



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LED2HTHOWT50120-277V-FL\_S.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

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

[ISSUEDATE]

[TESTDATE] Fri Jun 30 12:21:36 2017

[MANUFAC] BEGHELLI

[LUMINAIRE] BS100LED2HTHOWT50120-277V-FL

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

[LAMPCAT] SPMWHT541MD-3900K

[OTHER] Indoor Photometric Report

[OTHER] LUMINAIRE PROPERTIES

[OTHER] Number of lamps: 90

[OTHER] Lumens per lamp: 74.7

[OTHER] Input watts: 50

[OTHER] Distribution: Direct

[OTHER] Symmetry: None

[OTHER] Photometric Type: C

[OTHER] Luminous shape: Rectangle

[OTHER] Luminous dimensions (feet)

[OTHER] 0 - 180 Axis: 2.3

[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	6327
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	50
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	2.28 ft
Luminous Width (90-270)	0.55 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	14634	11482	11468
55	12216	9553	9709
65	9023	7506	7766
75	5919	5042	5214
85	3633	2634	2696

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**CANDELA TABULATION**

	<b>0</b>	<b>10</b>	<b>20</b>	<b>30</b>	<b>40</b>	<b>50</b>	<b>60</b>	<b>70</b>	<b>80</b>	<b>90</b>
<b>0.0</b>	2180.79	2180.79	2180.79	2180.79	2180.79	2180.79	2180.79	2180.79	2180.79	2180.79
<b>2.5</b>	2192.24	2225.96	2195.23	2199.41	2160.76	2212.81	2190.74	2207.14	2181.94	2187.07
<b>5.0</b>	2179.87	2189.17	2167.81	2154.02	2176.25	2179.68	2178.40	2185.93	2192.97	2187.13
<b>7.5</b>	2171.55	2161.75	2175.00	2177.28	2168.51	2177.89	2172.48	2188.01	2187.04	2190.49
<b>10.0</b>	2135.37	2148.22	2160.77	2148.27	2167.71	2167.48	2159.92	2157.32	2156.42	2186.44
<b>12.5</b>	2108.35	2128.98	2126.38	2121.59	2128.61	2113.67	2113.49	2131.97	2109.72	2127.47
<b>15.0</b>	2081.43	2089.08	2083.77	2087.38	2086.43	2094.61	2104.77	2093.96	2080.93	2097.76
<b>17.5</b>	2053.54	2037.71	2059.22	2068.42	2054.28	2051.12	2052.68	2059.05	2065.84	2065.21
<b>20.0</b>	1989.74	2002.59	2009.95	2026.86	2004.65	2017.82	2015.03	2019.82	2029.97	2017.80
<b>22.5</b>	1967.11	1965.57	1965.05	1964.16	1960.70	1974.66	1983.86	1984.87	1999.15	1995.63
<b>25.0</b>	1918.26	1902.41	1928.40	1919.38	1921.37	1937.35	1945.81	1952.02	1950.87	1949.70
<b>27.5</b>	1864.18	1867.49	1856.76	1868.80	1867.35	1900.68	1902.72	1903.03	1906.61	1918.28
<b>30.0</b>	1799.40	1802.43	1815.13	1799.82	1823.57	1836.27	1837.23	1850.88	1871.48	1873.09
<b>32.5</b>	1752.35	1745.37	1752.15	1756.59	1757.03	1765.52	1794.90	1798.73	1820.89	1818.98
<b>35.0</b>	1688.73	1702.02	1677.39	1688.78	1702.17	1711.21	1726.78	1733.34	1765.25	1763.59
<b>37.5</b>	1618.15	1632.56	1612.26	1631.86	1639.55	1656.33	1653.96	1681.53	1697.98	1710.74
<b>40.0</b>	1549.43	1550.13	1558.56	1562.34	1571.36	1581.19	1592.92	1611.86	1633.55	1633.46
<b>42.5</b>	1461.62	1475.10	1481.01	1490.59	1490.25	1506.84	1529.26	1540.34	1567.00	1567.64
<b>45.0</b>	1386.70	1385.19	1385.21	1408.36	1423.54	1445.05	1466.77	1467.42	1494.26	1498.34
<b>47.5</b>	1291.60	1290.20	1307.47	1328.58	1341.95	1355.67	1387.20	1394.11	1415.42	1432.95
<b>50.0</b>	1200.15	1195.00	1213.49	1238.55	1262.60	1297.03	1294.49	1318.11	1344.29	1342.42
<b>52.5</b>	1090.02	1101.63	1130.85	1158.05	1182.93	1210.49	1223.24	1231.61	1254.09	1267.63
<b>55.0</b>	987.93	995.83	1025.97	1066.75	1095.03	1117.66	1148.40	1161.40	1170.20	1188.92
<b>57.5</b>	891.82	895.18	921.53	976.71	1017.67	1040.63	1061.97	1073.98	1084.58	1100.59
<b>60.0</b>	779.60	789.91	833.34	885.70	929.18	956.43	973.41	981.63	1017.62	1023.15
<b>62.5</b>	681.53	696.13	737.08	791.18	846.29	865.61	893.82	909.55	927.44	937.65
<b>65.0</b>	582.27	601.63	642.53	700.14	759.23	789.72	815.69	831.70	846.18	858.34
<b>67.5</b>	495.25	513.72	555.39	619.53	671.97	699.00	731.70	741.38	762.21	771.85
<b>70.0</b>	413.76	434.10	474.69	533.24	576.13	623.41	646.22	660.74	671.18	689.73
<b>72.5</b>	338.05	355.13	398.33	454.45	504.85	537.06	557.63	573.46	581.99	591.34
<b>75.0</b>	273.63	291.18	331.09	377.60	427.76	453.76	474.98	486.30	491.13	496.70
<b>77.5</b>	215.70	233.12	272.82	310.23	348.59	381.85	397.41	397.65	406.15	407.31
<b>80.0</b>	170.78	183.26	210.64	243.57	285.09	306.46	319.20	322.72	324.55	329.38
<b>82.5</b>	126.82	141.57	167.92	193.36	224.49	244.03	254.71	259.98	258.20	263.77
<b>85.0</b>	96.34	105.01	129.13	148.61	175.28	188.26	197.68	203.20	207.37	207.83
<b>87.5</b>	70.19	80.02	96.09	113.93	134.43	149.32	155.99	158.60	161.16	159.82
<b>90.0</b>	45.48	57.20	71.34	86.11	103.29	113.28	124.02	122.76	122.49	122.43
<b>92.5</b>	32.21	40.90	52.52	66.30	76.69	87.97	92.55	92.65	95.25	91.69
<b>95.0</b>	23.81	28.84	39.41	49.70	60.37	68.16	71.57	73.34	73.22	72.30
<b>97.5</b>	18.94	21.06	31.50	39.38	48.42	51.89	56.87	56.95	59.07	57.70
<b>100.0</b>	15.02	17.30	24.56	29.89	38.01	43.37	44.85	47.25	46.90	47.61
<b>102.5</b>	12.23	14.61	18.84	25.25	28.98	33.02	35.61	38.05	38.66	38.80
<b>105.0</b>	11.46	12.40	17.10	21.13	24.09	27.44	30.05	30.97	31.56	32.25
<b>107.5</b>	10.17	10.30	13.26	17.06	20.22	22.07	24.50	27.25	26.89	26.67
<b>110.0</b>	8.81	10.04	11.41	13.87	15.45	17.37	20.34	22.37	22.85	24.30
<b>112.5</b>	7.91	8.33	9.77	10.79	12.27	13.87	17.19	18.23	19.21	19.46
<b>115.0</b>	6.69	6.57	7.86	8.95	10.06	11.35	12.74	15.93	16.22	16.72
<b>117.5</b>	5.98	5.90	7.34	7.10	7.78	8.86	11.18	12.56	13.45	13.31
<b>120.0</b>	5.17	5.64	5.61	5.58	6.10	6.92	8.23	10.36	11.19	10.67
<b>122.5</b>	4.24	4.91	4.62	4.55	4.45	5.67	6.57	7.33	8.44	8.48
<b>125.0</b>	3.91	3.41	3.83	3.41	3.87	3.67	4.92	5.60	6.33	6.87
<b>127.5</b>	3.02	2.61	2.82	2.52	2.29	2.70	3.84	4.97	4.95	5.63
<b>130.0</b>	2.54	2.08	2.40	1.59	1.46	1.90	2.23	3.43	3.89	3.65
<b>132.5</b>	1.88	1.63	1.38	1.52	0.90	1.31	1.62	1.87	2.63	2.39

