



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 44-48LED48DMVFR35.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LLIA000657-016
 [TESTLAB] LightLab International Allentown, LLC
 [MANUFAC] Mobern Lighting Co., 8200 Stayton Drive, Jessup, MD 20794, USA
 [LUMCAT] 44-48LED48DMVFR35
 [LUMINAIRE] Catalog Number: 44-48LED48DMVFR35
 [MORE] Surface/pendant mounted, white formed steel housing and LED tray, frosted plastic lens
 [MORE] enclosure with white steel endcaps. 128 white LEDs, four Universal Lighting Technologies
 [MORE] Everline M10CC835D32N2S boards with 32 LED each. One Universal Lighting
 [MORE] Technologies Everline D10CC55UNVTZ-C LED driver set at 860mA.
 [MORE] 120.0Vac, 60.0Hz, 0.40A, 48.0W, 0.998PF, 5.14%THD(i)
 [OTHER] Absolute test - lamp lumens value set to -1
 [MORE] NA conventions used for C0 plane alignment and C-plane rotation direction.
 [MORE] The sample was tested at a distance of 9.5m.
 [MORE] This IES file was extrapolated from RDISE24-LED57FRDMV30
 [DATE] Thoriginal file was created: Wednesday, October 12, 2016 2:57:52 PM
 [ISSUEDATE] Wednesday, October 12, 2016 2:57:52 PM

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5765
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	48
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.22 m
Luminous Width (90-270)	0.11 m
Luminous Height	0.03 m

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12095	10626	10059
55	10529	8985	8620
65	8775	7362	7446
75	6884	5901	6395
85	4802	4700	5480

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	2046.031	2046.031	2046.031	2046.031	2046.031
0.5	2036.854	2039.754	2052.699	2052.001	2041.625
1.0	2036.488	2039.448	2052.418	2051.610	2041.447
1.5	2036.174	2038.989	2051.814	2051.125	2041.098
2.0	2035.553	2038.385	2051.142	2050.326	2040.418
2.5	2034.515	2037.483	2050.292	2049.441	2039.644
3.0	2033.426	2036.335	2049.110	2048.395	2038.555
3.5	2032.134	2035.034	2047.808	2047.179	2037.262
4.0	2030.526	2033.503	2046.371	2045.657	2035.910
4.5	2028.817	2031.930	2044.619	2043.905	2034.311
5.0	2026.869	2029.931	2042.646	2042.008	2032.482
5.5	2024.802	2027.788	2040.452	2039.950	2030.458
6.0	2022.378	2025.542	2038.181	2037.594	2028.187
6.5	2019.954	2023.059	2035.561	2035.051	2025.874
7.0	2017.131	2020.388	2032.814	2032.295	2023.084
7.5	2014.095	2017.522	2029.939	2029.284	2020.201
8.0	2011.152	2014.350	2026.724	2026.002	2016.918
8.5	2007.699	2011.007	2023.263	2022.514	2013.474
9.0	2004.246	2007.580	2019.665	2018.925	2010.089
9.5	2000.538	2003.829	2015.889	2015.149	2006.261
10.0	1996.676	1999.849	2011.832	2010.948	2002.281
10.5	1992.466	1995.741	2007.648	2006.542	1997.995
11.0	1988.316	1991.488	2003.208	2002.162	1993.495
11.5	1983.596	1986.896	1998.454	1997.306	1988.716
12.0	1978.986	1982.150	1993.614	1992.211	1983.791
12.5	1974.070	1977.285	1988.614	1987.091	1978.722
13.0	1968.814	1972.080	1983.247	1981.656	1973.373
13.5	1963.549	1966.756	1977.880	1976.018	1967.836
14.0	1957.987	1961.193	1972.012	1970.056	1961.840
14.5	1952.255	1955.316	1966.075	1963.770	1955.614
15.0	1946.233	1949.542	1960.037	1957.443	1949.440
15.5	1940.152	1943.401	1953.726	1950.902	1942.993
16.0	1933.663	1937.014	1946.956	1943.843	1936.223
16.5	1927.063	1930.312	1940.195	1936.988	1929.215
17.0	1920.301	1923.525	1933.127	1929.657	1921.764
17.5	1913.361	1916.500	1926.000	1922.138	1914.518
18.0	1906.175	1909.279	1918.405	1914.390	1906.829
18.5	1898.750	1901.863	1910.733	1906.455	1898.945
19.0	1891.002	1894.234	1902.713	1898.163	1890.661
19.5	1883.356	1886.358	1894.557	1889.888	1882.335
20.0	1875.455	1878.321	1886.341	1881.102	1873.745
20.5	1867.281	1869.943	1877.623	1872.121	1864.806
21.0	1858.691	1861.413	1868.897	1863.114	1855.825
21.5	1850.280	1852.780	1859.924	1853.869	1846.784
22.0	1841.298	1843.705	1850.586	1844.224	1836.969
22.5	1832.368	1834.494	1841.179	1834.392	1827.163
23.0	1822.987	1825.198	1831.586	1824.476	1817.238
23.5	1813.402	1815.520	1821.711	1813.989	1807.100
24.0	1803.953	1805.765	1811.590	1803.715	1796.732
24.5	1794.036	1795.712	1801.316	1793.007	1786.050
25.0	1783.847	1785.387	1790.609	1781.959	1775.121
25.5	1773.675	1775.002	1779.943	1770.869	1764.073
26.0	1763.206	1764.277	1769.031	1759.659	1752.897
26.5	1752.166	1753.229	1757.805	1747.982	1741.356

