



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 44-48LED30DMVFR30.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] 44-48LED30DMVFR30
 [LUMINAIRE] Catalog Number: 44-48LED30DMVFR30
 [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 M10CC830D32N2S 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	3777
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
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	7924	6962	6590
55	6898	5886	5647
65	5749	4823	4878
75	4510	3866	4189
85	3146	3080	3590

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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	1340.445	1340.445	1340.445	1340.445	1340.445
0.5	1334.433	1336.333	1344.813	1344.356	1337.559
1.0	1334.193	1336.132	1344.630	1344.100	1337.442
1.5	1333.987	1335.831	1344.234	1343.783	1337.213
2.0	1333.580	1335.436	1343.794	1343.259	1336.767
2.5	1332.900	1334.845	1343.237	1342.679	1336.260
3.0	1332.187	1334.093	1342.462	1341.994	1335.547
3.5	1331.340	1333.240	1341.609	1341.197	1334.700
4.0	1330.287	1332.237	1340.668	1340.200	1333.814
4.5	1329.167	1331.207	1339.520	1339.052	1332.767
5.0	1327.891	1329.897	1338.227	1337.809	1331.569
5.5	1326.537	1328.493	1336.790	1336.461	1330.243
6.0	1324.949	1327.022	1335.302	1334.918	1328.755
6.5	1323.361	1325.395	1333.586	1333.251	1327.239
7.0	1321.511	1323.645	1331.786	1331.446	1325.412
7.5	1319.522	1321.768	1329.903	1329.474	1323.523
8.0	1317.594	1319.689	1327.796	1327.323	1321.372
8.5	1315.332	1317.499	1325.529	1325.038	1319.115
9.0	1313.070	1315.254	1323.172	1322.687	1316.898
9.5	1310.640	1312.797	1320.698	1320.213	1314.390
10.0	1308.111	1310.189	1318.040	1317.460	1311.783
10.5	1305.352	1307.498	1315.298	1314.574	1308.974
11.0	1302.633	1304.712	1312.390	1311.705	1306.027
11.5	1299.541	1301.703	1309.275	1308.523	1302.895
12.0	1296.521	1298.594	1306.105	1305.185	1299.669
12.5	1293.300	1295.406	1302.828	1301.831	1296.348
13.0	1289.857	1291.996	1299.312	1298.270	1292.843
13.5	1286.408	1288.508	1295.796	1294.576	1289.216
14.0	1282.764	1284.864	1291.952	1290.670	1285.288
14.5	1279.008	1281.014	1288.063	1286.553	1281.209
15.0	1275.063	1277.231	1284.106	1282.407	1277.164
15.5	1271.079	1273.208	1279.972	1278.122	1272.940
16.0	1266.828	1269.023	1275.537	1273.497	1268.505
16.5	1262.504	1264.632	1271.107	1269.006	1263.914
17.0	1258.074	1260.186	1266.477	1264.203	1259.032
17.5	1253.527	1255.583	1261.807	1259.278	1254.285
18.0	1248.819	1250.853	1256.831	1254.202	1249.248
18.5	1243.955	1245.994	1251.806	1249.003	1244.083
19.0	1238.879	1240.996	1246.551	1243.570	1238.656
19.5	1233.869	1235.836	1241.208	1238.149	1233.201
20.0	1228.693	1230.571	1235.825	1232.393	1227.573
20.5	1223.338	1225.082	1230.114	1226.509	1221.717
21.0	1217.710	1219.494	1224.397	1220.608	1215.833
21.5	1212.200	1213.838	1218.518	1214.551	1209.910
22.0	1206.316	1207.893	1212.400	1208.233	1203.480
22.5	1200.465	1201.858	1206.238	1201.791	1197.055
23.0	1194.319	1195.768	1199.953	1195.294	1190.553
23.5	1188.040	1189.427	1193.483	1188.424	1183.911
24.0	1181.849	1183.036	1186.853	1181.693	1177.118
24.5	1175.352	1176.450	1180.122	1174.678	1170.120
25.0	1168.677	1169.685	1173.107	1167.440	1162.960
25.5	1162.013	1162.882	1166.119	1160.174	1155.722
26.0	1155.154	1155.856	1158.970	1152.830	1148.400
26.5	1147.921	1148.618	1151.615	1145.180	1140.839

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CANDELA TABULATION - (Cont.)