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**CANDELA TABULATION - (Cont.)**

135.0	1.06	1.04	1.12	0.82	0.51	0.62	1.22	1.55	2.11	2.18
137.5	0.92	0.68	0.66	0.34	0.21	0.37	0.57	1.09	1.51	1.54
140.0	0.65	0.48	0.43	0.47	0.17	0.16	0.28	0.42	0.72	0.93
142.5	0.19	0.23	0.23	0.15	0.19	0.18	0.25	0.40	0.27	0.38
145.0	0.10	0.14	0.15	0.12	0.07	0.06	0.10	0.16	0.17	0.36
147.5	0.02	0.08	0.08	0.32	0.12	0.15	0.07	0.09	0.11	0.12
150.0	0.19	0.32	0.18	0.27	0.21	0.30	0.13	0.13	0.06	0.07
152.5	0.20	0.27	0.40	0.42	0.32	0.42	0.17	0.26	0.17	0.20
155.0	0.17	0.31	0.54	0.28	0.53	0.50	0.48	0.25	0.28	0.31
157.5	0.53	0.62	0.64	0.44	0.68	0.44	0.64	0.35	0.37	0.40
160.0	0.48	0.68	0.53	0.60	0.52	0.72	0.39	0.27	0.35	0.60
162.5	0.62	0.35	0.53	0.71	0.58	0.56	0.58	0.53	0.70	0.68
165.0	1.06	0.55	0.94	0.72	0.47	0.78	0.72	0.94	0.63	1.04
167.5	0.81	0.63	0.75	0.44	0.78	0.88	0.44	0.72	0.51	0.54
170.0	0.92	1.00	0.98	1.00	0.46	0.55	0.54	0.38	1.05	0.39
172.5	0.57	0.89	1.05	1.24	1.09	1.92	1.08	0.31	1.10	0.66
175.0	0.62	1.17	0.29	1.03	0.00	0.70	0.94	0.90	0.89	0.46
177.5	0.30	0.34	0.87	1.50	1.17	1.22	0.30	0.55	0.62	1.50
180.0	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02