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CANDELA TABULATION - (Cont.)

27.0	1741.288	1742.181	1746.323	1736.168	1729.611
27.5	1730.130	1730.887	1734.824	1724.261	1717.661
28.0	1718.452	1719.201	1722.900	1712.031	1705.516
28.5	1707.081	1707.498	1710.891	1699.605	1693.277
29.0	1695.166	1695.480	1698.780	1686.992	1680.801
29.5	1683.003	1683.131	1686.244	1674.235	1667.907
30.0	1670.918	1670.909	1673.690	1661.324	1655.090
30.5	1658.509	1658.339	1660.831	1648.056	1642.069
31.0	1645.564	1645.343	1647.691	1634.542	1628.622
31.5	1632.722	1632.356	1634.525	1621.087	1615.185
32.0	1619.692	1619.131	1621.223	1607.411	1601.611
32.5	1606.195	1605.642	1607.470	1593.429	1587.662
33.0	1592.740	1592.025	1593.769	1579.447	1573.697
33.5	1579.021	1578.358	1579.846	1565.235	1559.545
34.0	1564.945	1564.112	1565.634	1550.674	1545.282
34.5	1550.870	1549.977	1551.457	1536.284	1530.840
35.0	1536.539	1535.637	1537.066	1521.630	1516.280
35.5	1521.757	1520.881	1522.267	1506.627	1501.294
36.0	1506.941	1506.065	1507.477	1491.573	1486.478
36.5	1492.219	1491.377	1492.789	1476.630	1471.714
37.0	1476.783	1476.094	1477.599	1461.167	1456.354
37.5	1461.627	1460.853	1462.409	1445.884	1441.385
38.0	1446.088	1445.518	1447.143	1430.439	1426.118
38.5	1430.337	1429.801	1431.579	1414.645	1410.571
39.0	1414.518	1414.177	1416.151	1399.132	1395.177
39.5	1398.452	1398.367	1400.484	1383.406	1379.554
40.0	1381.926	1382.309	1384.376	1367.221	1363.768
40.5	1365.767	1366.354	1368.616	1351.581	1348.221
41.0	1349.301	1350.262	1352.788	1335.642	1332.572
41.5	1332.325	1333.899	1336.493	1319.508	1316.608
42.0	1315.732	1317.637	1320.452	1303.434	1300.933
42.5	1299.062	1301.273	1304.259	1287.402	1285.131
43.0	1281.916	1284.570	1287.631	1271.183	1269.099
43.5	1265.000	1268.070	1271.472	1254.998	1253.492
44.0	1247.888	1251.502	1254.896	1238.855	1237.648
44.5	1230.520	1234.594	1238.132	1222.407	1221.343
45.0	1213.391	1217.873	1221.718	1206.375	1205.669
45.5	1196.296	1201.102	1205.244	1190.300	1190.045
46.0	1178.563	1184.007	1188.429	1173.996	1174.013
46.5	1161.179	1167.158	1171.870	1157.939	1158.321
47.0	1143.837	1150.301	1155.149	1141.915	1142.740
47.5	1126.207	1133.045	1138.386	1125.671	1127.040
48.0	1108.669	1116.213	1121.707	1109.698	1111.408
48.5	1091.277	1099.246	1104.910	1093.743	1095.895
49.0	1073.527	1082.100	1088.062	1077.652	1080.220
49.5	1056.049	1065.226	1071.426	1061.977	1065.056
50.0	1038.656	1048.241	1054.824	1046.277	1049.959
50.5	1020.719	1031.027	1037.993	1030.304	1034.506
51.0	1003.411	1014.238	1021.433	1014.825	1019.630
51.5	986.087	997.347	1004.925	999.406	1004.670
52.0	968.396	980.346	988.238	983.926	989.616
52.5	951.072	963.421	971.773	968.609	974.920
53.0	933.679	946.632	955.350	953.325	960.257
53.5	916.057	929.750	938.722	938.067	945.611
54.0	898.936	913.080	922.580	923.192	931.280
54.5	881.688	896.401	906.352	908.360	916.992

