



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 44-48LED30DMVFR40.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] 44-48LED30DMVFR40

[LUMINAIRE] Catalog Number: 44-48LED30DMVFR40

[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 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	3967
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
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	8324	7313	6922
55	7246	6183	5932
65	6039	5067	5124
75	4738	4061	4401
85	3305	3235	3771

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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	1408.045	1408.045	1408.045	1408.045	1408.045
0.5	1401.729	1403.725	1412.633	1412.153	1405.013
1.0	1401.478	1403.514	1412.440	1411.884	1404.890
1.5	1401.261	1403.198	1412.025	1411.551	1404.650
2.0	1400.834	1402.783	1411.562	1411.000	1404.182
2.5	1400.120	1402.162	1410.977	1410.392	1403.649
3.0	1399.370	1401.372	1410.163	1409.672	1402.900
3.5	1398.481	1400.477	1409.268	1408.835	1402.010
4.0	1397.375	1399.423	1408.279	1407.787	1401.080
4.5	1396.198	1398.340	1407.073	1406.581	1399.979
5.0	1394.858	1396.965	1405.715	1405.276	1398.721
5.5	1393.435	1395.490	1404.205	1403.860	1397.328
6.0	1391.767	1393.945	1402.642	1402.238	1395.765
6.5	1390.099	1392.236	1400.840	1400.488	1394.173
7.0	1388.156	1390.398	1398.949	1398.592	1392.253
7.5	1386.067	1388.425	1396.971	1396.520	1390.269
8.0	1384.041	1386.242	1394.758	1394.261	1388.010
8.5	1381.665	1383.942	1392.376	1391.861	1385.639
9.0	1379.289	1381.583	1389.900	1389.391	1383.310
9.5	1376.737	1379.002	1387.302	1386.792	1380.676
10.0	1374.080	1376.263	1384.510	1383.901	1377.937
10.5	1371.182	1373.436	1381.630	1380.869	1374.987
11.0	1368.326	1370.509	1378.575	1377.855	1371.891
11.5	1365.078	1367.349	1375.303	1374.513	1368.601
12.0	1361.905	1364.083	1371.973	1371.007	1365.212
12.5	1358.522	1360.735	1368.531	1367.483	1361.724
13.0	1354.905	1357.153	1364.838	1363.743	1358.042
13.5	1351.282	1353.489	1361.144	1359.863	1354.232
14.0	1347.454	1349.661	1357.106	1355.760	1350.106
14.5	1343.509	1345.616	1353.021	1351.434	1345.821
15.0	1339.365	1341.642	1348.865	1347.080	1341.572
15.5	1335.181	1337.416	1344.522	1342.579	1337.135
16.0	1330.715	1333.021	1339.863	1337.721	1332.476
16.5	1326.173	1328.409	1335.210	1333.003	1327.654
17.0	1321.520	1323.738	1330.346	1327.958	1322.526
17.5	1316.744	1318.903	1325.441	1322.784	1317.540
18.0	1311.798	1313.934	1320.214	1317.452	1312.249
18.5	1306.688	1308.830	1314.935	1311.991	1306.823
19.0	1301.356	1303.580	1309.416	1306.284	1301.122
19.5	1296.094	1298.160	1303.803	1300.589	1295.392
20.0	1290.657	1292.629	1298.149	1294.543	1289.480
20.5	1285.032	1286.864	1292.149	1288.362	1283.329
21.0	1279.121	1280.993	1286.144	1282.164	1277.148
21.5	1273.332	1275.053	1279.969	1275.802	1270.926
22.0	1267.151	1268.808	1273.543	1269.165	1264.172
22.5	1261.005	1262.469	1267.069	1262.399	1257.423
23.0	1254.550	1256.071	1260.467	1255.574	1250.593
23.5	1247.953	1249.411	1253.672	1248.357	1243.616
24.0	1241.451	1242.697	1246.707	1241.287	1236.481
24.5	1234.626	1235.779	1239.636	1233.918	1229.130
25.0	1227.614	1228.674	1232.267	1226.315	1221.609
25.5	1220.614	1221.527	1224.928	1218.682	1214.006
26.0	1213.409	1214.146	1217.418	1210.968	1206.315
26.5	1205.812	1206.543	1209.692	1202.932	1198.373

