



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LED4HTLOWT30120V-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 10:38:13 2017
 [MANUFAC] BEGHELLI
 [LUMINAIRE] BS100LED4HTLOWT30120V-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: 31.97
 [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: 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	5431
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
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)	1.36
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	6818	5300	5179
55	5754	4446	4325
65	4118	3518	3466
75	2440	2427	2409
85	1295	1285	1226

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0.0	1900.461	1900.461	1900.461	1900.461	1900.461	1900.461	1900.461	1900.461	1900.461	1900.461
2.5	1911.288	1930.943	1911.623	1886.234	1932.076	1906.983	1886.244	1946.607	1885.584	1922.766
5.0	1895.131	1898.362	1898.559	1890.707	1909.436	1871.387	1881.308	1866.215	1888.658	1899.436
7.5	1861.368	1870.993	1874.402	1887.052	1868.698	1894.431	1882.658	1863.466	1883.239	1878.441
10.0	1837.674	1835.388	1845.940	1831.329	1845.477	1864.521	1837.388	1848.757	1849.260	1842.955
12.5	1808.207	1841.299	1814.482	1803.537	1824.177	1826.994	1825.457	1843.477	1839.329	1836.738
15.0	1808.039	1796.089	1797.872	1785.744	1792.108	1807.300	1798.837	1813.793	1825.418	1808.650
17.5	1760.414	1758.208	1766.562	1772.621	1761.804	1777.301	1760.680	1794.985	1790.591	1789.803
20.0	1748.740	1722.524	1732.159	1728.524	1754.474	1733.735	1739.489	1747.124	1749.725	1756.976
22.5	1686.505	1697.105	1704.100	1688.396	1698.544	1713.982	1701.293	1707.864	1736.238	1734.326
25.0	1645.491	1644.328	1655.471	1651.648	1657.865	1657.747	1668.840	1694.012	1700.179	1693.037
27.5	1618.506	1598.172	1605.078	1615.915	1614.989	1612.457	1633.550	1645.333	1652.151	1649.471
30.0	1558.547	1554.301	1571.522	1560.330	1564.970	1573.808	1586.635	1590.201	1609.038	1620.437
32.5	1507.198	1501.937	1510.489	1513.474	1509.267	1513.464	1534.991	1551.808	1573.542	1577.877
35.0	1451.988	1450.658	1439.889	1459.022	1458.795	1464.579	1479.031	1491.071	1516.952	1526.587
37.5	1399.142	1391.339	1387.930	1398.866	1410.274	1413.880	1422.944	1442.924	1458.007	1477.189
40.0	1336.118	1329.084	1328.355	1335.182	1350.818	1348.660	1367.753	1386.403	1406.875	1417.151
42.5	1260.051	1260.455	1264.583	1272.750	1282.947	1290.730	1311.912	1315.478	1349.911	1356.620
45.0	1179.797	1185.885	1197.747	1202.762	1227.904	1235.805	1242.357	1266.337	1285.252	1293.706
47.5	1101.513	1107.976	1120.222	1133.945	1156.989	1166.290	1171.176	1191.747	1213.067	1232.357
50.0	1027.081	1021.968	1042.824	1060.095	1081.582	1106.941	1116.675	1132.586	1141.472	1162.575
