



IES INDOOR REPORT
PHOTOMETRIC FILENAME : TCMLL48M-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 11890707.03P7
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 8/15/2017
 [MANUFAC] Lamar Lighting Co Inc
 [LUMCAT] TCMLL48M-40
 [LUMINAIRE] White formed steel housing, frosted plastic lens enclosure
 [LAMP] 112 white LEDs
 [BALLAST] One Espen VPL50-xxx-MVHDA-PD-2C driver
 [OTHER] 25.6 C, 120.074 V, 0.2909 A, 34.93 W, 0.995853 PF, 59.9981
 [MORE] Hz
 [OTHER] This test was performed using the calibrated photodetector met
 [MORE] hod of absolute photometry.

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3940
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	34.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.81 ft
Luminous Width (90-270)	0.13 ft
Luminous Height	0.06 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	23518	18026	17439
55	22281	16318	16136
65	20231	14714	15082
75	16202	13366	14233
85	6713	12132	13669

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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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0.0	1118.387	1118.387	1118.387	1118.387	1118.387	1118.387	1118.387	1118.387	1118.387
0.5	1156.605	1125.464	1108.903	1108.053	1103.948	1108.761	1108.620	1125.747	1156.747
1.0	1156.464	1125.039	1108.620	1108.337	1103.665	1108.620	1109.044	1125.464	1157.171
1.5	1156.039	1124.615	1108.195	1107.912	1103.524	1108.478	1109.044	1125.323	1157.171
2.0	1155.331	1124.190	1107.629	1107.629	1103.241	1108.478	1108.903	1125.464	1156.747
2.5	1154.482	1123.624	1107.063	1107.063	1103.099	1108.337	1108.478	1125.181	1156.464
3.0	1154.057	1122.775	1106.213	1106.213	1102.958	1107.770	1108.053	1124.615	1155.756
3.5	1152.925	1121.925	1105.364	1105.930	1102.250	1107.487	1107.487	1123.907	1155.756
4.0	1151.934	1120.793	1104.515	1105.222	1101.684	1107.063	1107.063	1123.199	1155.048
4.5	1151.085	1119.802	1103.807	1104.373	1101.117	1106.496	1106.355	1122.492	1154.623
5.0	1149.244	1118.528	1102.675	1103.524	1100.551	1105.789	1105.647	1121.501	1153.349
5.5	1148.254	1117.537	1101.684	1102.816	1099.702	1104.939	1104.515	1120.651	1152.925
6.0	1146.697	1115.839	1100.410	1101.542	1098.853	1104.090	1103.807	1119.661	1151.368
6.5	1145.140	1114.565	1098.994	1100.693	1098.286	1102.816	1102.675	1118.387	1150.518
7.0	1143.441	1112.725	1098.003	1099.702	1097.154	1101.967	1101.825	1117.113	1149.528
7.5	1141.742	1111.309	1096.729	1098.286	1096.163	1100.693	1100.551	1115.839	1147.971
8.0	1139.902	1109.469	1094.889	1097.296	1095.031	1099.560	1099.419	1114.565	1146.555
8.5	1137.213	1107.487	1093.615	1096.022	1093.757	1098.286	1098.145	1112.866	1144.432
9.0	1135.373	1105.506	1092.058	1094.182	1092.624	1096.871	1097.013	1110.884	1142.875
9.5	1132.400	1103.241	1090.218	1093.049	1090.784	1095.880	1095.739	1109.327	1141.318
10.0	1129.994	1101.259	1088.520	1091.492	1089.227	1094.606	1094.040	1107.629	1138.911
10.5	1127.163	1098.853	1086.538	1089.793	1087.812	1093.191	1092.624	1105.647	1136.647
11.0	1124.473	1096.729	1084.556	1088.095	1086.255	1091.209	1090.784	1103.524	1134.948
11.5	1121.501	1094.606	1082.433	1086.396	1084.273	1089.510	1088.520	1100.976	1132.825
12.0	1117.962	1091.917	1080.310	1084.273	1082.716	1087.529	1086.679	1098.711	1130.418
12.5	1114.989	1088.944	1077.903	1082.433	1080.593	1085.547	1084.698	1096.446	1127.729
13.0	1111.026	1086.255	1075.497	1080.168	1078.753	1083.424	1082.150	1093.898	1125.039