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**CANDELA TABULATION - (Cont.)**

27.0	1198.326	1198.940	1201.791	1194.802	1190.290
27.5	1190.647	1191.167	1193.877	1186.608	1182.066
28.0	1182.610	1183.125	1185.672	1178.191	1173.708
28.5	1174.785	1175.072	1177.407	1169.640	1165.286
29.0	1166.585	1166.801	1169.072	1160.960	1156.699
29.5	1158.215	1158.303	1160.445	1152.181	1147.826
30.0	1149.898	1149.892	1151.806	1143.296	1139.006
30.5	1141.358	1141.241	1142.956	1134.165	1130.045
31.0	1132.450	1132.298	1133.913	1124.865	1120.791
31.5	1123.612	1123.360	1124.853	1115.605	1111.543
32.0	1114.645	1114.259	1115.699	1106.194	1102.202
32.5	1105.357	1104.976	1106.235	1096.571	1092.603
33.0	1096.097	1095.606	1096.805	1086.949	1082.992
33.5	1086.656	1086.200	1087.224	1077.169	1073.253
34.0	1076.970	1076.396	1077.444	1067.148	1063.437
34.5	1067.283	1066.668	1067.687	1057.245	1053.499
35.0	1057.421	1056.800	1057.783	1047.160	1043.479
35.5	1047.248	1046.645	1047.599	1036.836	1033.166
36.0	1037.052	1036.449	1037.421	1026.476	1022.970
36.5	1026.921	1026.341	1027.313	1016.192	1012.809
37.0	1016.297	1015.823	1016.859	1005.551	1002.239
37.5	1005.867	1005.335	1006.406	995.033	991.937
38.0	995.174	994.782	995.900	984.404	981.431
38.5	984.334	983.965	985.189	973.535	970.732
39.0	973.448	973.213	974.571	962.860	960.138
39.5	962.391	962.333	963.790	952.037	949.386
40.0	951.019	951.282	952.705	940.899	938.523
40.5	939.898	940.302	941.859	930.135	927.823
41.0	928.567	929.228	930.967	919.167	917.054
41.5	916.884	917.967	919.752	908.064	906.068
42.0	905.465	906.776	908.713	897.002	895.281
42.5	893.993	895.515	897.569	885.969	884.406
43.0	882.193	884.020	886.127	874.807	873.373
43.5	870.552	872.665	875.006	863.669	862.633
44.0	858.776	861.263	863.598	852.560	851.729
44.5	846.824	849.627	852.062	841.240	840.508
45.0	835.036	838.120	840.766	830.207	829.721
45.5	823.271	826.578	829.429	819.145	818.969
46.0	811.068	814.814	817.857	807.925	807.936
46.5	799.104	803.219	806.461	796.874	797.138
47.0	787.170	791.618	794.954	785.847	786.415
47.5	775.037	779.743	783.418	774.668	775.610
48.0	762.968	768.159	771.941	763.676	764.853
48.5	750.998	756.483	760.381	752.696	754.177
49.0	738.783	744.683	748.786	741.622	743.390
49.5	726.755	733.071	737.338	730.835	732.954
50.0	714.786	721.382	725.913	720.030	722.565
50.5	702.442	709.536	714.329	709.038	711.930
51.0	690.531	697.982	702.934	698.386	701.693
51.5	678.609	686.358	691.573	687.774	691.397
52.0	666.434	674.658	680.089	677.122	681.038
52.5	654.512	663.010	668.758	666.581	670.924
53.0	642.542	651.456	657.456	656.063	660.833
53.5	630.415	639.838	646.013	645.563	650.754
54.0	618.633	628.366	634.904	635.326	640.892
54.5	606.763	616.889	623.737	625.118	631.059

