



**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : 44-48LED24DMVFR50.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] 44-48LED24DMVFR50  
 [LUMINAIRE] Catalog Number: 44-48LED24DMVFR50  
 [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 417mA.  
 [MORE] 120.0Vac, 60.0Hz, 0.20A, 24.0W, 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	3296
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	24
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	6916	6076	5751
55	6021	5137	4929
65	5018	4210	4257
75	3936	3374	3656
85	2746	2688	3133

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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	1169.882	1169.882	1169.882	1169.882	1169.882
0.5	1164.635	1166.293	1173.695	1173.296	1167.363
1.0	1164.426	1166.118	1173.534	1173.072	1167.261
1.5	1164.246	1165.856	1173.189	1172.795	1167.062
2.0	1163.891	1165.510	1172.805	1172.338	1166.673
2.5	1163.298	1164.995	1172.319	1171.832	1166.230
3.0	1162.675	1164.338	1171.643	1171.234	1165.608
3.5	1161.936	1163.594	1170.899	1170.539	1164.868
4.0	1161.017	1162.719	1170.077	1169.668	1164.095
4.5	1160.039	1161.819	1169.075	1168.666	1163.181
5.0	1158.926	1160.677	1167.947	1167.582	1162.135
5.5	1157.744	1159.451	1166.692	1166.405	1160.978
6.0	1156.358	1158.167	1165.394	1165.058	1159.680
6.5	1154.972	1156.747	1163.896	1163.604	1158.357
7.0	1153.358	1155.220	1162.325	1162.028	1156.762
7.5	1151.622	1153.581	1160.681	1160.307	1155.113
8.0	1149.939	1151.767	1158.843	1158.430	1153.236
8.5	1147.965	1149.856	1156.864	1156.436	1151.267
9.0	1145.990	1147.897	1154.807	1154.384	1149.331
9.5	1143.870	1145.752	1152.648	1152.225	1147.143
10.0	1141.662	1143.476	1150.328	1149.822	1144.867
10.5	1139.255	1141.127	1147.935	1147.303	1142.416
11.0	1136.882	1138.696	1145.397	1144.799	1139.843
11.5	1134.183	1136.070	1142.679	1142.022	1137.110
12.0	1131.547	1133.356	1139.911	1139.109	1134.295
12.5	1128.736	1130.575	1137.052	1136.182	1131.396
13.0	1125.731	1127.598	1133.983	1133.074	1128.338
13.5	1122.721	1124.554	1130.915	1129.850	1125.172
14.0	1119.540	1121.374	1127.559	1126.441	1121.743
14.5	1116.263	1118.013	1124.165	1122.847	1118.184
15.0	1112.820	1114.711	1120.712	1119.229	1114.653
15.5	1109.343	1111.200	1117.104	1115.490	1110.967
16.0	1105.632	1107.548	1113.233	1111.453	1107.096
16.5	1101.859	1103.716	1109.367	1107.534	1103.089
17.0	1097.992	1099.836	1105.326	1103.342	1098.829
17.5	1094.024	1095.819	1101.251	1099.043	1094.686
18.0	1089.915	1091.690	1096.908	1094.613	1090.289
18.5	1085.670	1087.449	1092.522	1090.075	1085.781
19.0	1081.239	1083.087	1087.936	1085.334	1081.045
19.5	1076.868	1078.584	1083.272	1080.602	1076.284
20.0	1072.350	1073.989	1078.574	1075.579	1071.372
20.5	1067.676	1069.199	1073.590	1070.444	1066.261
21.0	1062.765	1064.321	1068.600	1065.294	1061.126
21.5	1057.955	1059.385	1063.470	1060.008	1055.957
22.0	1052.820	1054.196	1058.130	1054.493	1050.345
22.5	1047.714	1048.930	1052.752	1048.871	1044.738
23.0	1042.350	1043.614	1047.266	1043.201	1039.063
23.5	1036.869	1038.080	1041.621	1037.205	1033.266
24.0	1031.467	1032.502	1035.834	1031.330	1027.338
24.5	1025.796	1026.754	1029.959	1025.208	1021.230
25.0	1019.970	1020.851	1023.837	1018.891	1014.981
25.5	1014.154	1014.913	1017.738	1012.550	1008.664
26.0	1008.168	1008.781	1011.499	1006.140	1002.274
26.5	1001.856	1002.464	1005.080	999.463	995.675