27.0	1140.795	1141.380	1144.093	1137.440	1133.144
27.5	1133.484	1133.980	1136.560	1129.639	1125.316
28.0	1125.834	1126.324	1128.748	1121.627	1117.359
28.5	1118.384	1118.657	1120.880	1113.486	1109.341
29.0	1110.578	1110.784	1112.946	1105.223	1101.167
29.5	1102.610	1102.693	1104.733	1096.865	1092.719
30.0	1094.692	1094.686	1096.508	1088.407	1084.322
30.5	1086.562	1086.451	1088.083	1079.714	1075.792
31.0	1078.082	1077.937	1079.475	1070.860	1066.982
31.5	1069.668	1069.428	1070.849	1062.046	1058.179
32.0	1061.132	1060.764	1062.135	1053.086	1049.286
32.5	1052.289	1051.927	1053.125	1043.925	1040.148
33.0	1043.474	1043.006	1044.148	1034.765	1030.998
33.5	1034.486	1034.052	1035.027	1025.454	1021.727
34.0	1025.265	1024.719	1025.716	1015.915	1012.382
34.5	1016.043	1015.458	1016.428	1006.487	1002.921
35.0	1006.654	1006.064	1007.000	996.887	993.382
35.5	996.970	996.396	997.304	987.058	983.564
36.0	987.264	986.690	987.615	977.195	973.857
36.5	977.619	977.067	977.992	967.405	964.184
37.0	967.505	967.054	968.040	957.275	954.121
37.5	957.576	957.069	958.089	947.262	944.315
38.0	947.396	947.023	948.087	937.144	934.313
38.5	937.077	936.726	937.890	926.796	924.127
39.0	926.713	926.490	927.783	916.633	914.042
39.5	916.187	916.132	917.519	906.330	903.806
40.0	905.361	905.612	906.966	895.727	893.465
40.5	894.774	895.159	896.641	885.480	883.279
41.0	883.987	884.616	886.271	875.038	873.027
41.5	872.865	873.896	875.595	864.468	862.568
42.0	861.994	863.242	865.086	853.937	852.299
42.5	851.073	852.522	854.477	843.434	841.946
43.0	839.840	841.578	843.584	832.808	831.443
43.5	828.757	830.769	832.997	822.204	821.218
44.0	817.546	819.914	822.137	811.629	810.837
44.5	806.168	808.837	811.155	800.852	800.156
45.0	794.946	797.883	800.401	790.349	789.887
45.5	783.746	786.895	789.608	779.818	779.651
46.0	772.129	775.695	778.592	769.137	769.148
46.5	760.740	764.657	767.744	758.617	758.867
47.0	749.378	753.613	756.789	748.119	748.660
47.5	737.828	742.307	745.807	737.477	738.374
48.0	726.338	731.280	734.880	727.012	728.132
48.5	714.943	720.164	723.875	716.559	717.969
49.0	703.315	708.931	712.837	706.017	707.700
49.5	691.864	697.876	701.938	695.748	697.765
50.0	680.469	686.749	691.062	685.462	687.875
50.5	668.718	675.471	680.035	674.998	677.750
51.0	657.379	664.472	669.186	664.857	668.005
51.5	646.029	653.406	658.371	654.755	658.204
52.0	634.439	642.268	647.439	644.614	648.341
52.5	623.089	631.179	636.651	634.578	638.713
53.0	611.694	620.180	625.892	624.565	629.107
53.5	600.149	609.120	614.998	614.569	619.512
54.0	588.933	598.199	604.423	604.824	610.123
54.5	577.633	587.272	593.791	595.106	600.762

