



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LED4HTMOWT50120V-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 17:26:45 2017

[MANUFAC] BEGHELLI

[LUMINAIRE] BS100LED4HTMOWT50120V-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: 41.2

[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	7004
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	60
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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : BS100LED4HTMOWT50120V-277V-FL_S.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8815	6758	6661
55	7493	5715	5621
65	5414	4544	4505
75	3142	3102	3119
85	1704	1665	1585

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0.0	2456.83	2456.83	2456.83	2456.83	2456.83	2456.83	2456.83	2456.83	2456.83	2456.83
2.5	2474.87	2478.81	2472.31	2474.02	2487.56	2483.00	2455.94	2431.63	2466.69	2476.34
5.0	2462.89	2441.25	2441.38	2416.49	2438.83	2417.19	2385.83	2435.81	2474.74	2415.72
7.5	2440.84	2422.22	2456.56	2422.94	2421.34	2430.36	2398.61	2408.45	2388.88	2422.59
10.0	2391.99	2372.65	2385.27	2393.72	2403.34	2380.20	2387.66	2422.84	2403.06	2393.35
12.5	2351.97	2347.97	2350.84	2357.52	2347.17	2341.72	2375.38	2336.49	2359.91	2363.73
15.0	2329.40	2327.69	2333.10	2316.02	2319.50	2328.15	2337.73	2348.82	2333.44	2339.82
17.5	2300.96	2276.64	2272.58	2283.48	2259.53	2287.43	2277.94	2304.29	2307.08	2313.44
20.0	2238.75	2230.09	2213.22	2215.27	2252.51	2255.92	2241.74	2246.59	2274.83	2253.64
22.5	2170.95	2173.12	2179.37	2192.04	2180.97	2202.36	2215.47	2209.43	2226.28	2254.55
25.0	2118.86	2126.65	2120.34	2124.92	2135.84	2154.66	2165.77	2149.19	2190.16	2204.30
27.5	2060.61	2058.93	2064.15	2083.52	2072.46	2098.74	2099.21	2136.60	2145.38	2154.47
30.0	2007.17	2003.25	2020.87	2026.79	2032.49	2027.00	2036.26	2059.81	2086.22	2085.57
32.5	1941.55	1944.57	1940.89	1937.51	1975.82	1957.38	1968.81	1996.46	2017.85	2033.29
35.0	1857.47	1875.32	1878.86	1867.73	1881.83	1886.57	1913.49	1926.69	1942.04	1952.43
37.5	1784.29	1806.55	1786.50	1810.32	1802.33	1829.40	1829.45	1848.74	1887.10	1889.23
40.0	1717.01	1708.38	1725.12	1723.30	1744.81	1749.21	1772.32	1778.33	1818.64	1830.59
42.5	1630.21	1625.66	1631.42	1645.44	1659.68	1678.09	1681.24	1710.21	1731.77	1742.44
45.0	1525.34	1538.64	1546.07	1554.07	1565.83	1575.23	1604.14	1629.01	1651.11	1663.99
47.5	1424.04	1431.72	1445.08	1472.31	1492.33	1504.15	1525.55	1532.12	1565.10	1598.57
50.0	1319.89	1325.19	1343.47	1372.49	1398.26	1421.43	1441.61	1451.71	1476.19	1492.35
52.5	1199.84	1218.82	1237.61	1266.82	1304.52	1331.18	1354.63	1361.85	1389.84	1399.74
55.0	1083.75	1102.14	1121.78	1179.41	1204.23	1234.62	1265.03	1280.72	1293.47	1312.82