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**CANDELA TABULATION - (Cont.)**

27.0	995.636	996.147	998.515	992.708	988.959
27.5	989.256	989.689	991.940	985.900	982.127
28.0	982.579	983.007	985.122	978.907	975.182
28.5	976.077	976.315	978.256	971.802	968.184
29.0	969.264	969.444	971.331	964.591	961.050
29.5	962.310	962.383	964.163	957.296	953.678
30.0	955.400	955.395	956.985	949.914	946.350
30.5	948.304	948.207	949.632	942.328	938.904
31.0	940.903	940.777	942.119	934.601	931.216
31.5	933.560	933.351	934.591	926.907	923.532
32.0	926.110	925.789	926.985	919.088	915.771
32.5	918.392	918.076	919.122	911.093	907.796
33.0	910.699	910.290	911.287	903.098	899.811
33.5	902.855	902.476	903.327	894.972	891.719
34.0	894.807	894.330	895.200	886.646	883.563
34.5	886.758	886.248	887.094	878.418	875.306
35.0	878.564	878.049	878.866	870.039	866.980
35.5	870.112	869.611	870.404	861.461	858.412
36.0	861.641	861.140	861.947	852.853	849.941
36.5	853.223	852.742	853.549	844.309	841.498
37.0	844.397	844.003	844.864	835.468	832.716
37.5	835.731	835.288	836.178	826.729	824.157
38.0	826.846	826.520	827.449	817.898	815.428
38.5	817.840	817.534	818.550	808.868	806.538
39.0	808.795	808.600	809.728	799.998	797.736
39.5	799.608	799.560	800.771	791.006	788.803
40.0	790.160	790.379	791.560	781.752	779.777
40.5	780.920	781.256	782.549	772.808	770.888
41.0	771.505	772.055	773.499	763.695	761.940
41.5	761.799	762.698	764.182	754.470	752.812
42.0	752.311	753.400	755.010	745.279	743.849
42.5	742.779	744.044	745.751	736.112	734.814
43.0	732.976	734.493	736.244	726.839	725.647
43.5	723.303	725.059	727.004	717.584	716.724
44.0	713.519	715.586	717.526	708.354	707.664
44.5	703.589	705.918	707.941	698.949	698.341
45.0	693.794	696.357	698.555	689.782	689.379
45.5	684.020	686.767	689.136	680.591	680.446
46.0	673.880	676.993	679.522	671.269	671.279
46.5	663.941	667.359	670.053	662.088	662.307
47.0	654.025	657.721	660.493	652.926	653.398
47.5	643.944	647.854	650.908	643.637	644.420
48.0	633.916	638.230	641.371	634.505	635.482
48.5	623.972	628.528	631.767	625.382	626.612
49.0	613.822	618.724	622.133	616.181	617.650
49.5	603.829	609.076	612.621	607.218	608.979
50.0	593.884	599.365	603.129	598.241	600.347
50.5	583.628	589.522	593.505	589.109	591.511
51.0	573.732	579.922	584.037	580.258	583.006
51.5	563.826	570.265	574.597	571.441	574.452
52.0	553.711	560.543	565.056	562.591	565.844
52.5	543.805	550.866	555.642	553.832	557.441
53.0	533.860	541.266	546.251	545.094	549.057
53.5	523.784	531.613	536.744	536.369	540.683
54.0	513.995	522.082	527.514	527.864	532.489
54.5	504.133	512.546	518.235	519.383	524.319

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**CANDELA TABULATION - (Cont.)**

