



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 44-48LED30DMVFR50.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] 44-48LED30DMVFR50
 [LUMINAIRE] Catalog Number: 44-48LED30DMVFR50
 [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 M10CC850D32N2S boards with 32 LED each. One Universal Lighting
 [MORE] Technologies Everline D10CC55UNVTZ-C LED driver set at 553mA.
 [MORE] 120.0Vac, 60.0Hz, 0.25A, 30.0W, 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 44-48LED57DMVFR30
 [DATE] The original file was 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	4086
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	136
Total Luminaire Watts	30
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	8572	7531	7129
55	7463	6368	6110
65	6220	5218	5277
75	4879	4182	4532
85	3403	3332	3884

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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	1450.144	1450.144	1450.144	1450.144	1450.144
0.5	1443.640	1445.695	1454.870	1454.376	1447.021
1.0	1443.381	1445.478	1454.671	1454.098	1446.895
1.5	1443.157	1445.153	1454.243	1453.755	1446.648
2.0	1442.717	1444.725	1453.767	1453.188	1446.165
2.5	1441.982	1444.086	1453.164	1452.561	1445.617
3.0	1441.210	1443.272	1452.326	1451.820	1444.845
3.5	1440.294	1442.350	1451.404	1450.958	1443.929
4.0	1439.155	1441.265	1450.385	1449.879	1442.971
4.5	1437.943	1440.150	1449.143	1448.637	1441.837
5.0	1436.563	1438.733	1447.745	1447.293	1440.541
5.5	1435.098	1437.214	1446.190	1445.834	1439.107
6.0	1433.380	1435.622	1444.580	1444.164	1437.497
6.5	1431.662	1433.862	1442.723	1442.362	1435.858
7.0	1429.661	1431.970	1440.776	1440.409	1433.880
7.5	1427.509	1429.938	1438.739	1438.275	1431.837
8.0	1425.423	1427.690	1436.460	1435.948	1429.510
8.5	1422.976	1425.321	1434.007	1433.477	1427.069
9.0	1420.528	1422.891	1431.457	1430.933	1424.670
9.5	1417.900	1420.233	1428.781	1428.256	1421.957
10.0	1415.163	1417.412	1425.905	1425.278	1419.136
10.5	1412.180	1414.500	1422.940	1422.156	1416.098
11.0	1409.238	1411.486	1419.793	1419.052	1412.909
11.5	1405.892	1408.231	1416.423	1415.610	1409.521
12.0	1402.625	1404.868	1412.993	1411.999	1406.031
12.5	1399.141	1401.420	1409.449	1408.370	1402.438
13.0	1395.416	1397.730	1405.645	1404.518	1398.647
13.5	1391.684	1393.957	1401.842	1400.521	1394.722
14.0	1387.742	1390.015	1397.682	1396.296	1390.473
14.5	1383.679	1385.849	1393.475	1391.841	1386.060
15.0	1379.411	1381.756	1389.195	1387.356	1381.684
15.5	1375.101	1377.404	1384.722	1382.721	1377.115
16.0	1370.502	1372.877	1379.924	1377.718	1372.316
16.5	1365.824	1368.127	1375.131	1372.859	1367.349
17.0	1361.032	1363.317	1370.122	1367.663	1362.069
17.5	1356.113	1358.337	1365.071	1362.334	1356.933
18.0	1351.019	1353.220	1359.688	1356.843	1351.484
18.5	1345.757	1347.963	1354.251	1351.218	1345.896
19.0	1340.266	1342.556	1348.566	1345.341	1340.024
19.5	1334.846	1336.974	1342.785	1339.476	1334.123
20.0	1329.246	1331.278	1336.962	1333.249	1328.035
20.5	1323.453	1325.340	1330.784	1326.883	1321.699
21.0	1317.365	1319.294	1324.599	1320.500	1315.334
21.5	1311.403	1313.176	1318.239	1313.947	1308.926
22.0	1305.038	1306.744	1311.620	1307.112	1301.970
22.5	1298.709	1300.216	1304.954	1300.143	1295.019
23.0	1292.060	1293.627	1298.154	1293.115	1287.985
23.5	1285.266	1286.767	1291.155	1285.682	1280.799
24.0	1278.569	1279.853	1283.982	1278.400	1273.451
24.5	1271.540	1272.728	1276.700	1270.811	1265.880
25.0	1264.319	1265.410	1269.111	1262.981	1258.134
25.5	1257.109	1258.050	1261.552	1255.120	1250.304
26.0	1249.689	1250.448	1253.818	1247.175	1242.383
26.5	1241.864	1242.618	1245.861	1238.899	1234.203