57.5	959.77	973.58	1015.46	1072.56	1116.93	1144.79	1168.35	1189.06	1211.62	1227.49
60.0	843.70	852.30	895.65	965.52	1023.85	1055.02	1082.41	1095.84	1116.68	1140.64
62.5	714.91	744.69	789.98	866.88	935.42	965.16	980.61	1008.61	1023.41	1049.39
65.0	605.40	624.46	678.77	759.19	826.35	881.40	903.43	916.48	936.20	946.85
67.5	490.11	521.47	582.88	664.00	732.19	785.62	802.44	824.65	843.19	852.59
70.0	395.74	422.04	487.21	566.27	645.90	691.66	715.33	735.59	747.64	760.49
72.5	310.73	331.65	397.88	483.52	548.70	595.68	624.96	639.63	653.19	661.07
75.0	237.53	263.16	324.21	397.65	465.79	506.22	533.88	543.53	551.56	562.81
77.5	176.26	199.25	255.15	321.15	380.57	427.01	443.82	445.71	458.56	464.08
80.0	128.46	151.68	202.00	256.67	306.08	343.20	360.17	365.58	368.92	373.31
82.5	89.53	111.73	149.46	196.30	243.15	273.88	286.77	289.05	290.44	296.40
85.0	63.20	80.19	113.17	150.67	186.06	215.83	221.70	224.12	226.92	230.26
87.5	43.41	55.59	84.95	113.49	143.04	161.68	172.47	175.18	175.00	179.03
90.0	26.31	39.18	59.84	83.89	106.94	122.94	132.77	134.24	133.89	134.06
92.5	16.53	25.53	43.48	63.13	79.16	91.92	97.30	100.80	100.58	101.86
95.0	12.13	16.61	30.10	46.68	61.55	69.53	76.76	78.32	74.98	78.42
97.5	9.12	11.76	21.98	34.39	44.90	52.53	57.23	60.32	59.65	59.46
100.0	7.28	8.07	15.41	24.11	34.31	42.13	46.20	47.69	48.72	48.84
102.5	6.06	6.36	10.70	18.55	26.02	30.72	35.89	39.61	39.47	40.45
105.0	5.19	5.65	7.52	12.83	19.59	25.25	28.21	31.21	33.07	33.68
107.5	4.19	4.09	5.46	8.96	14.06	17.42	23.41	26.52	27.47	26.92
110.0	3.80	4.05	4.14	6.53	10.68	14.52	18.15	19.87	21.88	23.34
112.5	3.00	2.99	2.69	4.87	7.48	11.67	14.79	17.31	18.63	19.31
115.0	2.50	2.49	2.89	3.24	5.25	8.37	11.94	13.51	15.35	15.49
117.5	2.12	2.23	2.16	2.10	4.19	6.77	8.98	10.84	11.57	12.30
120.0	1.69	1.89	1.66	1.67	2.45	4.65	6.15	8.25	9.04	8.40
122.5	1.24	1.19	1.61	0.77	1.40	2.95	4.53	6.45	6.77	7.02
125.0	1.17	1.15	1.07	0.70	0.70	1.36	2.82	4.88	5.21	5.40
127.5	0.80	0.73	0.76	0.38	0.17	0.67	1.54	3.28	3.20	3.63
130.0	0.72	0.49	0.65	0.37	0.21	0.27	0.85	1.42	2.27	2.16
132.5	0.66	0.41	0.31	0.24	0.13	0.07	0.32	0.85	1.14	1.18

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135.0	0.39	0.18	0.37	0.07	0.10	0.04	0.00	0.31	0.81	0.45
137.5	0.17	0.22	0.25	0.06	0.11	0.00	0.02	0.00	0.04	0.09
140.0	0.15	0.15	0.06	0.06	0.02	0.00	0.00	0.00	0.00	0.02
142.5	0.02	0.04	0.07	0.02	0.02	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									
	100	110	120	130	140	150	160	170	180	190
0.0	2456.83	2456.83	2456.83	2456.83	2456.83	2456.83	2456.83	2456.83	2456.83	2456.83
2.5	2511.29	2433.55	2433.31	2469.78	2476.01	2399.84	2404.38	2424.42	2483.08	2393.87