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55.0	566.193	576.195	583.060	585.305	591.368
55.5	555.077	565.469	572.640	575.749	582.229
56.0	543.972	554.726	562.198	566.327	573.192
56.5	532.733	543.810	551.639	556.799	564.009
57.0	521.606	533.135	541.331	547.455	555.133
57.5	510.568	522.447	531.067	538.194	546.190
58.0	499.441	511.682	520.742	528.928	537.302
58.5	488.531	501.185	510.713	519.851	528.660
59.0	477.654	490.681	500.650	510.847	519.990
59.5	466.800	480.084	490.581	501.887	511.331
60.0	456.096	469.803	480.713	493.089	502.867
60.5	445.493	459.495	470.957	484.346	494.521
61.0	434.649	449.075	461.044	475.498	485.979
61.5	424.146	438.890	451.455	466.961	477.732
62.0	413.810	428.743	441.871	458.442	469.519
62.5	403.229	418.563	432.359	449.961	461.278
63.0	393.015	408.656	423.010	441.598	453.199
63.5	382.813	398.727	413.754	433.312	445.153
64.0	372.538	388.786	404.438	425.032	437.051
64.5	362.592	379.074	395.439	416.914	429.256
65.0	352.641	369.340	386.440	408.823	421.383
65.5	342.667	359.511	377.470	400.722	413.398
66.0	332.938	350.011	368.660	392.837	405.708
66.5	323.282	340.605	360.013	384.997	398.019
67.0	313.570	331.072	351.342	377.107	390.229
67.5	304.109	321.867	342.817	369.379	382.657
68.0	294.709	312.645	334.409	361.757	375.124
68.5	285.331	303.401	326.007	354.106	367.579
69.0	276.226	294.463	317.866	346.567	360.118
69.5	267.150	285.498	309.786	339.134	352.674
70.0	257.989	276.600	301.679	331.595	345.169
70.5	249.130	267.879	293.784	324.290	337.903
71.0	240.488	259.354	286.033	317.030	330.564
71.5	231.689	250.762	278.216	309.708	323.360
72.0	223.192	242.421	270.632	302.576	316.144
72.5	214.867	234.202	263.166	295.517	309.051
73.0	206.504	226.179	255.694	288.396	301.930
73.5	198.436	218.110	248.433	281.486	294.904
74.0	190.317	210.204	241.178	274.499	287.877
74.5	182.433	202.420	234.069	267.651	280.924
75.0	174.710	194.903	227.131	260.909	274.120
75.5	167.132	187.442	220.261	254.262	267.328
76.0	159.554	180.031	213.430	247.536	260.513
76.5	152.194	172.866	206.782	241.045	253.933
77.0	145.061	165.851	200.274	234.626	247.319
77.5	137.896	158.902	193.772	228.173	240.761
78.0	130.981	152.110	187.414	221.832	234.314
78.5	124.088	145.457	181.190	215.664	227.889
79.0	117.341	138.860	174.966	209.424	221.571
79.5	110.894	132.552	169.015	203.372	215.347
80.0	104.442	126.301	163.092	197.405	209.262
80.5	98.056	120.166	157.242	191.404	203.122
81.0	91.988	114.181	151.609	185.659	197.232
81.5	85.982	108.359	146.020	179.964	191.326
82.0	80.031	102.575	140.498	174.253	185.492
82.5	74.258	96.975	135.121	168.715	179.758

