



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LPLIA48-LED1U2D90DMVWH40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LLIA000708-022A
 [TESTLAB] LightLab International Allentown, LLC
 [MANUFAC] Mobern Lighting Co., 8200 Stayton Drive, Jessup, MD 20794, USA
 [LUMCAT] LPLINFR48LUF30WD60WDMV40KWH\LPLIA48-LED1U2D90DMVWH40
 [LUMINAIRE] Catalog Number: LPLINFR48LUF30WD60WDMV40KWH\LPLIA48-LED1U2D90DMVWH40
 [MORE] Pendant mounted, formed white enamel steel housing, formed white enamel steel reflector
 [MORE] trays, frosted linear ribbed plastic lower enclosure. 192 white LEDs, 2 upper and 4 lower Everline
 [MORE] M10CC840D32N2SLED boards with 32 white LEDs each. One Everline D10CC30UNVTZ-C LED
 [MORE] driver set at 1050mA and one Everline D10CC55UNVTZ-C LED driver set at 1050mA.
 [MORE] 120.0Vac, 60.00Hz, 0.7750A, 90.30W, 0.997PF, 6.1%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 LLIA000708-022A
 [DATE] This file created: Monday, March 6, 2017 9:50:49 AM
 [ISSUE DATE] Monday, March 6, 2017 9:50:49 AM

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10824
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	90.3
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.21 m
Luminous Width (90-270)	0.27 m
Luminous Height	0.09 m

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5265	5087	5355
55	4524	4491	4914
65	3725	3843	4404
75	2794	3114	3658
85	1436	2068	2267

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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	2310.596	2310.596	2310.596	2310.596	2310.596
0.5	2304.908	2306.741	2317.048	2314.408	2302.803
1.0	2304.374	2306.249	2316.702	2314.220	2302.458
1.5	2303.851	2305.642	2316.021	2313.748	2302.028
2.0	2302.740	2304.762	2315.372	2313.099	2301.473
2.5	2301.525	2303.620	2314.503	2312.418	2300.708
3.0	2300.153	2302.248	2313.319	2311.444	2299.787
3.5	2298.278	2300.750	2312.020	2310.250	2298.771
4.0	2296.330	2298.886	2310.376	2309.035	2297.535
4.5	2294.068	2296.781	2308.648	2307.537	2296.068
5.0	2291.596	2294.434	2306.699	2305.883	2294.592
5.5	2288.789	2291.826	2304.406	2304.008	2292.905
6.0	2285.731	2288.998	2302.049	2302.112	2290.968
6.5	2282.421	2285.867	2299.431	2299.902	2288.915
7.0	2278.860	2282.494	2296.697	2297.681	2286.726
7.5	2274.932	2278.954	2293.544	2295.115	2284.317
8.0	2270.837	2275.131	2290.391	2292.434	2281.908
8.5	2266.406	2271.077	2286.862	2289.616	2279.320
9.0	2261.787	2266.794	2283.290	2286.610	2276.681
9.5	2256.812	2262.164	2279.415	2283.447	2273.623
10.0	2251.669	2257.283	2275.319	2280.054	2270.428
10.5	2246.181	2252.308	2271.151	2276.513	2267.265
11.0	2240.451	2247.144	2266.584	2272.785	2263.861
11.5	2234.481	2241.436	2261.860	2268.867	2260.363
12.0	2228.364	2235.717	2257.042	2264.961	2256.487
12.5	2221.944	2229.695	2251.931	2260.645	2252.633
13.0	2215.083	2223.337	2246.631	2256.257	2248.579
13.5	2208.024	2216.843	2241.101	2251.564	2244.453
14.0	2200.944	2210.161	2235.466	2246.935	2240.085
14.5	2193.308	2203.091	2229.506	2241.939	2235.592
15.0	2185.830	2195.947	2223.337	2236.901	2230.920
15.5	2177.628	2188.448	2217.053	2231.601	2226.102
16.0	2169.312	2180.572	2210.485	2226.154	2221.127
16.5	2160.996	2172.737	2203.866	2220.645	2215.869
17.0	2152.093	2164.557	2197.089	2214.937	2210.475
17.5	2143.169	2156.157	2189.988	2208.998	2205.238
18.0	2134.015	2147.495	2182.656	2202.871	2199.467
18.5	2124.546	2138.665	2175.125	2196.639	2193.821
19.0	2114.826	2129.417	2167.385	2190.113	2187.820
19.5	2104.792	2120.199	2159.613	2183.588	2181.745
20.0	2094.653	2110.647	2151.527	2176.801	2175.596
20.5	2084.263	2100.791	2143.064	2169.762	2169.113
21.0	2073.485	2090.799	2134.737	2162.651	2162.598
21.5	2062.791	2080.629	2126.128	2155.350	2155.884
22.0	2051.574	2069.966	2117.068	2147.767	2148.741
22.5	2040.346	2059.346	2108.008	2140.236	2141.818
23.0	2028.604	2048.369	2098.812	2132.444	2134.434
23.5	2016.674	2037.015	2089.354	2124.452	2127.070
24.0	2004.870	2025.871	2079.770	2116.335	2119.655
24.5	1992.563	2014.307	2070.060	2108.039	2111.904
25.0	1979.963	2002.388	2059.827	2099.398	2103.996
25.5	1967.363	1990.510	2049.804	2090.893	2095.973
26.0	1954.396	1978.423	2039.518	2082.043	2087.981
26.5	1941.115	1965.739	2028.824	2073.150	2079.539

