



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 44-48LED57DMVFR35.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] 44-48LED57DMVFR35

[LUMINAIRE] Catalog Number: 44-48LED57DMVFR35

[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 1050mA.

[MORE] 120.0Vac, 60.0Hz, 0.4910A, 58.85W, 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 created by LightLab/LSA Report program version 3.808a.

[DATE] This file created: Wednesday, October 12, 2016 2:57:52 PM

[ISSUE DATE] Wednesday, October 12, 2016 2:57:52 PM

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6890
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	58.8
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	14456	12700	12022
55	12585	10739	10303
65	10488	8799	8899
75	8228	7053	7643
85	5739	5618	6550

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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	2445.422	2445.422	2445.422	2445.422	2445.422
0.5	2434.454	2437.920	2453.391	2452.558	2440.156
1.0	2434.017	2437.554	2453.056	2452.090	2439.943
1.5	2433.640	2437.005	2452.334	2451.511	2439.526
2.0	2432.898	2436.283	2451.531	2450.555	2438.713
2.5	2431.658	2435.206	2450.515	2449.498	2437.788
3.0	2430.357	2433.834	2449.102	2448.248	2436.487
3.5	2428.812	2432.278	2447.546	2446.794	2434.942
4.0	2426.891	2430.449	2445.828	2444.975	2433.325
4.5	2424.848	2428.568	2443.734	2442.881	2431.414
5.0	2422.520	2426.179	2441.376	2440.614	2429.229
5.5	2420.050	2423.618	2438.754	2438.154	2426.809
6.0	2417.152	2420.934	2436.039	2435.338	2424.095
6.5	2414.255	2417.966	2432.909	2432.299	2421.330
7.0	2410.881	2414.774	2429.625	2429.005	2417.996
7.5	2407.252	2411.348	2426.189	2425.407	2414.550
8.0	2403.734	2407.557	2422.347	2421.483	2410.626
8.5	2399.607	2403.562	2418.210	2417.315	2406.510
9.0	2395.480	2399.465	2413.910	2413.025	2402.464
9.5	2391.048	2394.982	2409.396	2408.512	2397.889
10.0	2386.433	2390.225	2404.548	2403.490	2393.132
10.5	2381.401	2385.315	2399.546	2398.225	2388.009
11.0	2376.441	2380.232	2394.240	2392.990	2382.631
11.5	2370.799	2374.743	2388.558	2387.185	2376.919
12.0	2365.290	2369.071	2382.774	2381.097	2371.033
12.5	2359.414	2363.257	2376.797	2374.977	2364.974
13.0	2353.132	2357.035	2370.382	2368.481	2358.581
13.5	2346.840	2350.672	2363.968	2361.742	2351.963
14.0	2340.192	2344.024	2356.954	2354.616	2344.797
14.5	2333.340	2337.000	2349.859	2347.104	2337.356
15.0	2326.143	2330.098	2342.642	2339.541	2329.976
15.5	2318.875	2322.758	2335.099	2331.724	2322.270
16.0	2311.119	2315.124	2327.007	2323.287	2314.179
16.5	2303.231	2307.114	2318.926	2315.094	2305.803
17.0	2295.150	2299.002	2310.479	2306.331	2296.898
17.5	2286.855	2290.606	2301.960	2297.345	2288.237
18.0	2278.265	2281.976	2292.883	2288.085	2279.048
18.5	2269.391	2273.112	2283.714	2278.601	2269.625
19.0	2260.131	2263.993	2274.128	2268.690	2259.724
19.5	2250.992	2254.580	2264.380	2258.799	2249.772
20.0	2241.549	2244.974	2254.560	2248.298	2239.505
20.5	2231.780	2234.962	2244.141	2237.564	2228.822
21.0	2221.513	2224.766	2233.711	2226.799	2218.087
21.5	2211.460	2214.448	2222.987	2215.749	2207.282
22.0	2200.725	2203.602	2211.826	2204.222	2195.551
22.5	2190.052	2192.593	2200.583	2192.471	2183.831
23.0	2178.840	2181.482	2189.117	2180.618	2171.968
23.5	2167.383	2169.914	2177.315	2168.085	2159.851
24.0	2156.090	2158.255	2165.218	2155.805	2147.460
24.5	2144.237	2146.240	2152.939	2143.007	2134.692
25.0	2132.059	2133.899	2140.141	2129.803	2121.630
25.5	2119.902	2121.487	2127.393	2116.547	2108.425
26.0	2107.388	2108.669	2114.351	2103.149	2095.068
26.5	2094.194	2095.465	2100.933	2089.193	2081.274

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CANDELA TABULATION - (Cont.)