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83.0	68.653	91.526	129.878	163.237	174.170
83.5	63.103	86.115	124.607	157.838	168.603
84.0	57.648	80.889	119.592	152.556	163.221
84.5	52.355	75.757	114.577	147.396	157.883
85.0	47.056	70.653	109.635	142.209	152.539
85.5	42.052	65.777	104.820	137.244	147.452
86.0	36.976	60.919	100.101	132.257	142.337
86.5	31.967	56.082	95.337	127.320	137.250
87.0	27.080	51.363	90.701	122.517	132.441
87.5	22.199	46.716	86.227	117.970	127.850
88.0	17.379	42.046	81.752	113.791	123.632
88.5	12.576	37.488	77.690	110.270	120.077
89.0	7.767	33.148	74.447	107.205	117.034
89.5	0.000	29.587	71.868	104.520	114.271
90.0	0.000	27.492	69.767	102.168	111.819
90.5	0.000	26.378	68.185	100.251	109.780
91.0	0.000	26.244	67.260	98.797	108.231
91.5	0.000	26.239	66.942	97.967	107.200
92.0	0.000	26.144	66.758	97.432	106.470
92.5	0.000	26.032	66.535	96.942	105.790
93.0	0.000	26.027	66.312	96.462	105.222
93.5	0.000	25.960	66.117	96.028	104.664
94.0	0.000	25.893	65.889	95.565	104.135
94.5	0.000	25.810	65.733	95.142	103.634
95.0	0.000	25.743	65.465	94.718	103.082
95.5	0.000	25.648	65.315	94.295	102.575
96.0	0.000	25.620	65.081	93.899	102.135
96.5	0.000	25.525	64.841	93.470	101.667
97.0	0.000	25.464	64.624	93.181	101.271
97.5	0.000	25.364	64.407	92.768	100.848
98.0	0.000	25.252	64.195	92.406	100.435
98.5	0.000	25.213	63.916	91.999	100.001
99.0	0.000	25.135	63.721	91.643	99.639
99.5	0.000	25.096	63.421	91.325	99.248
100.0	0.000	25.035	63.175	90.918	98.858
100.5	0.000	24.946	62.947	90.595	98.491
101.0	0.000	24.812	62.691	90.244	98.095
101.5	0.000	24.762	62.434	89.876	97.744
102.0	0.000	24.673	62.161	89.503	97.382
102.5	0.000	24.567	61.899	89.158	97.059
103.0	0.000	24.522	61.632	88.745	96.663
103.5	0.000	24.450	61.320	88.377	96.267
104.0	0.000	24.322	61.058	87.987	95.894
104.5	0.000	24.216	60.740	87.581	95.471
105.0	0.000	24.127	60.478	87.146	95.120
105.5	0.000	24.021	60.139	86.762	94.707
106.0	0.000	23.909	59.788	86.305	94.228
106.5	0.000	23.815	59.515	85.931	93.844
107.0	0.000	23.714	59.158	85.408	93.392
107.5	0.000	23.614	58.824	84.917	92.874
108.0	0.000	23.480	58.495	84.494	92.389
108.5	0.000	23.386	58.122	83.976	91.899
109.0	0.000	23.263	57.737	83.474	91.437
109.5	0.000	23.113	57.341	82.928	90.890
110.0	0.000	22.945	56.979	82.376	90.305
110.5	0.000	22.823	56.578	81.858	89.759

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CANDELA TABULATION - (Cont.)