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55.0	864.227	879.494	889.972	893.399	902.653
55.5	847.260	863.121	874.067	878.813	888.704
56.0	830.309	846.724	858.129	864.431	874.909
56.5	813.155	830.062	842.012	849.888	860.893
57.0	796.170	813.767	826.278	835.625	847.345
57.5	779.322	797.454	810.612	821.489	833.694
58.0	762.337	781.023	794.852	807.346	820.129
58.5	745.684	764.999	779.543	793.491	806.937
59.0	729.083	748.967	764.183	779.747	793.704
59.5	712.515	732.791	748.814	766.071	780.487
60.0	696.177	717.099	733.752	752.641	767.568
60.5	679.992	701.365	718.860	739.297	754.827
61.0	663.441	685.460	703.729	725.791	741.789
61.5	647.409	669.913	689.092	712.762	729.202
62.0	631.632	654.426	674.464	699.757	716.665
62.5	615.481	638.887	659.945	686.813	704.086
63.0	599.892	623.765	645.674	674.047	691.754
63.5	584.319	608.609	631.547	661.400	679.473
64.0	568.636	593.436	617.327	648.761	667.107
64.5	553.454	578.612	603.591	636.370	655.208
65.0	538.264	563.754	589.856	624.020	643.191
65.5	523.040	548.751	576.163	611.654	631.003
66.0	508.191	534.250	562.716	599.620	619.266
66.5	493.452	519.894	549.517	587.653	607.529
67.0	478.627	505.342	536.283	575.610	595.639
67.5	464.186	491.291	523.270	563.813	584.081
68.0	449.838	477.216	510.436	552.179	572.582
68.5	435.524	463.106	497.611	540.501	561.066
69.0	421.627	449.464	485.185	528.994	549.678
69.5	407.772	435.779	472.852	517.648	538.315
70.0	393.790	422.197	460.478	506.141	526.859
70.5	380.267	408.886	448.426	494.991	515.769
71.0	367.076	395.874	436.596	483.909	504.568
71.5	353.646	382.759	424.663	472.733	493.571
72.0	340.676	370.027	413.088	461.847	482.557
72.5	327.970	357.482	401.691	451.071	471.730
73.0	315.204	345.235	390.286	440.202	460.860
73.5	302.889	332.920	379.204	429.656	450.136
74.0	290.497	320.851	368.130	418.990	439.411
74.5	278.462	308.970	357.278	408.538	428.797
75.0	266.674	297.496	346.689	398.247	418.412
75.5	255.107	286.108	336.203	388.100	408.044
76.0	243.541	274.797	325.776	377.835	397.643
76.5	232.306	263.859	315.629	367.926	387.598
77.0	221.419	253.151	305.695	358.129	377.503
77.5	210.482	242.546	295.770	348.280	367.493
78.0	199.927	232.178	286.066	338.601	357.652
78.5	189.406	222.023	276.566	329.186	347.846
79.0	179.107	211.953	267.066	319.660	338.201
79.5	169.267	202.325	257.982	310.424	328.701
80.0	159.418	192.783	248.941	301.315	319.414
80.5	149.671	183.419	240.011	292.155	310.041
81.0	140.409	174.284	231.413	283.387	301.051
81.5	131.241	165.397	222.882	274.694	292.036
82.0	122.157	156.569	214.454	265.977	283.131
82.5	113.346	148.021	206.246	257.523	274.380

