



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 44-48LED57DMVFR40.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] 44-48LED57DMVFR40
 [LUMINAIRE] Catalog Number: 44-48LED57DMVFR40
 [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 M10CC840D32N2S 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	7121
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
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	14939	13125	12424
55	13006	11098	10647
65	10839	9093	9196
75	8503	7288	7898
85	5931	5806	6768

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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	2527.167	2527.167	2527.167	2527.167	2527.167
0.5	2515.832	2519.414	2535.403	2534.541	2521.725
1.0	2515.380	2519.036	2535.056	2534.058	2521.505
1.5	2514.992	2518.469	2534.310	2533.459	2521.074
2.0	2514.225	2517.723	2533.480	2532.472	2520.234
2.5	2512.943	2516.609	2532.430	2531.379	2519.278
3.0	2511.599	2515.191	2530.970	2530.087	2517.933
3.5	2510.002	2513.584	2529.362	2528.585	2516.336
4.0	2508.016	2511.693	2527.587	2526.705	2514.666
4.5	2505.905	2509.750	2525.423	2524.541	2512.691
5.0	2503.499	2507.281	2522.986	2522.198	2510.432
5.5	2500.946	2504.634	2520.276	2519.656	2507.932
6.0	2497.953	2501.860	2517.471	2516.746	2505.127
6.5	2494.959	2498.793	2514.235	2513.605	2502.270
7.0	2491.471	2495.494	2510.842	2510.201	2498.824
7.5	2487.721	2491.954	2507.291	2506.483	2495.263
8.0	2484.086	2488.036	2503.321	2502.428	2491.208
8.5	2479.821	2483.907	2499.045	2498.121	2486.954
9.0	2475.556	2479.674	2494.601	2493.687	2482.773
9.5	2470.976	2475.041	2489.937	2489.023	2478.046
10.0	2466.206	2470.125	2484.926	2483.834	2473.129
10.5	2461.006	2465.051	2479.758	2478.392	2467.835
11.0	2455.880	2459.798	2474.274	2472.982	2462.278
11.5	2450.050	2454.126	2468.402	2466.984	2456.374
12.0	2444.356	2448.264	2462.425	2460.691	2450.291
12.5	2438.284	2442.255	2456.248	2454.367	2444.030
13.0	2431.792	2435.826	2449.619	2447.655	2437.423
13.5	2425.289	2429.250	2442.990	2440.690	2430.584
14.0	2418.419	2422.380	2435.742	2433.326	2423.178
14.5	2411.339	2415.121	2428.409	2425.563	2415.488
15.0	2403.901	2407.988	2420.951	2417.747	2407.862
15.5	2396.390	2400.403	2413.156	2409.668	2399.899
16.0	2388.375	2392.514	2404.794	2400.949	2391.537
16.5	2380.223	2384.236	2396.443	2392.482	2382.881
17.0	2371.872	2375.853	2387.713	2383.427	2373.678
17.5	2363.299	2367.176	2378.910	2374.141	2364.728
18.0	2354.423	2358.257	2369.529	2364.571	2355.232
18.5	2345.252	2349.097	2360.053	2354.769	2345.493
19.0	2335.682	2339.674	2350.147	2344.527	2335.262
19.5	2326.238	2329.946	2340.073	2334.306	2324.977
20.0	2316.479	2320.019	2329.925	2323.454	2314.367
20.5	2306.383	2309.671	2319.157	2312.361	2303.326
21.0	2295.773	2299.135	2308.379	2301.236	2292.233
21.5	2285.384	2288.472	2297.297	2289.817	2281.066
22.0	2274.291	2277.263	2285.762	2277.904	2268.944
22.5	2263.260	2265.887	2274.143	2265.760	2256.831
23.0	2251.673	2254.405	2262.294	2253.512	2244.572
23.5	2239.834	2242.450	2250.098	2240.559	2232.050
24.0	2228.163	2230.401	2237.597	2227.869	2219.244
24.5	2215.914	2217.984	2224.907	2214.643	2206.050
25.0	2203.329	2205.231	2211.681	2200.997	2192.551
25.5	2190.765	2192.404	2198.507	2187.299	2178.905
26.0	2177.834	2179.157	2185.030	2173.453	2165.102
26.5	2164.198	2165.511	2171.163	2159.030	2150.846

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CANDELA TABULATION - (Cont.)

