



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LED4HTMOWT30120V-277V-FL_P.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] BS100LED4HTMOWT30120V-277V-F[_PRO FROM 35K
 [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	6517
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
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

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8222	6346	6246
55	7001	5328	5258
65	5014	4225	4214
75	2959	2901	2915
85	1559	1536	1479

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0.0	2294.570	2294.570	2294.570	2294.570	2294.570	2294.570	2294.570	2294.570	2294.570	2294.570
2.5	2273.201	2308.865	2268.009	2295.792	2302.196	2289.299	2259.458	2244.847	2316.442	2305.683
5.0	2279.112	2263.586	2254.197	2272.393	2255.221	2280.088	2238.877	2267.310	2247.359	2246.138
7.5	2242.946	2230.798	2244.561	2267.556	2242.227	2230.079	2257.369	2251.606	2272.177	2208.789
10.0	2206.267	2195.646	2217.528	2242.621	2206.030	2209.173	2223.015	2246.729	2211.912	2239.281
12.5	2201.538	2180.287	2166.543	2187.262	2187.183	2199.774	2197.666	2194.129	2216.138	2212.533
15.0	2129.559	2170.957	2152.317	2156.967	2144.219	2147.766	2167.647	2173.400	2169.213	2179.400
17.5	2112.978	2103.185	2106.919	2122.732	2125.697	2134.800	2122.406	2138.308	2130.022	2119.155
20.0	2077.107	2077.678	2072.220	2088.161	2086.506	2099.225	2114.141	2090.309	2091.383	2101.037
22.5	2027.620	2041.738	2027.591	2030.123	2037.019	2049.285	2063.363	2056.270	2072.319	2069.176
25.0	1984.981	1979.415	1982.971	1972.922	1993.306	1989.375	1995.197	2012.113	2038.783	2034.842
27.5	1935.603	1931.741	1923.672	1913.308	1927.859	1932.755	1940.824	1958.873	1978.814	1981.759
30.0	1875.909	1858.383	1846.728	1873.151	1881.456	1881.870	1887.811	1910.352	1923.150	1946.854
32.5	1808.246	1804.857	1807.743	1823.684	1809.694	1827.605	1837.556	1850.531	1877.673	1879.525
35.0	1727.923	1747.794	1746.109	1753.479	1752.661	1757.548	1775.094	1796.079	1817.113	1827.487
37.5	1662.111	1680.131	1677.796	1668.643	1674.830	1699.401	1705.145	1729.627	1756.355	1762.779
40.0	1588.980	1591.059	1605.206	1595.088	1606.575	1628.063	1638.575	1653.008	1693.303	1707.933
42.5	1514.509	1516.430	1518.164	1518.893	1542.932	1551.818	1563.729	1579.443	1615.019	1618.762
45.0	1422.708	1426.313	1437.742	1441.288	1466.785	1483.031	1488.913	1502.460	1539.838	1560.281
47.5	1327.173	1340.690	1348.946	1365.241	1378.285	1400.580	1412.117	1434.599	1458.392	1486.509
50.0	1224.091	1239.854	1260.711	1281.854	1300.178	1319.143	1330.857	1347.202	1373.802	1386.393
52.5	1115.217	1134.192	1149.374	1179.531	1212.101	1233.332	1258.041	1266.406	1288.553	1308.444
55.0	1012.579	1019.268	1052.785	1095.897	1125.108	1148.645	1167.028	1186.132	1217.264	1227.953
57.5	895.606	902.827	951.910	1002.983	1038.273	1065.287	1090.469	1096.242	1116.980	1128.960
60.0	775.343	794.938	843.430	896.020	945.674	986.018	1009.692	1023.140	1042.864	1050.834