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83.0	104.790	139.703	198.243	249.162	265.849
83.5	96.319	131.445	190.197	240.921	257.353
84.0	87.993	123.467	182.543	232.858	249.137
84.5	79.913	115.634	174.888	224.983	240.989
85.0	71.825	107.843	167.344	217.065	232.833
85.5	64.187	100.402	159.996	209.487	225.068
86.0	56.439	92.985	152.792	201.875	217.260
86.5	48.793	85.603	145.521	194.339	209.495
87.0	41.334	78.399	138.444	187.008	202.155
87.5	33.884	71.306	131.615	180.068	195.147
88.0	26.527	64.179	124.785	173.689	188.709
88.5	19.196	57.222	118.585	168.314	183.283
89.0	11.856	50.596	113.635	163.636	178.639
89.5	0.000	45.162	109.697	159.537	174.421
90.0	0.000	41.964	106.491	155.948	170.678
90.5	0.000	40.263	104.076	153.022	167.566
91.0	0.000	40.059	102.664	150.802	165.201
91.5	0.000	40.050	102.179	149.535	163.628
92.0	0.000	39.905	101.898	148.718	162.514
92.5	0.000	39.735	101.558	147.970	161.476
93.0	0.000	39.727	101.218	147.239	160.608
93.5	0.000	39.625	100.920	146.575	159.758
94.0	0.000	39.523	100.572	145.869	158.950
94.5	0.000	39.395	100.333	145.223	158.184
95.0	0.000	39.293	99.925	144.576	157.342
95.5	0.000	39.149	99.696	143.930	156.569
96.0	0.000	39.106	99.338	143.326	155.897
96.5	0.000	38.961	98.973	142.671	155.182
97.0	0.000	38.868	98.641	142.229	154.578
97.5	0.000	38.715	98.309	141.600	153.932
98.0	0.000	38.545	97.986	141.047	153.303
98.5	0.000	38.485	97.561	140.426	152.639
99.0	0.000	38.366	97.263	139.882	152.086
99.5	0.000	38.307	96.804	139.397	151.491
100.0	0.000	38.213	96.430	138.776	150.896
100.5	0.000	38.077	96.081	138.283	150.334
101.0	0.000	37.873	95.690	137.747	149.731
101.5	0.000	37.796	95.299	137.186	149.195
102.0	0.000	37.660	94.882	136.616	148.642
102.5	0.000	37.499	94.482	136.089	148.149
103.0	0.000	37.431	94.074	135.459	147.545
103.5	0.000	37.320	93.598	134.898	146.941
104.0	0.000	37.124	93.198	134.302	146.371
104.5	0.000	36.963	92.713	133.682	145.725
105.0	0.000	36.827	92.313	133.018	145.189
105.5	0.000	36.665	91.794	132.431	144.559
106.0	0.000	36.495	91.259	131.734	143.828
106.5	0.000	36.350	90.842	131.164	143.241
107.0	0.000	36.197	90.298	130.365	142.552
107.5	0.000	36.044	89.787	129.616	141.761
108.0	0.000	35.840	89.285	128.970	141.021
108.5	0.000	35.695	88.716	128.179	140.273
109.0	0.000	35.508	88.129	127.413	139.567
109.5	0.000	35.279	87.525	126.580	138.734
110.0	0.000	35.024	86.972	125.738	137.841
110.5	0.000	34.836	86.360	124.947	137.007