27.0	2150.762	2151.865	2156.981	2144.438	2136.339
27.5	2136.980	2137.915	2142.778	2129.731	2121.579
28.0	2122.556	2123.481	2128.050	2114.625	2106.578
28.5	2108.511	2109.026	2113.217	2099.277	2091.462
29.0	2093.794	2094.182	2098.258	2083.698	2076.051
29.5	2078.771	2078.929	2082.774	2067.941	2060.125
30.0	2063.844	2063.833	2067.269	2051.994	2044.294
30.5	2048.517	2048.307	2051.385	2035.606	2028.211
31.0	2032.528	2032.255	2035.155	2018.914	2011.603
31.5	2016.666	2016.214	2018.893	2002.295	1995.005
32.0	2000.572	1999.879	2002.463	1985.403	1978.239
32.5	1983.901	1983.218	1985.477	1968.133	1961.010
33.0	1967.282	1966.400	1968.553	1950.863	1943.761
33.5	1950.337	1949.518	1951.356	1933.309	1926.281
34.0	1932.952	1931.922	1933.802	1915.324	1908.664
34.5	1915.566	1914.463	1916.291	1897.550	1890.827
35.0	1897.865	1896.751	1898.516	1879.450	1872.842
35.5	1879.607	1878.525	1880.237	1860.919	1854.332
36.0	1861.307	1860.225	1861.969	1842.325	1836.032
36.5	1843.123	1842.083	1843.827	1823.868	1817.796
37.0	1824.057	1823.206	1825.065	1804.770	1798.824
37.5	1805.337	1804.381	1806.303	1785.892	1780.335
38.0	1786.144	1785.440	1787.447	1766.815	1761.478
38.5	1766.689	1766.027	1768.223	1747.307	1742.275
39.0	1747.150	1746.729	1749.167	1728.146	1723.261
39.5	1727.306	1727.201	1729.816	1708.722	1703.964
40.0	1706.894	1707.367	1709.920	1688.731	1684.466
40.5	1686.935	1687.660	1690.454	1669.413	1665.263
41.0	1666.597	1667.784	1670.904	1649.726	1645.934
41.5	1645.629	1647.573	1650.777	1629.798	1626.216
42.0	1625.134	1627.487	1630.964	1609.944	1606.855
42.5	1604.544	1607.276	1610.963	1590.142	1587.337
43.0	1583.366	1586.644	1590.426	1570.109	1567.535
43.5	1562.472	1566.264	1570.466	1550.118	1548.258
44.0	1541.336	1545.800	1549.992	1530.179	1528.688
44.5	1519.884	1524.916	1529.286	1509.863	1508.550
45.0	1498.727	1504.264	1509.012	1490.061	1489.189
45.5	1477.612	1483.548	1488.664	1470.206	1469.891
46.0	1455.709	1462.433	1467.895	1450.068	1450.089
46.5	1434.237	1441.622	1447.442	1430.235	1430.708
47.0	1412.817	1420.801	1426.789	1410.443	1411.462
47.5	1391.041	1399.487	1406.084	1390.379	1392.070
48.0	1369.379	1378.697	1385.483	1370.650	1372.762
48.5	1347.897	1357.740	1364.736	1350.943	1353.601
49.0	1325.973	1336.562	1343.926	1331.068	1334.240
49.5	1304.385	1315.720	1323.378	1311.707	1315.510
50.0	1282.902	1294.741	1302.872	1292.315	1296.863
50.5	1260.747	1273.479	1282.083	1272.586	1277.776
51.0	1239.369	1252.742	1261.630	1253.467	1259.402
51.5	1217.971	1231.879	1241.239	1234.422	1240.924
52.0	1196.120	1210.880	1220.629	1215.302	1222.330
52.5	1174.722	1189.975	1200.291	1196.383	1204.178
53.0	1153.239	1169.238	1180.006	1177.505	1186.067
53.5	1131.473	1148.386	1159.468	1158.660	1167.977
54.0	1110.326	1127.796	1139.530	1140.286	1150.277
54.5	1089.022	1107.196	1119.486	1121.966	1132.628