27.0	2081.193	2082.260	2087.210	2075.073	2067.236
27.5	2067.856	2068.761	2073.467	2060.842	2052.954
28.0	2053.899	2054.794	2059.215	2046.224	2038.438
28.5	2040.308	2040.806	2044.862	2031.373	2023.810
29.0	2026.067	2026.443	2030.387	2016.298	2008.898
29.5	2011.530	2011.683	2015.403	2001.050	1993.487
30.0	1997.086	1997.076	2000.400	1985.619	1978.168
30.5	1982.255	1982.051	1985.030	1969.762	1962.605
31.0	1966.783	1966.519	1969.325	1953.609	1946.534
31.5	1951.434	1950.997	1953.589	1937.528	1930.473
32.0	1935.861	1935.190	1937.690	1921.182	1914.250
32.5	1919.729	1919.068	1921.253	1904.471	1897.579
33.0	1903.647	1902.793	1904.877	1887.759	1880.887
33.5	1887.251	1886.458	1888.237	1870.773	1863.972
34.0	1870.427	1869.431	1871.251	1853.370	1846.925
34.5	1853.604	1852.537	1854.305	1836.171	1829.665
35.0	1836.476	1835.398	1837.106	1818.656	1812.262
35.5	1818.808	1817.761	1819.418	1800.725	1794.351
36.0	1801.101	1800.054	1801.741	1782.732	1776.643
36.5	1783.505	1782.498	1784.186	1764.872	1758.996
37.0	1765.055	1764.231	1766.031	1746.392	1740.638
37.5	1746.940	1746.015	1747.876	1728.125	1722.747
38.0	1728.369	1727.688	1729.629	1709.665	1704.501
38.5	1709.543	1708.902	1711.027	1690.788	1685.919
39.0	1690.635	1690.229	1692.587	1672.247	1667.520
39.5	1671.433	1671.332	1673.863	1653.451	1648.846
40.0	1651.682	1652.140	1654.610	1634.107	1629.980
40.5	1632.369	1633.070	1635.774	1615.413	1611.398
41.0	1612.689	1613.837	1616.856	1596.363	1592.694
41.5	1592.399	1594.280	1597.380	1577.080	1573.614
42.0	1572.567	1574.844	1578.208	1557.868	1554.879
42.5	1552.643	1555.286	1558.854	1538.706	1535.992
43.0	1532.150	1535.321	1538.981	1519.321	1516.831
43.5	1511.931	1515.601	1519.667	1499.977	1498.178
44.0	1491.479	1495.799	1499.855	1480.683	1479.240
44.5	1470.722	1475.591	1479.819	1461.024	1459.753
45.0	1450.249	1455.606	1460.201	1441.862	1441.019
45.5	1429.817	1435.560	1440.511	1422.650	1422.345
46.0	1408.622	1415.128	1420.414	1403.164	1403.184
46.5	1387.845	1394.991	1400.622	1383.972	1384.429
47.0	1367.118	1374.843	1380.637	1364.820	1365.806
47.5	1346.045	1354.218	1360.602	1345.405	1347.042
48.0	1325.085	1334.101	1340.668	1326.315	1328.358
48.5	1304.297	1313.822	1320.592	1307.245	1309.817
49.0	1283.082	1293.329	1300.454	1288.012	1291.082
49.5	1262.193	1273.161	1280.571	1269.278	1272.958
50.0	1241.405	1252.861	1260.729	1250.513	1254.914
50.5	1219.966	1232.287	1240.612	1231.423	1236.444
51.0	1199.280	1212.220	1220.820	1212.922	1218.665
51.5	1178.574	1192.032	1201.090	1194.492	1200.785
52.0	1157.430	1171.712	1181.145	1175.992	1182.792
52.5	1136.724	1151.483	1161.466	1157.684	1165.227
53.0	1115.936	1131.417	1141.837	1139.417	1147.702
53.5	1094.873	1111.239	1121.964	1121.181	1130.197
54.0	1074.411	1091.316	1102.670	1103.402	1113.069
54.5	1053.796	1071.382	1083.275	1085.674	1095.992