52.5	933.812	942.097	957.871	987.515	1008.914	1036.322	1050.381	1058.322	1070.410	1088.922
55.0	832.149	853.676	877.143	906.276	938.088	959.516	982.737	991.032	999.032	1009.997
57.5	748.673	758.299	786.938	834.730	867.252	885.448	909.310	920.788	935.654	954.412
60.0	647.079	667.355	708.359	752.112	792.761	827.992	840.799	851.035	867.498	876.907
62.5	555.367	569.367	616.124	671.227	718.694	747.461	770.978	783.086	797.332	807.578
65.0	460.404	486.876	532.845	594.972	645.473	676.537	700.517	707.108	726.467	728.457
67.5	380.287	403.065	455.172	512.875	572.726	609.051	627.700	638.646	650.370	661.296
70.0	306.584	326.682	373.647	437.971	499.989	532.599	560.707	565.653	576.913	589.770
72.5	241.975	259.876	310.308	370.514	430.572	464.473	477.379	497.211	507.220	512.235
75.0	184.498	203.789	249.788	303.195	360.278	400.188	411.833	419.015	431.537	434.700
77.5	136.036	155.780	199.158	250.320	296.457	325.944	344.436	348.367	355.105	362.879
80.0	98.845	115.741	153.750	198.587	235.689	266.595	279.403	282.437	285.521	293.087
82.5	72.077	83.870	121.229	153.179	187.198	212.291	221.414	225.621	225.581	229.039
85.0	48.048	60.836	88.116	115.909	146.036	164.253	171.060	171.711	176.292	178.124
87.5	33.802	43.703	65.703	90.126	110.500	125.022	132.529	134.815	135.820	136.499
90.0	19.753	29.329	46.058	64.107	83.318	97.338	98.333	103.919	104.668	102.678
92.5	13.261	19.684	33.162	48.413	62.432	73.210	77.535	78.757	79.466	78.097
95.0	9.852	12.768	23.379	35.447	47.033	54.688	57.339	60.481	59.595	60.481
97.5	6.896	9.093	17.734	25.960	35.408	43.053	45.024	46.787	46.964	47.861
100.0	5.635	6.768	11.960	18.620	25.812	32.630	34.935	37.162	37.576	37.644
102.5	4.906	4.857	8.256	13.675	19.793	24.591	28.196	31.172	30.315	31.103
105.0	3.813	3.872	5.970	9.773	14.482	18.936	21.990	25.083	24.955	25.192
107.5	3.113	3.458	4.227	6.788	11.241	14.207	18.620	20.335	20.364	20.364
110.0	2.443	2.630	3.202	5.054	8.039	11.281	14.453	16.078	16.867	17.517
112.5	2.522	2.660	2.640	3.488	6.128	8.906	11.123	13.340	14.167	14.778
115.0	2.148	1.803	1.941	2.473	4.227	6.473	8.502	10.364	11.517	11.507
117.5	1.754	1.901	1.635	1.626	2.788	5.113	7.143	8.345	8.699	9.891
120.0	1.586	1.448	1.438	1.271	1.842	3.793	5.300	6.640	7.103	7.547
122.5	1.163	1.251	1.064	0.798	0.808	2.315	3.537	4.433	5.291	5.261
125.0	1.015	1.084	0.660	0.493	0.404	1.261	2.749	3.123	3.645	4.039
127.5	0.591	0.621	0.581	0.365	0.217	0.571	1.153	2.138	2.788	2.896
130.0	0.532	0.621	0.325	0.276	0.286	0.167	0.837	1.261	1.783	2.000
132.5	0.443	0.335	0.345	0.197	0.108	0.030	0.266	0.581	0.828	1.094

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CANDELA TABULATION - (Cont.)