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CANDELA TABULATION - (Cont.)

27.0	1234.155	1234.788	1237.723	1230.526	1225.878
27.5	1226.246	1226.782	1229.573	1222.087	1217.409
28.0	1217.969	1218.500	1221.122	1213.418	1208.801
28.5	1209.910	1210.205	1212.611	1204.611	1200.127
29.0	1201.465	1201.688	1204.027	1195.672	1191.284
29.5	1192.845	1192.935	1195.141	1186.630	1182.145
30.0	1184.279	1184.273	1186.244	1177.479	1173.061
30.5	1175.484	1175.364	1177.130	1168.076	1163.832
31.0	1166.310	1166.153	1167.817	1158.497	1154.302
31.5	1157.207	1156.948	1158.485	1148.961	1144.778
32.0	1147.972	1147.574	1149.057	1139.268	1135.157
32.5	1138.406	1138.014	1139.310	1129.358	1125.271
33.0	1128.870	1128.363	1129.599	1119.448	1115.373
33.5	1119.146	1118.676	1119.731	1109.375	1105.342
34.0	1109.170	1108.579	1109.658	1099.055	1095.233
34.5	1099.194	1098.561	1099.610	1088.856	1084.998
35.0	1089.037	1088.398	1089.410	1078.470	1074.678
35.5	1078.560	1077.939	1078.922	1067.836	1064.057
36.0	1068.059	1067.438	1068.439	1057.167	1053.556
36.5	1057.625	1057.028	1058.029	1046.575	1043.091
37.0	1046.684	1046.196	1047.263	1035.616	1032.205
37.5	1035.942	1035.393	1036.497	1024.784	1021.595
38.0	1024.929	1024.525	1025.676	1013.837	1010.775
38.5	1013.765	1013.385	1014.645	1002.643	999.756
39.0	1002.553	1002.312	1003.710	991.648	988.845
39.5	991.166	991.106	992.607	980.502	977.772
40.0	979.454	979.725	981.190	969.031	966.584
40.5	968.000	968.416	970.020	957.946	955.565
41.0	956.330	957.011	958.802	946.649	944.473
41.5	944.298	945.413	947.252	935.214	933.159
42.0	932.538	933.888	935.883	923.821	922.049
42.5	920.723	922.290	924.406	912.458	910.849
43.0	908.570	910.451	912.621	900.963	899.486
43.5	896.581	898.757	901.168	889.492	888.425
44.0	884.452	887.014	889.419	878.051	877.195
44.5	872.143	875.031	877.538	866.392	865.639
45.0	860.003	863.179	865.904	855.030	854.529
45.5	847.886	851.292	854.228	843.637	843.456
46.0	835.318	839.176	842.311	832.081	832.093
46.5	822.997	827.235	830.574	820.700	820.971
47.0	810.706	815.287	818.723	809.343	809.928
47.5	798.210	803.056	806.842	797.830	798.800
48.0	785.780	791.127	795.021	786.509	787.721
48.5	773.453	779.101	783.116	775.201	776.726
49.0	760.872	766.948	771.174	763.796	765.616
49.5	748.485	754.989	759.383	752.686	754.868
50.0	736.157	742.951	747.617	741.559	744.169
50.5	723.444	730.750	735.687	730.238	733.216
51.0	711.177	718.851	723.951	719.267	722.673
51.5	698.898	706.879	712.250	708.338	712.070
52.0	686.360	694.829	700.423	697.367	701.400
52.5	674.081	682.834	688.753	686.511	690.984
53.0	661.754	670.934	677.113	675.679	680.591
53.5	649.264	658.969	665.328	664.864	670.211
54.0	637.129	647.154	653.887	654.321	660.054
54.5	624.905	635.333	642.386	643.808	649.927