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CANDELA TABULATION - (Cont.)

27.0	1927.635	1953.254	2018.162	2064.006	2071.066
27.5	1914.207	1940.434	2007.279	2054.695	2062.708
28.0	1900.162	1927.216	1996.062	2045.216	2053.742
28.5	1886.137	1913.998	1984.781	2035.695	2044.849
29.0	1871.945	1900.549	1973.385	2025.933	2035.674
29.5	1857.292	1886.786	1961.675	2015.826	2026.457
30.0	1842.743	1873.055	1949.913	2005.855	2017.198
30.5	1827.943	1858.936	1938.140	1995.569	2007.635
31.0	1812.641	1844.545	1925.729	1985.022	1997.737
31.5	1797.223	1830.101	1913.537	1974.590	1987.913
32.0	1781.973	1815.605	1901.282	1963.854	1977.910
32.5	1766.094	1800.554	1888.494	1952.835	1967.583
33.0	1750.174	1785.670	1875.768	1941.827	1957.266
33.5	1734.159	1770.546	1862.906	1930.568	1946.834
34.0	1717.568	1755.086	1849.593	1919.036	1935.993
34.5	1701.260	1739.669	1836.564	1907.588	1925.153
35.0	1684.764	1724.136	1823.220	1895.878	1914.186
35.5	1667.712	1708.006	1809.457	1883.791	1902.864
36.0	1650.723	1692.012	1795.872	1871.788	1891.803
36.5	1633.818	1676.081	1782.151	1859.732	1880.240
37.0	1616.316	1659.668	1768.043	1847.341	1868.624
37.5	1598.971	1643.423	1754.070	1834.919	1856.695
38.0	1581.365	1626.989	1739.920	1822.382	1844.848
38.5	1563.601	1610.063	1725.434	1809.467	1832.604
39.0	1545.837	1593.378	1711.012	1796.574	1820.423
39.5	1527.884	1576.463	1696.432	1783.481	1808.085
40.0	1509.586	1559.348	1681.465	1770.085	1795.296
40.5	1491.414	1542.380	1666.770	1756.741	1782.759
41.0	1473.189	1525.213	1651.970	1743.460	1769.928
41.5	1454.493	1507.711	1636.583	1729.666	1757.055
42.0	1436.226	1490.429	1621.553	1716.092	1744.036
42.5	1417.698	1473.053	1606.303	1702.287	1730.808
43.0	1398.981	1455.383	1590.781	1688.262	1717.547
43.5	1380.473	1437.913	1575.373	1674.300	1704.392
44.0	1361.704	1420.285	1559.893	1660.003	1690.923
44.5	1342.453	1402.385	1543.763	1645.685	1677.045
45.0	1323.872	1384.736	1528.230	1631.378	1663.512
45.5	1305.123	1366.983	1512.351	1616.934	1649.655
46.0	1285.903	1348.863	1496.179	1602.281	1635.641
46.5	1267.344	1331.130	1480.217	1587.680	1621.637
47.0	1248.606	1313.241	1464.014	1573.027	1607.644
47.5	1229.574	1295.131	1447.591	1558.060	1593.074
48.0	1210.889	1277.200	1431.440	1543.145	1578.767
48.5	1192.025	1259.268	1415.058	1528.198	1564.459
49.0	1173.151	1241.106	1398.331	1513.022	1549.586
49.5	1154.350	1223.206	1381.992	1497.918	1535.101
50.0	1135.664	1205.254	1365.474	1482.731	1520.542
50.5	1116.570	1186.914	1348.601	1467.198	1505.522
51.0	1098.063	1169.129	1332.157	1452.063	1490.691
51.5	1079.587	1151.155	1315.576	1436.740	1475.682
52.0	1060.472	1133.140	1298.514	1421.112	1460.411
52.5	1042.121	1115.240	1281.934	1405.496	1445.360
53.0	1023.593	1097.319	1265.186	1390.078	1430.204
53.5	1004.886	1079.314	1248.208	1374.231	1414.681
54.0	986.609	1061.603	1231.575	1358.719	1399.525
54.5	968.206	1043.902	1214.785	1342.892	1384.244