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55.0	1067.455	1086.312	1099.254	1103.487	1114.917
55.5	1046.498	1066.089	1079.609	1085.471	1097.688
56.0	1025.561	1045.836	1059.923	1067.707	1080.649
56.5	1004.373	1025.257	1040.016	1049.744	1063.337
57.0	983.394	1005.129	1020.582	1032.127	1046.603
57.5	962.584	984.980	1001.232	1014.667	1029.742
58.0	941.605	964.685	981.766	997.198	1012.987
58.5	921.036	944.893	962.857	980.085	996.693
59.0	900.531	925.091	943.885	963.109	980.348
59.5	880.067	905.111	924.902	946.217	964.023
60.0	859.887	885.729	906.298	929.630	948.066
60.5	839.896	866.295	887.904	913.147	932.329
61.0	819.453	846.651	869.215	896.465	916.225
61.5	799.651	827.447	851.136	880.372	900.678
62.0	780.164	808.318	833.068	864.309	885.193
62.5	760.215	789.125	815.136	848.321	869.656
63.0	740.960	770.447	797.508	832.553	854.424
63.5	721.725	751.727	780.059	816.932	839.255
64.0	702.354	732.986	762.495	801.321	823.981
64.5	683.602	714.676	745.529	786.016	809.284
65.0	664.840	696.324	728.564	770.762	794.441
65.5	646.037	677.793	711.651	755.488	779.387
66.0	627.695	659.882	695.042	740.624	764.890
66.5	609.490	642.150	678.739	725.843	750.393
67.0	591.179	624.176	662.393	710.968	735.707
67.5	573.342	606.821	646.320	696.397	721.431
68.0	555.620	589.436	630.468	682.027	707.228
68.5	537.940	572.008	614.627	667.603	693.004
69.0	520.775	555.158	599.279	653.390	678.938
69.5	503.662	538.255	584.047	639.376	664.903
70.0	486.392	521.479	568.762	625.163	650.753
70.5	469.689	505.038	553.876	611.391	637.055
71.0	453.396	488.966	539.264	597.703	623.220
71.5	436.808	472.767	524.525	583.899	609.637
72.0	420.788	457.041	510.228	570.453	596.033
72.5	405.094	441.546	496.151	557.143	582.660
73.0	389.326	426.419	482.064	543.718	569.234
73.5	374.115	411.208	468.376	530.692	555.988
74.0	358.809	396.301	454.698	517.518	542.741
74.5	343.944	381.626	441.294	504.608	529.631
75.0	329.384	367.454	428.215	491.897	516.804
75.5	315.097	353.388	415.263	479.364	503.998
76.0	300.811	339.417	402.384	466.685	491.151
76.5	286.934	325.907	389.851	454.446	478.744
77.0	273.487	312.681	377.581	442.345	466.275
77.5	259.978	299.582	365.322	430.180	453.911
78.0	246.941	286.776	353.336	418.225	441.756
78.5	233.946	274.233	341.602	406.596	429.644
79.0	221.225	261.795	329.868	394.830	417.731
79.5	209.071	249.903	318.648	383.422	405.997
80.0	196.906	238.117	307.481	372.171	394.526
80.5	184.867	226.551	296.451	360.857	382.949
81.0	173.427	215.268	285.831	350.027	371.845
81.5	162.103	204.291	275.294	339.291	360.710
82.0	150.883	193.387	264.884	328.523	349.711
82.5	140.000	182.829	254.746	318.081	338.902

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CANDELA TABULATION - (Cont.)