55.0	494.149	502.878	508.869	510.829	516.120
55.5	484.447	493.517	499.775	502.489	508.145
56.0	474.755	484.141	490.662	494.266	500.257
56.5	464.947	474.614	481.447	485.950	492.243
57.0	455.235	465.297	472.450	477.795	484.496
57.5	445.602	455.969	463.493	469.712	476.691
58.0	435.890	446.574	454.481	461.625	468.934
58.5	426.368	437.412	445.728	453.703	461.392
59.0	416.876	428.245	436.945	445.845	453.825
59.5	407.403	418.996	428.158	438.025	446.268
60.0	398.061	410.024	419.546	430.346	438.881
60.5	388.807	401.027	411.030	422.716	431.596
61.0	379.343	391.933	402.379	414.994	424.141
61.5	370.176	383.044	394.010	407.544	416.944
62.0	361.156	374.188	385.646	400.108	409.776
62.5	351.921	365.304	377.344	392.707	402.583
63.0	343.007	356.657	369.184	385.407	395.532
63.5	334.103	347.991	361.107	378.176	388.510
64.0	325.135	339.316	352.976	370.950	381.439
64.5	316.455	330.840	345.122	363.864	374.636
65.0	307.770	322.344	337.268	356.803	367.764
65.5	299.065	313.766	329.439	349.732	360.796
66.0	290.574	305.474	321.751	342.851	354.085
66.5	282.146	297.265	314.203	336.009	347.374
67.0	273.670	288.945	306.636	329.123	340.575
67.5	265.413	280.911	299.196	322.378	333.967
68.0	257.209	272.863	291.858	315.725	327.392
68.5	249.024	264.795	284.524	309.049	320.807
69.0	241.078	256.995	277.420	302.469	314.296
69.5	233.157	249.170	270.368	295.982	307.799
70.0	225.162	241.404	263.293	289.402	301.248
70.5	217.430	233.794	256.402	283.027	294.907
71.0	209.887	226.353	249.637	276.690	288.502
71.5	202.208	218.854	242.814	270.300	282.214
72.0	194.792	211.575	236.196	264.075	275.917
72.5	187.527	204.402	229.679	257.914	269.726
73.0	180.228	197.399	223.158	251.699	263.511
73.5	173.186	190.357	216.822	245.669	257.379
74.0	166.101	183.457	210.490	239.571	251.247
74.5	159.219	176.663	204.285	233.594	245.178
75.0	152.479	170.103	198.230	227.710	239.240
75.5	145.866	163.591	192.234	221.908	233.312
76.0	139.252	157.124	186.272	216.039	227.365
76.5	132.828	150.870	180.471	210.373	221.621
77.0	126.603	144.747	174.791	204.771	215.849
77.5	120.350	138.683	169.116	199.140	210.125
78.0	114.315	132.755	163.567	193.606	204.499
78.5	108.299	126.949	158.135	188.222	198.892
79.0	102.410	121.191	152.703	182.776	193.377
79.5	96.783	115.686	147.509	177.495	187.945
80.0	91.152	110.230	142.340	172.286	182.635
80.5	85.579	104.875	137.234	167.049	177.276
81.0	80.283	99.653	132.317	162.035	172.136
81.5	75.041	94.571	127.440	157.065	166.981
82.0	69.847	89.523	122.621	152.081	161.889
82.5	64.809	84.636	117.928	147.247	156.885

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**CANDELA TABULATION - (Cont.)**