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**CANDELA TABULATION - (Cont.)**

55.0	594.747	605.253	612.464	614.823	621.191
55.5	583.070	593.986	601.519	604.785	611.592
56.0	571.405	582.701	590.550	594.887	602.098
56.5	559.600	571.235	579.459	584.879	592.452
57.0	547.911	560.021	568.631	575.063	583.129
57.5	536.316	548.795	557.849	565.335	573.734
58.0	524.628	537.487	547.004	555.602	564.399
58.5	513.168	526.460	536.468	546.067	555.321
59.0	501.743	515.427	525.898	536.609	546.214
59.5	490.341	504.295	515.322	527.197	537.118
60.0	479.097	493.496	504.956	517.955	528.227
60.5	467.959	482.668	494.707	508.772	519.460
61.0	456.569	471.723	484.295	499.477	510.487
61.5	445.536	461.023	474.222	490.511	501.825
62.0	434.679	450.365	464.155	481.561	493.197
62.5	423.564	439.672	454.164	472.653	484.541
63.0	412.836	429.265	444.342	463.868	476.054
63.5	402.119	418.835	434.620	455.164	467.602
64.0	391.326	408.393	424.834	446.467	459.092
64.5	380.878	398.191	415.382	437.939	450.903
65.0	370.425	387.966	405.929	429.440	442.633
65.5	359.948	377.641	396.506	420.930	434.246
66.0	349.728	367.662	387.252	412.648	426.169
66.5	339.585	357.782	378.168	404.413	418.092
67.0	329.383	347.768	369.061	396.125	409.909
67.5	319.445	338.099	360.106	388.007	401.955
68.0	309.571	328.412	351.274	380.000	394.042
68.5	299.720	318.702	342.447	371.964	386.117
69.0	290.157	309.314	333.896	364.045	378.279
69.5	280.622	299.896	325.409	356.237	370.460
70.0	271.000	290.549	316.893	348.318	362.576
70.5	261.693	281.389	308.599	340.645	354.943
71.0	252.615	272.434	300.458	333.018	347.235
71.5	243.374	263.408	292.246	325.327	339.667
72.0	234.448	254.646	284.280	317.835	332.088
72.5	225.703	246.013	276.437	310.420	324.637
73.0	216.918	237.585	268.588	302.940	317.157
73.5	208.443	229.110	260.962	295.682	309.776
74.0	199.915	220.804	253.341	288.342	302.395
74.5	191.633	212.628	245.873	281.149	295.091
75.0	183.521	204.732	238.586	274.067	287.944
75.5	175.561	196.895	231.369	267.084	280.809
76.0	167.601	189.110	224.193	260.020	273.651
76.5	159.869	181.583	217.211	253.201	266.739
77.0	152.377	174.215	210.374	246.458	259.791
77.5	144.850	166.916	203.544	239.680	252.902
78.0	137.586	159.781	196.866	233.020	246.130
78.5	130.346	152.793	190.328	226.540	239.382
79.0	123.258	145.863	183.790	219.985	232.745
79.5	116.486	139.237	177.539	213.629	226.207
80.0	109.709	132.670	171.317	207.360	219.815
80.5	103.001	126.226	165.172	201.056	213.365
81.0	96.627	119.940	159.254	195.022	207.179
81.5	90.318	113.823	153.384	189.040	200.974
82.0	84.067	107.748	147.583	183.041	194.846
82.5	78.003	101.866	141.935	177.223	188.824

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**CANDELA TABULATION - (Cont.)**