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55.0	949.719	1025.939	1197.597	1326.815	1368.627
55.5	931.725	1008.395	1181.017	1311.177	1353.356
56.0	913.804	990.882	1164.290	1295.508	1337.949
56.5	895.653	972.972	1147.217	1279.368	1322.070
57.0	877.700	955.606	1130.459	1263.510	1306.548
57.5	859.915	938.219	1113.700	1247.694	1290.994
58.0	842.172	920.644	1096.816	1231.690	1274.979
58.5	824.398	903.592	1080.173	1215.832	1259.226
59.0	806.865	886.320	1063.362	1199.954	1243.452
59.5	789.143	868.954	1046.468	1183.866	1227.071
60.0	771.777	851.882	1029.772	1168.008	1211.287
60.5	754.526	834.914	1013.181	1151.868	1195.188
61.0	737.087	817.590	996.161	1135.591	1178.744
61.5	720.056	800.664	979.591	1119.409	1162.562
62.0	703.151	783.874	963.053	1103.342	1146.442
62.5	686.099	766.927	946.158	1086.950	1129.799
63.0	669.372	750.253	929.704	1070.757	1113.407
63.5	652.771	733.609	913.228	1054.585	1096.984
64.0	636.149	716.788	896.627	1038.099	1080.466
64.5	619.851	700.491	880.266	1021.843	1064.326
65.0	603.575	684.120	864.000	1005.431	1047.777
65.5	587.099	667.498	847.451	988.756	1031.019
66.0	571.231	651.420	831.374	972.783	1014.564
66.5	555.457	635.416	815.108	956.549	998.319
67.0	539.463	619.160	798.622	940.000	981.655
67.5	523.878	603.261	782.513	923.744	964.896
68.0	508.471	587.508	766.487	907.624	947.761
68.5	492.812	571.713	750.148	891.379	930.112
69.0	477.772	556.201	734.259	875.239	913.406
69.5	462.658	540.636	718.265	858.575	896.491
70.0	447.365	525.030	702.146	841.534	878.842
70.5	432.702	509.916	686.424	825.058	861.151
71.0	418.007	494.938	670.724	808.666	843.482
71.5	403.239	479.814	654.971	791.698	825.843
72.0	388.763	465.067	639.553	774.469	808.205
72.5	374.414	450.612	624.355	757.794	789.792
73.0	360.232	436.043	608.969	740.816	770.886
73.5	346.291	421.778	593.949	723.827	752.745
74.0	332.361	407.575	578.626	705.874	734.374
74.5	318.514	393.623	563.334	688.550	715.175
75.0	305.160	379.902	548.440	671.352	695.296
75.5	291.774	366.276	533.493	653.703	676.034
76.0	278.546	352.806	518.254	634.714	656.961
76.5	265.694	339.567	503.464	616.940	636.830
77.0	252.968	326.464	488.706	599.176	616.028
77.5	240.315	313.466	473.582	580.270	595.803
78.0	227.956	300.604	458.730	561.092	576.604
78.5	215.827	287.930	444.003	542.606	555.216
79.0	203.751	275.320	428.973	524.171	533.745
79.5	192.062	263.170	414.131	504.313	514.074
80.0	180.519	251.135	399.426	485.166	494.247
80.5	169.050	239.195	384.207	466.700	472.754
81.0	158.053	227.768	369.408	447.470	452.980
81.5	147.223	216.466	354.618	428.303	435.174
82.0	136.445	204.997	339.106	410.476	415.189
82.5	125.992	194.041	324.317	392.440	395.645