62.5	664.557	689.561	741.599	802.780	858.553	895.507	922.325	939.526	956.225	969.535
65.0	560.608	578.224	641.966	703.807	771.747	816.110	838.425	851.627	870.749	885.695
67.5	461.133	486.571	536.441	613.366	687.778	722.664	753.619	768.308	784.741	797.618
70.0	366.573	395.666	452.837	529.338	596.982	641.247	674.537	685.955	694.133	707.423
72.5	289.767	311.264	369.046	447.488	514.570	555.889	579.396	591.967	601.494	612.617
75.0	223.670	244.024	298.782	372.012	432.237	476.699	495.762	506.954	514.885	526.048
77.5	166.440	187.395	238.684	302.772	357.913	390.908	410.690	418.424	424.651	429.803
80.0	119.840	139.682	183.986	237.985	287.107	321.047	336.337	340.091	345.963	354.593
82.5	83.939	101.495	141.494	183.789	227.493	252.457	266.772	269.334	272.851	271.876
85.0	57.831	74.501	108.175	141.632	176.233	194.725	207.463	208.862	212.320	214.744
87.5	39.743	51.654	78.028	104.195	130.913	150.775	162.016	163.671	164.430	163.031
90.0	23.842	35.250	55.536	79.801	98.333	115.594	121.455	122.332	123.012	125.357
92.5	16.078	24.463	40.797	58.048	75.693	86.836	92.047	94.559	93.880	91.525
95.0	10.906	15.852	27.566	42.945	56.935	67.053	69.388	71.742	72.363	73.447
97.5	8.630	10.886	19.566	30.561	41.644	50.501	54.334	57.289	56.531	56.314
100.0	6.453	8.000	14.226	22.935	31.063	37.290	41.822	43.989	46.925	45.526
102.5	5.458	5.724	9.813	16.620	24.738	28.522	33.753	36.866	35.713	37.112
105.0	4.818	4.857	7.290	13.044	18.206	22.423	26.945	29.310	30.058	30.659
107.5	3.862	3.970	4.975	9.320	13.517	17.694	21.004	24.413	24.285	25.300
110.0	3.251	3.832	3.813	6.069	8.936	13.941	16.867	19.891	21.497	20.985
112.5	3.271	3.389	3.005	4.305	6.690	10.374	13.744	15.941	17.083	18.009
115.0	2.828	2.532	2.227	3.231	5.359	7.901	10.433	12.926	14.029	13.704
117.5	2.049	1.714	1.852	2.089	3.438	5.231	7.744	9.822	11.231	10.955
120.0	2.010	1.714	1.399	1.212	1.892	3.941	5.990	7.379	8.768	8.946
122.5	1.241	1.231	1.202	0.768	1.044	3.084	4.069	5.813	6.108	6.995
125.0	1.084	0.926	0.867	0.601	0.562	1.251	3.133	4.611	4.394	5.419
127.5	0.611	0.640	0.768	0.463	0.355	0.690	1.645	2.896	3.754	3.113
130.0	0.591	0.552	0.591	0.296	0.187	0.197	0.847	1.320	2.355	2.364
132.5	0.512	0.424	0.305	0.256	0.207	0.039	0.404	1.005	1.527	1.399

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135.0	0.296	0.227	0.266	0.197	0.108	0.030	0.000	0.266	0.542	0.473
137.5	0.099	0.148	0.089	0.069	0.039	0.000	0.000	0.000	0.069	0.099
140.0	0.138	0.118	0.020	0.039	0.000	0.039	0.000	0.000	0.000	0.000
142.5	0.059	0.020	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**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	2294.570	2294.570	2294.570	2294.570	2294.570	2294.570	2294.570	2294.570	2294.570	2294.570
2.5	2279.339	2301.693	2293.339	2312.077	2241.882	2287.831	2282.886	2343.663	2290.235	2267.930
5.0	2260.374	2287.359	2284.107	2268.985	2282.462	2262.837	2318.254	2284.019	2269.191	2266.679