83.0	72.115	96.141	136.428	171.469	182.953
83.5	66.285	90.458	130.891	165.798	177.106
84.0	60.555	84.968	125.623	160.249	171.452
84.5	54.995	79.577	120.355	154.829	165.845
85.0	49.429	74.216	115.164	149.380	160.232
85.5	44.173	69.095	110.107	144.165	154.888
86.0	38.841	63.991	105.149	138.927	149.515
86.5	33.579	58.910	100.145	133.741	144.171
87.0	28.446	53.953	95.275	128.696	139.120
87.5	23.318	49.072	90.575	123.920	134.297
88.0	18.256	44.167	85.875	119.530	129.866
88.5	13.210	39.379	81.608	115.831	126.132
89.0	8.159	34.819	78.202	112.612	122.936
89.5	0.000	31.079	75.492	109.791	120.033
90.0	0.000	28.879	73.285	107.321	117.458
90.5	0.000	27.708	71.623	105.307	115.316
91.0	0.000	27.568	70.652	103.780	113.689
91.5	0.000	27.562	70.318	102.907	112.606
92.0	0.000	27.462	70.125	102.346	111.839
92.5	0.000	27.345	69.891	101.830	111.125
93.0	0.000	27.339	69.657	101.327	110.528
93.5	0.000	27.269	69.452	100.871	109.943
94.0	0.000	27.199	69.212	100.385	109.387
94.5	0.000	27.111	69.048	99.940	108.860
95.0	0.000	27.041	68.767	99.495	108.281
95.5	0.000	26.941	68.609	99.050	107.748
96.0	0.000	26.912	68.363	98.635	107.285
96.5	0.000	26.813	68.111	98.184	106.794
97.0	0.000	26.748	67.883	97.880	106.378
97.5	0.000	26.643	67.655	97.447	105.933
98.0	0.000	26.526	67.432	97.066	105.500
98.5	0.000	26.485	67.140	96.639	105.044
99.0	0.000	26.403	66.935	96.264	104.663
99.5	0.000	26.362	66.619	95.931	104.254
100.0	0.000	26.298	66.361	95.503	103.844
100.5	0.000	26.204	66.121	95.164	103.458
101.0	0.000	26.063	65.852	94.795	103.042
101.5	0.000	26.011	65.583	94.409	102.673
102.0	0.000	25.917	65.296	94.017	102.293
102.5	0.000	25.806	65.021	93.654	101.953
103.0	0.000	25.759	64.740	93.221	101.538
103.5	0.000	25.683	64.412	92.834	101.122
104.0	0.000	25.548	64.137	92.425	100.730
104.5	0.000	25.437	63.804	91.997	100.285
105.0	0.000	25.343	63.528	91.541	99.917
105.5	0.000	25.232	63.171	91.137	99.483
106.0	0.000	25.115	62.803	90.657	98.980
106.5	0.000	25.016	62.516	90.265	98.576
107.0	0.000	24.910	62.141	89.715	98.102
107.5	0.000	24.805	61.790	89.200	97.558
108.0	0.000	24.665	61.445	88.755	97.049
108.5	0.000	24.565	61.053	88.211	96.534
109.0	0.000	24.436	60.649	87.684	96.048
109.5	0.000	24.278	60.233	87.110	95.474
110.0	0.000	24.103	59.853	86.531	94.860
110.5	0.000	23.974	59.431	85.986	94.286

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**CANDELA TABULATION - (Cont.)**