**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	2180.79	2180.79	2180.79	2180.79	2180.79	2180.79	2180.79	2180.79	2180.79	2180.79
2.5	2234.38	2144.35	2223.28	2206.64	2203.48	2182.13	2156.62	2220.46	2211.85	2213.78
5.0	2187.47	2165.09	2203.45	2179.07	2206.19	2166.75	2169.07	2221.13	2179.54	2210.80
7.5	2180.62	2172.64	2194.61	2187.77	2175.83	2160.45	2151.17	2195.48	2153.08	2179.00
10.0	2146.59	2125.14	2164.73	2157.85	2153.68	2147.40	2147.57	2155.54	2149.23	2153.27
12.5	2119.44	2110.95	2151.84	2115.70	2146.29	2131.61	2107.43	2120.50	2092.75	2118.04
15.0	2101.59	2075.41	2088.06	2089.80	2076.40	2079.90	2085.67	2089.05	2092.82	2079.91
17.5	2048.49	2057.00	2043.29	2074.22	2058.85	2068.49	2060.91	2047.09	2040.38	2052.61
20.0	2032.38	2031.60	2018.47	2022.32	2031.19	2002.34	1999.19	2025.46	1987.96	2002.22
22.5	2003.65	1977.38	1989.96	1962.75	1977.15	1966.53	1984.04	1964.75	1965.19	1977.29
25.0	1961.81	1953.19	1943.32	1938.84	1933.25	1940.28	1919.66	1905.08	1925.40	1915.62
27.5	1904.36	1901.09	1891.70	1890.98	1864.77	1875.60	1878.23	1868.03	1859.54	1860.83
30.0	1873.55	1845.24	1837.10	1830.99	1830.12	1821.41	1817.14	1800.12	1806.86	1819.23
32.5	1828.91	1803.57	1783.44	1779.76	1770.22	1765.07	1756.27	1747.00	1751.58	1752.95
35.0	1768.67	1732.02	1731.19	1704.91	1702.47	1687.23	1678.72	1679.43	1696.50	1692.47
37.5	1702.79	1676.06	1665.59	1642.37	1626.50	1626.55	1623.09	1627.58	1618.54	1625.28
40.0	1627.72	1625.63	1580.00	1574.14	1568.30	1553.46	1548.33	1546.50	1548.73	1545.59
42.5	1570.68	1550.52	1529.79	1508.90	1493.82	1479.62	1474.74	1481.06	1462.84	1463.74
45.0	1487.50	1463.77	1459.76	1437.41	1418.24	1409.27	1391.09	1381.62	1380.96	1386.41
47.5	1425.08	1386.17	1378.80	1360.60	1339.73	1320.53	1304.52	1294.26	1287.04	1298.27
50.0	1336.34	1310.55	1300.91	1289.83	1264.18	1239.72	1217.16	1207.34	1201.30	1193.78
52.5	1256.90	1229.14	1217.91	1204.36	1181.10	1144.45	1128.43	1099.46	1099.75	1098.42
55.0	1179.35	1162.60	1144.91	1120.77	1099.91	1072.31	1026.82	999.56	988.51	1002.33
57.5	1103.59	1071.43	1064.39	1038.95	1006.36	973.32	936.63	893.06	887.02	894.89
60.0	1003.90	989.66	978.88	956.66	931.64	885.68	833.20	803.46	784.56	799.85
62.5	930.88	906.85	890.95	867.33	834.96	795.51	744.63	701.10	683.97	702.29
65.0	845.48	823.69	813.17	792.54	755.82	708.87	646.27	603.47	590.36	602.94
67.5	761.02	747.86	728.28	701.99	670.93	623.82	562.00	517.71	496.32	517.13
70.0	670.21	661.05	641.90	619.75	590.38	534.11	477.03	434.74	416.62	437.02
72.5	582.22	577.19	560.10	539.06	498.29	457.65	401.05	361.46	345.23	360.15
75.0	492.33	482.00	475.53	461.09	425.13	376.12	335.38	296.98	281.16	294.46
77.5	403.35	394.48	391.78	377.40	350.98	310.07	271.45	236.48	223.19	235.15
80.0	327.88	321.75	320.11	308.86	284.20	249.38	214.65	185.89	172.82	188.69

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**CANDELA TABULATION - (Cont.)**