13.5	1108.337	1083.282	1072.949	1078.186	1076.912	1081.442	1079.743	1091.351	1122.350
14.0	1104.656	1080.027	1070.260	1075.922	1075.072	1078.894	1077.337	1088.095	1119.661
14.5	1101.117	1077.054	1067.570	1073.657	1072.524	1076.488	1074.648	1085.122	1116.830
15.0	1097.862	1073.940	1064.739	1071.109	1070.401	1074.081	1072.383	1081.867	1113.715
15.5	1094.606	1070.543	1061.767	1068.561	1068.136	1071.675	1069.269	1078.753	1110.743
16.0	1090.784	1067.004	1058.794	1065.872	1065.730	1069.269	1066.438	1075.214	1107.770
16.5	1087.104	1063.607	1055.963	1063.041	1063.607	1066.721	1063.182	1071.958	1104.373
17.0	1082.999	1060.068	1052.707	1060.210	1061.200	1063.890	1059.785	1068.278	1100.976
17.5	1079.319	1056.246	1049.452	1057.237	1058.511	1061.342	1056.246	1064.598	1098.003
18.0	1074.931	1052.707	1045.913	1054.123	1055.538	1058.511	1052.849	1060.917	1094.889
18.5	1070.826	1048.886	1042.799	1051.009	1052.566	1055.538	1049.310	1056.954	1091.351
19.0	1066.862	1044.781	1039.260	1047.470	1049.735	1052.141	1045.488	1052.990	1087.529
19.5	1062.333	1040.959	1035.721	1044.214	1046.762	1048.886	1041.666	1049.310	1083.707
20.0	1057.662	1036.712	1031.900	1040.959	1043.365	1045.630	1038.128	1045.205	1079.743
20.5	1053.415	1032.607	1028.502	1037.420	1039.826	1041.950	1034.306	1041.100	1075.780
21.0	1048.744	1028.502	1024.680	1034.023	1036.429	1038.269	1030.626	1036.995	1071.534
21.5	1043.931	1024.114	1021.283	1030.626	1033.315	1034.589	1026.804	1032.890	1067.004
22.0	1038.835	1019.585	1017.320	1027.087	1029.635	1030.626	1022.982	1028.927	1062.616
22.5	1034.023	1015.338	1013.215	1023.407	1026.238	1026.804	1019.302	1024.397	1058.369
23.0	1028.927	1010.667	1009.535	1020.009	1022.699	1023.123	1015.480	1020.151	1053.274
23.5	1023.690	1005.996	1005.430	1016.329	1019.160	1019.585	1011.375	1015.621	1049.169
24.0	1018.452	1001.325	1001.466	1012.507	1015.197	1015.621	1007.553	1011.233	1044.356
24.5	1013.498	996.512	997.361	1008.968	1011.658	1011.658	1003.590	1006.562	1039.402
25.0	1007.978	991.416	993.256	1005.005	1008.119	1008.119	999.485	1002.174	1034.306
25.5	1002.740	986.604	988.868	1001.042	1004.014	1004.297	995.521	997.644	1029.210
26.0	997.220	981.649	984.763	996.654	1000.475	1000.617	990.992	992.832	1023.973
26.5	991.841	976.553	980.092	992.549	996.229	996.654	986.887	988.019	1019.018

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27.0	986.179	971.458	975.280	988.161	992.832	992.832	982.499	983.206	1013.640
27.5	980.800	965.937	970.891	984.056	988.868	988.727	978.252	978.535	1007.836
28.0	975.421	960.841	965.796	979.668	984.763	984.339	973.581	973.722	1002.316
28.5	969.759	955.321	960.841	974.996	980.800	980.092	968.910	968.768	996.654
29.0	964.097	949.942	956.029	970.467	976.412	975.704	964.522	963.531	990.850
29.5	958.435	944.280	950.791	965.937	972.024	971.175	959.851	958.577	984.905
30.0	952.773	939.043	945.837	961.266	968.060	966.645	955.321	953.056	979.243
30.5	946.970	933.239	941.024	956.736	963.672	962.257	950.650	947.819	973.298
31.0	941.166	927.436	935.787	952.207	959.426	957.869	945.979	942.440	967.211
31.5	935.504	921.491	930.550	947.536	955.038	953.481	941.166	936.919	960.841
32.0	929.417	915.687	925.454	942.723	950.791	948.810	936.636	931.116	954.896
32.5	923.331	909.742	920.500	938.477	946.403	944.280	931.541	925.454	948.527
33.0	917.386	903.797	915.262	933.805	942.015	939.750	926.586	919.509	942.015