83.0	129.432	172.555	244.861	307.754	328.365
83.5	118.969	162.355	234.923	297.575	317.871
84.0	108.685	152.501	225.469	287.616	307.723
84.5	98.705	142.826	216.014	277.889	297.659
85.0	88.715	133.203	206.696	268.109	287.585
85.5	79.281	124.012	197.620	258.749	277.994
86.0	69.711	114.851	188.722	249.347	268.350
86.5	60.267	105.733	179.741	240.039	258.759
87.0	51.054	96.835	171.000	230.984	249.693
87.5	41.852	88.074	162.565	222.412	241.037
88.0	32.765	79.271	154.129	214.533	233.085
88.5	23.710	70.678	146.471	207.894	226.383
89.0	14.644	62.494	140.357	202.116	220.647
89.5	0.000	55.782	135.493	197.053	215.437
90.0	0.000	51.832	131.533	192.620	210.814
90.5	0.000	49.731	128.550	189.006	206.970
91.0	0.000	49.479	126.806	186.264	204.049
91.5	0.000	49.468	126.207	184.699	202.106
92.0	0.000	49.289	125.860	183.690	200.730
92.5	0.000	49.079	125.440	182.766	199.448
93.0	0.000	49.069	125.020	181.863	198.376
93.5	0.000	48.943	124.652	181.043	197.326
94.0	0.000	48.817	124.222	180.171	196.328
94.5	0.000	48.659	123.927	179.373	195.383
95.0	0.000	48.533	123.423	178.575	194.343
95.5	0.000	48.355	123.140	177.776	193.387
96.0	0.000	48.302	122.698	177.030	192.557
96.5	0.000	48.123	122.247	176.221	191.674
97.0	0.000	48.008	121.837	175.675	190.928
97.5	0.000	47.819	121.427	174.898	190.130
98.0	0.000	47.609	121.028	174.215	189.353
98.5	0.000	47.535	120.503	173.448	188.533
99.0	0.000	47.388	120.135	172.776	187.850
99.5	0.000	47.315	119.568	172.177	187.115
100.0	0.000	47.199	119.106	171.410	186.380
100.5	0.000	47.031	118.675	170.801	185.686
101.0	0.000	46.779	118.192	170.139	184.941
101.5	0.000	46.684	117.709	169.446	184.279
102.0	0.000	46.516	117.194	168.742	183.596
102.5	0.000	46.317	116.700	168.091	182.987
103.0	0.000	46.233	116.196	167.313	182.241
103.5	0.000	46.096	115.608	166.620	181.495
104.0	0.000	45.854	115.114	165.884	180.791
104.5	0.000	45.655	114.515	165.118	179.993
105.0	0.000	45.487	114.021	164.298	179.331
105.5	0.000	45.287	113.380	163.573	178.553
106.0	0.000	45.077	112.719	162.712	177.650
106.5	0.000	44.898	112.204	162.008	176.925
107.0	0.000	44.709	111.532	161.021	176.074
107.5	0.000	44.520	110.901	160.096	175.097
108.0	0.000	44.268	110.281	159.298	174.183
108.5	0.000	44.089	109.578	158.321	173.259
109.0	0.000	43.858	108.853	157.375	172.387
109.5	0.000	43.575	108.107	156.346	171.358
110.0	0.000	43.260	107.424	155.306	170.255
110.5	0.000	43.028	106.668	154.329	169.225