83.0	59.917	79.880	113.352	142.466	152.008
83.5	55.073	75.158	108.751	137.754	147.150
84.0	50.313	70.596	104.375	133.144	142.452
84.5	45.693	66.117	99.998	128.641	137.793
85.0	41.068	61.663	95.684	124.113	133.129
85.5	36.701	57.408	91.483	119.781	128.690
86.0	32.271	53.167	87.364	115.428	124.225
86.5	27.899	48.946	83.206	111.120	119.785
87.0	23.634	44.827	79.160	106.928	115.589
87.5	19.374	40.771	75.255	102.959	111.582
88.0	15.168	36.696	71.350	99.312	107.900
88.5	10.976	32.718	67.805	96.239	104.798
89.0	6.779	28.930	64.975	93.564	102.142
89.5	0.000	25.823	62.723	91.220	99.730
90.0	0.000	23.994	60.890	89.168	97.591
90.5	0.000	23.021	59.509	87.495	95.811
91.0	0.000	22.905	58.701	86.226	94.459
91.5	0.000	22.900	58.424	85.501	93.559
92.0	0.000	22.817	58.264	85.034	92.922
92.5	0.000	22.720	58.069	84.606	92.329
93.0	0.000	22.715	57.875	84.188	91.833
93.5	0.000	22.657	57.704	83.809	91.347
94.0	0.000	22.598	57.505	83.405	90.885
94.5	0.000	22.525	57.369	83.036	90.447
95.0	0.000	22.467	57.135	82.666	89.965
95.5	0.000	22.384	57.004	82.297	89.523
96.0	0.000	22.360	56.800	81.951	89.139
96.5	0.000	22.277	56.591	81.577	88.730
97.0	0.000	22.224	56.401	81.324	88.385
97.5	0.000	22.136	56.211	80.964	88.015
98.0	0.000	22.039	56.027	80.648	87.656
98.5	0.000	22.005	55.783	80.293	87.276
99.0	0.000	21.937	55.613	79.982	86.960
99.5	0.000	21.903	55.351	79.705	86.620
100.0	0.000	21.849	55.137	79.350	86.279
100.5	0.000	21.772	54.937	79.068	85.958
101.0	0.000	21.655	54.714	78.761	85.613
101.5	0.000	21.611	54.490	78.440	85.307
102.0	0.000	21.533	54.252	78.114	84.991
102.5	0.000	21.441	54.023	77.813	84.709
103.0	0.000	21.402	53.790	77.453	84.363
103.5	0.000	21.339	53.517	77.132	84.018
104.0	0.000	21.227	53.289	76.792	83.692
104.5	0.000	21.135	53.012	76.437	83.323
105.0	0.000	21.057	52.783	76.057	83.016
105.5	0.000	20.964	52.486	75.722	82.656
106.0	0.000	20.867	52.180	75.323	82.238
106.5	0.000	20.784	51.942	74.997	81.903
107.0	0.000	20.697	51.630	74.540	81.509
107.5	0.000	20.609	51.339	74.112	81.056
108.0	0.000	20.493	51.052	73.743	80.633
108.5	0.000	20.410	50.726	73.290	80.205
109.0	0.000	20.303	50.390	72.853	79.802
109.5	0.000	20.172	50.045	72.376	79.325
110.0	0.000	20.026	49.729	71.895	78.815
110.5	0.000	19.919	49.379	71.442	78.338

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**CANDELA TABULATION - (Cont.)**