82.5	261.35	259.28	255.45	242.52	224.28	193.34	167.26	143.74	129.35	143.70
85.0	207.36	203.67	204.30	189.27	171.83	147.20	124.65	110.27	100.42	108.05
87.5	158.65	159.80	155.31	145.71	135.16	113.06	95.36	80.88	70.18	79.14
90.0	125.15	122.79	120.92	114.55	104.59	84.47	71.43	57.27	48.64	57.47
92.5	95.04	93.20	90.89	86.97	79.90	64.96	52.06	39.84	32.56	39.57
95.0	73.26	72.71	70.19	67.83	59.02	50.09	39.32	29.13	23.82	28.69
97.5	56.16	57.99	55.85	53.82	44.37	40.04	30.91	21.81	18.16	22.63
100.0	45.03	47.20	43.51	41.20	37.10	30.77	24.65	17.03	16.17	17.64
102.5	39.07	37.45	35.68	33.89	28.53	24.50	20.32	14.54	12.69	15.10
105.0	31.88	31.33	29.20	25.66	22.82	20.28	15.54	12.23	11.18	11.92
107.5	27.35	25.52	24.75	22.28	18.99	16.77	12.81	10.03	10.27	10.63
110.0	21.69	21.47	19.20	16.94	15.57	14.46	11.41	9.17	8.85	9.09
112.5	19.87	18.03	15.77	13.56	12.27	11.26	10.18	8.32	7.74	8.49
115.0	15.70	14.70	13.82	10.59	10.44	9.20	9.08	7.90	6.48	7.18
117.5	13.46	11.97	10.82	8.91	8.26	6.89	6.70	6.33	6.58	6.45
120.0	10.71	9.37	7.91	6.72	6.49	5.86	5.16	5.70	4.88	5.11
122.5	8.32	7.35	6.43	5.28	4.59	4.00	4.65	4.41	4.10	4.99
125.0	6.80	5.84	5.29	3.79	3.50	3.47	3.85	3.78	4.01	3.45
127.5	5.42	4.77	3.21	2.94	2.40	2.41	2.82	3.04	2.88	2.76
130.0	3.71	3.16	2.15	2.11	1.82	1.96	2.13	2.41	2.70	2.14
132.5	2.75	2.15	1.72	1.10	0.98	1.18	1.71	2.06	1.79	1.95
135.0	1.82	1.55	1.19	0.74	0.48	0.75	1.19	1.68	1.36	1.12
137.5	1.59	0.85	0.64	0.32	0.31	0.59	0.62	0.75	0.88	0.82
140.0	0.64	0.45	0.41	0.18	0.12	0.31	0.36	0.50	0.73	0.62
142.5	0.40	0.24	0.32	0.10	0.16	0.15	0.28	0.32	0.45	0.42
145.0	0.18	0.14	0.23	0.19	0.14	0.14	0.14	0.32	0.15	0.16
147.5	0.14	0.11	0.10	0.15	0.12	0.30	0.18	0.08	0.18	0.13
150.0	0.07	0.11	0.13	0.24	0.17	0.31	0.22	0.29	0.29	0.10
152.5	0.17	0.20	0.27	0.27	0.31	0.39	0.17	0.19	0.21	0.50
155.0	0.24	0.36	0.57	0.71	0.34	0.51	0.24	0.32	0.39	0.19
157.5	0.31	0.49	0.64	0.66	0.50	0.52	0.48	0.48	0.27	0.57
160.0	0.54	0.50	0.60	0.85	0.45	0.34	0.80	0.79	0.74	0.88
162.5	0.71	0.41	0.46	0.54	0.95	0.55	0.64	0.46	0.58	0.67
165.0	0.66	0.75	0.75	0.63	0.60	0.92	0.75	0.96	0.68	0.43
167.5	0.74	0.71	0.34	1.00	0.92	1.09	0.56	1.15	0.50	1.00
170.0	1.02	0.39	0.87	1.12	0.80	0.94	0.80	0.39	0.48	0.53
172.5	0.29	0.43	0.68	0.48	0.79	0.59	0.91	0.99	0.92	0.40
175.0	0.93	0.48	0.33	1.05	0.85	0.59	1.00	0.61	1.20	0.58
177.5	0.61	0.24	0.78	0.60	1.26	0.85	0.65	0.63	0.66	1.26
180.0	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02

**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	2180.79	2180.79	2180.79	2180.79	2180.79	2180.79	2180.79	2180.79	2180.79	2180.79
2.5	2180.53	2235.37	2192.62	2153.99	2205.46	2188.24	2183.04	2215.07	2220.36	2169.62
5.0	2179.40	2169.21	2180.91	2191.13	2186.57	2193.40	2216.96	2154.69	2174.80	2162.80
7.5	2156.53	2195.19	2185.95	2176.24	2182.48	2162.06	2157.50	2146.79	2147.87	2197.43
10.0	2136.56	2151.74	2137.58	2150.07	2169.50	2165.92	2157.62	2141.19	2141.83	2170.05
12.5	2108.75	2123.85	2124.64	2116.80	2116.57	2117.50	2135.08	2136.24	2133.40	2134.01
15.0	2086.72	2103.51	2094.17	2087.16	2088.44	2089.06	2103.55	2113.56	2095.26	2091.14
17.5	2051.99	2049.47	2054.76	2063.98	2046.82	2058.98	2075.11	2068.65	2059.54	2055.41
20.0	2002.82	2014.87	2010.18	2003.79	2036.25	2027.97	2029.95	2040.58	2030.39	2012.11
22.5	1965.64	1954.88	1970.17	1966.87	1993.23	1990.58	1994.79	2001.08	2010.47	1993.77
25.0	1916.30	1918.20	1928.34	1930.58	1941.03	1953.00	1944.76	1960.11	1952.54	1944.01
27.5	1870.14	1871.09	1861.79	1901.34	1913.29	1901.59	1921.14	1917.27	1923.39	1901.51