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55.0	612.529	623.349	630.776	633.205	639.764
55.5	600.503	611.746	619.504	622.867	629.878
56.0	588.490	600.124	608.207	612.674	620.100
56.5	576.331	588.315	596.784	602.366	610.166
57.0	564.293	576.765	585.632	592.257	600.564
57.5	552.352	565.203	574.529	582.239	590.889
58.0	540.314	553.557	563.359	572.214	581.274
58.5	528.511	542.201	552.508	562.394	571.925
59.0	516.744	530.838	541.622	552.653	562.545
59.5	505.002	519.372	530.729	542.960	553.178
60.0	493.422	508.251	520.054	533.442	544.021
60.5	481.951	497.099	509.499	523.984	534.991
61.0	470.220	485.827	498.775	514.411	525.750
61.5	458.857	474.807	488.401	505.177	516.829
62.0	447.675	463.830	478.032	495.960	507.943
62.5	436.228	452.817	467.743	486.785	499.028
63.0	425.179	442.100	457.628	477.737	490.287
63.5	414.142	431.358	447.615	468.773	481.583
64.0	403.026	420.604	437.536	459.816	472.818
64.5	392.266	410.097	427.801	451.033	464.385
65.0	381.500	399.566	418.066	442.280	455.868
65.5	370.710	388.933	408.361	433.516	447.229
66.0	360.185	378.655	398.831	424.986	438.911
66.5	349.739	368.480	389.475	416.505	430.592
67.0	339.232	358.166	380.096	407.969	422.165
67.5	328.996	348.207	370.873	399.608	413.973
68.0	318.827	338.231	361.776	391.362	405.823
68.5	308.682	328.231	352.686	383.085	397.661
69.0	298.832	318.562	343.879	374.930	389.590
69.5	289.012	308.863	335.139	366.888	381.536
70.0	279.102	299.236	326.368	358.732	373.417
70.5	269.518	289.802	317.826	350.830	365.556
71.0	260.168	280.579	309.441	342.975	357.617
71.5	250.650	271.284	300.984	335.054	349.823
72.0	241.458	262.260	292.780	327.338	342.017
72.5	232.452	253.369	284.702	319.701	334.343
73.0	223.404	244.689	276.619	311.997	326.639
73.5	214.675	235.960	268.764	304.523	319.038
74.0	205.892	227.406	260.916	296.963	311.437
74.5	197.363	218.985	253.224	289.555	303.914
75.0	189.008	210.853	245.719	282.261	296.553
75.5	180.810	202.782	238.287	275.070	289.205
76.0	172.612	194.765	230.897	267.794	281.833
76.5	164.649	187.013	223.705	260.771	274.714
77.0	156.933	179.423	216.664	253.827	267.559
77.5	149.181	171.907	209.630	246.847	260.464
78.0	141.700	164.558	202.752	239.987	253.489
78.5	134.244	157.361	196.019	233.314	246.539
79.0	126.944	150.224	189.285	226.562	239.703
79.5	119.969	143.400	182.847	220.016	232.970
80.0	112.989	136.637	176.440	213.560	226.388
80.5	106.081	130.000	170.110	207.068	219.745
81.0	99.516	123.526	164.016	200.853	213.373
81.5	93.018	117.227	157.970	194.692	206.983
82.0	86.580	110.969	151.996	188.514	200.672
82.5	80.335	104.911	146.179	182.522	194.469