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55.0	1032.927	1051.173	1063.697	1067.793	1078.853
55.5	1012.647	1031.605	1044.688	1050.360	1062.182
56.0	992.388	1012.007	1025.638	1033.171	1045.694
56.5	971.885	992.093	1006.375	1015.788	1028.942
57.0	951.585	972.617	987.570	998.741	1012.749
57.5	931.447	953.120	968.845	981.847	996.434
58.0	911.148	933.481	950.009	964.942	980.220
58.5	891.244	914.329	931.712	948.383	964.454
59.0	871.402	895.168	913.353	931.956	948.637
59.5	851.600	875.834	894.985	915.610	932.840
60.0	832.072	857.079	876.982	899.559	917.399
60.5	812.728	838.273	859.183	883.610	902.172
61.0	792.947	819.264	841.099	867.468	886.588
61.5	773.785	800.682	823.605	851.895	871.544
62.0	754.929	782.171	806.121	836.352	856.560
62.5	735.625	763.600	788.769	820.881	841.526
63.0	716.992	745.526	771.712	805.623	826.787
63.5	698.380	727.412	754.827	790.507	812.108
64.0	679.635	709.277	737.831	775.401	797.328
64.5	661.490	691.559	721.414	760.591	783.107
65.0	643.335	673.800	704.997	745.831	768.743
65.5	625.139	655.869	688.631	731.051	754.177
66.0	607.391	638.537	672.560	716.667	740.149
66.5	589.775	621.378	656.784	702.365	726.121
67.0	572.057	603.986	640.967	687.971	711.910
67.5	554.796	587.193	625.414	673.871	698.095
68.0	537.648	570.369	610.075	659.965	684.352
68.5	520.540	553.505	594.746	646.009	670.588
69.0	503.930	537.200	579.894	632.255	656.977
69.5	487.371	520.845	565.155	618.695	643.396
70.0	470.659	504.611	550.364	604.941	629.704
70.5	454.496	488.702	535.960	591.615	616.448
71.0	438.730	473.149	521.820	578.369	603.061
71.5	422.679	457.475	507.559	565.012	589.917
72.0	407.177	442.257	493.724	552.001	576.753
72.5	391.990	427.264	480.102	539.122	563.813
73.0	376.732	412.626	466.471	526.130	550.822
73.5	362.013	397.907	453.226	513.526	538.003
74.0	347.203	383.482	439.991	500.778	525.185
74.5	332.819	369.281	427.020	488.285	512.499
75.0	318.730	355.569	414.364	475.986	500.087
75.5	304.905	341.957	401.830	463.858	487.696
76.0	291.081	328.438	389.368	451.589	475.264
76.5	277.652	315.365	377.241	439.747	463.259
77.0	264.641	302.567	365.368	428.036	451.193
77.5	251.568	289.891	353.505	416.265	439.228
78.0	238.953	277.500	341.907	404.697	427.467
78.5	226.379	265.363	330.552	393.444	415.747
79.0	214.069	253.327	319.197	382.059	404.219
79.5	202.308	241.820	308.341	371.020	392.865
80.0	190.537	230.415	297.535	360.133	381.764
80.5	178.887	219.223	286.862	349.185	370.562
81.0	167.817	208.305	276.585	338.704	359.818
81.5	156.859	197.683	266.389	328.316	349.042
82.0	146.003	187.131	256.316	317.896	338.400
82.5	135.472	176.915	246.506	307.792	327.940

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CANDELA TABULATION - (Cont.)