7.5	2252.591	2254.719	2287.930	2242.483	2272.334	2273.231	2243.931	2255.438	2286.068	2248.877
10.0	2248.502	2244.473	2216.739	2239.882	2207.646	2221.330	2267.448	2256.197	2228.030	2234.798
12.5	2210.592	2219.823	2186.582	2186.770	2187.834	2200.572	2211.035	2204.730	2219.212	2215.882
15.0	2177.627	2185.725	2188.454	2168.859	2167.135	2144.455	2158.859	2184.287	2184.789	2174.179
17.5	2147.145	2156.071	2139.352	2139.431	2127.756	2139.933	2130.928	2136.534	2129.884	2134.987
20.0	2106.121	2100.180	2106.929	2096.910	2097.914	2107.057	2091.511	2120.111	2091.383	2088.890
22.5	2085.540	2065.689	2055.265	2073.472	2064.063	2052.300	2057.137	2057.403	2064.585	2057.245
25.0	2027.827	2030.675	2003.532	2008.971	2024.684	2014.409	1996.193	2020.685	2007.572	2006.596
27.5	1977.237	1976.932	1966.705	1961.760	1959.523	1954.538	1949.504	1941.179	1937.662	1942.312
30.0	1949.573	1934.696	1922.933	1900.953	1913.948	1893.032	1900.993	1897.101	1883.870	1895.022
32.5	1887.535	1868.580	1852.678	1848.245	1831.024	1847.703	1832.373	1836.935	1835.753	1850.127
35.0	1823.792	1808.216	1790.049	1792.640	1791.084	1781.360	1770.355	1764.119	1787.330	1767.390
37.5	1754.740	1738.464	1728.494	1719.036	1712.484	1706.455	1711.854	1699.431	1713.608	1705.795
40.0	1699.677	1668.377	1653.579	1643.067	1634.900	1640.959	1613.452	1638.486	1626.289	1631.422
42.5	1624.181	1598.300	1589.009	1573.650	1558.754	1548.626	1559.936	1548.892	1550.399	1540.272
45.0	1548.429	1521.700	1513.799	1493.376	1489.317	1473.061	1466.076	1457.741	1461.692	1461.308
47.5	1467.288	1459.042	1428.678	1421.900	1410.166	1393.171	1383.851	1366.334	1371.901	1373.024
50.0	1386.324	1365.714	1357.359	1332.572	1319.400	1304.819	1289.371	1274.997	1253.706	1277.065
52.5	1304.050	1277.617	1274.002	1257.361	1238.643	1218.160	1190.171	1166.053	1157.955	1166.536
55.0	1210.653	1207.964	1191.471	1168.605	1153.295	1118.261	1077.828	1060.509	1046.844	1060.006
57.5	1122.143	1110.774	1105.641	1095.345	1061.799	1024.165	983.033	945.349	928.679	951.930
60.0	1048.499	1040.943	1021.731	1015.613	964.777	934.630	881.902	831.213	824.238	835.509
62.5	959.457	947.861	933.339	913.330	884.414	834.858	775.205	731.294	711.452	724.221
65.0	874.020	855.390	849.883	834.583	798.278	739.432	675.640	623.474	605.238	624.213
67.5	789.657	784.140	764.358	749.166	708.044	650.074	578.332	525.663	510.215	523.171
70.0	704.595	691.433	681.079	658.695	618.223	557.022	496.915	434.207	414.612	434.109
72.5	611.100	605.740	588.342	574.628	531.555	477.861	404.563	353.352	335.461	351.135
75.0	518.481	515.299	506.373	487.802	453.182	395.134	332.879	282.417	262.211	280.851
77.5	427.843	423.370	415.616	405.016	373.765	322.328	264.467	219.749	197.641	220.547
80.0	341.579	340.022	339.933	325.421	300.220	257.058	207.641	166.883	149.741	167.070

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CANDELA TABULATION - (Cont.)