5.0	2458.93	2402.34	2453.02	2408.26	2447.89	2425.03	2479.84	2431.18	2416.25	2418.08
7.5	2420.78	2395.13	2425.21	2403.86	2427.10	2438.73	2419.51	2434.67	2416.30	2405.51
10.0	2381.55	2377.76	2408.96	2384.79	2414.01	2368.16	2394.23	2408.73	2400.39	2405.75
12.5	2363.22	2396.12	2365.97	2387.89	2368.07	2374.16	2354.50	2336.53	2366.85	2370.06
15.0	2342.41	2359.52	2347.19	2349.31	2335.54	2322.49	2358.65	2325.78	2335.37	2337.82
17.5	2304.58	2303.61	2298.72	2306.81	2305.67	2297.11	2294.51	2271.93	2290.87	2304.38
20.0	2277.82	2252.85	2246.76	2279.02	2269.23	2256.26	2273.62	2246.24	2268.70	2266.86
22.5	2224.77	2243.51	2220.88	2224.13	2212.96	2208.74	2193.25	2191.67	2211.22	2196.38
25.0	2194.05	2181.58	2172.80	2153.32	2155.29	2167.04	2144.71	2143.39	2163.65	2148.43
27.5	2128.88	2141.84	2102.53	2116.94	2111.71	2096.91	2071.13	2095.14	2104.71	2097.25
30.0	2091.04	2070.82	2055.50	2057.60	2035.08	2038.38	2040.04	2029.44	2036.02	2036.34
32.5	2029.23	2006.92	1999.79	1982.30	1977.56	1974.56	1964.82	1972.76	1975.81	1975.29
35.0	1946.63	1943.49	1928.67	1917.69	1913.56	1904.70	1910.45	1903.05	1898.86	1899.87
37.5	1893.28	1875.74	1852.03	1849.52	1829.31	1828.24	1830.07	1817.37	1849.97	1831.42
40.0	1814.06	1796.73	1788.34	1780.28	1768.35	1751.87	1752.07	1750.73	1744.12	1751.04
42.5	1738.28	1708.85	1697.43	1698.19	1678.29	1680.85	1652.54	1663.56	1660.98	1660.66
45.0	1672.43	1637.48	1618.78	1617.37	1608.12	1584.41	1577.10	1567.46	1560.02	1569.40
47.5	1576.24	1560.14	1547.03	1519.30	1517.77	1487.64	1477.62	1469.74	1465.23	1475.96
50.0	1483.19	1465.60	1459.96	1442.62	1428.60	1408.98	1377.30	1364.56	1356.52	1361.02
52.5	1390.93	1386.97	1365.55	1353.41	1330.74	1309.75	1272.20	1249.14	1235.32	1254.34
55.0	1301.80	1289.77	1286.64	1265.76	1241.17	1211.38	1177.69	1130.47	1135.17	1138.44
57.5	1205.01	1199.22	1184.91	1161.89	1141.81	1104.05	1044.76	1018.07	998.71	1020.15
60.0	1127.70	1109.64	1097.87	1084.00	1048.12	1002.85	939.76	896.47	888.18	894.20
62.5	1031.01	1019.14	1002.86	982.33	951.31	896.27	841.74	782.27	758.95	781.89
65.0	947.46	930.03	919.00	890.35	858.46	796.20	729.80	672.15	649.43	667.39
67.5	850.55	838.52	823.96	806.92	766.42	699.40	618.67	563.47	540.32	564.56
70.0	758.17	741.37	730.03	707.69	666.43	600.97	520.91	467.10	445.15	463.05
72.5	657.34	648.01	647.75	613.16	575.81	510.02	438.45	383.93	356.61	376.18
75.0	560.08	548.69	541.50	523.15	492.32	426.03	357.76	300.43	279.68	297.50
77.5	460.18	457.33	449.59	432.63	402.44	344.38	285.53	231.75	209.43	233.85
80.0	371.28	361.21	364.08	350.22	322.68	277.12	224.65	181.07	161.96	176.37

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CANDELA TABULATION - (Cont.)