83.0	125.245	166.974	236.941	297.800	317.744
83.5	115.121	157.103	227.324	287.950	307.589
84.0	105.169	147.568	218.176	278.313	297.769
84.5	95.512	138.206	209.027	268.900	288.031
85.0	85.845	128.895	200.010	259.436	278.283
85.5	76.717	120.000	191.228	250.379	269.002
86.0	67.456	111.136	182.618	241.281	259.670
86.5	58.318	102.313	173.927	232.275	250.389
87.0	49.403	93.703	165.469	223.512	241.617
87.5	40.498	85.225	157.306	215.218	233.241
88.0	31.705	76.707	149.144	207.594	225.545
88.5	22.943	68.391	141.733	201.169	219.060
89.0	14.170	60.473	135.817	195.578	213.510
89.5	0.000	53.977	131.111	190.679	208.468
90.0	0.000	50.155	127.278	186.389	203.995
90.5	0.000	48.122	124.392	182.892	200.275
91.0	0.000	47.878	122.704	180.239	197.449
91.5	0.000	47.868	122.125	178.725	195.568
92.0	0.000	47.695	121.789	177.749	194.237
92.5	0.000	47.492	121.383	176.854	192.996
93.0	0.000	47.482	120.976	175.980	191.960
93.5	0.000	47.360	120.620	175.187	190.943
94.0	0.000	47.238	120.203	174.343	189.977
94.5	0.000	47.085	119.919	173.571	189.063
95.0	0.000	46.963	119.431	172.798	188.056
95.5	0.000	46.790	119.156	172.026	187.131
96.0	0.000	46.740	118.730	171.304	186.328
96.5	0.000	46.567	118.292	170.521	185.474
97.0	0.000	46.455	117.896	169.993	184.753
97.5	0.000	46.272	117.500	169.240	183.980
98.0	0.000	46.069	117.113	168.580	183.228
98.5	0.000	45.998	116.605	167.838	182.435
99.0	0.000	45.855	116.249	167.187	181.774
99.5	0.000	45.784	115.700	166.608	181.063
100.0	0.000	45.672	115.253	165.866	180.351
100.5	0.000	45.510	114.836	165.276	179.680
101.0	0.000	45.266	114.369	164.636	178.958
101.5	0.000	45.174	113.901	163.965	178.318
102.0	0.000	45.012	113.403	163.284	177.657
102.5	0.000	44.818	112.925	162.653	177.068
103.0	0.000	44.737	112.437	161.901	176.346
103.5	0.000	44.605	111.868	161.230	175.624
104.0	0.000	44.371	111.390	160.519	174.943
104.5	0.000	44.178	110.811	159.777	174.171
105.0	0.000	44.015	110.333	158.984	173.530
105.5	0.000	43.822	109.713	158.282	172.778
106.0	0.000	43.619	109.073	157.449	171.904
106.5	0.000	43.446	108.575	156.768	171.202
107.0	0.000	43.263	107.924	155.812	170.379
107.5	0.000	43.080	107.314	154.918	169.434
108.0	0.000	42.836	106.714	154.145	168.549
108.5	0.000	42.663	106.033	153.200	167.655
109.0	0.000	42.440	105.332	152.285	166.811
109.5	0.000	42.165	104.610	151.289	165.815
110.0	0.000	41.860	103.949	150.282	164.747
110.5	0.000	41.637	103.217	149.337	163.751

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CANDELA TABULATION - (Cont.)