111.0	0.000	19.797	49.029	70.966	77.784
111.5	0.000	19.681	48.737	70.484	77.317
112.0	0.000	19.486	48.304	69.935	76.772
112.5	0.000	19.335	47.964	69.419	76.242
113.0	0.000	19.219	47.560	68.889	75.668
113.5	0.000	19.097	47.200	68.354	75.075
114.0	0.000	18.937	46.782	67.815	74.487
114.5	0.000	18.800	46.364	67.221	73.903
115.0	0.000	18.606	45.985	66.662	73.305
115.5	0.000	18.436	45.571	66.059	72.697
116.0	0.000	18.338	45.134	65.475	72.055
116.5	0.000	18.163	44.710	64.834	71.423
117.0	0.000	17.993	44.282	64.221	70.752
117.5	0.000	17.808	43.874	63.647	70.105
118.0	0.000	17.667	43.402	63.024	69.395
118.5	0.000	17.482	42.911	62.412	68.719
119.0	0.000	17.288	42.488	61.770	67.960
119.5	0.000	17.147	42.060	61.133	67.275
120.0	0.000	16.962	41.574	60.457	66.540
120.5	0.000	16.841	41.136	59.810	65.835
121.0	0.000	16.685	40.689	59.134	65.043
121.5	0.000	16.529	40.290	58.405	64.328
122.0	0.000	16.364	39.843	57.748	63.569
122.5	0.000	16.204	39.337	57.019	62.835
123.0	0.000	16.048	38.870	56.357	62.071
123.5	0.000	15.897	38.393	55.662	61.322
124.0	0.000	15.756	37.917	54.971	60.583
124.5	0.000	15.615	37.455	54.281	59.795
125.0	0.000	15.469	36.973	53.610	59.047
125.5	0.000	15.304	36.531	52.924	58.264
126.0	0.000	15.197	36.049	52.224	57.515
126.5	0.000	15.066	35.602	51.543	56.771
127.0	0.000	14.866	35.130	50.823	55.963
127.5	0.000	14.764	34.654	50.147	55.229
128.0	0.000	14.594	34.211	49.447	54.466
128.5	0.000	14.433	33.749	48.771	53.702
129.0	0.000	14.297	33.297	48.066	52.924
129.5	0.000	14.161	32.850	47.434	52.161
130.0	0.000	14.010	32.344	46.724	51.353
130.5	0.000	13.826	31.935	46.062	50.609
131.0	0.000	13.670	31.449	45.357	49.846
131.5	0.000	13.539	30.992	44.696	49.145
132.0	0.000	13.393	30.569	44.010	48.348
132.5	0.000	13.213	30.097	43.344	47.594
133.0	0.000	13.062	29.650	42.673	46.884
133.5	0.000	12.872	29.222	41.953	46.135
134.0	0.000	12.736	28.765	41.326	45.352
134.5	0.000	12.571	28.312	40.621	44.569
135.0	0.000	12.410	27.894	39.954	43.820
135.5	0.000	12.201	27.422	39.308	43.086
136.0	0.000	12.094	26.956	38.646	42.323
136.5	0.000	11.934	26.533	37.985	41.618
137.0	0.000	11.734	26.066	37.294	40.859
137.5	0.000	11.550	25.638	36.648	40.125
138.0	0.000	11.365	25.210	35.952	39.376
138.5	0.000	11.199	24.762	35.330	38.700