82.5	270.674	271.787	268.615	260.122	237.157	198.912	161.593	123.288	107.475	122.983
85.0	212.705	212.015	207.611	199.897	184.163	149.337	121.475	90.510	75.565	88.747
87.5	160.312	162.765	160.923	151.997	137.593	114.589	89.141	63.782	52.432	63.013
90.0	122.303	124.697	124.529	116.805	103.751	83.919	63.092	43.585	31.901	45.132
92.5	94.934	93.663	92.550	89.752	78.964	62.698	45.782	29.221	20.817	29.655
95.0	74.057	73.407	72.590	66.471	58.363	45.575	32.196	19.862	15.005	19.822
97.5	56.541	55.565	54.757	50.304	44.758	34.423	23.783	13.280	11.911	13.872
100.0	45.033	45.309	42.659	39.467	32.561	25.241	16.778	10.354	9.793	10.167
102.5	37.211	36.590	34.709	30.512	25.034	18.551	13.113	7.960	8.364	8.305
105.0	30.187	30.600	27.852	24.216	18.975	14.886	9.537	7.527	6.561	7.635
107.5	25.398	24.384	21.576	17.615	15.527	11.694	7.941	6.433	6.256	6.473
110.0	21.172	20.719	17.113	15.152	11.832	8.374	5.970	6.029	6.049	5.616
112.5	16.246	16.226	13.862	10.975	8.887	6.374	5.488	5.557	4.916	5.034
115.0	14.325	12.719	10.867	8.689	6.729	4.768	4.729	4.443	4.286	4.158
117.5	10.670	9.931	8.827	5.941	4.630	3.497	3.271	3.468	3.823	3.566
120.0	8.345	7.714	5.941	4.581	3.241	2.493	3.231	3.192	3.044	3.261
122.5	5.823	5.951	4.266	2.837	2.020	1.645	2.296	2.512	2.640	2.709
125.0	4.325	3.961	3.379	1.783	1.153	1.498	1.773	2.138	2.394	1.754
127.5	3.310	2.699	1.665	0.857	0.640	1.192	1.310	1.734	1.369	1.744
130.0	2.039	1.744	0.857	0.227	0.601	0.552	0.926	1.172	1.300	1.241
132.5	1.005	0.749	0.207	0.108	0.325	0.512	0.611	0.946	0.837	0.581
135.0	0.670	0.374	0.059	0.069	0.108	0.414	0.532	0.670	0.542	0.512
137.5	0.020	0.000	0.000	0.059	0.089	0.138	0.355	0.266	0.335	0.315
140.0	0.000	0.000	0.000	0.000	0.039	0.059	0.089	0.266	0.236	0.138
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.118	0.030	0.079
145.0	0.000	0.000	0.000	0.000	0.000	0.030	0.020	0.000	0.020	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**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	2294.570	2294.570	2294.570	2294.570	2294.570	2294.570	2294.570	2294.570	2294.570	2294.570
2.5	2303.989	2301.939	2257.911	2315.102	2287.299	2256.768	2275.359	2257.044	2247.645	2278.196
5.0	2311.358	2284.561	2281.989	2261.665	2279.644	2297.319	2263.172	2270.423	2263.467	2243.793
7.5	2246.404	2245.832	2238.532	2250.719	2243.192	2234.788	2259.615	2268.275	2215.291	2259.546
10.0	2237.015	2231.980	2236.355	2215.281	2228.158	2239.744	2206.631	2225.005	2195.843	2226.128
12.5	2211.932	2216.887	2193.213	2200.287	2203.134	2219.370	2211.114	2190.425	2193.558	2217.429
15.0	2168.297	2190.257	2192.415	2178.159	2166.721	2180.169	2177.676	2171.804	2166.859	2157.884
17.5	2127.086	2132.150	2139.716	2128.771	2131.766	2147.460	2137.933	2142.061	2127.401	2130.249
20.0	2101.441	2096.476	2104.840	2091.235	2115.983	2101.540	2100.269	2102.860	2109.816	2094.171
22.5	2037.384	2041.206	2072.526	2058.920	2036.172	2061.748	2077.137	2067.186	2066.260	2041.275
25.0	2015.473	2015.443	2025.975	2013.089	2005.030	2030.527	2033.019	2042.191	2037.128	2022.143
27.5	1952.331	1962.784	1956.716	1959.592	1957.129	1983.848	1991.454	1991.414	1971.740	1971.612

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CANDELA TABULATION - (Cont.)