111.0	0.000	41.383	102.486	148.341	162.592
111.5	0.000	41.139	101.876	147.334	161.617
112.0	0.000	40.732	100.971	146.186	160.478
112.5	0.000	40.417	100.259	145.108	159.370
113.0	0.000	40.173	99.416	144.000	158.171
113.5	0.000	39.919	98.663	142.882	156.930
114.0	0.000	39.583	97.789	141.754	155.700
114.5	0.000	39.299	96.915	140.514	154.481
115.0	0.000	38.892	96.122	139.345	153.230
115.5	0.000	38.536	95.258	138.084	151.960
116.0	0.000	38.333	94.343	136.864	150.618
116.5	0.000	37.967	93.459	135.522	149.296
117.0	0.000	37.611	92.564	134.242	147.893
117.5	0.000	37.225	91.710	133.042	146.542
118.0	0.000	36.930	90.724	131.741	145.057
118.5	0.000	36.544	89.698	130.460	143.644
119.0	0.000	36.137	88.813	129.118	142.059
119.5	0.000	35.842	87.919	127.787	140.625
120.0	0.000	35.456	86.902	126.374	139.090
120.5	0.000	35.202	85.987	125.022	137.616
121.0	0.000	34.877	85.052	123.609	135.960
121.5	0.000	34.552	84.219	122.084	134.465
122.0	0.000	34.206	83.283	120.712	132.879
122.5	0.000	33.870	82.226	119.187	131.345
123.0	0.000	33.545	81.250	117.805	129.749
123.5	0.000	33.230	80.254	116.351	128.183
124.0	0.000	32.935	79.258	114.907	126.638
124.5	0.000	32.640	78.292	113.464	124.991
125.0	0.000	32.336	77.286	112.061	123.426
125.5	0.000	31.990	76.361	110.628	121.789
126.0	0.000	31.766	75.355	109.164	120.224
126.5	0.000	31.492	74.419	107.741	118.669
127.0	0.000	31.075	73.433	106.237	116.981
127.5	0.000	30.862	72.437	104.824	115.446
128.0	0.000	30.506	71.512	103.360	113.850
128.5	0.000	30.170	70.546	101.947	112.254
129.0	0.000	29.886	69.601	100.473	110.628
129.5	0.000	29.601	68.666	99.151	109.032
130.0	0.000	29.286	67.609	97.667	107.345
130.5	0.000	28.900	66.755	96.285	105.789
131.0	0.000	28.574	65.738	94.811	104.193
131.5	0.000	28.300	64.783	93.428	102.730
132.0	0.000	27.995	63.898	91.995	101.062
132.5	0.000	27.619	62.912	90.602	99.487
133.0	0.000	27.304	61.977	89.200	98.003
133.5	0.000	26.907	61.083	87.695	96.437
134.0	0.000	26.623	60.127	86.384	94.801
134.5	0.000	26.277	59.182	84.910	93.164
135.0	0.000	25.942	58.308	83.517	91.599
135.5	0.000	25.504	57.322	82.165	90.064
136.0	0.000	25.281	56.346	80.783	88.468
136.5	0.000	24.945	55.461	79.400	86.994
137.0	0.000	24.529	54.485	77.957	85.408
137.5	0.000	24.142	53.591	76.605	83.873
138.0	0.000	23.756	52.696	75.151	82.308
138.5	0.000	23.410	51.761	73.850	80.895

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CANDELA TABULATION - (Cont.)