82.5	294.06	293.45	291.23	275.60	255.14	212.35	173.86	132.04	114.87	132.53
85.0	230.51	224.59	221.46	213.99	196.77	161.39	130.03	97.75	79.61	96.95
87.5	176.17	177.23	172.39	167.06	147.39	123.41	94.87	67.70	56.92	67.93
90.0	131.36	132.02	133.24	127.92	111.90	90.47	68.83	47.82	34.87	47.32
92.5	103.61	100.37	100.69	96.58	83.31	68.85	49.72	32.73	22.04	30.94
95.0	77.24	80.43	77.17	70.43	61.76	49.41	35.43	20.77	16.29	21.11
97.5	60.08	59.63	57.91	53.32	46.98	36.33	26.38	14.94	12.61	15.39
100.0	48.54	48.78	46.39	44.10	35.89	27.58	18.67	11.46	10.30	11.47
102.5	39.11	39.15	36.79	32.99	26.21	20.34	14.83	9.38	8.77	8.60
105.0	32.90	32.02	28.88	26.15	20.27	16.26	10.98	7.24	7.24	8.35
107.5	27.40	26.51	23.52	20.18	16.48	12.29	9.02	6.99	6.24	7.29
110.0	22.08	20.98	19.44	15.38	12.18	9.22	7.24	6.73	5.96	7.24
112.5	18.28	17.23	14.64	12.40	10.13	7.18	5.78	5.48	5.20	5.38
115.0	14.88	13.32	11.53	8.99	6.88	5.97	5.07	4.84	4.38	4.93
117.5	12.02	11.69	9.85	7.51	5.29	3.26	3.85	4.23	4.01	4.44
120.0	9.50	8.85	7.00	4.80	3.04	2.96	3.18	3.55	3.15	3.40
122.5	7.50	6.18	4.60	3.40	2.23	2.49	2.54	2.52	2.93	2.53
125.0	4.97	3.93	3.34	1.98	1.17	1.74	2.04	1.88	2.24	2.00
127.5	3.81	3.40	1.92	1.06	0.66	1.35	1.61	1.48	1.28	1.56
130.0	1.82	1.49	0.93	0.49	0.60	0.70	1.22	1.26	1.51	1.09
132.5	1.28	0.94	0.39	0.10	0.31	0.73	1.01	0.85	0.93	0.95
135.0	0.48	0.37	0.02	0.12	0.31	0.34	0.66	0.45	0.52	0.70
137.5	0.00	0.00	0.02	0.04	0.04	0.09	0.22	0.44	0.18	0.20
140.0	0.00	0.00	0.00	0.04	0.07	0.09	0.12	0.21	0.23	0.13
142.5	0.00	0.00	0.00	0.00	0.02	0.00	0.07	0.11	0.14	0.07
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
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	2456.83	2456.83	2456.83	2456.83	2456.83	2456.83	2456.83	2456.83	2456.83	2456.83
2.5	2433.02	2449.05	2455.93	2437.81	2439.71	2461.00	2482.42	2451.55	2442.90	2498.20
5.0	2459.90	2408.87	2423.60	2442.29	2428.21	2410.48	2443.38	2416.83	2454.91	2413.47
7.5	2465.82	2431.31	2430.34	2427.12	2400.65	2447.33	2421.56	2423.44	2390.99	2405.32
10.0	2398.34	2390.54	2409.64	2400.99	2393.23	2386.37	2382.49	2416.53	2391.97	2398.81