135.0	0.217	0.374	0.177	0.089	0.089	0.030	0.020	0.167	0.463	0.453
137.5	0.118	0.059	0.148	0.039	0.049	0.030	0.020	0.000	0.049	0.059
140.0	0.089	0.089	0.030	0.049	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.020	0.030	0.039	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. 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	1900.461	1900.461	1900.461	1900.461	1900.461	1900.461	1900.461	1900.461	1900.461	1900.461
2.5	1893.416	1968.794	1879.220	1893.909	1912.135	1890.500	1884.037	1885.367	1880.461	1942.706
5.0	1869.782	1898.480	1901.525	1903.682	1895.081	1896.628	1873.762	1873.663	1882.963	1891.052
7.5	1853.329	1876.904	1870.826	1900.569	1873.801	1861.358	1898.382	1867.171	1873.466	1883.584
10.0	1834.216	1841.871	1873.870	1872.481	1864.718	1836.038	1862.925	1866.215	1853.388	1872.786
12.5	1835.270	1838.058	1824.423	1807.901	1833.171	1828.403	1846.659	1848.787	1843.969	1844.767
15.0	1818.630	1830.502	1809.438	1811.231	1816.344	1818.699	1809.674	1827.802	1834.708	1818.216
17.5	1788.759	1785.862	1793.911	1788.453	1797.202	1789.488	1779.123	1791.793	1769.616	1786.680
20.0	1758.740	1758.148	1747.242	1740.523	1741.075	1727.105	1747.548	1760.740	1751.242	1759.853
22.5	1730.228	1710.662	1717.519	1713.223	1720.484	1701.953	1695.037	1721.499	1715.154	1721.440
25.0	1700.445	1685.766	1684.919	1679.362	1677.569	1669.214	1673.165	1674.298	1674.722	1678.436
27.5	1650.860	1649.313	1641.816	1633.058	1633.797	1624.023	1626.772	1632.378	1630.023	1628.141
30.0	1611.797	1607.265	1601.955	1588.359	1586.684	1571.049	1575.266	1574.694	1582.290	1579.305
32.5	1560.517	1553.522	1536.557	1535.464	1538.902	1526.833	1523.188	1518.735	1522.962	1521.168
35.0	1516.341	1500.972	1489.248	1486.420	1470.135	1472.204	1476.795	1479.632	1479.918	1474.687
37.5	1467.889	1444.481	1430.895	1430.037	1432.028	1425.496	1424.382	1415.161	1415.851	1423.683
40.0	1415.023	1398.659	1379.398	1374.817	1360.995	1352.630	1357.438	1357.271	1366.128	1360.335
42.5	1346.522	1332.296	1327.301	1316.070	1299.341	1303.449	1300.819	1289.656	1293.341	1290.228
45.0	1292.060	1266.967	1255.923	1256.120	1238.061	1224.298	1216.486	1224.781	1218.397	1227.687
47.5	1221.481	1202.712	1198.496	1188.880	1177.560	1153.886	1147.778	1141.571	1129.877	1139.177
50.0	1143.610	1133.867	1124.783	1119.187	1106.380	1089.306	1076.193	1062.390	1055.888	1057.563
52.5	1074.636	1071.119	1057.967	1044.342	1034.795	1016.204	985.565	973.023	965.929	973.151
55.0	1008.539	996.953	996.382	978.708	958.058	934.718	905.448	884.887	879.922	884.148
57.5	942.226	927.989	925.477	909.694	887.557	849.331	823.243	787.234	781.165	793.549
60.0	870.001	858.700	852.218	834.996	810.692	771.687	734.545	703.078	679.217	695.167
62.5	800.199	789.037	784.436	765.500	737.629	693.522	643.208	603.130	591.849	606.381
65.0	726.112	717.176	713.255	691.285	662.291	616.351	565.515	521.693	507.102	524.117
67.5	663.660	646.291	640.705	616.952	592.322	542.806	479.024	437.330	424.079	437.045
70.0	582.509	572.904	565.288	543.259	514.708	464.857	406.415	360.504	346.209	361.342
72.5	507.565	501.112	491.969	474.443	445.626	398.730	338.229	294.831	275.994	293.156
75.0	432.138	424.138	419.084	408.493	376.199	324.781	276.920	235.157	215.976	233.226
77.5	358.229	352.711	349.096	337.451	310.151	267.689	223.099	180.282	165.937	180.893
80.0	289.343	288.398	283.068	270.930	251.088	214.123	172.903	138.893	122.510	140.046

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CANDELA TABULATION - (Cont.)