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83.0	74.271	99.016	140.507	176.596	188.423
83.5	68.267	93.163	134.804	170.755	182.401
84.0	62.366	87.508	129.379	165.041	176.578
84.5	56.639	81.957	123.954	159.459	170.803
85.0	50.906	76.435	118.607	153.847	165.023
85.5	45.493	71.161	113.399	148.476	159.519
86.0	40.002	65.904	108.293	143.081	153.985
86.5	34.583	60.672	103.139	137.740	148.482
87.0	29.296	55.566	98.124	132.544	143.280
87.5	24.016	50.539	93.283	127.625	138.312
88.0	18.801	45.487	88.443	123.104	133.749
88.5	13.605	40.556	84.048	119.294	129.903
89.0	8.403	35.861	80.540	115.979	126.612
89.5	0.000	32.009	77.749	113.073	123.622
90.0	0.000	29.742	75.477	110.529	120.970
90.5	0.000	28.537	73.765	108.456	118.764
91.0	0.000	28.392	72.764	106.882	117.088
91.5	0.000	28.386	72.420	105.984	115.973
92.0	0.000	28.283	72.221	105.406	115.183
92.5	0.000	28.163	71.980	104.875	114.448
93.0	0.000	28.157	71.739	104.357	113.833
93.5	0.000	28.084	71.528	103.887	113.230
94.0	0.000	28.012	71.281	103.386	112.657
94.5	0.000	27.922	71.112	102.928	112.115
95.0	0.000	27.849	70.823	102.470	111.518
95.5	0.000	27.747	70.660	102.012	110.969
96.0	0.000	27.717	70.407	101.584	110.493
96.5	0.000	27.614	70.148	101.120	109.987
97.0	0.000	27.548	69.913	100.806	109.559
97.5	0.000	27.439	69.678	100.360	109.101
98.0	0.000	27.319	69.449	99.968	108.655
98.5	0.000	27.277	69.147	99.528	108.185
99.0	0.000	27.192	68.936	99.143	107.793
99.5	0.000	27.150	68.611	98.799	107.371
100.0	0.000	27.084	68.345	98.359	106.949
100.5	0.000	26.987	68.098	98.009	106.551
101.0	0.000	26.843	67.821	97.629	106.123
101.5	0.000	26.788	67.544	97.232	105.743
102.0	0.000	26.692	67.248	96.828	105.351
102.5	0.000	26.577	66.965	96.454	105.002
103.0	0.000	26.529	66.676	96.008	104.574
103.5	0.000	26.451	66.338	95.610	104.146
104.0	0.000	26.312	66.055	95.188	103.742
104.5	0.000	26.198	65.711	94.748	103.284
105.0	0.000	26.101	65.428	94.278	102.904
105.5	0.000	25.987	65.060	93.862	102.458
106.0	0.000	25.866	64.680	93.368	101.940
106.5	0.000	25.764	64.385	92.964	101.524
107.0	0.000	25.655	63.999	92.397	101.035
107.5	0.000	25.547	63.638	91.867	100.475
108.0	0.000	25.402	63.282	91.409	99.950
108.5	0.000	25.300	62.878	90.848	99.420
109.0	0.000	25.167	62.462	90.305	98.919
109.5	0.000	25.004	62.034	89.715	98.329
110.0	0.000	24.823	61.642	89.118	97.696
110.5	0.000	24.691	61.208	88.557	97.105

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CANDELA TABULATION - (Cont.)