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111.0	0.000	42.766	105.911	153.299	168.027
111.5	0.000	42.514	105.281	152.259	167.019
112.0	0.000	42.094	104.346	151.072	165.842
112.5	0.000	41.768	103.611	149.959	164.697
113.0	0.000	41.516	102.739	148.814	163.458
113.5	0.000	41.253	101.962	147.658	162.176
114.0	0.000	40.906	101.058	146.492	160.905
114.5	0.000	40.612	100.155	145.211	159.644
115.0	0.000	40.192	99.335	144.003	158.352
115.5	0.000	39.824	98.442	142.700	157.039
116.0	0.000	39.614	97.497	141.439	155.653
116.5	0.000	39.236	96.583	140.053	154.287
117.0	0.000	38.869	95.659	138.729	152.837
117.5	0.000	38.469	94.776	137.489	151.440
118.0	0.000	38.165	93.757	136.145	149.906
118.5	0.000	37.765	92.696	134.821	148.446
119.0	0.000	37.345	91.782	133.435	146.807
119.5	0.000	37.041	90.858	132.058	145.326
120.0	0.000	36.641	89.807	130.598	143.740
120.5	0.000	36.379	88.862	129.201	142.217
121.0	0.000	36.043	87.895	127.741	140.504
121.5	0.000	35.706	87.034	126.165	138.960
122.0	0.000	35.349	86.067	124.747	137.321
122.5	0.000	35.003	84.975	123.171	135.735
123.0	0.000	34.667	83.966	121.742	134.086
123.5	0.000	34.341	82.937	120.240	132.468
124.0	0.000	34.036	81.907	118.749	130.871
124.5	0.000	33.732	80.910	117.257	129.169
125.0	0.000	33.416	79.870	115.807	127.552
125.5	0.000	33.059	78.914	114.326	125.860
126.0	0.000	32.828	77.874	112.813	124.243
126.5	0.000	32.544	76.907	111.342	122.635
127.0	0.000	32.114	75.888	109.788	120.892
127.5	0.000	31.893	74.859	108.328	119.305
128.0	0.000	31.526	73.903	106.815	117.656
128.5	0.000	31.179	72.905	105.355	116.007
129.0	0.000	30.885	71.928	103.831	114.326
129.5	0.000	30.591	70.961	102.466	112.677
130.0	0.000	30.265	69.869	100.932	110.933
130.5	0.000	29.866	68.986	99.503	109.326
131.0	0.000	29.530	67.936	97.980	107.676
131.5	0.000	29.246	66.948	96.551	106.164
132.0	0.000	28.931	66.034	95.070	104.441
132.5	0.000	28.542	65.015	93.631	102.812
133.0	0.000	28.216	64.049	92.181	101.279
133.5	0.000	27.807	63.125	90.627	99.661
134.0	0.000	27.513	62.137	89.271	97.970
134.5	0.000	27.155	61.160	87.748	96.278
135.0	0.000	26.809	60.257	86.309	94.661
135.5	0.000	26.357	59.238	84.912	93.074
136.0	0.000	26.126	58.229	83.483	91.425
136.5	0.000	25.779	57.315	82.055	89.902
137.0	0.000	25.349	56.307	80.563	88.263
137.5	0.000	24.949	55.382	79.166	86.677
138.0	0.000	24.550	54.458	77.663	85.059
138.5	0.000	24.193	53.491	76.319	83.599

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CANDELA TABULATION - (Cont.)