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**CANDELA TABULATION - (Cont.)**

30.0	1802.70	1811.31	1816.83	1826.98	1838.72	1859.44	1872.71	1867.53	1880.33	1854.43
32.5	1745.37	1762.11	1750.34	1775.72	1788.85	1809.31	1831.71	1818.04	1810.66	1811.37
35.0	1685.45	1697.50	1708.84	1715.17	1712.65	1731.10	1759.23	1768.05	1746.28	1745.50
37.5	1622.09	1630.90	1640.13	1656.91	1654.92	1684.60	1703.25	1709.74	1702.24	1683.77
40.0	1548.53	1551.68	1558.06	1578.28	1600.09	1615.07	1641.66	1649.54	1643.10	1619.09
42.5	1472.93	1480.25	1494.25	1507.95	1528.25	1548.34	1571.06	1569.47	1573.44	1537.48
45.0	1399.91	1412.95	1417.37	1437.76	1450.01	1466.75	1490.73	1487.81	1497.15	1466.73
47.5	1307.59	1321.12	1344.31	1366.19	1384.79	1402.22	1419.85	1433.51	1428.19	1391.52
50.0	1214.05	1243.24	1261.83	1291.83	1307.88	1313.21	1333.96	1346.13	1339.17	1310.21
52.5	1119.54	1163.97	1183.43	1205.77	1228.22	1235.70	1256.96	1275.46	1259.02	1228.84
55.0	1030.59	1063.54	1097.86	1127.60	1139.13	1153.19	1171.83	1179.23	1176.99	1154.88
57.5	928.62	977.27	1016.60	1043.50	1065.72	1072.00	1093.32	1106.27	1081.14	1071.96
60.0	827.51	883.59	938.74	957.93	982.49	993.71	1011.61	1022.95	1019.09	988.71
62.5	744.15	798.02	841.73	866.75	896.02	911.28	932.13	946.06	926.24	905.32
65.0	644.03	711.74	760.31	788.93	814.77	823.81	840.53	858.85	837.30	828.89
67.5	558.52	618.77	667.00	706.59	730.50	748.21	758.68	776.30	757.79	748.84
70.0	483.60	531.77	585.72	621.27	643.45	656.09	674.24	685.30	676.58	661.63
72.5	401.88	452.59	502.08	535.53	558.26	573.60	585.45	595.80	579.12	574.59
75.0	333.69	380.45	421.44	458.88	475.56	482.82	489.48	500.50	497.02	490.75
77.5	268.51	310.21	350.32	377.76	393.84	403.16	402.48	410.16	401.83	400.56
80.0	214.94	248.68	283.52	306.35	319.86	324.00	326.24	330.35	330.09	322.65
82.5	165.49	195.31	221.60	243.56	255.39	255.76	261.56	264.24	259.93	257.54
85.0	127.68	149.29	173.72	189.73	197.95	200.79	204.80	206.98	205.39	203.99
87.5	94.87	112.75	132.88	145.82	155.30	155.17	159.35	160.49	160.80	159.09
90.0	71.72	87.27	104.12	113.03	120.18	123.49	122.16	122.57	122.56	122.80
92.5	52.26	64.83	78.91	88.66	93.16	91.33	96.04	93.59	93.87	96.08
95.0	38.51	50.38	60.53	68.18	72.45	72.78	71.25	74.52	75.09	70.72
97.5	31.54	39.21	45.24	50.85	54.84	57.43	58.11	56.34	57.29	57.96
100.0	25.14	31.15	36.72	41.13	45.40	44.13	45.92	47.13	46.59	46.76
102.5	20.27	25.03	30.32	32.70	35.85	36.79	39.31	39.33	39.41	37.63
105.0	16.04	20.93	22.59	27.12	29.09	33.22	31.88	33.05	32.71	31.66
107.5	13.62	16.56	19.10	20.78	24.76	28.09	26.02	28.19	28.10	26.85
110.0	11.41	13.56	14.36	17.28	19.44	21.74	23.63	23.54	23.24	22.18
112.5	10.40	11.00	12.16	13.89	16.04	18.41	19.68	20.22	20.11	18.77
115.0	8.48	8.97	9.74	10.95	12.06	15.10	15.63	16.29	16.20	15.04
117.5	7.23	7.15	8.37	8.71	11.06	11.93	13.95	14.43	13.08	12.38
120.0	6.07	6.10	5.47	7.02	8.92	10.34	10.51	10.97	10.59	10.57
122.5	4.84	4.20	4.26	5.20	6.03	7.15	8.50	8.77	8.03	7.34
125.0	3.36	3.45	3.37	3.65	4.95	5.98	6.23	6.82	6.80	5.99
127.5	2.84	2.52	2.34	2.98	3.50	4.63	4.84	5.03	4.82	4.58
130.0	2.12	1.37	1.42	1.97	2.37	3.08	3.68	4.04	3.82	3.10
132.5	1.62	1.47	0.88	1.38	1.94	2.05	2.66	3.03	2.53	2.43
135.0	1.15	0.80	0.72	0.72	1.02	1.30	1.74	2.29	1.81	1.68
137.5	0.76	0.43	0.34	0.38	0.61	0.92	1.53	1.50	1.25	0.93
140.0	0.30	0.24	0.18	0.16	0.33	0.52	0.93	0.85	0.78	0.53
142.5	0.10	0.24	0.03	0.06	0.20	0.12	0.53	0.44	0.42	0.32
145.0	0.14	0.15	0.11	0.07	0.12	0.20	0.30	0.25	0.13	0.20
147.5	0.10	0.12	0.20	0.24	0.14	0.11	0.14	0.08	0.18	0.09
150.0	0.25	0.38	0.20	0.24	0.12	0.06	0.17	0.16	0.15	0.10
152.5	0.25	0.21	0.32	0.29	0.43	0.17	0.10	0.09	0.19	0.24
155.0	0.59	0.48	0.60	0.42	0.28	0.33	0.42	0.30	0.47	0.16
157.5	0.43	0.45	0.39	0.28	0.42	0.46	0.29	0.40	0.48	0.39
160.0	0.46	0.74	0.40	0.71	0.40	0.78	0.35	0.22	0.63	0.22
162.5	0.51	0.83	0.69	0.54	0.55	0.46	0.69	0.50	0.44	0.67
165.0	0.68	0.92	0.88	0.71	0.77	0.53	0.72	0.51	0.89	0.96
167.5	0.46	1.15	0.70	0.51	0.59	0.87	0.55	0.94	0.48	0.41