30.0	1897.968	1901.495	1889.722	1904.076	1911.564	1931.593	1937.760	1944.381	1961.159	1922.677
32.5	1839.240	1844.984	1838.767	1846.344	1856.757	1879.663	1897.229	1900.461	1875.417	1867.506
35.0	1757.006	1770.217	1779.064	1785.498	1788.749	1816.699	1824.502	1832.029	1815.852	1790.296
37.5	1697.736	1707.746	1720.139	1721.745	1740.385	1732.573	1763.754	1769.508	1765.478	1724.928
40.0	1639.008	1620.595	1639.255	1647.806	1653.382	1678.643	1701.657	1691.529	1691.303	1664.742
42.5	1547.798	1551.375	1570.980	1572.616	1587.128	1599.246	1619.038	1621.068	1621.373	1585.699
45.0	1479.662	1472.697	1492.608	1501.297	1515.858	1519.602	1553.710	1557.118	1541.986	1506.893
47.5	1376.945	1396.659	1416.126	1416.806	1430.087	1448.254	1467.712	1475.820	1456.175	1429.565
50.0	1284.395	1303.213	1325.833	1350.453	1363.793	1362.561	1378.029	1396.580	1375.753	1341.823
52.5	1187.806	1212.397	1229.766	1267.686	1271.361	1283.607	1295.233	1309.774	1290.996	1271.607
55.0	1081.099	1119.158	1144.635	1172.161	1194.713	1197.767	1217.461	1215.816	1204.427	1191.787
57.5	977.062	1031.554	1063.395	1092.498	1104.064	1120.409	1129.985	1133.453	1119.256	1106.784
60.0	877.390	929.763	969.388	1000.993	1029.307	1030.598	1043.406	1044.982	1037.219	1018.017
62.5	773.086	832.859	884.808	920.935	943.250	948.964	960.215	975.703	954.757	942.649
65.0	672.724	743.255	796.485	830.474	847.351	862.641	879.537	888.985	867.873	855.144
67.5	576.135	647.345	714.063	748.121	773.027	777.766	790.958	794.840	778.269	767.717
70.0	487.467	558.707	614.784	659.522	678.566	698.792	696.201	707.393	695.985	685.857
72.5	404.306	479.448	533.693	581.150	588.618	597.475	610.519	613.592	603.435	602.391
75.0	332.653	397.725	451.025	484.620	504.009	510.501	519.210	520.629	516.205	499.861
77.5	265.984	320.121	372.228	407.094	423.222	427.981	426.414	432.119	425.981	418.503
80.0	210.557	257.324	302.181	329.717	334.131	344.524	342.357	350.150	347.450	339.441
82.5	161.090	198.646	237.404	260.694	269.157	271.994	272.812	273.826	271.708	266.694
85.0	119.268	151.681	179.927	201.404	208.823	211.424	216.251	212.449	207.641	208.261