82.5	227.207	226.734	223.138	214.734	198.124	165.652	132.874	103.751	89.486	101.594
85.0	177.533	178.489	173.356	168.124	150.765	124.963	100.175	74.934	62.718	74.264
87.5	135.830	137.869	135.504	128.677	114.520	93.436	73.782	53.250	42.718	52.915
90.0	103.101	103.013	103.377	97.949	87.220	69.545	53.102	37.191	26.167	36.127
92.5	78.087	78.954	77.880	73.920	62.560	53.014	38.088	25.034	18.000	24.157
95.0	61.073	60.846	60.196	56.344	49.112	38.216	27.674	15.675	12.975	16.344
97.5	46.521	47.536	45.792	43.753	37.034	28.374	19.773	12.059	9.852	11.921
100.0	38.117	37.241	35.743	31.881	28.847	21.172	14.532	8.660	8.276	8.325
102.5	30.886	30.719	28.630	24.817	20.679	16.344	11.566	7.015	6.345	7.044
105.0	24.472	25.231	22.157	20.384	15.330	12.354	8.483	6.069	5.813	6.749
107.5	21.192	19.586	18.206	16.453	12.867	9.724	6.749	5.665	5.015	5.113
110.0	17.537	17.044	14.719	12.443	9.192	7.320	5.369	4.936	5.034	4.709
112.5	14.266	13.280	11.547	9.320	7.281	5.448	4.384	4.404	3.882	4.591
115.0	11.389	10.098	9.261	7.497	5.497	3.980	4.079	3.832	3.438	3.763
117.5	8.896	8.847	7.143	5.212	3.961	2.946	3.310	3.113	3.192	3.241
120.0	6.837	6.611	4.995	3.576	2.404	2.128	2.433	2.759	2.778	2.463
122.5	6.059	4.177	3.517	2.709	1.310	1.606	2.197	2.108	1.951	1.823
125.0	3.527	3.557	2.394	1.468	1.025	1.547	1.744	1.832	1.704	1.685
127.5	3.153	2.355	1.507	0.699	0.759	0.897	1.015	1.389	1.153	1.143
130.0	1.714	1.103	0.778	0.266	0.384	0.719	0.926	1.133	1.005	0.956
132.5	0.956	0.493	0.246	0.128	0.187	0.355	0.522	0.621	0.690	0.818
135.0	0.286	0.236	0.030	0.059	0.138	0.187	0.345	0.384	0.522	0.355
137.5	0.020	0.000	0.000	0.000	0.108	0.197	0.187	0.286	0.236	0.305
140.0	0.000	0.000	0.000	0.020	0.000	0.069	0.128	0.079	0.128	0.049
142.5	0.000	0.000	0.000	0.000	0.000	0.039	0.059	0.108	0.089	0.059
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.020	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>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	1900.461	1900.461	1900.461	1900.461	1900.461	1900.461	1900.461	1900.461	1900.461	1900.461
2.5	1911.968	1922.224	1895.594	1876.717	1909.180	1883.289	1879.377	1885.535	1852.659	1885.890
5.0	1911.633	1895.781	1873.584	1908.323	1870.323	1897.111	1893.170	1899.219	1894.678	1877.781
7.5	1892.825	1889.288	1871.328	1867.319	1878.156	1875.289	1889.466	1882.510	1857.801	1860.550
10.0	1877.042	1874.826	1868.451	1864.461	1851.536	1845.289	1855.949	1839.959	1843.654	1846.196
12.5	1835.861	1843.388	1835.240	1850.649	1843.033	1831.950	1852.560	1843.900	1824.679	1832.768
15.0	1831.290	1801.950	1802.926	1799.921	1808.561	1817.802	1805.714	1818.157	1801.379	1808.926
17.5	1790.778	1794.305	1774.217	1788.729	1778.000	1794.690	1792.562	1793.832	1796.758	1782.798
20.0	1748.218	1747.932	1741.449	1743.607	1756.956	1759.094	1760.345	1758.612	1747.824	1746.198
22.5	1704.169	1711.273	1712.898	1717.174	1712.948	1715.539	1719.588	1722.790	1715.115	1714.061
25.0	1667.136	1680.071	1686.603	1676.052	1676.387	1667.806	1712.090	1692.820	1688.534	1677.313
27.5	1629.166	1621.491	1629.629	1631.245	1654.978	1662.013	1661.766	1658.013	1662.683	1651.461

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CANDELA TABULATION - (Cont.)