111.0	0.000	22.684	56.177	81.312	89.124
111.5	0.000	22.550	55.843	80.761	88.589
112.0	0.000	22.327	55.347	80.131	87.965
112.5	0.000	22.154	54.957	79.540	87.358
113.0	0.000	22.021	54.494	78.933	86.700
113.5	0.000	21.881	54.082	78.320	86.021
114.0	0.000	21.697	53.603	77.702	85.346
114.5	0.000	21.541	53.123	77.022	84.678
115.0	0.000	21.318	52.689	76.381	83.992
115.5	0.000	21.123	52.215	75.690	83.296
116.0	0.000	21.012	51.714	75.021	82.560
116.5	0.000	20.811	51.229	74.286	81.836
117.0	0.000	20.616	50.739	73.584	81.067
117.5	0.000	20.405	50.271	72.926	80.326
118.0	0.000	20.243	49.730	72.213	79.512
118.5	0.000	20.031	49.167	71.511	78.738
119.0	0.000	19.808	48.683	70.776	77.869
119.5	0.000	19.647	48.192	70.046	77.083
120.0	0.000	19.435	47.635	69.271	76.242
120.5	0.000	19.296	47.134	68.530	75.434
121.0	0.000	19.118	46.621	67.756	74.526
121.5	0.000	18.939	46.164	66.920	73.706
122.0	0.000	18.750	45.651	66.168	72.837
122.5	0.000	18.566	45.072	65.332	71.996
123.0	0.000	18.388	44.537	64.574	71.121
123.5	0.000	18.215	43.991	63.777	70.263
124.0	0.000	18.053	43.445	62.986	69.416
124.5	0.000	17.892	42.916	62.195	68.513
125.0	0.000	17.725	42.364	61.426	67.655
125.5	0.000	17.535	41.857	60.640	66.758
126.0	0.000	17.413	41.305	59.838	65.900
126.5	0.000	17.262	40.793	59.058	65.048
127.0	0.000	17.034	40.252	58.233	64.123
127.5	0.000	16.917	39.706	57.458	63.281
128.0	0.000	16.722	39.199	56.656	62.406
128.5	0.000	16.538	38.670	55.882	61.532
129.0	0.000	16.382	38.151	55.074	60.640
129.5	0.000	16.226	37.639	54.349	59.765
130.0	0.000	16.053	37.059	53.536	58.840
130.5	0.000	15.841	36.591	52.778	57.988
131.0	0.000	15.663	36.034	51.970	57.113
131.5	0.000	15.512	35.510	51.212	56.311
132.0	0.000	15.345	35.026	50.427	55.397
132.5	0.000	15.139	34.485	49.663	54.533
133.0	0.000	14.966	33.972	48.894	53.720
133.5	0.000	14.749	33.482	48.070	52.862
134.0	0.000	14.593	32.958	47.351	51.964
134.5	0.000	14.404	32.440	46.543	51.067
135.0	0.000	14.220	31.961	45.780	50.209
135.5	0.000	13.980	31.421	45.038	49.368
136.0	0.000	13.858	30.886	44.281	48.493
136.5	0.000	13.674	30.401	43.523	47.685
137.0	0.000	13.445	29.866	42.732	46.816
137.5	0.000	13.234	29.376	41.991	45.975
138.0	0.000	13.022	28.885	41.194	45.116
138.5	0.000	12.832	28.373	40.481	44.342

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CANDELA TABULATION - (Cont.)