111.0	0.000	24.540	60.774	87.967	96.418
111.5	0.000	24.395	60.413	87.370	95.839
112.0	0.000	24.154	59.876	86.689	95.164
112.5	0.000	23.967	59.454	86.050	94.507
113.0	0.000	23.823	58.954	85.393	93.796
113.5	0.000	23.672	58.508	84.730	93.060
114.0	0.000	23.473	57.989	84.060	92.331
114.5	0.000	23.304	57.471	83.325	91.608
115.0	0.000	23.063	57.001	82.632	90.866
115.5	0.000	22.852	56.488	81.884	90.113
116.0	0.000	22.732	55.946	81.161	89.317
116.5	0.000	22.515	55.421	80.365	88.533
117.0	0.000	22.304	54.891	79.606	87.701
117.5	0.000	22.075	54.385	78.894	86.900
118.0	0.000	21.900	53.800	78.123	86.020
118.5	0.000	21.671	53.191	77.363	85.182
119.0	0.000	21.430	52.667	76.568	84.241
119.5	0.000	21.255	52.136	75.778	83.391
120.0	0.000	21.026	51.533	74.940	82.481
120.5	0.000	20.875	50.991	74.138	81.607
121.0	0.000	20.682	50.436	73.300	80.625
121.5	0.000	20.489	49.942	72.396	79.738
122.0	0.000	20.284	49.387	71.583	78.798
122.5	0.000	20.085	48.760	70.678	77.888
123.0	0.000	19.892	48.182	69.858	76.941
123.5	0.000	19.706	47.591	68.996	76.013
124.0	0.000	19.531	47.000	68.141	75.097
124.5	0.000	19.356	46.428	67.285	74.120
125.0	0.000	19.175	45.831	66.453	73.192
125.5	0.000	18.970	45.282	65.603	72.221
126.0	0.000	18.838	44.686	64.735	71.293
126.5	0.000	18.675	44.131	63.891	70.371
127.0	0.000	18.428	43.546	62.999	69.370
127.5	0.000	18.301	42.956	62.161	68.460
128.0	0.000	18.090	42.407	61.293	67.514
128.5	0.000	17.891	41.834	60.455	66.567
129.0	0.000	17.722	41.274	59.581	65.603
129.5	0.000	17.554	40.719	58.797	64.656
130.0	0.000	17.367	40.092	57.917	63.656
130.5	0.000	17.138	39.586	57.097	62.733
131.0	0.000	16.945	38.983	56.223	61.787
131.5	0.000	16.782	38.416	55.403	60.919
132.0	0.000	16.601	37.892	54.553	59.930
132.5	0.000	16.378	37.307	53.728	58.996
133.0	0.000	16.191	36.753	52.896	58.116
133.5	0.000	15.956	36.222	52.004	57.188
134.0	0.000	15.787	35.656	51.226	56.217
134.5	0.000	15.582	35.095	50.352	55.247
135.0	0.000	15.383	34.577	49.526	54.318
135.5	0.000	15.124	33.992	48.724	53.408
136.0	0.000	14.992	33.413	47.905	52.462
136.5	0.000	14.793	32.889	47.085	51.588
137.0	0.000	14.546	32.310	46.229	50.647
137.5	0.000	14.317	31.780	45.427	49.737
138.0	0.000	14.087	31.249	44.565	48.809
138.5	0.000	13.882	30.695	43.793	47.971

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CANDELA TABULATION - (Cont.)