30.0	1585.729	1578.054	1586.241	1589.581	1599.334	1603.718	1631.875	1627.590	1614.280	1603.295
32.5	1537.868	1532.173	1528.360	1546.025	1549.670	1565.276	1578.152	1575.483	1561.729	1545.178
35.0	1464.845	1480.499	1477.928	1506.164	1494.341	1511.514	1531.247	1526.922	1529.149	1493.238
37.5	1418.865	1421.644	1431.870	1434.047	1442.136	1449.456	1459.869	1468.431	1464.717	1446.244
40.0	1357.990	1351.586	1365.556	1384.009	1380.078	1391.920	1421.082	1417.644	1406.531	1379.438
42.5	1284.307	1295.607	1311.222	1320.592	1320.335	1327.055	1349.409	1355.359	1354.404	1318.276
45.0	1220.919	1228.101	1242.465	1253.036	1263.066	1267.765	1281.184	1290.957	1285.716	1263.578
47.5	1146.999	1159.511	1174.132	1184.417	1190.092	1195.363	1222.111	1234.101	1211.195	1183.146
50.0	1070.055	1087.336	1105.385	1118.350	1119.906	1140.458	1148.418	1158.497	1147.157	1125.896
52.5	993.476	1019.239	1038.411	1047.800	1058.272	1058.390	1082.183	1089.040	1076.370	1055.533
55.0	905.458	939.733	960.225	978.747	995.200	994.215	1007.840	1020.628	1004.500	991.584
57.5	819.864	854.218	889.153	913.024	919.655	926.896	937.270	948.097	943.467	921.625
60.0	729.245	776.899	811.598	841.824	852.297	861.587	870.799	871.715	862.523	849.095
62.5	646.971	695.029	735.747	762.791	780.318	788.318	799.736	808.199	796.248	781.264
65.0	563.741	618.666	665.246	693.866	716.201	718.230	731.728	735.600	720.201	710.270
67.5	484.285	537.496	589.770	621.612	644.577	649.168	654.606	664.714	654.862	635.927
70.0	408.326	465.241	516.393	543.318	563.426	572.923	582.302	594.785	579.416	563.771
72.5	341.382	394.513	446.177	477.664	495.408	501.654	511.338	513.644	507.181	494.196
75.0	275.689	327.520	376.928	404.129	423.823	426.444	429.124	435.340	428.020	423.400
77.5	218.842	270.763	311.510	335.953	350.741	353.342	358.948	362.357	354.623	348.436
80.0	176.292	213.976	250.536	277.383	285.925	286.033	287.403	293.530	285.038	281.107
82.5	133.682	166.371	197.749	216.714	222.813	226.773	227.532	229.640	226.527	223.039
85.0	100.146	126.115	151.809	164.696	177.996	178.272	177.523	177.109	177.080	174.233