139.0	0.000	23.762	52.514	74.880	81.886
139.5	0.000	23.384	51.674	73.514	80.437
140.0	0.000	22.995	50.645	72.169	78.872
140.5	0.000	22.596	49.783	70.793	77.327
141.0	0.000	22.113	48.859	69.354	75.846
141.5	0.000	21.787	47.955	68.072	74.386
142.0	0.000	21.357	47.020	66.728	72.894
142.5	0.000	20.905	46.054	65.404	71.466
143.0	0.000	20.432	45.214	64.133	69.942
143.5	0.000	19.928	44.289	62.788	68.482
144.0	0.000	19.581	43.386	61.528	67.137
144.5	0.000	19.119	42.545	60.267	65.709
145.0	0.000	18.667	41.673	58.923	64.333
145.5	0.000	18.184	40.864	57.704	62.862
146.0	0.000	17.764	39.993	56.454	61.580
146.5	0.000	17.354	39.068	55.235	60.152
147.0	0.000	16.840	38.259	53.996	58.817
147.5	0.000	16.419	37.387	52.704	57.452
148.0	0.000	16.020	36.568	51.517	56.170
148.5	0.000	15.495	35.780	50.340	54.910
149.0	0.000	15.117	34.908	49.195	53.576
149.5	0.000	14.707	34.068	48.039	52.178
150.0	0.000	14.213	33.259	46.863	50.897
150.5	0.000	13.772	32.429	45.749	49.689
151.0	0.000	13.383	31.725	44.520	48.449
151.5	0.000	12.953	30.885	43.428	47.273
152.0	0.000	12.522	30.097	42.314	46.075
152.5	0.000	12.165	29.330	41.243	44.783
153.0	0.000	11.776	28.595	40.098	43.617
153.5	0.000	11.450	27.786	39.079	42.598
154.0	0.000	10.978	27.008	38.028	41.295
154.5	0.000	10.579	26.231	36.936	40.234
155.0	0.000	10.263	25.443	35.969	39.047
155.5	0.000	9.812	24.739	34.887	37.944
156.0	0.000	9.486	23.962	33.921	36.841
156.5	0.000	9.118	23.216	32.912	35.759
157.0	0.000	8.793	22.365	31.946	34.751
157.5	0.000	8.425	21.619	31.053	33.721
158.0	0.000	8.194	20.863	30.097	32.713
158.5	0.000	7.753	20.023	29.204	31.715
159.0	0.000	7.490	19.266	28.279	30.696
159.5	0.000	7.217	18.573	27.450	29.719
160.0	0.000	6.818	17.816	26.452	28.752
160.5	0.000	6.524	17.102	25.559	27.817
161.0	0.000	0.000	16.388	24.676	26.830
161.5	0.000	0.000	15.631	23.752	25.863
162.0	0.000	0.000	15.054	22.922	24.960
162.5	0.000	0.000	14.339	22.082	23.983
163.0	0.000	0.000	13.709	21.199	23.006
163.5	0.000	0.000	13.058	20.338	22.113
164.0	0.000	0.000	12.291	19.539	21.252
164.5	0.000	0.000	11.776	18.678	20.338
165.0	0.000	0.000	11.072	17.869	19.445
165.5	0.000	0.000	10.452	17.071	18.499
166.0	0.000	0.000	9.812	16.167	17.564
166.5	0.000	0.000	9.307	15.295	16.776

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CANDELA TABULATION - (Cont.)

167.0	0.000	0.000	8.646	14.528	15.821
167.5	0.000	0.000	8.036	13.678	15.033
168.0	0.000	0.000	7.469	12.858	14.077
168.5	0.000	0.000	6.965	11.997	13.278
169.0	0.000	0.000	6.335	11.219	12.438
169.5	0.000	0.000	0.000	10.484	11.587
170.0	0.000	0.000	0.000	9.675	10.831
170.5	0.000	0.000	0.000	8.845	9.864
171.0	0.000	0.000	0.000	8.015	9.045
171.5	0.000	0.000	0.000	7.290	8.204
172.0	0.000	0.000	0.000	6.482	7.406
172.5	0.000	0.000	0.000	0.000	6.629
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	919.24	N.A.	12.90
0-30	1933.55	N.A.	27.20
0-40	3113.99	N.A.	43.70
0-60	5250.84	N.A.	73.70
0-80	6431.62	N.A.	90.30
0-90	6652.34	N.A.	93.40
10-90	6413.48	N.A.	90.10
20-40	2194.75	N.A.	30.80
20-50	3350.92	N.A.	47.10
40-70	2862.92	N.A.	40.20
60-80	1180.78	N.A.	16.60
70-80	454.71	N.A.	6.40
80-90	220.72	N.A.	3.10
90-110	231.65	N.A.	3.30
90-120	321.55	N.A.	4.50
90-130	387.41	N.A.	5.40
90-150	454.40	N.A.	6.40
90-180	468.26	N.A.	6.60
110-180	236.60	N.A.	3.30
0-180	7120.59	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	238.86
10-20	680.38
20-30	1014.31
30-40	1180.44
40-50	1156.17
50-60	980.68
60-70	726.07
70-80	454.71
80-90	220.72
90-100	122.48
100-110	109.18
110-120	89.90
120-130	65.86
130-140	42.94
140-150	24.06
150-160	10.80
160-170	2.93
170-180	0.12