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111.0	0.000	34.624	85.747	124.113	136.037
111.5	0.000	34.420	85.237	123.271	135.221
112.0	0.000	34.080	84.480	122.310	134.268
112.5	0.000	33.816	83.885	121.409	133.341
113.0	0.000	33.612	83.179	120.482	132.338
113.5	0.000	33.399	82.550	119.546	131.300
114.0	0.000	33.118	81.818	118.602	130.271
114.5	0.000	32.880	81.087	117.565	129.250
115.0	0.000	32.540	80.423	116.587	128.204
115.5	0.000	32.242	79.700	115.532	127.141
116.0	0.000	32.072	78.935	114.511	126.019
116.5	0.000	31.766	78.195	113.389	124.913
117.0	0.000	31.468	77.447	112.317	123.739
117.5	0.000	31.145	76.732	111.313	122.608
118.0	0.000	30.899	75.907	110.225	121.366
118.5	0.000	30.575	75.048	109.153	120.184
119.0	0.000	30.235	74.308	108.031	118.857
119.5	0.000	29.989	73.560	106.916	117.658
120.0	0.000	29.665	72.709	105.734	116.374
120.5	0.000	29.453	71.944	104.603	115.141
121.0	0.000	29.181	71.161	103.421	113.754
121.5	0.000	28.908	70.464	102.145	112.504
122.0	0.000	28.619	69.681	100.997	111.177
122.5	0.000	28.339	68.797	99.721	109.893
123.0	0.000	28.066	67.980	98.564	108.558
123.5	0.000	27.803	67.147	97.348	107.248
124.0	0.000	27.556	66.313	96.141	105.955
124.5	0.000	27.310	65.506	94.933	104.577
125.0	0.000	27.054	64.664	93.759	103.268
125.5	0.000	26.765	63.890	92.560	101.898
126.0	0.000	26.578	63.048	91.335	100.589
126.5	0.000	26.348	62.265	90.144	99.287
127.0	0.000	26.000	61.440	88.886	97.876
127.5	0.000	25.821	60.607	87.704	96.591
128.0	0.000	25.524	59.833	86.479	95.256
128.5	0.000	25.243	59.025	85.297	93.921
129.0	0.000	25.005	58.234	84.063	92.560
129.5	0.000	24.767	57.451	82.958	91.225
130.0	0.000	24.503	56.567	81.716	89.813
130.5	0.000	24.180	55.852	80.559	88.512
131.0	0.000	23.908	55.002	79.326	87.176
131.5	0.000	23.678	54.202	78.169	85.952
132.0	0.000	23.423	53.462	76.970	84.557
132.5	0.000	23.108	52.637	75.805	83.238
133.0	0.000	22.844	51.855	74.631	81.997
133.5	0.000	22.513	51.107	73.373	80.687
134.0	0.000	22.275	50.307	72.275	79.318
134.5	0.000	21.985	49.516	71.042	77.948
135.0	0.000	21.705	48.785	69.877	76.639
135.5	0.000	21.339	47.960	68.746	75.354
136.0	0.000	21.152	47.143	67.589	74.019
136.5	0.000	20.871	46.403	66.433	72.786
137.0	0.000	20.523	45.587	65.225	71.459
137.5	0.000	20.199	44.838	64.094	70.175
138.0	0.000	19.876	44.090	62.877	68.865
138.5	0.000	19.587	43.307	61.789	67.683

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CANDELA TABULATION - (Cont.)

139.0	0.000	19.238	42.516	60.624	66.296
139.5	0.000	18.932	41.836	59.518	65.123
140.0	0.000	18.617	41.003	58.429	63.856
140.5	0.000	18.294	40.305	57.315	62.605
141.0	0.000	17.903	39.557	56.150	61.406
141.5	0.000	17.639	38.825	55.112	60.224
142.0	0.000	17.291	38.068	54.024	59.016
142.5	0.000	16.925	37.286	52.952	57.860
143.0	0.000	16.542	36.606	51.923	56.626
143.5	0.000	16.134	35.857	50.834	55.444
144.0	0.000	15.853	35.126	49.814	54.355
144.5	0.000	15.479	34.445	48.793	53.199
145.0	0.000	15.113	33.739	47.705	52.085
145.5	0.000	14.722	33.084	46.718	50.894
146.0	0.000	14.382	32.379	45.706	49.856
146.5	0.000	14.050	31.630	44.719	48.700
147.0	0.000	13.634	30.975	43.716	47.619
147.5	0.000	13.293	30.269	42.670	46.514
148.0	0.000	12.970	29.606	41.709	45.476
148.5	0.000	12.545	28.968	40.756	44.456
149.0	0.000	12.239	28.262	39.829	43.375
149.5	0.000	11.907	27.582	38.893	42.244
150.0	0.000	11.507	26.927	37.941	41.207
150.5	0.000	11.150	26.255	37.039	40.229
151.0	0.000	10.835	25.685	36.044	39.225
151.5	0.000	10.487	25.005	35.160	38.272
152.0	0.000	10.138	24.367	34.258	37.303
152.5	0.000	9.849	23.746	33.391	36.257
153.0	0.000	9.534	23.151	32.464	35.313
153.5	0.000	9.270	22.496	31.639	34.488
154.0	0.000	8.888	21.866	30.788	33.433
154.5	0.000	8.565	21.237	29.904	32.574
155.0	0.000	8.309	20.599	29.121	31.613
155.5	0.000	7.944	20.029	28.245	30.720
156.0	0.000	7.680	19.400	27.463	29.827
156.5	0.000	7.382	18.796	26.646	28.951
157.0	0.000	7.119	18.107	25.864	28.135
157.5	0.000	6.821	17.503	25.141	27.301
158.0	0.000	6.634	16.891	24.367	26.485
158.5	0.000	6.277	16.211	23.644	25.677
159.0	0.000	6.064	15.598	22.895	24.852
159.5	0.000	5.843	15.037	22.224	24.061
160.0	0.000	5.520	14.424	21.416	23.278
160.5	0.000	5.282	13.846	20.693	22.521
161.0	0.000	0.000	13.268	19.978	21.722
161.5	0.000	0.000	12.655	19.230	20.939
162.0	0.000	0.000	12.188	18.558	20.208
162.5	0.000	0.000	11.609	17.878	19.417
163.0	0.000	0.000	11.099	17.163	18.626
163.5	0.000	0.000	10.572	16.466	17.903
164.0	0.000	0.000	9.951	15.819	17.206
164.5	0.000	0.000	9.534	15.122	16.466
165.0	0.000	0.000	8.964	14.467	15.743
165.5	0.000	0.000	8.462	13.821	14.977
166.0	0.000	0.000	7.944	13.089	14.220
166.5	0.000	0.000	7.535	12.383	13.582

