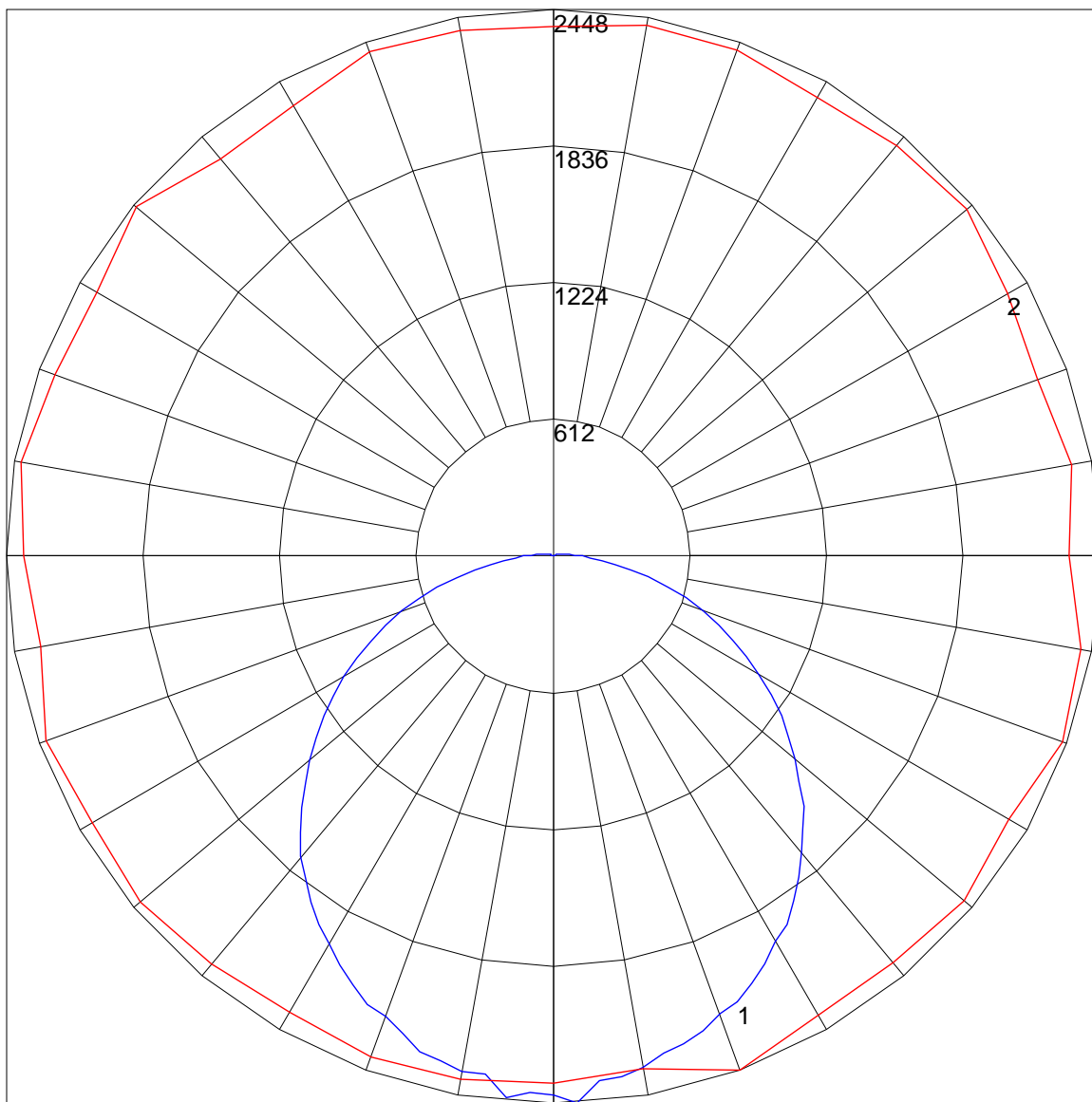
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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 = 2448.01 Located At Horizontal Angle = 290, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (290 - 110) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)