87.5	73.486	92.589	113.397	129.130	135.889	136.430	135.652	136.302	133.849	132.293
90.0	51.753	70.008	85.407	98.146	102.195	104.136	103.495	105.673	105.909	102.214
92.5	37.723	51.043	64.442	73.161	78.777	80.215	78.343	77.939	77.151	77.841
95.0	27.901	37.979	49.230	56.186	58.757	60.009	60.314	60.600	61.999	60.284
97.5	20.128	29.251	36.374	42.245	44.846	47.960	46.334	46.186	46.728	48.078
100.0	14.630	21.881	27.320	33.812	36.275	38.364	38.344	38.167	38.108	38.915
102.5	10.650	16.512	21.142	25.201	28.728	29.162	30.344	30.738	29.980	30.167
105.0	8.492	11.970	16.009	19.290	22.374	24.216	24.384	26.275	25.152	24.679
107.5	6.749	9.448	12.266	14.798	18.325	20.305	20.463	21.428	20.699	20.315
110.0	5.458	7.261	9.350	11.763	14.729	16.413	17.753	18.561	17.005	16.354
112.5	4.207	5.330	7.024	9.694	11.093	13.891	13.714	13.911	13.330	13.507
115.0	3.793	3.882	5.153	7.123	8.955	10.551	11.251	11.753	10.778	10.315
117.5	3.103	2.995	3.793	4.877	7.034	8.611	9.625	8.916	8.975	8.364
120.0	2.621	2.217	2.562	3.527	5.044	6.453	7.212	7.399	6.975	6.305
122.5	2.355	1.566	1.458	2.266	3.300	4.227	5.409	5.675	5.064	4.660
125.0	1.793	1.192	0.788	1.231	2.276	3.261	3.291	3.892	3.645	2.946
127.5	1.074	0.906	0.552	0.670	1.153	2.217	2.266	2.778	2.818	2.256
130.0	0.828	0.581	0.315	0.345	0.611	1.074	1.754	1.911	1.793	1.458
132.5	0.680	0.473	0.148	0.059	0.236	0.512	0.926	1.015	1.005	0.522
135.0	0.305	0.246	0.089	0.030	0.000	0.039	0.236	0.414	0.325	0.128
137.5	0.246	0.128	0.030	0.000	0.000	0.000	0.000	0.030	0.000	0.000
140.0	0.089	0.049	0.030	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.059	0.030	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
Angles

	<u>300</u>	<u>310</u>	<u>320</u>	<u>330</u>	<u>340</u>	<u>350</u>	<u>360</u>
0.0	1900.461	1900.461	1900.461	1900.461	1900.461	1900.461	1900.461
2.5	1858.471	1885.614	1882.028	1881.013	1922.972	1854.097	1911.288
5.0	1889.683	1862.205	1881.367	1890.313	1873.929	1880.796	1895.131
7.5	1883.151	1887.791	1892.973	1859.782	1862.461	1866.235	1861.368
10.0	1852.393	1848.708	1851.201	1860.885	1876.136	1862.619	1837.674
12.5	1833.841	1829.319	1825.467	1818.068	1823.980	1814.433	1808.207