87.5	88.028	113.318	137.209	157.997	158.883	161.849	164.627	163.858	163.287	165.819
90.0	63.526	83.594	103.860	118.963	124.066	126.697	124.992	125.317	124.204	123.120
92.5	46.383	63.013	78.432	86.441	93.427	92.599	93.899	91.496	93.959	92.944
95.0	32.699	46.521	58.994	67.989	70.757	72.846	72.678	73.634	71.141	71.575
97.5	23.950	33.970	45.024	51.693	54.383	55.289	55.752	56.836	56.531	54.216
100.0	17.202	26.728	33.615	38.167	42.206	43.881	43.694	45.536	44.925	45.546
102.5	13.152	19.251	25.024	30.216	34.886	35.625	36.275	36.758	36.778	36.117
105.0	9.428	14.285	20.236	24.137	27.398	29.989	31.211	31.379	29.881	29.645
107.5	7.488	11.389	15.477	18.354	22.610	25.704	25.615	24.965	24.541	24.935
110.0	6.374	8.739	11.586	14.147	18.315	18.945	20.847	21.684	21.724	19.921
112.5	5.271	6.335	8.325	11.428	13.950	16.374	17.182	16.482	17.980	15.911
115.0	5.034	4.699	6.768	8.118	11.281	13.192	13.675	13.921	13.852	12.473
117.5	4.118	3.813	4.690	6.581	8.887	9.842	11.606	10.886	10.640	10.167
120.0	3.428	2.965	3.300	4.857	6.512	7.675	8.335	9.537	8.739	7.714
122.5	2.443	2.217	1.842	2.749	4.729	5.596	6.177	6.611	6.177	5.428
125.0	1.498	1.616	1.310	1.685	2.956	3.941	4.039	4.512	4.276	3.961
127.5	1.429	1.025	0.709	1.034	2.030	2.581	3.300	2.985	3.399	2.887
130.0	1.054	0.887	0.512	0.335	0.650	1.596	2.020	2.266	1.961	1.389
132.5	0.709	0.591	0.305	0.108	0.236	0.680	0.916	1.025	1.212	0.808
135.0	0.522	0.305	0.187	0.118	0.020	0.099	0.424	0.433	0.493	0.079
137.5	0.158	0.148	0.049	0.000	0.000	0.000	0.000	0.000	0.020	0.000
140.0	0.128	0.089	0.039	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.039	0.039	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles

	300	310	320	330	340	350	360
0.0	2294.570	2294.570	2294.570	2294.570	2294.570	2294.570	2294.570
2.5	2283.585	2273.773	2284.354	2257.123	2300.343	2314.511	2273.418
5.0	2256.492	2238.601	2254.955	2259.517	2261.379	2262.531	2279.280
7.5	2267.517	2253.694	2254.512	2254.009	2246.226	2261.330	2242.946
10.0	2217.951	2234.572	2216.690	2229.695	2211.872	2210.996	2206.355
12.5	2199.065	2209.547	2200.996	2193.893	2186.622	2199.538	2201.538