139.0	0.000	12.604	27.854	39.717	43.434
139.5	0.000	12.403	27.409	38.993	42.665
140.0	0.000	12.197	26.863	38.280	41.835
140.5	0.000	11.985	26.406	37.550	41.015
141.0	0.000	11.729	25.915	36.786	40.230
141.5	0.000	11.556	25.436	36.107	39.455
142.0	0.000	11.328	24.940	35.393	38.664
142.5	0.000	11.088	24.428	34.691	37.906
143.0	0.000	10.838	23.982	34.017	37.098
143.5	0.000	10.570	23.492	33.304	36.324
144.0	0.000	10.386	23.012	32.635	35.611
144.5	0.000	10.141	22.567	31.967	34.853
145.0	0.000	9.901	22.104	31.253	34.123
145.5	0.000	9.645	21.675	30.607	33.343
146.0	0.000	9.422	21.213	29.944	32.663
146.5	0.000	9.205	20.722	29.298	31.905
147.0	0.000	8.932	20.293	28.640	31.198
147.5	0.000	8.709	19.831	27.955	30.473
148.0	0.000	8.497	19.396	27.325	29.793
148.5	0.000	8.219	18.978	26.701	29.125
149.0	0.000	8.018	18.516	26.094	28.417
149.5	0.000	7.801	18.070	25.481	27.676
150.0	0.000	7.539	17.641	24.857	26.996
150.5	0.000	7.305	17.201	24.266	26.356
151.0	0.000	7.099	16.827	23.614	25.698
151.5	0.000	6.870	16.382	23.035	25.074
152.0	0.000	6.642	15.964	22.444	24.439
152.5	0.000	6.452	15.557	21.876	23.753
153.0	0.000	6.246	15.167	21.268	23.135
153.5	0.000	6.073	14.738	20.728	22.594
154.0	0.000	5.823	14.326	20.171	21.904
154.5	0.000	5.611	13.913	19.591	21.341
155.0	0.000	5.444	13.495	19.079	20.711
155.5	0.000	5.204	13.122	18.505	20.126
156.0	0.000	5.032	12.710	17.992	19.541
156.5	0.000	4.836	12.314	17.457	18.967
157.0	0.000	4.664	11.863	16.944	18.432
157.5	0.000	4.469	11.467	16.471	17.886
158.0	0.000	4.346	11.066	15.964	17.351
158.5	0.000	4.112	10.620	15.490	16.822
159.0	0.000	3.973	10.219	15.000	16.281
159.5	0.000	3.828	9.851	14.560	15.763
160.0	0.000	3.616	9.450	14.030	15.251
160.5	0.000	3.460	9.071	13.557	14.755
161.0	0.000	0.000	8.692	13.089	14.231
161.5	0.000	0.000	8.291	12.598	13.718
162.0	0.000	0.000	7.985	12.158	13.239
162.5	0.000	0.000	7.606	11.712	12.721
163.0	0.000	0.000	7.271	11.244	12.203
163.5	0.000	0.000	6.926	10.787	11.729
164.0	0.000	0.000	6.519	10.364	11.272
164.5	0.000	0.000	6.246	9.907	10.787
165.0	0.000	0.000	5.873	9.478	10.314
165.5	0.000	0.000	5.544	9.055	9.812
166.0	0.000	0.000	5.204	8.575	9.316
166.5	0.000	0.000	4.937	8.113	8.898

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CANDELA TABULATION - (Cont.)

167.0	0.000	0.000	4.586	7.706	8.391
167.5	0.000	0.000	4.263	7.255	7.974
168.0	0.000	0.000	3.962	6.820	7.466
168.5	0.000	0.000	3.694	6.363	7.043
169.0	0.000	0.000	3.360	5.951	6.597
169.5	0.000	0.000	0.000	5.561	6.146
170.0	0.000	0.000	0.000	5.132	5.745
170.5	0.000	0.000	0.000	4.692	5.232
171.0	0.000	0.000	0.000	4.251	4.797
171.5	0.000	0.000	0.000	3.867	4.352
172.0	0.000	0.000	0.000	3.438	3.928
172.5	0.000	0.000	0.000	0.000	3.516
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	487.58	N.A.	12.90
0-30	1025.58	N.A.	27.20
0-40	1651.71	N.A.	43.70
0-60	2785.12	N.A.	73.70
0-80	3411.42	N.A.	90.30
0-90	3528.49	N.A.	93.40
10-90	3401.8	N.A.	90.10
20-40	1164.13	N.A.	30.80
20-50	1777.37	N.A.	47.10
40-70	1518.53	N.A.	40.20
60-80	626.30	N.A.	16.60
70-80	241.18	N.A.	6.40
80-90	117.07	N.A.	3.10
90-110	122.87	N.A.	3.30
90-120	170.55	N.A.	4.50
90-130	205.49	N.A.	5.40
90-150	241.02	N.A.	6.40
90-180	248.37	N.A.	6.60
110-180	125.50	N.A.	3.30
0-180	3776.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	126.70
10-20	360.88
20-30	538.00
30-40	626.12
40-50	613.25
50-60	520.17
60-70	385.12
70-80	241.18
80-90	117.07
90-100	64.96
100-110	57.91
110-120	47.68
120-130	34.93
130-140	22.78
140-150	12.76
150-160	5.73
160-170	1.55
170-180	0.07