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83.0	115.549	183.180	309.664	373.754	378.541
83.5	105.389	172.297	294.895	356.629	360.473
84.0	95.450	161.834	280.955	339.441	342.018
84.5	85.813	151.454	266.406	321.604	325.731
85.0	76.251	141.085	252.402	305.558	309.402
85.5	67.138	131.124	238.430	289.365	292.214
86.0	58.110	121.457	224.573	272.816	277.331
86.5	49.207	111.967	211.009	258.163	262.279
87.0	40.503	102.813	197.330	242.599	246.621
87.5	31.956	93.816	184.510	228.239	233.319
88.0	23.608	85.017	171.082	214.581	219.085
88.5	15.460	76.314	158.807	200.357	205.877
89.0	7.992	67.809	146.343	188.134	193.863
89.5	2.419	59.639	134.350	174.717	180.603
90.0	1.414	51.783	123.373	163.625	170.140
90.5	1.802	44.389	112.512	152.261	158.880
91.0	3.488	37.759	102.949	142.509	149.244
91.5	6.389	32.773	94.633	133.041	140.215
92.0	9.971	28.772	87.311	125.657	132.978
92.5	14.245	25.923	80.807	118.356	125.939
93.0	17.848	24.687	75.381	112.543	120.556
93.5	18.927	27.369	70.857	107.526	115.476
94.0	22.048	33.580	67.369	103.556	112.197
94.5	27.442	40.545	64.824	100.582	109.464
95.0	35.528	48.243	63.923	98.278	107.547
95.5	45.321	56.402	65.819	96.790	106.594
96.0	58.372	64.876	70.427	96.319	106.594
96.5	75.298	73.695	76.638	97.272	107.306
97.0	85.196	82.891	82.451	101.242	108.511
97.5	95.429	92.349	89.322	106.018	112.836
98.0	105.641	102.656	98.822	111.244	117.895
98.5	116.303	113.538	109.024	117.225	123.509
99.0	127.238	124.169	119.477	123.331	129.888
99.5	138.466	135.020	130.139	130.768	136.529
100.0	150.082	146.877	141.263	140.090	143.965
100.5	161.593	158.356	152.009	150.867	152.449
101.0	173.219	170.307	162.954	162.106	162.986
101.5	185.285	182.719	174.266	173.847	174.424
102.0	197.602	194.837	185.463	185.453	185.694
102.5	209.847	207.134	196.639	197.383	197.215
103.0	222.866	219.839	207.898	209.627	208.715
103.5	235.592	232.607	219.242	221.494	220.153
104.0	248.433	245.113	230.522	233.277	231.884
104.5	261.410	258.132	242.285	245.353	243.782
105.0	274.283	271.193	253.827	257.147	255.471
105.5	286.988	284.411	265.568	269.129	267.276
106.0	300.279	297.870	277.571	281.478	279.205
106.5	312.890	311.120	289.690	293.576	291.251
107.0	325.794	324.066	301.944	305.799	303.327
107.5	338.855	336.990	314.670	318.169	315.718
108.0	351.633	349.528	327.134	330.591	328.004
108.5	364.401	362.180	340.038	342.961	340.436
109.0	377.577	374.927	353.361	355.624	353.131
109.5	390.345	387.548	366.726	368.109	365.742
110.0	403.301	400.138	380.269	380.646	378.394
110.5	416.499	412.906	393.770	393.351	391.214

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CANDELA TABULATION - (Cont.)