12.5	2363.17	2376.09	2371.21	2389.95	2367.82	2354.38	2365.82	2359.69	2369.27	2384.28
15.0	2326.18	2329.92	2335.35	2348.11	2324.43	2348.83	2350.39	2344.65	2333.39	2330.14
17.5	2307.68	2292.17	2309.58	2298.44	2304.29	2316.44	2313.77	2311.16	2319.93	2294.69
20.0	2244.73	2252.68	2242.58	2279.86	2262.63	2257.75	2256.83	2267.39	2273.12	2253.46
22.5	2203.42	2214.00	2220.20	2224.02	2204.71	2235.73	2233.03	2242.63	2235.93	2214.64
25.0	2152.43	2161.42	2173.02	2165.55	2178.22	2181.22	2199.56	2194.42	2196.30	2177.04
27.5	2083.96	2095.30	2091.91	2110.07	2112.18	2132.52	2127.46	2138.85	2126.00	2116.27

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

30.0	2039.53	2044.04	2035.45	2034.63	2049.97	2067.61	2082.82	2080.15	2077.10	2048.89
32.5	1983.90	1975.13	1991.80	1977.78	2000.33	2022.95	2011.30	2039.91	2014.87	2004.56
35.0	1903.84	1906.78	1902.19	1923.66	1923.98	1941.82	1957.12	1953.34	1953.90	1924.64
37.5	1829.23	1814.66	1828.50	1852.02	1853.06	1876.87	1899.16	1901.85	1894.61	1858.67
40.0	1753.24	1761.87	1769.07	1778.55	1789.83	1795.25	1810.51	1826.99	1804.27	1790.04
42.5	1670.89	1665.31	1678.91	1695.34	1711.29	1719.61	1752.49	1748.60	1727.13	1701.64
45.0	1574.38	1581.70	1602.18	1622.76	1617.10	1636.83	1659.17	1667.03	1652.21	1619.81
47.5	1475.59	1493.58	1512.48	1519.80	1537.38	1557.49	1578.30	1592.50	1562.79	1548.13
50.0	1377.33	1400.48	1423.74	1441.22	1454.21	1457.66	1497.97	1498.92	1476.48	1456.43
52.5	1283.67	1307.59	1320.81	1358.98	1374.23	1374.87	1398.71	1408.03	1392.27	1359.45
55.0	1165.51	1202.18	1239.11	1264.21	1281.99	1282.71	1302.24	1316.63	1291.66	1274.25
57.5	1062.20	1101.95	1140.78	1174.64	1194.50	1190.03	1210.03	1218.90	1197.44	1184.76
60.0	941.33	1001.29	1052.93	1085.02	1097.67	1105.55	1124.17	1135.41	1118.75	1096.85
62.5	831.41	894.94	947.37	986.98	1010.37	1026.61	1031.14	1048.35	1026.17	1007.42
65.0	723.27	798.23	850.89	895.20	914.11	920.00	941.57	944.77	932.65	917.28
67.5	627.64	693.66	760.05	800.30	821.43	833.04	839.58	852.03	844.90	826.73
70.0	521.46	597.47	663.53	711.36	729.92	747.47	756.93	760.89	746.62	736.94
72.5	437.14	510.77	573.57	616.62	641.84	644.53	656.27	665.37	648.85	638.80