139.0	0.000	13.635	30.134	42.968	46.988
139.5	0.000	13.418	29.652	42.184	46.156
140.0	0.000	13.195	29.061	41.412	45.258
140.5	0.000	12.966	28.567	40.623	44.372
141.0	0.000	12.689	28.036	39.797	43.522
141.5	0.000	12.502	27.518	39.061	42.684
142.0	0.000	12.255	26.981	38.290	41.828
142.5	0.000	11.996	26.427	37.530	41.008
143.0	0.000	11.724	25.945	36.801	40.134
143.5	0.000	11.435	25.414	36.029	39.297
144.0	0.000	11.236	24.896	35.306	38.525
144.5	0.000	10.971	24.413	34.583	37.705
145.0	0.000	10.712	23.913	33.811	36.915
145.5	0.000	10.434	23.449	33.112	36.072
146.0	0.000	10.193	22.949	32.394	35.336
146.5	0.000	9.958	22.418	31.695	34.516
147.0	0.000	9.663	21.954	30.984	33.751
147.5	0.000	9.422	21.454	30.242	32.967
148.0	0.000	9.193	20.983	29.561	32.232
148.5	0.000	8.891	20.531	28.886	31.508
149.0	0.000	8.674	20.031	28.229	30.743
149.5	0.000	8.439	19.549	27.566	29.941
150.0	0.000	8.156	19.085	26.891	29.206
150.5	0.000	7.903	18.608	26.252	28.512
151.0	0.000	7.680	18.205	25.547	27.801
151.5	0.000	7.433	17.722	24.920	27.126
152.0	0.000	7.185	17.270	24.281	26.439
152.5	0.000	6.980	16.830	23.666	25.697
153.0	0.000	6.757	16.408	23.009	25.028
153.5	0.000	6.571	15.944	22.424	24.444
154.0	0.000	6.299	15.498	21.821	23.696
154.5	0.000	6.070	15.052	21.194	23.087
155.0	0.000	5.889	14.600	20.640	22.406
155.5	0.000	5.630	14.196	20.019	21.773
156.0	0.000	5.443	13.750	19.464	21.140
156.5	0.000	5.232	13.322	18.886	20.519
157.0	0.000	5.045	12.834	18.331	19.941
157.5	0.000	4.834	12.406	17.819	19.350
158.0	0.000	4.702	11.972	17.270	18.771
158.5	0.000	4.449	11.489	16.758	18.199
159.0	0.000	4.298	11.055	16.227	17.614
159.5	0.000	4.141	10.658	15.751	17.053
160.0	0.000	3.912	10.223	15.179	16.499
160.5	0.000	3.743	9.814	14.666	15.962
161.0	0.000	0.000	9.404	14.160	15.396
161.5	0.000	0.000	8.970	13.629	14.841
162.0	0.000	0.000	8.638	13.153	14.323
162.5	0.000	0.000	8.228	12.671	13.762
163.0	0.000	0.000	7.867	12.165	13.201
163.5	0.000	0.000	7.493	11.670	12.689
164.0	0.000	0.000	7.053	11.212	12.195
164.5	0.000	0.000	6.757	10.718	11.670
165.0	0.000	0.000	6.354	10.254	11.158
165.5	0.000	0.000	5.998	9.796	10.615
166.0	0.000	0.000	5.630	9.277	10.079
166.5	0.000	0.000	5.341	8.777	9.627

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CANDELA TABULATION - (Cont.)

167.0	0.000	0.000	4.961	8.337	9.078
167.5	0.000	0.000	4.611	7.848	8.626
168.0	0.000	0.000	4.286	7.378	8.078
168.5	0.000	0.000	3.997	6.884	7.619
169.0	0.000	0.000	3.635	6.438	7.137
169.5	0.000	0.000	0.000	6.016	6.649
170.0	0.000	0.000	0.000	5.552	6.215
170.5	0.000	0.000	0.000	5.076	5.660
171.0	0.000	0.000	0.000	4.599	5.190
171.5	0.000	0.000	0.000	4.183	4.708
172.0	0.000	0.000	0.000	3.719	4.250
172.5	0.000	0.000	0.000	0.000	3.804
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	527.48	N.A.	12.90
0-30	1109.52	N.A.	27.20
0-40	1786.88	N.A.	43.70
0-60	3013.05	N.A.	73.70
0-80	3690.61	N.A.	90.30
0-90	3817.26	N.A.	93.40
10-90	3680.19	N.A.	90.10
20-40	1259.39	N.A.	30.80
20-50	1922.83	N.A.	47.10
40-70	1642.81	N.A.	40.20
60-80	677.56	N.A.	16.60
70-80	260.92	N.A.	6.40
80-90	126.65	N.A.	3.10
90-110	132.93	N.A.	3.30
90-120	184.51	N.A.	4.50
90-130	222.30	N.A.	5.40
90-150	260.75	N.A.	6.40
90-180	268.70	N.A.	6.60
110-180	135.77	N.A.	3.30
0-180	4085.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	137.06
10-20	390.42
20-30	582.03
30-40	677.36
40-50	663.44
50-60	562.73
60-70	416.64
70-80	260.92
80-90	126.65
90-100	70.28
100-110	62.65
110-120	51.58
120-130	37.79
130-140	24.64
140-150	13.80
150-160	6.20
160-170	1.68
170-180	0.07