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CANDELA TABULATION - (Cont.)

167.0	0.000	0.000	7.000	11.762	12.809
167.5	0.000	0.000	6.506	11.074	12.171
168.0	0.000	0.000	6.047	10.410	11.397
168.5	0.000	0.000	5.639	9.713	10.750
169.0	0.000	0.000	5.129	9.083	10.070
169.5	0.000	0.000	0.000	8.488	9.381
170.0	0.000	0.000	0.000	7.833	8.769
170.5	0.000	0.000	0.000	7.161	7.986
171.0	0.000	0.000	0.000	6.489	7.323
171.5	0.000	0.000	0.000	5.902	6.642
172.0	0.000	0.000	0.000	5.248	5.996
172.5	0.000	0.000	0.000	0.000	5.367
173.0	0.000	0.000	0.000	0.000	0.000
173.5	0.000	0.000	0.000	0.000	0.000
174.0	0.000	0.000	0.000	0.000	0.000
174.5	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000
175.5	0.000	0.000	0.000	0.000	0.000
176.0	0.000	0.000	0.000	0.000	0.000
176.5	0.000	0.000	0.000	0.000	0.000
177.0	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000
178.0	0.000	0.000	0.000	0.000	0.000
178.5	0.000	0.000	0.000	0.000	0.000
179.0	0.000	0.000	0.000	0.000	0.000
179.5	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	744.23	N.A.	12.90
0-30	1565.43	N.A.	27.20
0-40	2521.13	N.A.	43.70
0-60	4251.16	N.A.	73.70
0-80	5207.13	N.A.	90.30
0-90	5385.83	N.A.	93.40
10-90	5192.44	N.A.	90.10
20-40	1776.9	N.A.	30.80
20-50	2712.95	N.A.	47.10
40-70	2317.86	N.A.	40.20
60-80	955.98	N.A.	16.60
70-80	368.14	N.A.	6.40
80-90	178.69	N.A.	3.10
90-110	187.55	N.A.	3.30
90-120	260.33	N.A.	4.50
90-130	313.65	N.A.	5.40
90-150	367.89	N.A.	6.40
90-180	379.11	N.A.	6.60
110-180	191.56	N.A.	3.30
0-180	5764.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	193.39
10-20	550.85
20-30	821.20
30-40	955.70
40-50	936.05
50-60	793.97
60-70	587.84
70-80	368.14
80-90	178.69
90-100	99.16
100-110	88.39
110-120	72.78
120-130	53.32
130-140	34.76
140-150	19.48
150-160	8.75
160-170	2.37
170-180	0.10