111.0	429.560	425.737	407.501	405.847	403.584
111.5	442.338	438.389	421.505	418.332	415.902
112.0	455.441	451.157	435.949	431.131	428.324
112.5	468.418	463.454	449.795	443.469	440.599
113.0	481.102	475.970	463.904	455.776	452.843
113.5	493.901	488.570	478.096	468.345	465.412
114.0	506.659	500.605	492.037	480.673	477.667
114.5	519.112	512.880	505.915	493.325	489.963
115.0	531.702	525.104	519.961	506.177	502.543
115.5	544.292	537.180	533.315	518.505	514.954
116.0	556.232	548.974	546.481	531.126	527.565
116.5	568.759	561.029	559.500	543.768	540.710
117.0	581.014	572.446	571.818	556.358	553.436
117.5	593.268	583.946	584.072	569.042	566.371
118.0	605.491	595.813	596.306	581.611	579.338
118.5	617.547	607.230	608.079	594.022	592.231
119.0	629.236	618.814	619.820	606.486	605.073
119.5	641.239	630.294	631.383	619.087	618.175
120.0	652.981	641.658	642.831	631.205	630.964
120.5	664.429	653.012	654.468	643.439	643.711
121.0	676.306	664.408	665.968	655.746	656.584
121.5	687.451	675.751	677.144	667.644	669.090
122.0	698.647	686.833	688.686	679.553	681.302
122.5	710.106	698.155	699.841	691.640	693.703
123.0	721.208	709.153	710.975	703.214	705.811
123.5	732.101	719.920	721.816	714.484	718.003
124.0	743.204	730.771	732.614	725.859	730.195
124.5	753.740	741.392	743.319	736.856	741.863
125.0	764.529	751.887	754.118	747.770	753.374
125.5	775.139	762.224	764.665	758.894	764.832
126.0	785.320	772.541	775.212	769.441	776.050
126.5	795.584	782.952	785.424	779.873	786.964
127.0	805.911	793.102	795.930	790.494	797.993
127.5	815.904	803.293	805.870	800.685	808.834
128.0	826.032	813.201	815.705	811.065	819.590
128.5	836.202	823.204	825.697	821.361	830.222
129.0	846.058	832.997	835.281	831.374	840.434
129.5	855.862	842.843	845.011	841.198	850.918
130.0	866.011	852.720	854.888	851.327	861.204
130.5	875.302	862.387	864.314	860.994	871.133
131.0	884.739	872.191	873.898	870.683	881.146
131.5	894.322	881.869	883.419	880.382	890.824
132.0	903.613	891.505	892.751	889.882	900.471
132.5	913.239	901.005	902.230	899.319	909.939
133.0	922.529	910.348	911.762	908.871	919.450
133.5	931.819	919.408	920.947	918.235	928.604
134.0	940.785	928.583	930.070	927.399	937.695
134.5	949.877	937.894	939.162	936.407	946.891
135.0	958.759	946.535	948.295	945.320	955.616
135.5	967.400	955.669	957.669	953.951	964.530
136.0	976.491	964.655	966.656	962.781	973.433
136.5	985.279	973.097	975.402	971.275	982.032
137.0	994.203	981.267	983.959	979.654	990.390
137.5	1002.707	989.803	992.296	988.285	999.010
138.0	1010.856	998.256	1000.791	996.612	1007.316
138.5	1019.539	1006.530	1009.055	1004.970	1015.580

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CANDELA TABULATION - (Cont.)