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**CANDELA TABULATION - (Cont.)**

<b>170.0</b>	0.67	0.80	0.72	0.60	0.82	0.45	0.61	0.64	0.62	0.94
<b>172.5</b>	0.86	1.01	0.86	0.90	0.77	0.98	1.09	1.28	1.04	0.74
<b>175.0</b>	1.63	0.65	0.46	0.90	0.75	0.61	1.05	0.60	0.45	0.76
<b>177.5</b>	0.94	0.26	0.55	1.10	0.59	0.89	1.23	0.80	2.12	0.92
<b>180.0</b>	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02

**Vert. Horizontal Angles**  
**Angles**

	<b>300</b>	<b>310</b>	<b>320</b>	<b>330</b>	<b>340</b>	<b>350</b>	<b>360</b>
<b>0.0</b>	2180.79	2180.79	2180.79	2180.79	2180.79	2180.79	2180.79
<b>2.5</b>	2215.64	2249.42	2163.10	2185.46	2161.19	2223.49	2192.24
<b>5.0</b>	2173.39	2180.06	2183.81	2188.00	2190.03	2198.10	2179.87
<b>7.5</b>	2177.57	2184.37	2151.93	2153.27	2146.74	2157.10	2171.55
<b>10.0</b>	2155.91	2136.62	2153.96	2157.41	2130.41	2159.68	2135.37
<b>12.5</b>	2133.28	2129.92	2117.99	2112.34	2122.52	2101.05	2108.35
<b>15.0</b>	2086.96	2082.75	2097.68	2099.79	2099.17	2100.32	2081.43
<b>17.5</b>	2064.10	2061.54	2046.73	2042.68	2052.29	2052.22	2053.54
<b>20.0</b>	2013.09	2021.48	2027.34	2000.06	2014.89	2000.23	1989.74
<b>22.5</b>	2002.72	1979.24	1963.87	1970.08	1968.28	1964.88	1967.11
<b>25.0</b>	1945.24	1939.38	1923.98	1922.23	1912.03	1928.78	1918.29
<b>27.5</b>	1885.72	1887.75	1886.42	1868.54	1872.55	1861.06	1864.18
<b>30.0</b>	1840.11	1828.85	1829.91	1801.61	1811.22	1812.77	1799.45
<b>32.5</b>	1787.12	1774.14	1771.43	1746.55	1753.38	1745.59	1752.35
<b>35.0</b>	1723.65	1703.27	1711.58	1685.83	1683.47	1702.01	1688.73
<b>37.5</b>	1649.39	1648.35	1637.97	1616.81	1608.20	1612.29	1618.15
<b>40.0</b>	1606.36	1573.46	1564.24	1554.90	1550.71	1548.24	1549.45
<b>42.5</b>	1527.68	1521.38	1500.71	1480.63	1471.19	1468.96	1461.62
<b>45.0</b>	1456.17	1437.99	1416.41	1404.46	1393.01	1381.42	1386.70
<b>47.5</b>	1384.33	1362.08	1339.49	1321.39	1303.95	1300.77	1291.60
<b>50.0</b>	1308.52	1277.41	1260.46	1243.42	1218.31	1203.95	1200.15
<b>52.5</b>	1228.83	1206.63	1188.69	1156.92	1127.70	1100.81	1090.02
<b>55.0</b>	1143.91	1125.99	1108.28	1069.85	1025.27	991.87	987.93
<b>57.5</b>	1060.04	1044.06	1018.63	986.06	937.65	894.91	891.83
<b>60.0</b>	980.11	965.30	929.31	886.67	835.11	792.46	779.60
<b>62.5</b>	893.81	867.52	844.72	793.98	737.76	694.11	681.53
<b>65.0</b>	816.89	786.94	757.65	711.09	645.41	601.25	582.27
<b>67.5</b>	729.67	703.43	670.32	618.71	560.52	510.78	495.25
<b>70.0</b>	644.21	621.53	580.16	533.93	477.74	427.64	413.76
<b>72.5</b>	561.65	541.28	501.43	447.13	403.12	353.38	338.05
<b>75.0</b>	476.00	459.66	424.43	378.73	331.03	287.34	273.63
<b>77.5</b>	392.52	379.27	352.76	307.99	268.37	231.32	215.70
<b>80.0</b>	320.76	306.18	279.76	247.70	216.09	181.34	170.78
<b>82.5</b>	257.16	241.69	221.37	194.80	166.83	141.45	126.83
<b>85.0</b>	200.45	191.09	174.93	149.51	125.78	107.07	96.34
<b>87.5</b>	157.49	145.98	133.67	116.40	95.83	78.19	70.19
<b>90.0</b>	120.92	116.45	102.19	85.34	69.97	57.60	45.48
<b>92.5</b>	92.44	87.75	79.23	64.44	50.60	39.16	32.21
<b>95.0</b>	72.07	67.60	59.06	51.28	39.91	28.51	23.81
<b>97.5</b>	57.21	53.01	48.69	39.83	32.35	21.98	18.94
<b>100.0</b>	43.42	41.36	35.66	31.15	25.02	17.06	15.02
<b>102.5</b>	35.79	34.20	29.71	25.67	19.01	13.74	12.23
<b>105.0</b>	29.71	26.64	24.44	20.23	17.29	12.03	11.46
<b>107.5</b>	25.74	22.17	18.82	17.08	13.32	11.15	10.17
<b>110.0</b>	19.78	17.79	16.89	13.38	11.53	9.76	8.81
<b>112.5</b>	16.65	14.72	12.67	11.98	10.07	8.48	7.91
<b>115.0</b>	12.86	11.11	10.42	8.60	8.36	7.74	6.69