15.0	2167.864	2162.455	2159.154	2155.765	2146.268	2162.997	2129.559
17.5	2134.603	2124.761	2122.692	2122.249	2127.185	2121.776	2112.978
20.0	2091.323	2078.870	2087.363	2086.417	2059.058	2092.348	2077.137
22.5	2038.142	2052.960	2049.117	2034.842	2047.344	2032.803	2027.660
25.0	1979.503	1996.685	1981.720	1972.183	1961.484	1960.627	1984.981
27.5	1955.780	1939.268	1930.795	1937.238	1918.135	1920.657	1935.603
30.0	1888.579	1886.195	1870.767	1872.796	1867.210	1863.407	1875.909
32.5	1844.610	1828.531	1813.940	1823.034	1805.054	1803.763	1808.246
35.0	1782.040	1756.651	1750.277	1749.203	1734.376	1741.233	1727.942
37.5	1710.819	1697.322	1686.564	1669.086	1677.934	1666.929	1662.131
40.0	1640.338	1633.639	1614.398	1601.659	1605.462	1598.053	1588.980
42.5	1567.857	1562.074	1547.651	1525.494	1522.508	1511.898	1514.509
45.0	1498.716	1469.593	1470.923	1446.126	1435.840	1436.412	1422.717
47.5	1416.846	1408.462	1385.063	1372.058	1351.015	1328.444	1327.173
50.0	1334.631	1317.705	1306.247	1282.297	1244.091	1236.623	1224.111
52.5	1252.652	1227.431	1211.461	1189.639	1153.216	1138.803	1115.217
55.0	1168.132	1154.694	1127.010	1096.134	1045.445	1025.229	1012.579
57.5	1101.394	1072.774	1035.140	998.687	945.831	907.448	895.606
60.0	1003.820	976.934	949.999	900.158	836.583	798.091	775.343
62.5	928.403	899.675	866.040	805.834	734.141	690.625	664.557
65.0	837.824	816.150	770.357	707.157	635.858	582.076	560.628
67.5	750.161	723.590	686.694	617.504	539.732	482.147	461.133
70.0	663.670	642.025	595.652	525.988	452.098	387.873	366.573
72.5	583.908	558.914	517.654	449.438	373.854	316.495	289.767
75.0	498.373	475.802	434.453	371.627	300.456	242.694	223.700
77.5	414.937	393.518	353.864	302.900	238.182	184.232	166.440
80.0	335.461	321.372	287.314	241.394	182.361	140.352	119.859
82.5	262.723	252.792	224.655	182.104	139.898	103.338	83.939
85.0	209.503	194.370	174.646	139.623	105.377	74.225	57.831
87.5	160.962	151.573	133.219	106.264	77.279	52.511	39.743
90.0	122.480	114.598	100.894	78.737	56.304	36.354	23.852
92.5	91.978	83.929	73.841	58.383	40.078	24.975	16.078