139.0	1027.667	1014.742	1017.151	1013.119	1023.750
139.5	1035.774	1022.420	1024.734	1020.869	1031.689
140.0	1043.745	1030.128	1032.296	1028.913	1039.482
140.5	1051.485	1038.110	1040.466	1037.198	1047.358
141.0	1059.477	1046.049	1048.374	1045.106	1055.214
141.5	1067.143	1053.737	1055.873	1052.826	1062.776
142.0	1074.538	1061.603	1063.341	1060.692	1070.652
142.5	1081.713	1069.207	1070.642	1068.317	1078.141
143.0	1089.254	1076.507	1078.047	1075.764	1085.756
143.5	1096.722	1084.090	1085.400	1083.336	1093.287
144.0	1104.022	1091.192	1092.365	1090.563	1100.639
144.5	1111.103	1097.895	1099.246	1097.749	1107.856
145.0	1117.639	1104.808	1106.128	1105.028	1114.874
145.5	1124.405	1111.805	1112.894	1111.826	1121.818
146.0	1131.234	1118.445	1119.765	1118.728	1128.416
146.5	1137.927	1125.211	1126.793	1125.766	1135.099
147.0	1144.347	1131.936	1133.371	1132.449	1141.708
147.5	1150.506	1138.430	1139.980	1138.786	1147.971
148.0	1156.529	1144.724	1146.589	1145.269	1154.298
148.5	1162.813	1150.831	1152.957	1151.784	1160.530
149.0	1168.836	1156.916	1159.011	1158.110	1166.500
149.5	1175.466	1162.928	1165.327	1164.395	1172.585
150.0	1181.059	1168.940	1171.475	1170.595	1178.430
150.5	1186.505	1174.680	1177.665	1176.722	1184.253
151.0	1191.941	1180.472	1183.688	1182.839	1189.909
151.5	1197.199	1186.013	1189.459	1188.851	1195.544
152.0	1202.928	1191.533	1195.209	1194.560	1200.959
152.5	1208.302	1196.958	1200.928	1200.498	1206.395
153.0	1213.643	1202.258	1206.385	1205.934	1211.779
153.5	1218.880	1207.453	1211.915	1211.339	1216.911
154.0	1223.782	1212.669	1217.194	1216.765	1222.043
154.5	1228.694	1217.697	1222.452	1222.117	1226.987
155.0	1233.188	1222.819	1227.563	1227.333	1231.721
155.5	1237.859	1227.762	1232.863	1232.633	1236.519
156.0	1242.813	1232.612	1237.807	1237.723	1241.148
156.5	1247.181	1237.168	1242.426	1242.656	1245.725
157.0	1251.832	1241.797	1247.108	1247.527	1250.522
157.5	1256.608	1245.977	1251.737	1252.376	1254.890
158.0	1260.818	1250.250	1256.293	1256.943	1259.425
158.5	1265.322	1254.597	1260.776	1261.478	1263.856
159.0	1269.480	1258.692	1265.092	1265.856	1268.202
159.5	1273.429	1262.965	1269.302	1270.109	1272.277
160.0	1277.168	1266.966	1273.198	1274.403	1276.267
160.5	1280.939	1271.051	1277.147	1278.603	1280.143
161.0	1284.500	1274.864	1281.138	1282.478	1283.934
161.5	1288.417	1278.760	1284.877	1286.354	1287.642
162.0	1291.863	1282.447	1288.574	1290.051	1291.078
162.5	1295.382	1286.008	1292.460	1293.434	1294.325
163.0	1298.870	1289.674	1296.325	1296.901	1297.582
163.5	1302.201	1293.120	1299.907	1300.379	1300.871
164.0	1305.343	1296.524	1303.447	1303.605	1303.877
164.5	1308.684	1299.708	1306.956	1306.820	1306.967
165.0	1311.617	1302.746	1310.193	1309.920	1309.669
165.5	1314.267	1305.542	1313.282	1312.864	1312.455
166.0	1316.886	1308.224	1316.299	1315.849	1315.094
166.5	1319.368	1311.052	1319.179	1318.781	1317.514

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CANDELA TABULATION - (Cont.)