15.0	1799.773	1802.768	1804.433	1805.586	1799.281	1787.704	1808.039
17.5	1788.581	1767.675	1783.951	1770.818	1769.823	1759.222	1760.414
20.0	1754.996	1748.543	1740.829	1729.203	1729.391	1729.006	1748.740
22.5	1710.248	1705.667	1704.889	1703.864	1689.431	1699.568	1686.505
25.0	1655.914	1658.535	1651.973	1643.649	1649.205	1649.412	1645.491
27.5	1626.043	1620.664	1620.152	1598.940	1612.073	1601.216	1618.506
30.0	1576.970	1576.576	1558.468	1557.404	1546.813	1552.064	1558.547
32.5	1541.375	1517.257	1515.001	1513.346	1504.824	1491.750	1507.198
35.0	1484.361	1470.549	1464.460	1457.249	1445.495	1455.101	1452.017
37.5	1424.570	1414.146	1408.008	1402.807	1391.782	1392.856	1399.142
40.0	1372.788	1359.586	1347.842	1335.636	1329.478	1334.936	1336.118
42.5	1305.961	1303.774	1280.021	1267.332	1276.041	1253.608	1260.051
45.0	1247.766	1230.367	1219.796	1207.047	1188.348	1192.742	1179.816
47.5	1180.900	1165.226	1155.068	1138.438	1117.384	1112.724	1101.532
50.0	1117.739	1098.124	1082.045	1055.977	1039.021	1033.751	1027.081
52.5	1050.341	1028.086	1018.628	993.545	957.802	940.905	933.812
55.0	975.653	953.536	938.038	912.147	879.390	853.804	832.149
57.5	911.950	889.961	866.109	828.809	789.746	759.382	748.673
60.0	838.780	820.366	794.150	753.845	702.083	660.744	647.099
62.5	770.003	750.860	716.300	670.251	616.814	573.268	555.377
65.0	694.536	677.148	644.577	585.613	529.870	483.694	460.404
67.5	624.755	602.479	569.682	519.998	449.557	404.168	380.287
70.0	553.692	534.274	493.782	434.552	369.667	332.190	306.624
72.5	481.093	463.773	427.055	371.903	311.757	261.551	241.985
75.0	408.897	395.252	357.480	308.190	252.802	203.641	184.498
77.5	340.682	329.559	296.614	249.068	198.400	153.997	136.036
80.0	277.117	264.684	239.285	199.631	154.775	115.564	98.865
82.5	218.439	209.976	188.892	154.647	115.643	84.579	72.077
85.0	172.745	160.607	147.810	116.687	87.771	61.782	48.048
87.5	132.775	126.657	109.899	88.530	65.122	43.575	33.802
90.0	102.323	94.087	84.175	64.806	45.841	30.521	19.763
92.5	75.969	73.555	62.206	47.654	33.290	19.773	13.261
95.0	59.388	54.639	47.930	36.167	23.605	13.753	9.862