111.0	0.000	23.828	59.010	85.413	93.619
111.5	0.000	23.687	58.659	84.833	93.057
112.0	0.000	23.453	58.138	84.172	92.401
112.5	0.000	23.272	57.728	83.552	91.763
113.0	0.000	23.131	57.242	82.914	91.073
113.5	0.000	22.985	56.809	82.270	90.359
114.0	0.000	22.792	56.306	81.620	89.650
114.5	0.000	22.628	55.803	80.906	88.948
115.0	0.000	22.394	55.346	80.233	88.228
115.5	0.000	22.189	54.848	79.507	87.497
116.0	0.000	22.072	54.322	78.805	86.724
116.5	0.000	21.861	53.812	78.032	85.963
117.0	0.000	21.656	53.297	77.295	85.155
117.5	0.000	21.434	52.806	76.604	84.377
118.0	0.000	21.264	52.238	75.855	83.522
118.5	0.000	21.042	51.647	75.117	82.709
119.0	0.000	20.807	51.138	74.345	81.796
119.5	0.000	20.638	50.623	73.578	80.970
120.0	0.000	20.415	50.037	72.764	80.087
120.5	0.000	20.269	49.511	71.986	79.238
121.0	0.000	20.082	48.972	71.172	78.284
121.5	0.000	19.894	48.492	70.295	77.423
122.0	0.000	19.695	47.954	69.504	76.510
122.5	0.000	19.502	47.345	68.626	75.627
123.0	0.000	19.315	46.783	67.830	74.708
123.5	0.000	19.133	46.209	66.993	73.806
124.0	0.000	18.964	45.636	66.162	72.917
124.5	0.000	18.794	45.080	65.331	71.968
125.0	0.000	18.618	44.500	64.523	71.067
125.5	0.000	18.419	43.968	63.698	70.125
126.0	0.000	18.291	43.388	62.855	69.223
126.5	0.000	18.133	42.850	62.036	68.328
127.0	0.000	17.893	42.282	61.170	67.356
127.5	0.000	17.770	41.708	60.356	66.473
128.0	0.000	17.565	41.176	59.513	65.554
128.5	0.000	17.372	40.620	58.700	64.635
129.0	0.000	17.208	40.075	57.851	63.698
129.5	0.000	17.044	39.537	57.090	62.779
130.0	0.000	16.862	38.928	56.236	61.808
130.5	0.000	16.640	38.437	55.440	60.912
131.0	0.000	16.453	37.851	54.591	59.993
131.5	0.000	16.295	37.301	53.795	59.150
132.0	0.000	16.119	36.792	52.970	58.191
132.5	0.000	15.903	36.224	52.168	57.283
133.0	0.000	15.721	35.686	51.360	56.429
133.5	0.000	15.493	35.171	50.494	55.527
134.0	0.000	15.329	34.620	49.739	54.585
134.5	0.000	15.130	34.076	48.890	53.643
135.0	0.000	14.937	33.573	48.088	52.741
135.5	0.000	14.685	33.005	47.310	51.858
136.0	0.000	14.556	32.443	46.514	50.939
136.5	0.000	14.363	31.934	45.718	50.090
137.0	0.000	14.123	31.372	44.887	49.177
137.5	0.000	13.901	30.857	44.108	48.293
138.0	0.000	13.678	30.342	43.271	47.392
138.5	0.000	13.479	29.803	42.522	46.578