95.0	69.900	65.673	57.260	44.068	28.581	15.990	10.906
97.5	55.467	49.487	41.063	30.837	20.502	11.093	8.640
100.0	41.930	38.265	31.546	22.088	14.591	7.281	6.453
102.5	33.408	28.669	24.285	16.295	10.492	5.951	5.458
105.0	27.507	22.709	16.798	12.936	6.768	4.847	4.818
107.5	20.837	17.684	12.808	8.975	4.749	3.911	3.862
110.0	17.389	13.842	9.882	6.020	3.714	3.281	3.251
112.5	13.645	10.995	6.492	4.788	2.975	2.896	3.271
115.0	9.832	7.872	4.995	2.680	2.187	2.355	2.828

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CANDELA TABULATION - (Cont.)

117.5	8.867	5.025	3.468	2.039	1.862	2.118	2.049
120.0	5.576	3.941	2.217	1.103	1.704	1.813	2.010
122.5	4.414	2.453	1.044	0.867	1.350	1.320	1.241
125.0	3.025	1.261	0.631	0.640	0.877	1.360	1.084
127.5	1.468	0.522	0.256	0.650	0.542	0.788	0.611
130.0	0.719	0.138	0.167	0.296	0.552	0.749	0.591
132.5	0.158	0.020	0.158	0.256	0.394	0.502	0.512
135.0	0.000	0.020	0.128	0.148	0.256	0.325	0.296
137.5	0.000	0.020	0.020	0.069	0.187	0.256	0.099
140.0	0.000	0.000	0.000	0.079	0.079	0.049	0.138
142.5	0.000	0.000	0.000	0.020	0.000	0.010	0.059
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.020
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	827.04	N.A.	12.70
0-30	1751.25	N.A.	26.90
0-40	2864.2	N.A.	44.00
0-60	5025.75	N.A.	77.10
0-80	6234.57	N.A.	95.70
0-90	6422.81	N.A.	98.60
10-90	6207.48	N.A.	95.30
20-40	2037.15	N.A.	31.30
20-50	3183.37	N.A.	48.80
40-70	2921.46	N.A.	44.80
60-80	1208.82	N.A.	18.50
70-80	448.91	N.A.	6.90
80-90	188.25	N.A.	2.90
90-110	83.14	N.A.	1.30
90-120	91.28	N.A.	1.40
90-130	93.57	N.A.	1.40
90-150	93.86	N.A.	1.40
90-180	93.86	N.A.	1.40
110-180	10.72	N.A.	0.20
0-180	6516.68	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	215.34
10-20	611.71
20-30	924.21
30-40	1112.95
40-50	1146.22
50-60	1015.33
60-70	759.91
70-80	448.91
80-90	188.25
90-100	61.57
100-110	21.58
110-120	8.14
120-130	2.29
130-140	0.29
140-150	0.01
150-160	0.00
160-170	0.00
170-180	0.00

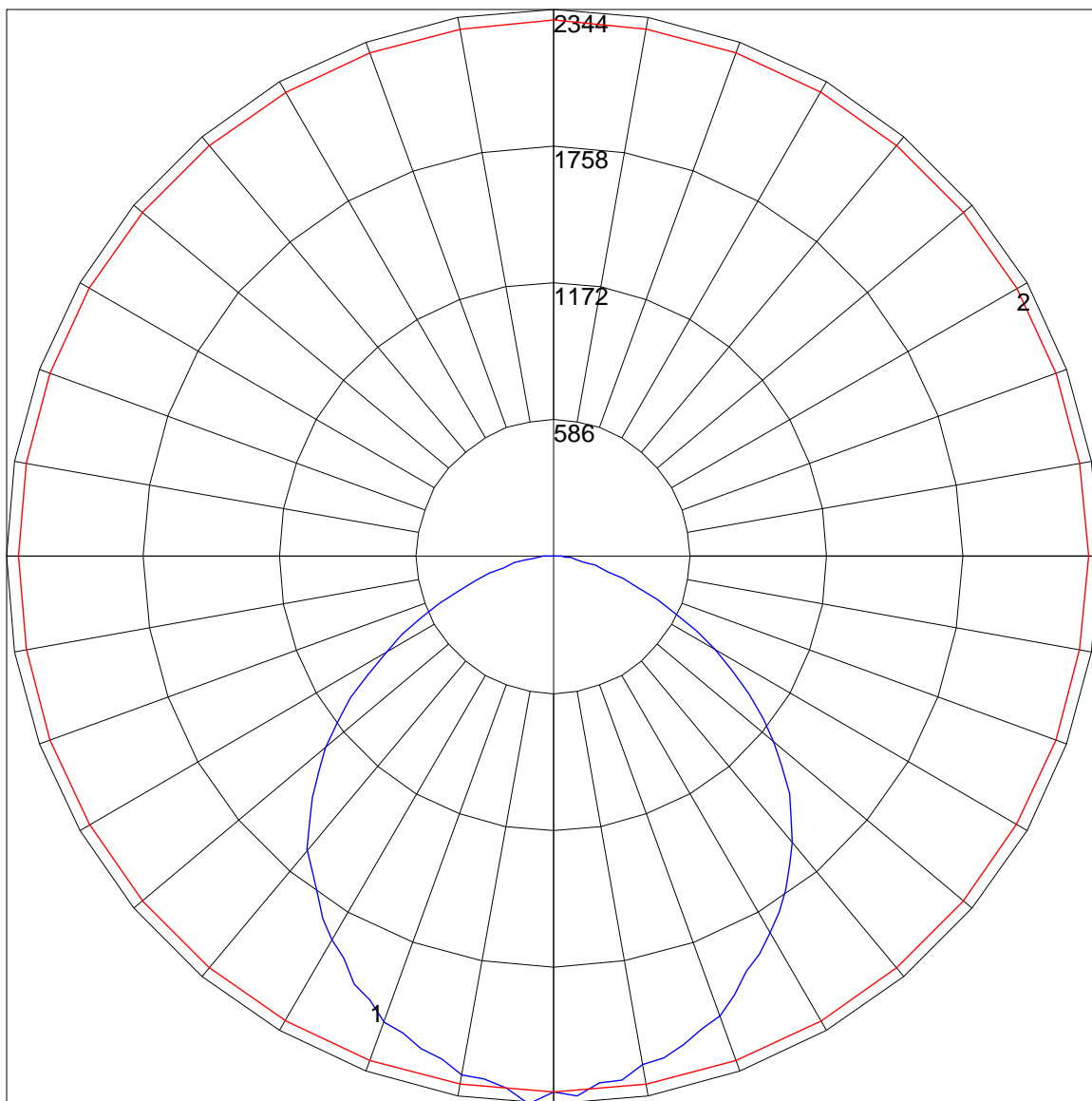
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 2343.663 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 (0)