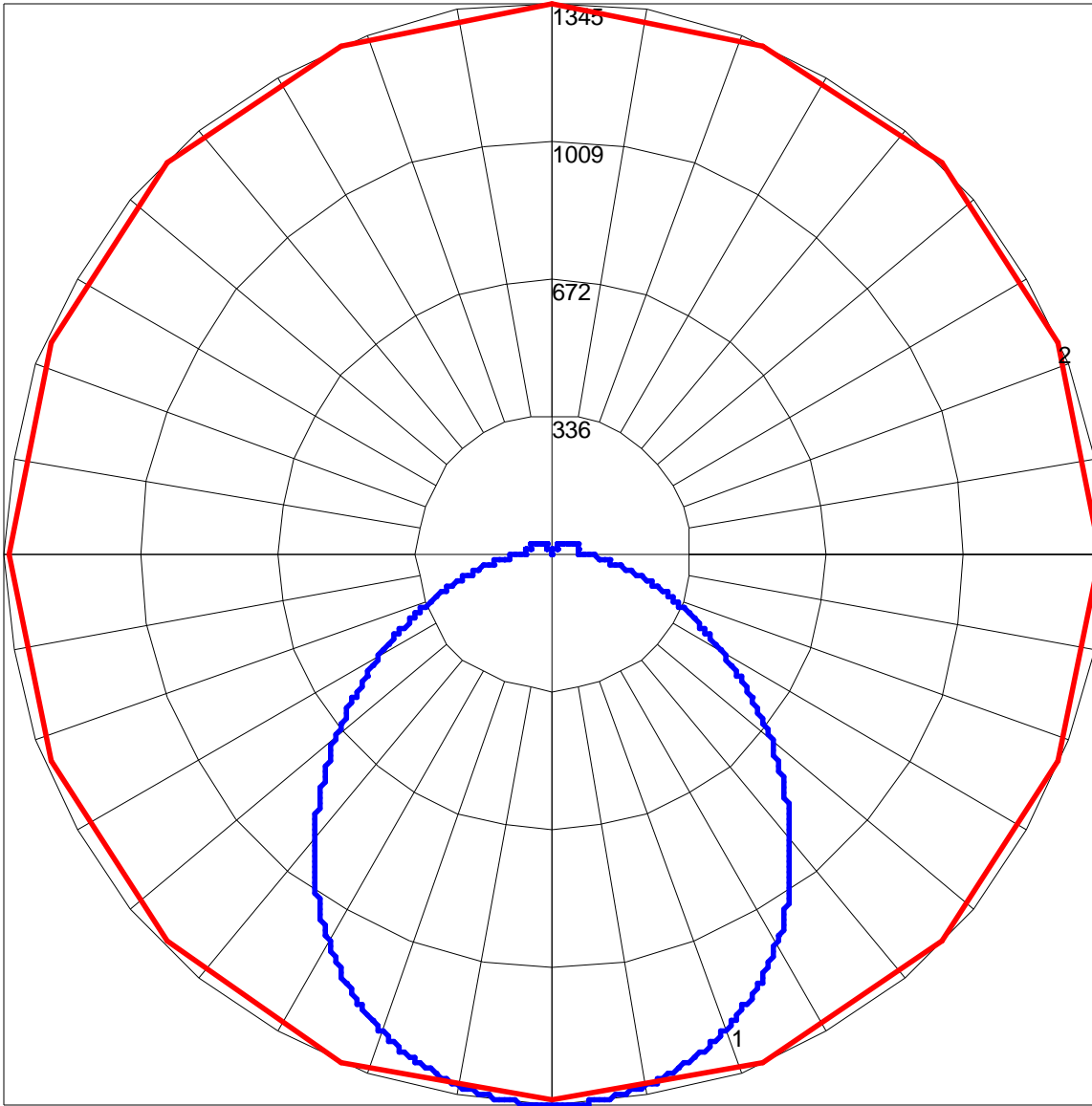
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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 = 1344.813 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.)