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

139.0	0.000	13.239	29.259	41.720	45.624
139.5	0.000	13.029	28.791	40.959	44.816
140.0	0.000	12.812	28.217	40.210	43.944
140.5	0.000	12.590	27.737	39.443	43.084
141.0	0.000	12.321	27.222	38.642	42.259
141.5	0.000	12.139	26.719	37.927	41.445
142.0	0.000	11.899	26.198	37.178	40.614
142.5	0.000	11.647	25.660	36.441	39.818
143.0	0.000	11.384	25.191	35.733	38.969
143.5	0.000	11.103	24.676	34.983	38.156
144.0	0.000	10.910	24.173	34.281	37.407
144.5	0.000	10.652	23.705	33.579	36.611
145.0	0.000	10.401	23.219	32.829	35.844
145.5	0.000	10.132	22.768	32.151	35.024
146.0	0.000	9.897	22.282	31.454	34.310
146.5	0.000	9.669	21.767	30.775	33.514
147.0	0.000	9.382	21.317	30.084	32.771
147.5	0.000	9.148	20.831	29.365	32.010
148.0	0.000	8.926	20.374	28.703	31.296
148.5	0.000	8.633	19.935	28.048	30.594
149.0	0.000	8.422	19.450	27.410	29.850
149.5	0.000	8.194	18.981	26.766	29.072
150.0	0.000	7.919	18.531	26.110	28.358
150.5	0.000	7.673	18.068	25.490	27.685
151.0	0.000	7.457	17.676	24.805	26.994
151.5	0.000	7.217	17.208	24.196	26.339
152.0	0.000	6.977	16.769	23.576	25.671
152.5	0.000	6.778	16.342	22.979	24.951
153.0	0.000	6.561	15.932	22.341	24.302
153.5	0.000	6.380	15.481	21.773	23.734
154.0	0.000	6.116	15.048	21.188	23.008
154.5	0.000	5.894	14.615	20.579	22.417
155.0	0.000	5.718	14.176	20.041	21.756
155.5	0.000	5.467	13.784	19.438	21.141
156.0	0.000	5.285	13.351	18.899	20.526
156.5	0.000	5.080	12.935	18.337	19.924
157.0	0.000	4.899	12.461	17.799	19.362
157.5	0.000	4.694	12.045	17.301	18.788
158.0	0.000	4.565	11.624	16.769	18.226
158.5	0.000	4.320	11.156	16.271	17.670
159.0	0.000	4.173	10.734	15.756	17.102
159.5	0.000	4.021	10.348	15.294	16.558
160.0	0.000	3.799	9.927	14.738	16.020
160.5	0.000	3.635	9.529	14.240	15.499
161.0	0.000	0.000	9.131	13.749	14.949
161.5	0.000	0.000	8.709	13.234	14.410
162.0	0.000	0.000	8.387	12.771	13.907
162.5	0.000	0.000	7.989	12.303	13.362
163.0	0.000	0.000	7.638	11.811	12.818
163.5	0.000	0.000	7.275	11.331	12.321
164.0	0.000	0.000	6.848	10.887	11.841
164.5	0.000	0.000	6.561	10.407	11.331
165.0	0.000	0.000	6.169	9.956	10.834
165.5	0.000	0.000	5.824	9.511	10.307
166.0	0.000	0.000	5.467	9.008	9.786
166.5	0.000	0.000	5.186	8.522	9.347



**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

167.0	0.000	0.000	4.817	8.095	8.815
167.5	0.000	0.000	4.478	7.621	8.376
168.0	0.000	0.000	4.161	7.164	7.843
168.5	0.000	0.000	3.881	6.684	7.398
169.0	0.000	0.000	3.529	6.251	6.930
169.5	0.000	0.000	0.000	5.841	6.456
170.0	0.000	0.000	0.000	5.391	6.034
170.5	0.000	0.000	0.000	4.928	5.496
171.0	0.000	0.000	0.000	4.466	5.039
171.5	0.000	0.000	0.000	4.062	4.571
172.0	0.000	0.000	0.000	3.611	4.126
172.5	0.000	0.000	0.000	0.000	3.693
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

**IES INDOOR REPORT**  
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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	512.17	N.A.	12.90
0-30	1077.3	N.A.	27.20
0-40	1735.00	N.A.	43.70
0-60	2925.58	N.A.	73.70
0-80	3583.46	N.A.	90.30
0-90	3706.44	N.A.	93.40
10-90	3573.35	N.A.	90.10
20-40	1222.83	N.A.	30.80
20-50	1867.01	N.A.	47.10
40-70	1595.11	N.A.	40.20
60-80	657.89	N.A.	16.60
70-80	253.35	N.A.	6.40
80-90	122.97	N.A.	3.10
90-110	129.07	N.A.	3.30
90-120	179.16	N.A.	4.50
90-130	215.85	N.A.	5.40
90-150	253.18	N.A.	6.40
90-180	260.90	N.A.	6.60
110-180	131.83	N.A.	3.30
0-180	3967.33	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	133.09
10-20	379.08
20-30	565.14
30-40	657.70
40-50	644.18
50-60	546.40
60-70	404.54
70-80	253.35
80-90	122.97
90-100	68.24
100-110	60.83
110-120	50.09
120-130	36.69
130-140	23.92
140-150	13.40
150-160	6.02
160-170	1.63
170-180	0.07