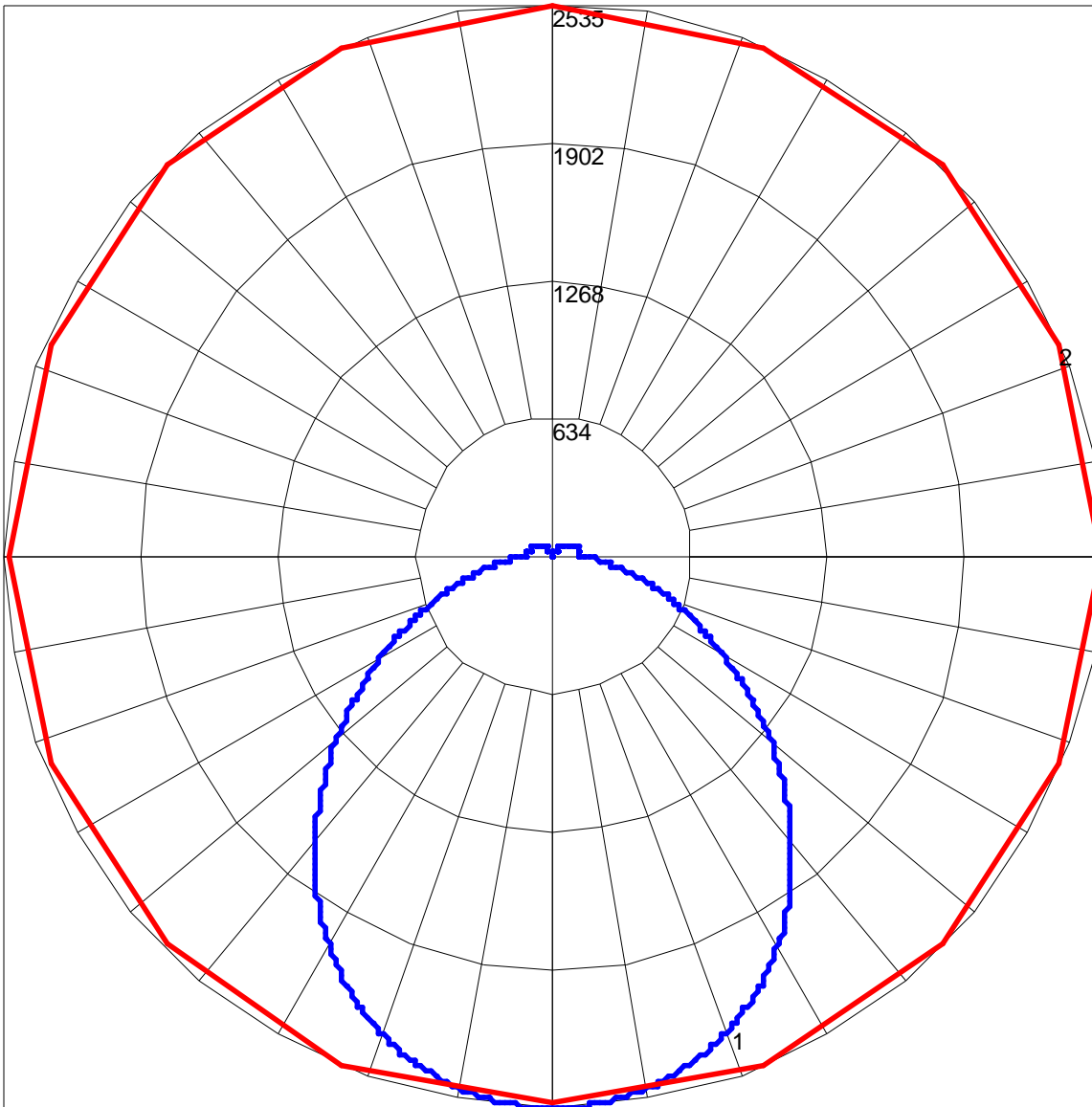
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	62	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 = 2535.403 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.)