139.0	0.000	22.994	50.816	72.458	79.238
139.5	0.000	22.628	50.003	71.136	77.835
140.0	0.000	22.252	49.006	69.835	76.320
140.5	0.000	21.865	48.173	68.503	74.826
141.0	0.000	21.398	47.278	67.111	73.393
141.5	0.000	21.083	46.404	65.870	71.980
142.0	0.000	20.666	45.499	64.569	70.536
142.5	0.000	20.229	44.564	63.289	69.154
143.0	0.000	19.771	43.751	62.059	67.680
143.5	0.000	19.283	42.856	60.757	66.267
144.0	0.000	18.948	41.982	59.538	64.966
144.5	0.000	18.501	41.169	58.318	63.583
145.0	0.000	18.064	40.325	57.017	62.252
145.5	0.000	17.596	39.543	55.837	60.829
146.0	0.000	17.189	38.699	54.628	59.588
146.5	0.000	16.793	37.804	53.449	58.206
147.0	0.000	16.295	37.022	52.249	56.915
147.5	0.000	15.888	36.178	50.999	55.593
148.0	0.000	15.502	35.385	49.850	54.353
148.5	0.000	14.994	34.623	48.712	53.134
149.0	0.000	14.628	33.779	47.604	51.843
149.5	0.000	14.231	32.966	46.485	50.491
150.0	0.000	13.754	32.183	45.347	49.250
150.5	0.000	13.327	31.380	44.269	48.081
151.0	0.000	12.950	30.699	43.080	46.882
151.5	0.000	12.534	29.886	42.023	45.743
152.0	0.000	12.117	29.123	40.945	44.585
152.5	0.000	11.771	28.381	39.909	43.334
153.0	0.000	11.395	27.670	38.801	42.206
153.5	0.000	11.080	26.887	37.815	41.220
154.0	0.000	10.623	26.135	36.798	39.959
154.5	0.000	10.236	25.383	35.741	38.933
155.0	0.000	9.931	24.620	34.806	37.784
155.5	0.000	9.494	23.939	33.759	36.717
156.0	0.000	9.179	23.187	32.823	35.649
156.5	0.000	8.823	22.465	31.848	34.602
157.0	0.000	8.508	21.642	30.912	33.626
157.5	0.000	8.152	20.920	30.048	32.630
158.0	0.000	7.929	20.188	29.123	31.654
158.5	0.000	7.502	19.375	28.259	30.689
159.0	0.000	7.248	18.643	27.365	29.703
159.5	0.000	6.983	17.972	26.562	28.757
160.0	0.000	6.597	17.240	25.596	27.822
160.5	0.000	6.313	16.549	24.732	26.917
161.0	0.000	0.000	15.858	23.878	25.962
161.5	0.000	0.000	15.126	22.984	25.027
162.0	0.000	0.000	14.567	22.180	24.153
162.5	0.000	0.000	13.875	21.367	23.207
163.0	0.000	0.000	13.266	20.513	22.262
163.5	0.000	0.000	12.635	19.680	21.398
164.0	0.000	0.000	11.893	18.907	20.564
164.5	0.000	0.000	11.395	18.074	19.680
165.0	0.000	0.000	10.714	17.291	18.816
165.5	0.000	0.000	10.114	16.518	17.901
166.0	0.000	0.000	9.494	15.644	16.996
166.5	0.000	0.000	9.006	14.801	16.234

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CANDELA TABULATION - (Cont.)

167.0	0.000	0.000	8.366	14.058	15.309
167.5	0.000	0.000	7.776	13.235	14.546
168.0	0.000	0.000	7.227	12.442	13.621
168.5	0.000	0.000	6.740	11.609	12.849
169.0	0.000	0.000	6.130	10.856	12.036
169.5	0.000	0.000	0.000	10.145	11.212
170.0	0.000	0.000	0.000	9.362	10.480
170.5	0.000	0.000	0.000	8.559	9.545
171.0	0.000	0.000	0.000	7.756	8.752
171.5	0.000	0.000	0.000	7.055	7.939
172.0	0.000	0.000	0.000	6.272	7.166
172.5	0.000	0.000	0.000	0.000	6.414
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	889.51	N.A.	12.90
0-30	1871.01	N.A.	27.20
0-40	3013.27	N.A.	43.70
0-60	5081.00	N.A.	73.70
0-80	6223.58	N.A.	90.30
0-90	6437.16	N.A.	93.40
10-90	6206.02	N.A.	90.10
20-40	2123.76	N.A.	30.80
20-50	3242.53	N.A.	47.10
40-70	2770.32	N.A.	40.20
60-80	1142.59	N.A.	16.60
70-80	440.00	N.A.	6.40
80-90	213.58	N.A.	3.10
90-110	224.16	N.A.	3.30
90-120	311.15	N.A.	4.50
90-130	374.87	N.A.	5.40
90-150	439.70	N.A.	6.40
90-180	453.11	N.A.	6.60
110-180	228.95	N.A.	3.30
0-180	6890.27	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	231.14
10-20	658.37
20-30	981.50
30-40	1142.26
40-50	1118.77
50-60	948.96
60-70	702.59
70-80	440.00
80-90	213.58
90-100	118.51
100-110	105.65
110-120	86.99
120-130	63.73
130-140	41.55
140-150	23.28
150-160	10.45
160-170	2.83
170-180	0.12