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**CANDELA TABULATION - (Cont.)**

<b>117.5</b>	11.24	8.54	7.94	6.51	7.20	6.52	5.98
<b>120.0</b>	8.18	6.85	5.89	5.85	5.51	5.27	5.17
<b>122.5</b>	6.55	5.84	4.23	4.71	4.29	4.33	4.24
<b>125.0</b>	5.34	3.94	3.43	2.89	3.93	3.83	3.91
<b>127.5</b>	3.66	2.48	2.26	2.44	3.06	2.95	3.02
<b>130.0</b>	2.20	2.28	1.34	1.67	2.36	2.49	2.54
<b>132.5</b>	1.79	1.35	0.97	1.41	1.74	1.54	1.88
<b>135.0</b>	1.04	0.61	0.67	0.75	1.09	1.29	1.06
<b>137.5</b>	0.87	0.38	0.43	0.46	0.84	0.68	0.92
<b>140.0</b>	0.31	0.25	0.12	0.28	0.36	0.46	0.65
<b>142.5</b>	0.22	0.08	0.09	0.16	0.18	0.25	0.19
<b>145.0</b>	0.16	0.05	0.17	0.14	0.14	0.17	0.10
<b>147.5</b>	0.15	0.18	0.10	0.18	0.12	0.12	0.02
<b>150.0</b>	0.24	0.22	0.26	0.23	0.24	0.17	0.19
<b>152.5</b>	0.34	0.35	0.26	0.27	0.25	0.42	0.20
<b>155.0</b>	0.37	0.34	0.44	0.44	0.46	0.49	0.17
<b>157.5</b>	0.50	0.29	0.49	0.41	0.48	0.57	0.53
<b>160.0</b>	0.61	0.56	0.55	0.39	0.63	0.39	0.48
<b>162.5</b>	0.19	0.40	0.80	0.63	0.65	0.42	0.62
<b>165.0</b>	0.60	0.68	0.57	0.75	0.75	0.69	1.06
<b>167.5</b>	0.81	0.43	1.14	0.73	0.91	0.53	0.81
<b>170.0</b>	1.27	0.80	0.90	0.94	0.81	0.89	0.92
<b>172.5</b>	0.73	0.51	0.74	0.58	0.69	0.66	0.57
<b>175.0</b>	0.43	0.58	0.58	1.04	0.76	1.55	0.62
<b>177.5</b>	0.95	1.81	1.15	0.64	0.60	0.00	0.30
<b>180.0</b>	1.02	1.02	1.02	1.02	1.02	1.02	1.02



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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	797.58	N.A.	12.60
0-30	1688.67	N.A.	26.70
0-40	2761.31	N.A.	43.60
0-60	4847.52	N.A.	76.60
0-80	6026.78	N.A.	95.30
0-90	6216.83	N.A.	98.30
10-90	6009.3	N.A.	95.00
20-40	1963.73	N.A.	31.00
20-50	3068.74	N.A.	48.50
40-70	2824.83	N.A.	44.60
60-80	1179.26	N.A.	18.60
70-80	440.64	N.A.	7.00
80-90	190.05	N.A.	3.00
90-110	92.39	N.A.	1.50
90-120	103.96	N.A.	1.60
90-130	108.19	N.A.	1.70
90-150	109.35	N.A.	1.70
90-180	109.78	N.A.	1.70
110-180	17.39	N.A.	0.30
0-180	6326.61	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	207.54
10-20	590.05
20-30	891.08
30-40	1072.65
40-50	1105.01
50-60	981.20
60-70	738.62
70-80	440.64
80-90	190.05
90-100	66.20
100-110	26.18
110-120	11.57
120-130	4.23
130-140	1.02
140-150	0.14
150-160	0.17
160-170	0.19
170-180	0.08