97.5	46.038	42.580	35.576	26.265	17.074	9.586	6.896
100.0	35.487	31.359	25.615	18.807	11.862	6.384	5.645
102.5	27.950	24.206	20.226	14.670	8.818	4.512	4.906
105.0	22.197	18.236	14.236	10.207	5.724	3.842	3.823
107.5	17.872	14.463	11.251	6.946	3.517	3.310	3.113
110.0	12.995	11.083	8.591	5.261	3.241	2.946	2.443
112.5	10.680	8.059	6.069	3.379	2.699	2.433	2.522
115.0	8.364	6.581	4.453	2.453	2.108	2.217	2.148

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CANDELA TABULATION - (Cont.)

117.5	6.916	4.877	2.896	1.576	1.488	1.586	1.754
120.0	4.965	2.995	1.773	1.015	1.458	1.488	1.586
122.5	3.527	2.424	0.887	0.581	1.163	1.103	1.163
125.0	2.463	1.202	0.512	0.670	0.887	1.015	1.015
127.5	1.113	0.483	0.207	0.433	0.463	0.601	0.591
130.0	0.709	0.118	0.108	0.355	0.365	0.542	0.532
132.5	0.108	0.059	0.089	0.148	0.414	0.463	0.463
135.0	0.020	0.020	0.059	0.158	0.089	0.266	0.217
137.5	0.000	0.000	0.039	0.089	0.197	0.217	0.118
140.0	0.000	0.000	0.020	0.089	0.079	0.108	0.089
142.5	0.000	0.000	0.000	0.000	0.000	0.030	0.020
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	689.55	N.A.	12.70
0-30	1460.33	N.A.	26.90
0-40	2387.59	N.A.	44.00
0-60	4188.95	N.A.	77.10
0-80	5195.46	N.A.	95.70
0-90	5352.27	N.A.	98.60
10-90	5173.01	N.A.	95.30
20-40	1698.04	N.A.	31.30
20-50	2652.81	N.A.	48.90
40-70	2434.34	N.A.	44.80
60-80	1006.51	N.A.	18.50
70-80	373.53	N.A.	6.90
80-90	156.80	N.A.	2.90
90-110	69.38	N.A.	1.30
90-120	76.12	N.A.	1.40
90-130	78.01	N.A.	1.40
90-150	78.25	N.A.	1.40
90-180	78.25	N.A.	1.40
110-180	8.87	N.A.	0.20
0-180	5430.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	179.25
10-20	510.30
20-30	770.77
30-40	927.26
40-50	954.78
50-60	846.58
60-70	632.98
70-80	373.53
80-90	156.80
90-100	51.44
100-110	17.94
110-120	6.74
120-130	1.89
130-140	0.23
140-150	0.01
150-160	0.00
160-170	0.00
170-180	0.00

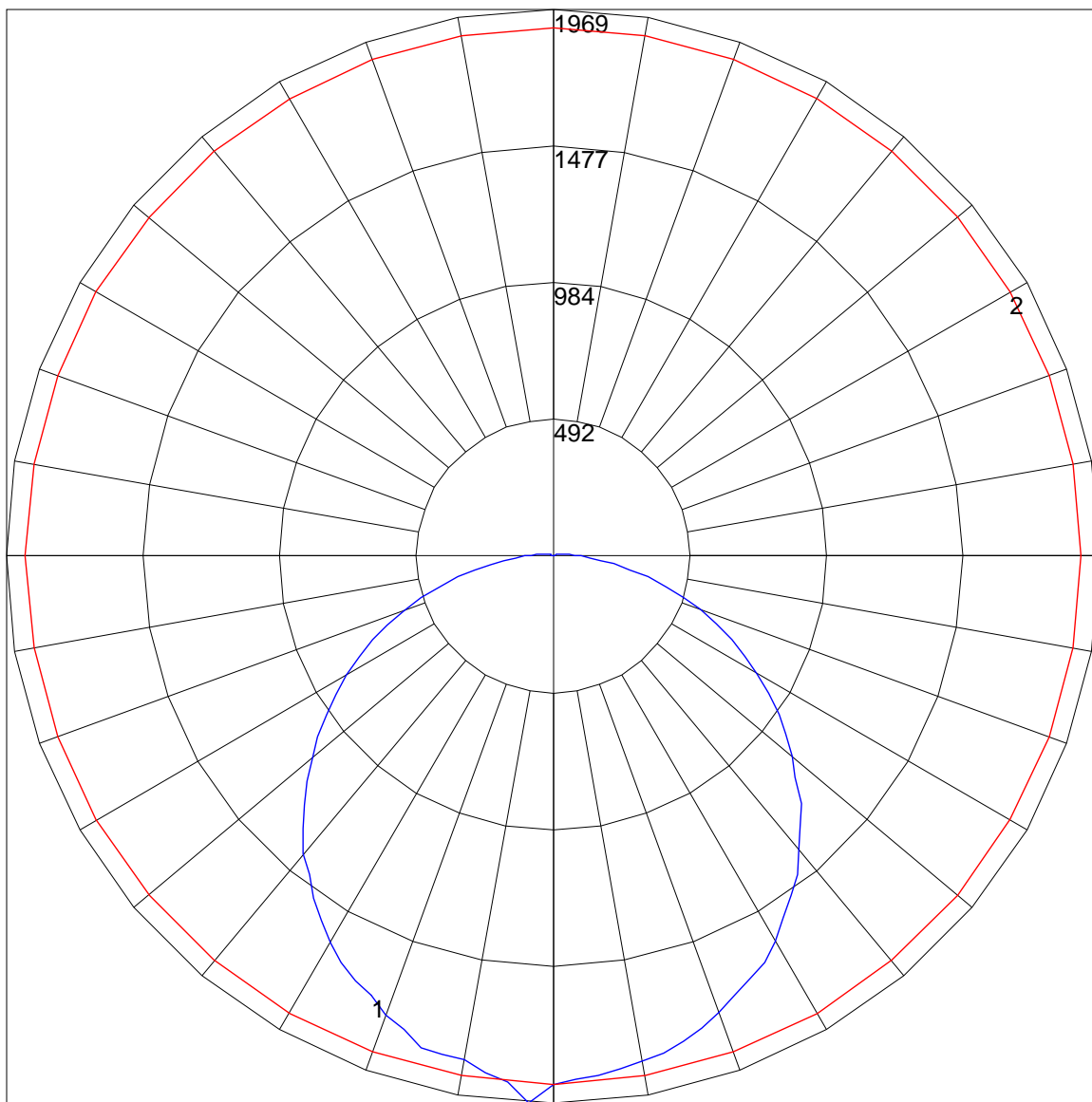
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1968.794 Located At Horizontal Angle = 110, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (110 - 290) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0)