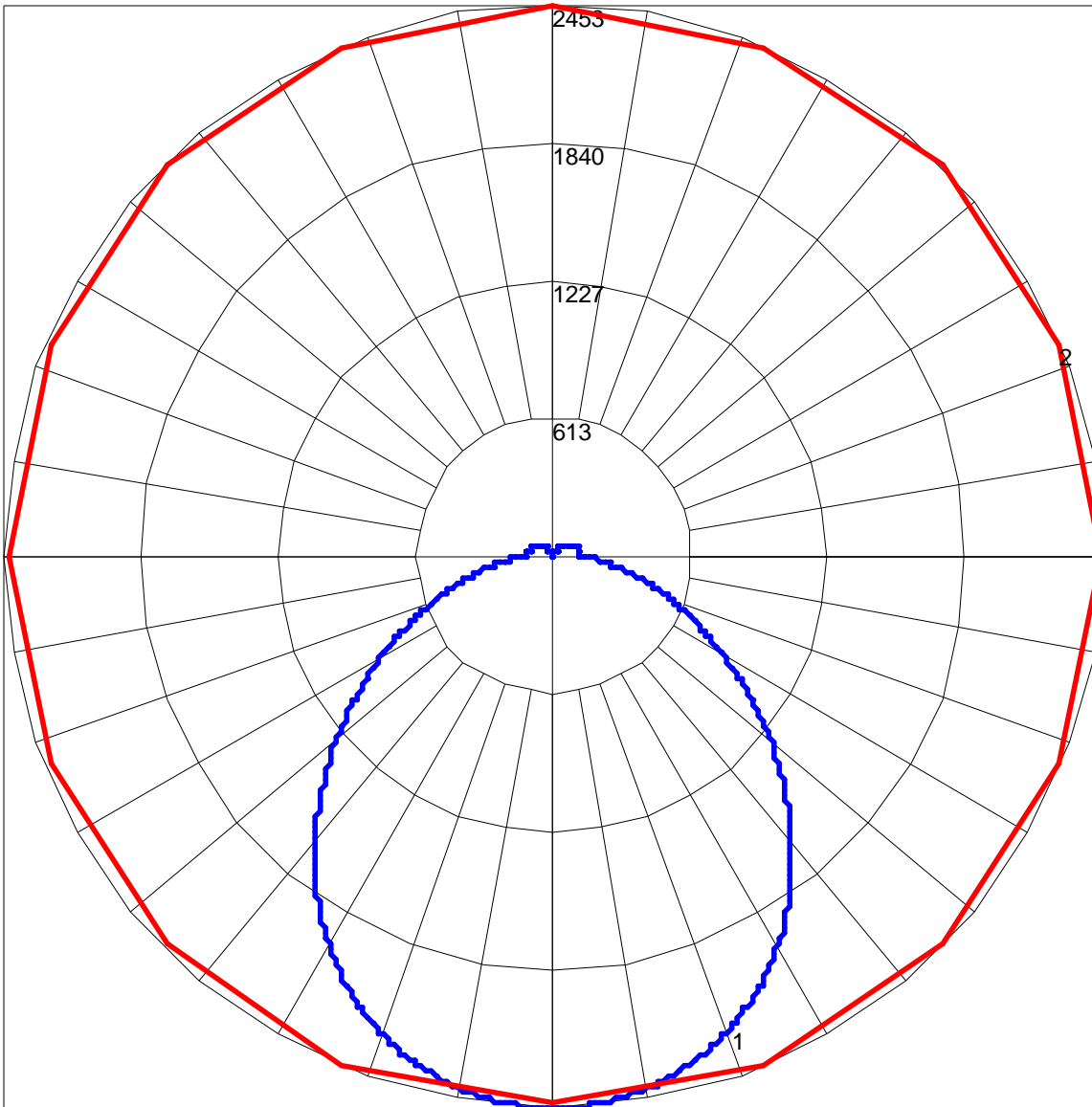
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
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	91	88	89	86	84	84	82	80	78
2	97	89	82	77	94	87	81	75	82	77	73	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 = 2453.391 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.)