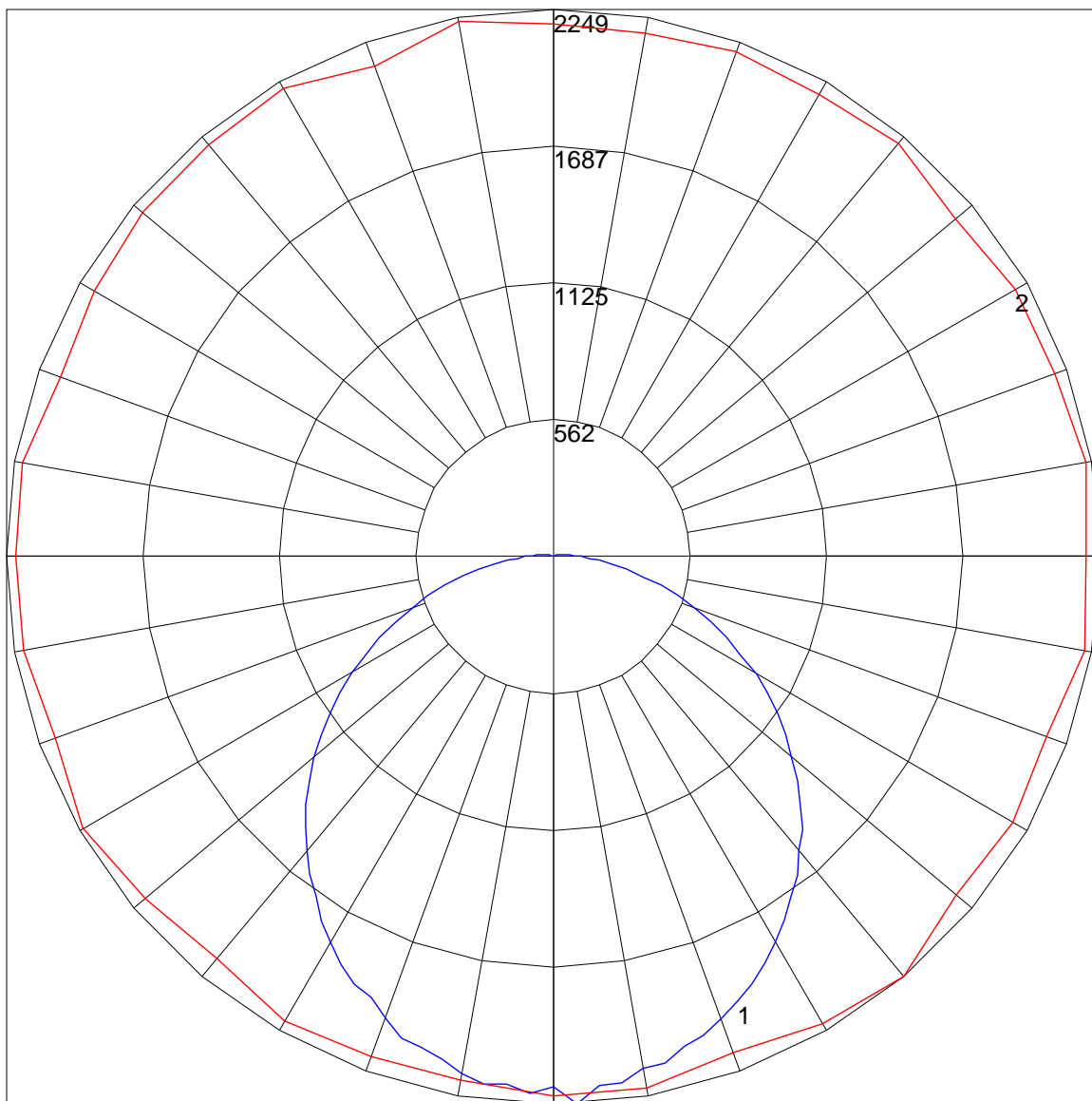
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	100	100	100	98
1	108	103	98	94	105	100	96	93	96	93	90	92	89	86	88	86	84	81
2	98	90	83	77	95	88	81	76	84	78	74	80	76	72	77	73	70	68
3	89	79	70	64	87	77	69	63	74	67	62	71	65	60	68	63	59	57
4	82	70	61	54	79	68	60	54	65	58	53	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	59	51	45	56	50	45	54	49	44	42
6	69	56	47	41	67	55	46	40	53	45	40	51	44	39	49	43	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	45	39	34	32
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	41	35	31	29
9	56	43	34	29	54	42	34	29	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25	24

POLAR GRAPH



Maximum Candela = 2249.42 Located At Horizontal Angle = 310, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (310 - 130) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)