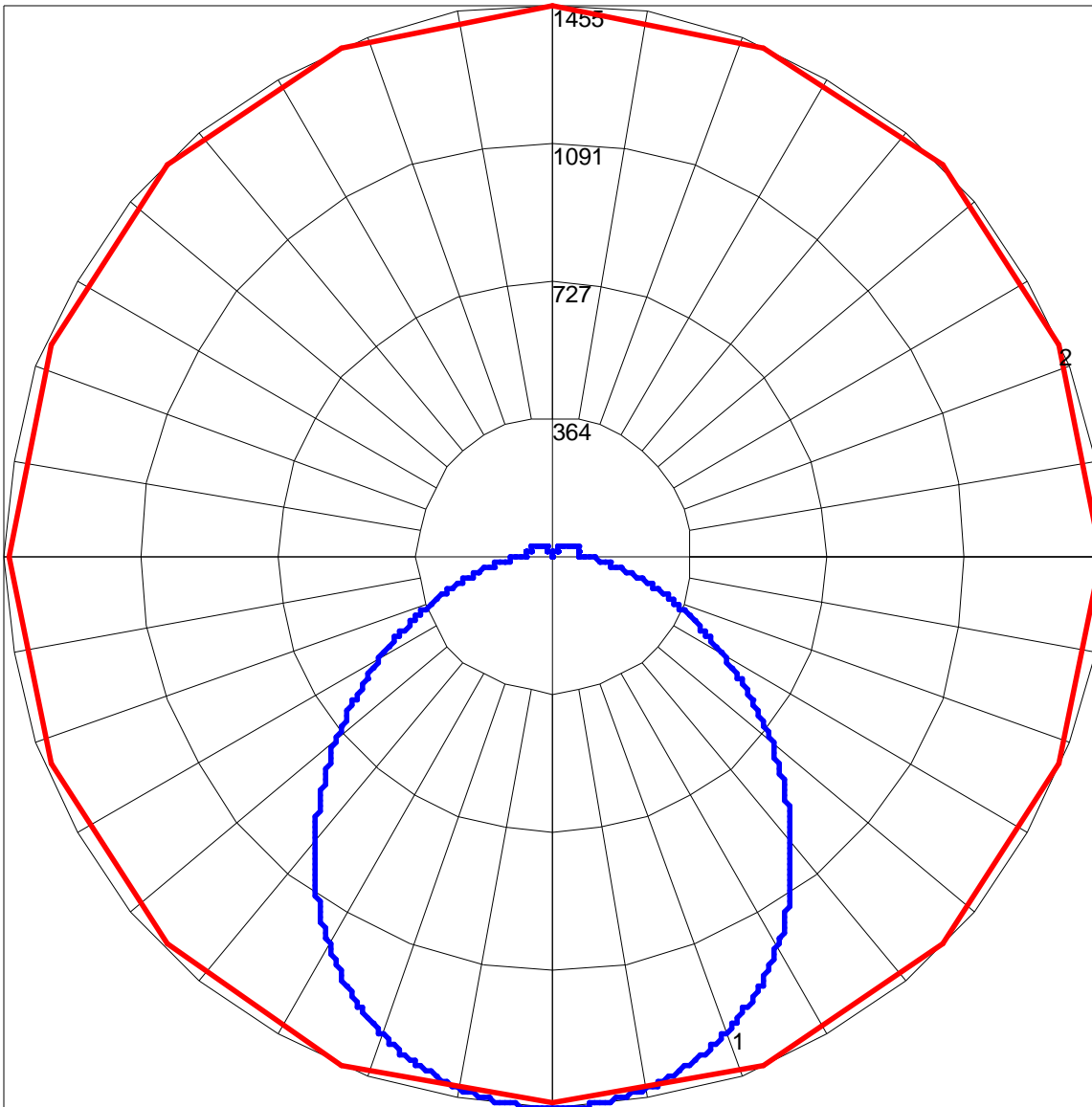
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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 = 1454.87 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.)