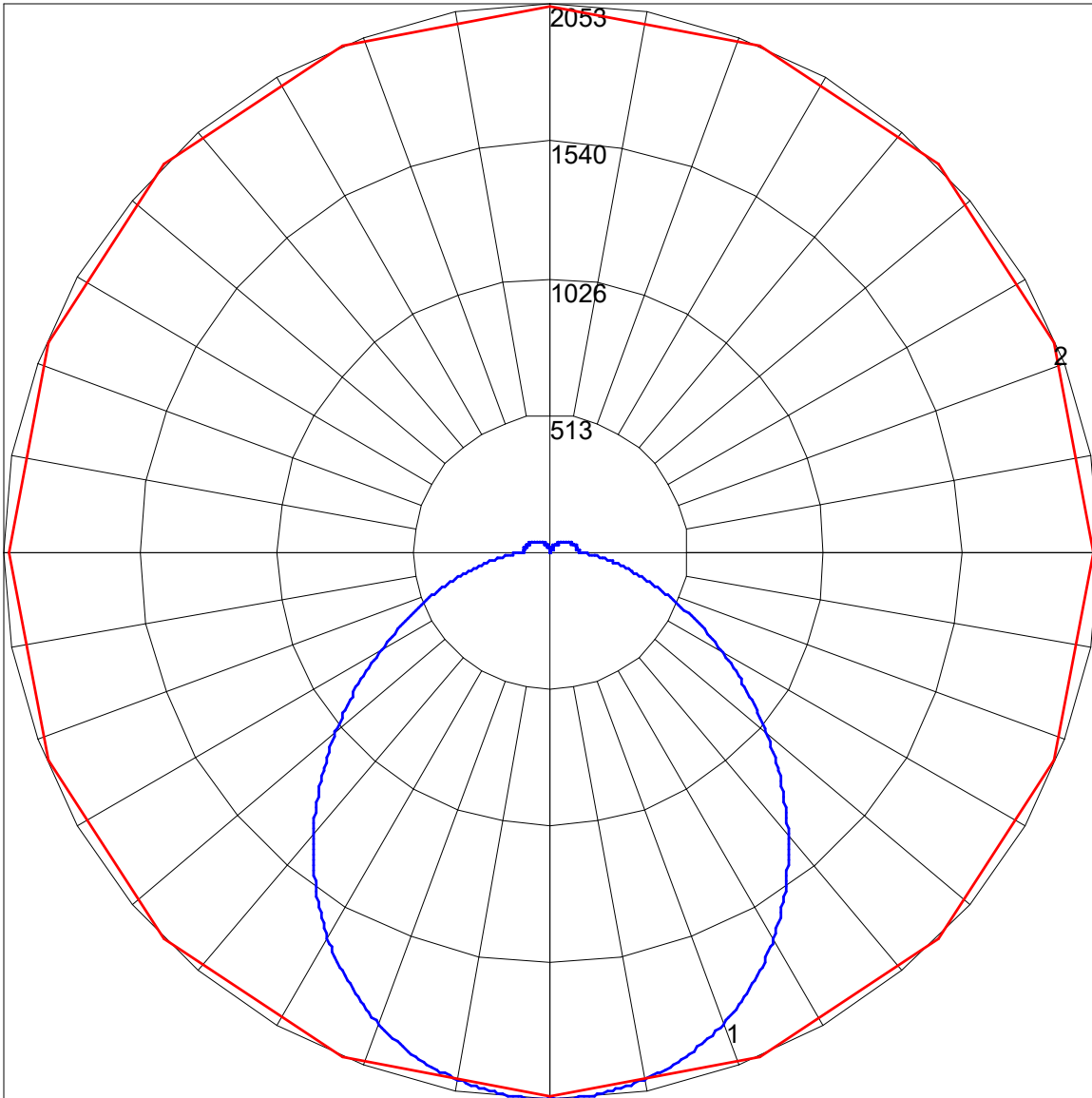
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93
1	107	102	98	94	104	99	95	92	94	90	88	89	86	84	84	82	80	78
2	97	89	82	77	94	87	81	75	82	77	72	78	74	70	74	70	67	65
3	89	79	70	64	86	76	69	63	73	66	61	69	64	59	66	61	57	55
4	82	70	61	55	79	68	60	54	65	58	52	62	56	51	59	54	50	47
5	75	63	54	47	73	61	53	47	58	51	45	55	49	44	53	48	43	41
6	69	56	48	41	67	55	47	41	53	45	40	50	44	39	48	43	38	36
7	64	51	43	37	62	50	42	36	48	41	35	46	40	35	44	38	34	32
8	60	47	38	33	58	46	38	32	44	37	32	42	36	31	41	35	31	29
9	56	43	35	29	54	42	34	29	41	34	29	39	33	28	38	32	28	26
10	53	40	32	27	51	39	32	27	38	31	26	36	30	26	35	29	25	24

POLAR GRAPH



Maximum Candela = 2052.699 Located At Horizontal Angle = 45, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)