75.0	356.30	428.90	484.60	524.18	540.38	552.64	553.14	558.28	550.96	538.32
77.5	287.79	346.67	402.54	433.40	458.20	456.70	453.58	464.92	455.42	450.83
80.0	225.39	275.80	322.14	355.32	362.00	369.11	374.44	378.97	369.81	364.05
82.5	170.32	213.05	255.21	279.85	286.68	295.16	296.48	295.68	287.52	288.60
85.0	127.26	163.24	195.23	216.51	225.93	229.26	231.60	226.94	226.65	225.69
87.5	93.75	120.73	151.00	166.33	172.92	175.77	175.08	174.76	173.86	173.89
90.0	70.49	89.57	110.56	126.05	132.67	137.67	134.11	133.27	132.57	134.11
92.5	49.47	65.50	83.16	95.85	102.06	100.18	100.06	99.26	101.25	101.54
95.0	35.94	49.78	62.75	71.15	76.01	78.91	79.11	78.03	78.67	80.17
97.5	24.10	36.15	45.34	55.30	58.75	60.56	59.96	61.84	61.58	59.88
100.0	18.11	27.25	35.39	43.24	45.50	47.19	47.04	50.97	48.09	48.93
102.5	14.75	20.23	27.77	30.67	37.47	39.74	40.79	39.01	39.76	39.39
105.0	10.18	15.26	21.05	25.28	28.56	31.42	32.31	33.98	31.02	30.33
107.5	8.52	11.70	15.99	19.96	23.42	24.91	28.05	26.54	27.56	26.16
110.0	7.32	8.70	13.18	14.41	18.76	20.62	23.95	21.79	22.48	20.57
112.5	5.66	7.30	9.22	11.64	14.85	16.69	18.38	17.60	18.73	16.64
115.0	4.93	4.98	6.87	8.91	11.63	13.06	15.15	15.53	14.74	14.46
117.5	4.01	3.88	4.24	6.88	9.60	10.57	12.04	11.98	11.74	11.47
120.0	3.41	2.77	3.37	4.22	6.13	8.46	8.63	8.98	8.93	8.27
122.5	3.08	2.14	1.83	3.27	4.51	5.58	6.88	7.33	6.90	5.02
125.0	2.06	1.72	1.15	1.91	3.50	4.33	5.15	5.21	4.52	4.03
127.5	1.41	1.05	0.89	1.02	1.68	3.37	3.45	3.33	3.77	2.79
130.0	1.05	0.63	0.74	0.10	0.89	1.62	2.17	2.18	2.17	1.56
132.5	0.57	0.59	0.27	0.14	0.30	0.69	0.95	1.20	0.94	0.73
135.0	0.37	0.34	0.24	0.00	0.00	0.13	0.49	0.65	0.54	0.06
137.5	0.25	0.31	0.08	0.02	0.00	0.00	0.00	0.00	0.00	0.00
140.0	0.11	0.17	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142.5	0.09	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

IES INDOOR REPORT
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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	<u>300</u>	<u>310</u>	<u>320</u>	<u>330</u>	<u>340</u>	<u>350</u>	<u>360</u>
0.0	2456.83	2456.83	2456.83	2456.83	2456.83	2456.83	2456.83