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

139.0	0.000	11.000	24.310	34.663	37.907
139.5	0.000	10.825	23.921	34.031	37.236
140.0	0.000	10.645	23.445	33.409	36.511
140.5	0.000	10.460	23.046	32.772	35.797
141.0	0.000	10.237	22.618	32.106	35.111
141.5	0.000	10.086	22.200	31.512	34.435
142.0	0.000	9.886	21.767	30.890	33.744
142.5	0.000	9.677	21.319	30.277	33.083
143.0	0.000	9.459	20.930	29.689	32.378
143.5	0.000	9.225	20.502	29.066	31.702
144.0	0.000	9.065	20.084	28.483	31.079
144.5	0.000	8.851	19.695	27.899	30.418
145.0	0.000	8.642	19.292	27.277	29.781
145.5	0.000	8.418	18.917	26.712	29.100
146.0	0.000	8.223	18.513	26.134	28.507
146.5	0.000	8.034	18.085	25.570	27.846
147.0	0.000	7.795	17.711	24.996	27.228
147.5	0.000	7.601	17.307	24.398	26.596
148.0	0.000	7.416	16.928	23.848	26.002
148.5	0.000	7.173	16.563	23.303	25.419
149.0	0.000	6.998	16.160	22.773	24.801
149.5	0.000	6.808	15.771	22.238	24.155
150.0	0.000	6.580	15.396	21.694	23.561
150.5	0.000	6.375	15.012	21.178	23.002
151.0	0.000	6.195	14.686	20.609	22.428
151.5	0.000	5.996	14.297	20.104	21.883
152.0	0.000	5.797	13.932	19.588	21.329
152.5	0.000	5.631	13.577	19.092	20.731
153.0	0.000	5.451	13.237	18.562	20.191
153.5	0.000	5.301	12.863	18.090	19.719
154.0	0.000	5.082	12.503	17.604	19.116
154.5	0.000	4.897	12.143	17.098	18.625
155.0	0.000	4.751	11.778	16.651	18.076
155.5	0.000	4.542	11.452	16.150	17.565
156.0	0.000	4.391	11.093	15.703	17.055
156.5	0.000	4.221	10.747	15.236	16.554
157.0	0.000	4.070	10.353	14.788	16.087
157.5	0.000	3.900	10.008	14.375	15.610
158.0	0.000	3.793	9.658	13.932	15.143
158.5	0.000	3.589	9.269	13.519	14.681
159.0	0.000	3.467	8.919	13.091	14.210
159.5	0.000	3.341	8.598	12.707	13.757
160.0	0.000	3.156	8.248	12.245	13.310
160.5	0.000	3.020	7.917	11.832	12.877
161.0	0.000	0.000	7.586	11.423	12.420
161.5	0.000	0.000	7.236	10.995	11.973
162.0	0.000	0.000	6.969	10.611	11.554
162.5	0.000	0.000	6.638	10.222	11.102
163.0	0.000	0.000	6.346	9.814	10.650
163.5	0.000	0.000	6.045	9.415	10.237
164.0	0.000	0.000	5.690	9.045	9.838
164.5	0.000	0.000	5.451	8.646	9.415
165.0	0.000	0.000	5.126	8.272	9.001
165.5	0.000	0.000	4.839	7.902	8.564
166.0	0.000	0.000	4.542	7.484	8.131
166.5	0.000	0.000	4.309	7.081	7.766



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**CANDELA TABULATION - (Cont.)**

167.0	0.000	0.000	4.002	6.726	7.324
167.5	0.000	0.000	3.720	6.332	6.959
168.0	0.000	0.000	3.458	5.952	6.516
168.5	0.000	0.000	3.224	5.554	6.147
169.0	0.000	0.000	2.932	5.194	5.758
169.5	0.000	0.000	0.000	4.853	5.364
170.0	0.000	0.000	0.000	4.479	5.014
170.5	0.000	0.000	0.000	4.095	4.566
171.0	0.000	0.000	0.000	3.710	4.187
171.5	0.000	0.000	0.000	3.375	3.798
172.0	0.000	0.000	0.000	3.000	3.428
172.5	0.000	0.000	0.000	0.000	3.069
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	425.54	N.A.	12.90
0-30	895.09	N.A.	27.20
0-40	1441.54	N.A.	43.70
0-60	2430.73	N.A.	73.70
0-80	2977.34	N.A.	90.30
0-90	3079.52	N.A.	93.40
10-90	2968.94	N.A.	90.10
20-40	1016.00	N.A.	30.80
20-50	1551.22	N.A.	47.10
40-70	1325.31	N.A.	40.20
60-80	546.61	N.A.	16.60
70-80	210.49	N.A.	6.40
80-90	102.17	N.A.	3.10
90-110	107.24	N.A.	3.30
90-120	148.85	N.A.	4.50
90-130	179.34	N.A.	5.40
90-150	210.35	N.A.	6.40
90-180	216.77	N.A.	6.60
110-180	109.53	N.A.	3.30
0-180	3296.28	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	110.58
10-20	314.96
20-30	469.55
30-40	546.45
40-50	535.22
50-60	453.98
60-70	336.11
70-80	210.49
80-90	102.17
90-100	56.70
100-110	50.54
110-120	41.61
120-130	30.49
130-140	19.88
140-150	11.14
150-160	5.00
160-170	1.36
170-180	0.06