33.5	911.582	897.710	910.025	928.993	937.910	935.362	921.632	913.564	935.221
34.0	904.788	891.623	904.788	924.180	933.381	930.691	916.678	907.619	928.710
34.5	898.559	885.678	899.550	919.367	929.134	926.303	911.299	901.674	921.915
35.0	892.190	879.309	894.454	914.838	924.605	921.491	906.345	895.304	914.979
35.5	885.254	873.222	888.792	910.025	920.217	916.819	900.966	889.359	908.468
36.0	879.167	866.711	883.272	905.354	915.687	912.148	895.304	883.130	901.390
36.5	872.373	860.341	877.752	900.400	911.016	907.194	889.925	876.902	894.171
37.0	865.437	854.113	872.090	895.587	906.203	902.381	884.546	870.533	886.952
37.5	858.501	847.460	866.569	890.633	901.532	897.285	878.742	864.021	880.299
38.0	852.131	840.949	860.907	885.537	896.719	892.048	872.939	857.793	872.656
38.5	845.054	834.437	855.104	880.299	891.907	886.811	867.135	851.423	865.437
39.0	838.259	827.643	849.300	875.204	886.811	881.432	861.190	844.629	858.076
39.5	831.465	820.990	843.496	869.966	881.715	876.195	855.104	838.118	850.574
40.0	824.387	814.196	837.551	864.587	876.619	870.674	849.158	831.323	843.213
40.5	817.451	807.543	831.465	858.784	871.382	865.154	843.213	824.529	835.711
41.0	810.374	800.748	825.237	853.547	866.428	859.492	836.985	817.876	828.209
41.5	803.013	793.954	819.150	848.026	860.907	853.971	830.474	810.798	820.565
42.0	795.653	786.735	812.639	842.223	855.670	848.168	824.104	803.862	812.780
42.5	788.434	779.799	806.127	836.561	850.008	842.223	817.734	796.927	804.995
43.0	780.790	772.580	799.758	830.757	844.629	836.419	811.082	789.566	797.210
43.5	773.288	765.078	793.246	825.095	838.967	830.615	804.570	782.488	789.141
44.0	765.219	757.717	786.452	819.150	833.305	824.670	798.059	774.845	780.931
44.5	757.434	750.215	779.657	813.346	827.784	818.867	791.265	767.767	773.429
45.0	749.224	742.713	772.863	807.401	821.981	813.063	784.329	759.982	765.219
45.5	741.156	735.211	766.069	801.456	816.319	807.118	777.817	752.480	756.726
46.0	733.087	727.425	759.274	795.653	810.657	801.173	771.023	744.836	748.516
46.5	724.453	719.640	752.480	789.566	804.712	794.945	763.945	737.051	740.165
47.0	716.385	711.855	745.544	783.479	798.908	789.283	757.293	729.266	731.955
47.5	707.892	704.211	738.608	777.676	793.246	783.338	750.357	721.763	723.604
48.0	699.540	696.568	731.530	771.589	787.301	777.534	743.421	713.695	715.111
48.5	691.189	688.641	724.736	765.502	781.639	771.589	736.626	705.910	706.618
49.0	682.554	680.856	717.517	759.699	775.694	765.502	729.690	697.983	697.842
49.5	674.344	672.787	710.581	753.471	770.174	759.557	722.613	690.198	689.490
50.0	665.851	664.860	703.787	747.526	764.087	753.329	715.677	682.129	680.714
50.5	657.217	656.934	696.568	741.156	758.566	747.384	708.741	674.344	671.938
51.0	648.865	648.865	689.490	735.211	752.621	741.297	701.663	666.276	663.162
51.5	640.514	641.080	682.554	728.983	746.676	735.069	694.727	658.349	654.527
52.0	631.879	632.870	675.335	722.613	740.873	728.983	687.650	650.422	645.751
52.5	623.386	624.802	668.258	716.526	734.928	722.613	680.714	642.354	637.117
53.0	614.752	616.875	661.463	710.298	729.266	716.526	673.636	634.002	628.199
53.5	606.259	608.948	654.244	703.928	723.321	710.156	666.701	626.076	619.140
54.0	597.341	600.597	647.167	697.842	717.375	703.787	659.340	618.007	610.364
54.5	588.706	592.528	640.089	691.472	711.430	697.558	652.546	609.656	601.163

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CANDELA TABULATION - (Cont.)