2.5	2420.28	2419.25	2510.06	2493.93	2449.61	2466.95	2474.87
5.0	2463.04	2466.23	2475.27	2455.37	2446.30	2418.82	2462.89
7.5	2422.45	2411.93	2415.29	2420.61	2390.59	2417.99	2440.94
10.0	2419.12	2392.79	2422.05	2418.36	2372.71	2392.76	2391.99
12.5	2349.29	2366.52	2370.89	2353.53	2310.51	2378.36	2352.04
15.0	2337.27	2320.00	2323.83	2311.62	2319.76	2313.59	2329.40
17.5	2291.28	2284.21	2290.40	2262.59	2271.47	2283.89	2300.96
20.0	2260.61	2237.06	2248.14	2233.01	2225.38	2228.72	2238.75
22.5	2210.82	2197.22	2177.31	2188.19	2181.30	2173.79	2170.95
25.0	2154.12	2145.49	2147.25	2124.16	2128.59	2129.40	2118.86
27.5	2098.78	2083.46	2075.67	2077.63	2065.10	2058.60	2060.65
30.0	2028.44	2024.06	2015.17	2015.18	2006.96	2005.65	2007.17
32.5	1977.19	1955.08	1948.39	1946.63	1939.49	1934.04	1941.55
35.0	1915.91	1886.59	1877.38	1878.58	1873.78	1868.92	1857.47
37.5	1836.11	1829.57	1815.50	1801.24	1802.35	1795.86	1784.29
40.0	1762.82	1749.04	1737.68	1721.58	1721.90	1715.44	1717.01
42.5	1681.29	1669.96	1659.50	1641.56	1637.08	1624.80	1630.21
45.0	1599.54	1578.69	1586.09	1556.43	1531.44	1537.89	1525.35
47.5	1527.80	1506.09	1485.52	1463.07	1448.03	1428.89	1424.04
50.0	1446.75	1416.40	1400.84	1372.62	1342.47	1323.43	1319.89
52.5	1354.79	1329.94	1312.04	1278.86	1246.68	1219.42	1199.84
55.0	1265.77	1238.94	1209.73	1179.96	1129.69	1093.01	1083.75
57.5	1173.19	1154.10	1125.35	1072.44	1015.50	977.60	959.77
60.0	1081.03	1058.80	1023.23	967.11	911.53	856.78	843.70
62.5	989.99	965.92	923.20	859.88	790.22	735.57	714.91
65.0	899.49	869.00	827.53	760.53	681.26	621.93	605.40
67.5	802.49	777.87	735.72	666.56	577.72	517.64	490.11
70.0	718.63	691.14	642.74	568.62	480.10	420.63	395.74
72.5	621.78	593.95	550.37	478.55	398.59	337.76	310.73
75.0	531.69	507.56	461.17	400.73	323.55	262.07	237.54
77.5	438.27	423.11	380.66	323.79	259.05	199.19	176.26
80.0	359.28	339.93	307.29	254.64	201.01	149.58	128.48
82.5	287.23	272.67	241.68	199.26	152.00	109.68	89.53
85.0	221.92	211.31	184.76	150.07	111.89	80.70	63.21
87.5	171.61	161.93	142.81	113.04	82.90	56.43	43.41
90.0	131.51	124.83	108.88	84.60	61.20	38.24	26.31