167.0	1321.955	1313.618	1322.175	1321.368	1319.860
167.5	1324.772	1316.289	1324.825	1323.914	1322.028
168.0	1327.339	1318.677	1327.412	1326.396	1324.092
168.5	1329.685	1320.981	1329.695	1328.742	1326.176
169.0	1332.219	1323.149	1332.010	1331.183	1327.978
169.5	1334.335	1325.233	1334.251	1333.340	1329.957
170.0	1336.399	1327.307	1336.493	1335.404	1331.811
170.5	1338.619	1329.130	1338.651	1337.477	1333.319
171.0	1340.567	1330.921	1340.735	1339.310	1334.807
171.5	1342.547	1332.670	1342.725	1341.101	1336.022
172.0	1344.191	1334.293	1344.558	1342.756	1337.519
172.5	1345.762	1335.823	1346.297	1344.464	1338.808
173.0	1347.197	1337.289	1347.889	1345.972	1340.075
173.5	1348.444	1338.577	1349.219	1347.250	1341.332
174.0	1349.606	1339.949	1350.601	1348.569	1342.453
174.5	1350.580	1341.060	1351.869	1349.711	1343.458
175.0	1351.753	1342.076	1352.937	1350.738	1344.275
175.5	1352.581	1343.112	1353.932	1351.649	1345.144
176.0	1353.471	1343.992	1354.833	1352.570	1345.888
176.5	1354.225	1344.684	1355.692	1353.387	1346.328
177.0	1354.728	1345.333	1356.352	1354.047	1347.103
177.5	1355.147	1345.857	1356.938	1354.644	1347.637
178.0	1355.472	1346.223	1357.430	1355.063	1347.941
178.5	1355.870	1346.475	1357.902	1355.377	1348.224
179.0	1355.933	1346.789	1358.216	1355.461	1348.224
179.5	1356.174	1346.925	1358.331	1355.556	1348.213
180.0	1353.230	1353.230	1353.230	1353.230	1353.230

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	843.86	N.A.	7.80
0-30	1788.8	N.A.	16.50
0-40	2921.00	N.A.	27.00
0-60	5138.89	N.A.	47.50
0-80	6530.11	N.A.	60.30
0-90	6777.96	N.A.	62.60
10-90	6559.41	N.A.	60.60
20-40	2077.14	N.A.	19.20
20-50	3241.54	N.A.	29.90
40-70	3054.89	N.A.	28.20
60-80	1391.22	N.A.	12.90
70-80	554.22	N.A.	5.10
80-90	247.85	N.A.	2.30
90-110	375.26	N.A.	3.50
90-120	885.57	N.A.	8.20
90-130	1557.57	N.A.	14.40
90-150	2982.79	N.A.	27.60
90-180	4046.48	N.A.	37.40
110-180	3671.22	N.A.	33.90
0-180	10824.44	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	218.55
10-20	625.31
20-30	944.94
30-40	1132.2
40-50	1164.4
50-60	1053.5
60-70	837.00
70-80	554.22
80-90	247.85
90-100	97.98
100-110	277.27
110-120	510.31
120-130	672.00
130-140	731.99
140-150	693.23
150-160	566.03
160-170	369.42
170-180	128.24