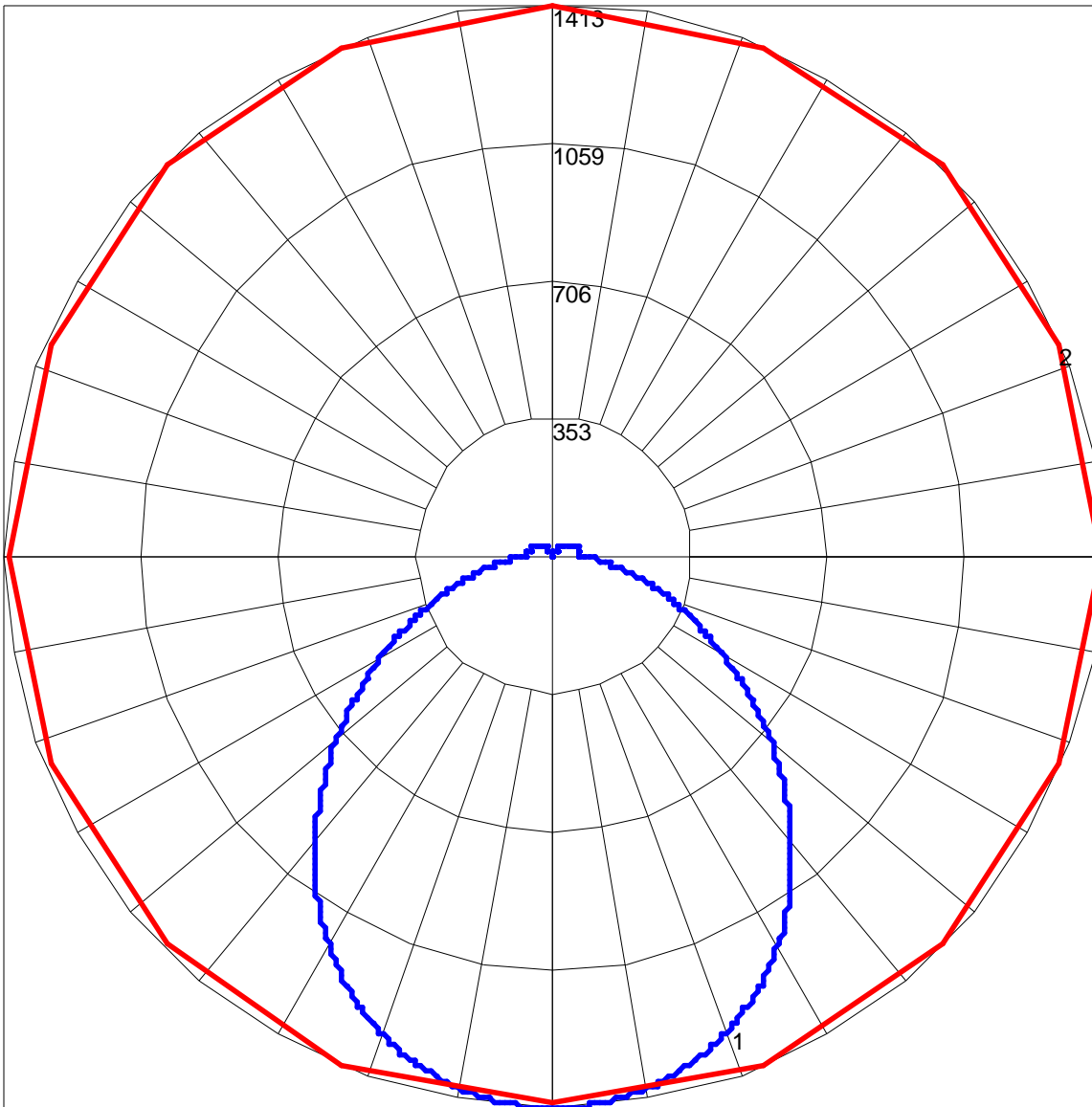
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 44-48LED30DMVFR40.IES**

**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	65	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 = 1412.633 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.)