92.5	98.38	92.48	79.68	63.14	42.55	25.67	16.53
95.0	74.21	72.01	57.74	46.83	29.73	16.15	12.13
97.5	59.48	53.46	45.19	34.12	22.13	11.02	9.13
100.0	45.19	40.33	33.85	24.18	15.30	8.82	7.28
102.5	36.27	31.12	25.91	17.64	11.12	6.35	6.07
105.0	29.18	23.73	18.67	13.27	7.62	5.30	5.19
107.5	22.52	18.58	13.47	9.30	5.96	4.38	4.19
110.0	19.13	14.31	10.58	6.63	3.82	3.49	3.81
112.5	14.76	10.93	7.49	4.20	3.24	3.10	3.00
115.0	11.74	7.91	4.98	2.79	2.36	3.17	2.50

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CANDELA TABULATION - (Cont.)

117.5	8.16	5.35	3.53	2.23	1.93	2.36	2.12
120.0	6.09	3.83	1.99	1.17	1.98	2.09	1.71
122.5	4.69	2.54	1.25	0.73	1.61	1.56	1.24
125.0	3.27	1.34	0.60	0.77	0.85	1.38	1.17
127.5	1.76	0.62	0.30	0.55	0.61	1.13	0.80
130.0	0.77	0.21	0.23	0.40	0.49	0.60	0.72
132.5	0.14	0.07	0.10	0.22	0.40	0.69	0.66
135.0	0.00	0.00	0.14	0.14	0.36	0.28	0.39
137.5	0.00	0.02	0.08	0.15	0.17	0.19	0.17
140.0	0.00	0.00	0.00	0.02	0.11	0.06	0.15
142.5	0.00	0.00	0.00	0.00	0.00	0.01	0.02
145.0	0.00	0.00	0.00	0.00	0.02	0.02	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	889.58	N.A.	12.70
0-30	1883.66	N.A.	26.90
0-40	3079.06	N.A.	44.00
0-60	5402.16	N.A.	77.10
0-80	6700.4	N.A.	95.70
0-90	6902.76	N.A.	98.60
10-90	6671.31	N.A.	95.30
20-40	2189.48	N.A.	31.30
20-50	3420.83	N.A.	48.80
40-70	3139.4	N.A.	44.80
60-80	1298.23	N.A.	18.50
70-80	481.94	N.A.	6.90
80-90	202.36	N.A.	2.90
90-110	89.35	N.A.	1.30
90-120	98.08	N.A.	1.40
90-130	100.53	N.A.	1.40
90-150	100.83	N.A.	1.40
90-180	100.83	N.A.	1.40
110-180	11.49	N.A.	0.20
0-180	7003.59	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	231.44
10-20	658.14
20-30	994.08
30-40	1195.4
40-50	1231.35
50-60	1091.75
60-70	816.29
70-80	481.94
80-90	202.36
90-100	66.18
100-110	23.17
110-120	8.73
120-130	2.45
130-140	0.30
140-150	0.01
150-160	0.00
160-170	0.00
170-180	0.00

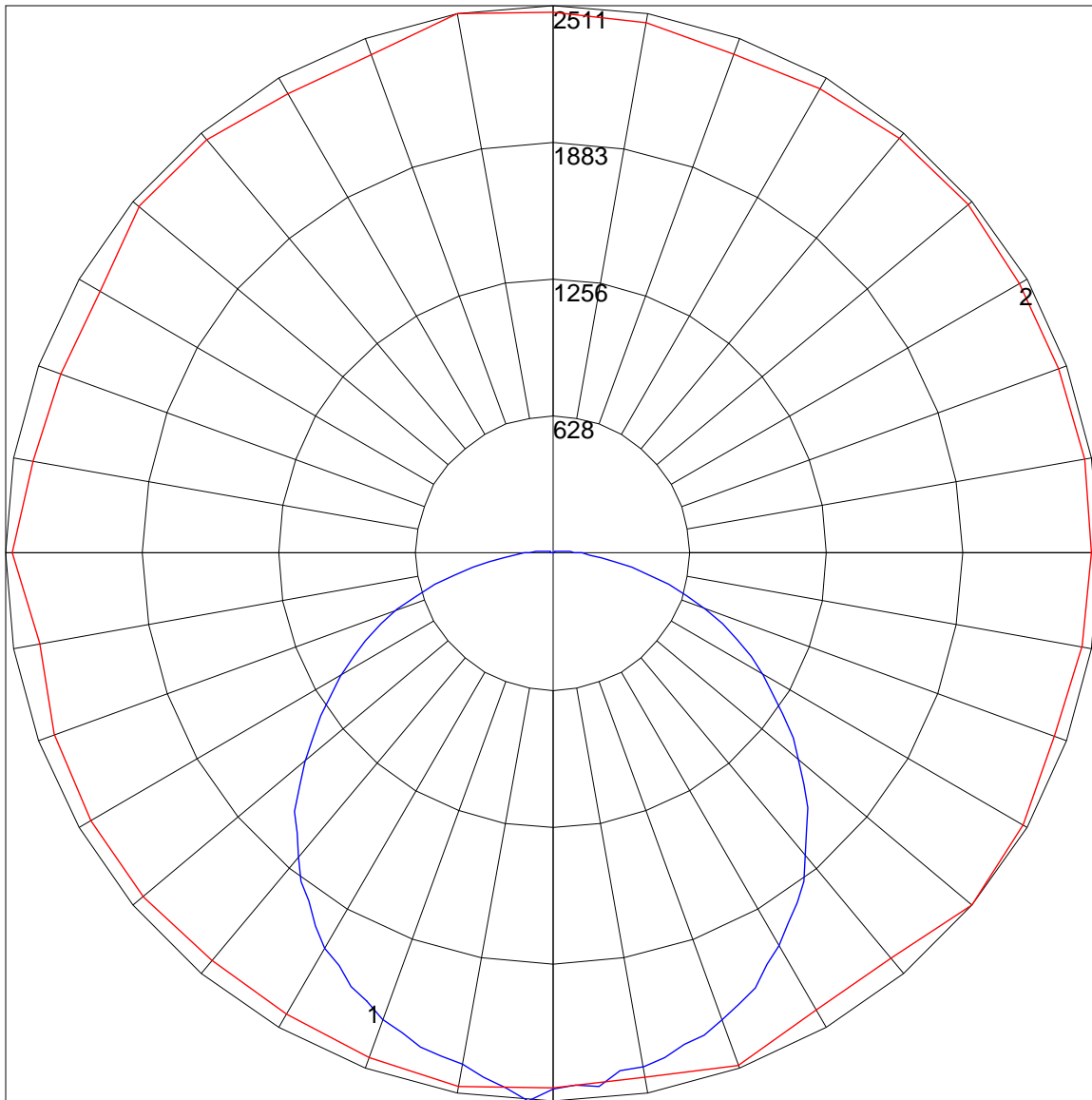
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 2511.29 Located At Horizontal Angle = 100, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (100 - 280) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)