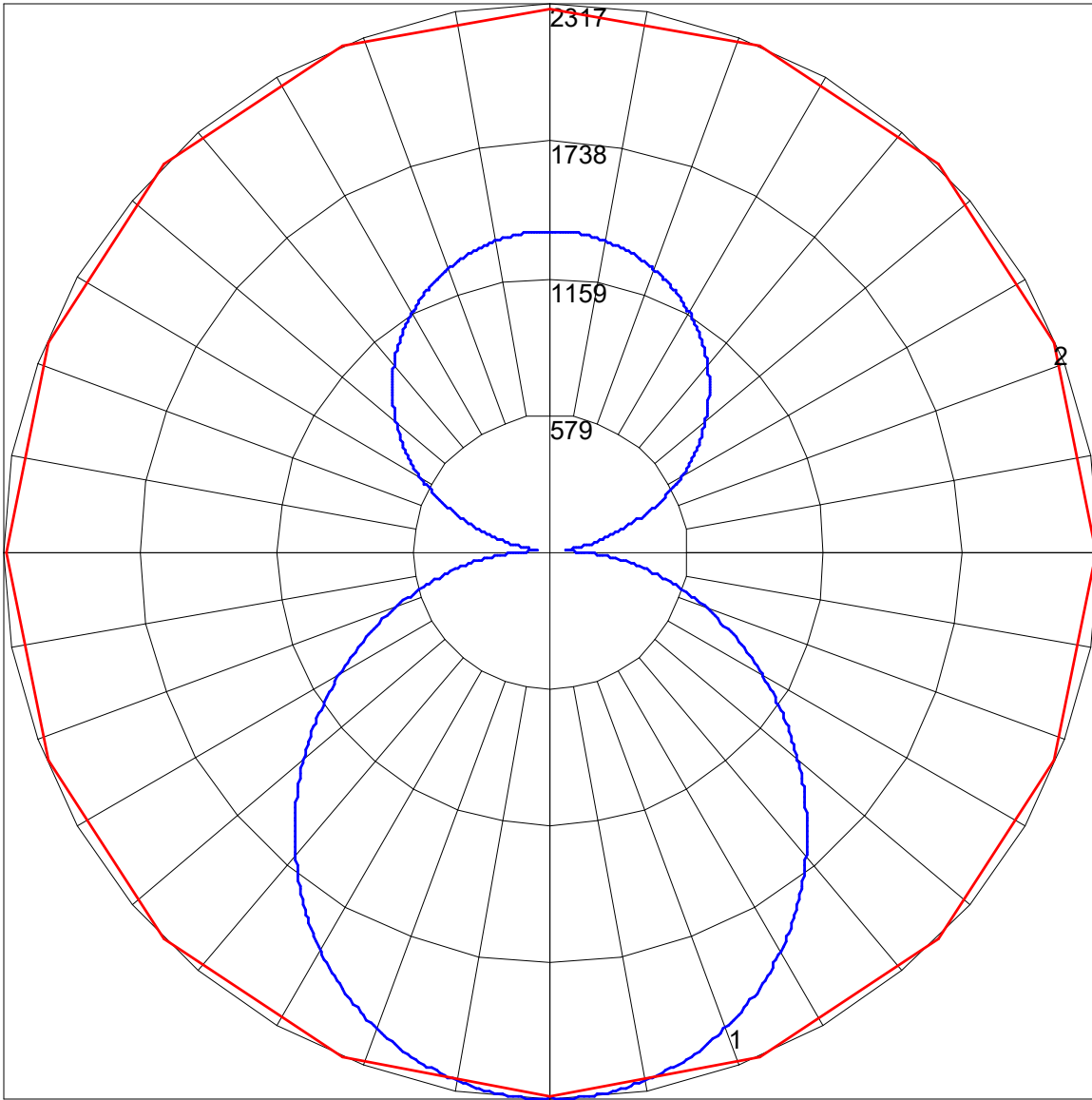
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	110	110	110	110	103	103	103	103	90	90	90	79	79	79	68	68	68	63
1	100	95	91	87	87	93	89	86	82	78	75	73	68	66	64	59	57	56	51
2	91	83	76	71	71	85	78	72	67	68	64	60	59	56	53	51	49	46	42
3	83	72	65	58	58	77	68	61	55	60	54	50	52	48	44	45	42	39	35
4	75	64	56	49	49	70	60	53	47	53	47	42	46	42	38	40	36	33	30
5	69	57	48	42	42	64	54	46	40	47	41	36	42	37	33	36	32	29	26
6	64	51	43	37	37	59	48	40	35	43	36	32	38	32	29	33	29	25	23
7	59	46	38	32	32	55	44	36	31	39	32	28	34	29	25	30	26	23	20
8	55	42	34	28	28	51	40	32	27	35	29	25	31	26	22	27	23	20	18
9	51	38	30	25	25	48	36	29	24	32	26	22	29	24	20	25	21	18	16
10	48	35	28	23	23	45	33	26	22	30	24	20	27	22	18	23	19	17	15

POLAR GRAPH



Maximum Candela = 2317.048 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.)