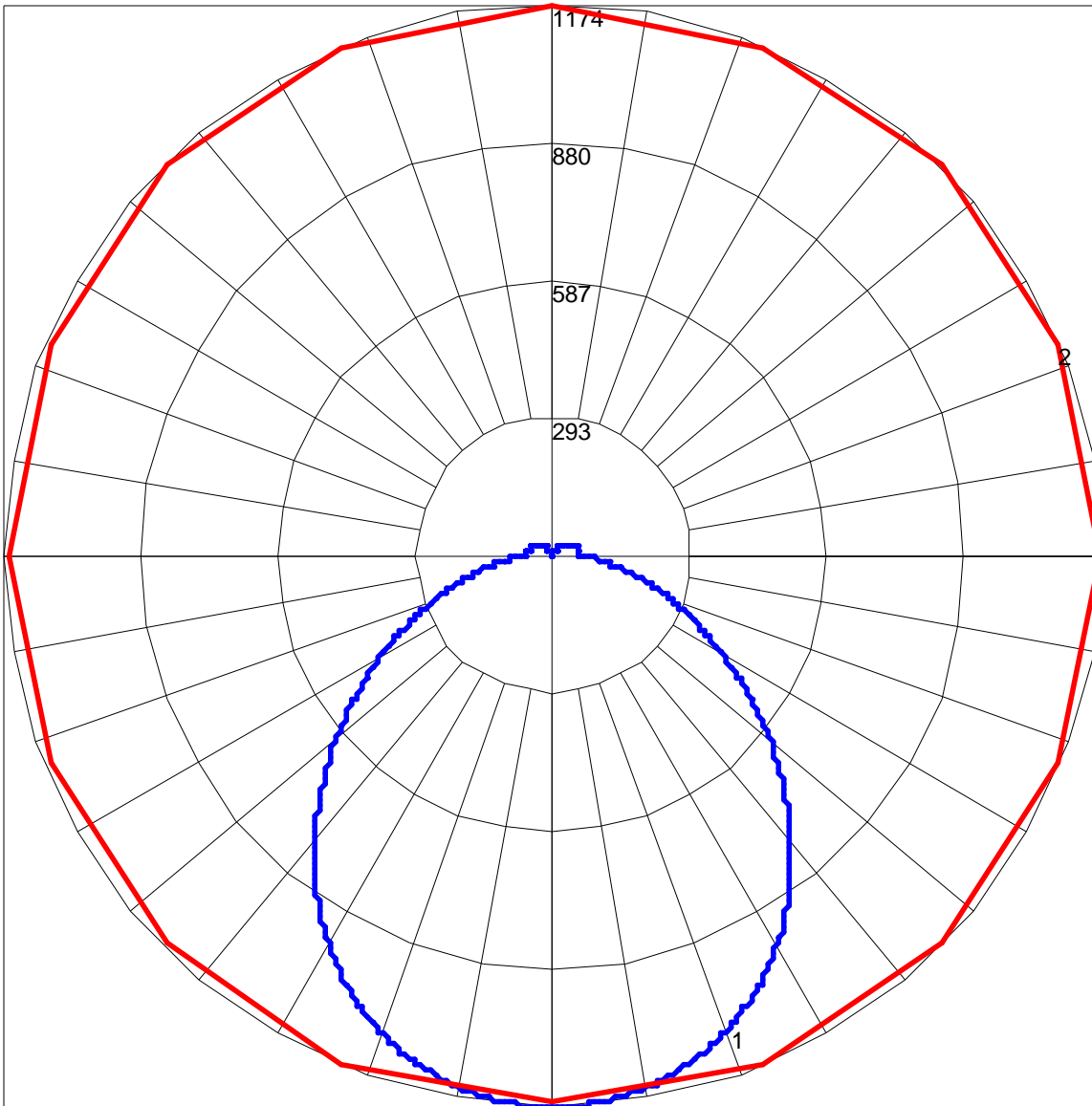
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 44-48LED24DMVFR50.IES**

**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 = 1173.695 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.)