55.0	579.789	584.177	632.870	685.102	705.485	691.330	645.468	601.446	591.962
55.5	570.730	575.967	625.934	678.874	699.399	685.102	638.391	593.236	582.761
56.0	561.812	567.757	618.574	672.504	693.312	679.015	631.313	585.026	573.561
56.5	552.611	559.406	611.496	666.276	687.650	672.787	624.236	576.533	564.218
57.0	543.410	551.196	604.419	659.906	681.705	666.701	617.158	568.323	554.876
57.5	534.068	542.844	596.916	653.819	675.760	660.472	610.222	559.830	545.251
58.0	525.151	534.351	589.839	647.591	669.956	654.386	603.286	551.620	535.767
58.5	515.525	526.000	582.620	641.505	664.011	648.157	596.067	542.986	526.283
59.0	506.324	517.507	575.542	635.135	658.349	641.929	589.131	534.634	516.374
59.5	496.699	509.297	568.465	628.907	652.404	635.984	581.912	526.283	506.749
60.0	487.498	500.804	561.246	622.962	646.742	629.898	574.976	517.648	497.265
60.5	477.873	492.594	554.310	616.875	640.797	623.669	567.899	509.014	487.640
61.0	468.672	484.243	547.374	610.788	635.135	617.583	560.963	500.662	478.297
61.5	459.188	475.891	540.579	604.702	629.190	611.496	553.885	491.886	468.814
62.0	449.846	467.398	533.644	598.615	623.386	605.268	546.808	483.676	459.471
62.5	440.362	459.188	526.849	592.528	617.724	598.898	539.730	475.042	449.987
63.0	430.737	450.837	519.913	586.583	611.779	592.811	532.653	466.407	440.645
63.5	421.253	442.627	513.260	580.355	605.976	586.725	525.434	457.773	431.161
64.0	411.627	434.275	506.607	574.410	600.030	580.638	518.356	449.280	421.677
64.5	402.002	426.207	499.955	568.323	593.944	574.268	511.279	440.645	412.194
65.0	392.377	417.714	493.160	562.095	587.857	568.182	504.484	432.294	402.710
65.5	382.751	409.504	486.366	556.150	582.054	561.812	497.690	423.801	393.084
66.0	372.843	401.294	479.996	550.063	576.109	555.584	490.895	415.308	383.601
66.5	362.934	393.226	473.343	543.977	570.305	549.639	484.101	406.956	373.692
67.0	353.167	385.016	466.832	537.890	564.360	543.269	477.590	398.746	363.925
67.5	343.400	376.665	460.462	531.803	558.415	537.324	471.078	390.395	353.875
68.0	333.492	368.596	453.951	525.717	552.470	531.096	464.709	382.185	343.967
68.5	323.583	360.386	447.581	519.630	546.383	525.151	458.339	373.692	333.775
69.0	313.675	352.318	441.070	513.543	540.721	519.205	452.111	365.482	323.725
69.5	304.049	344.250	434.700	507.457	534.634	513.119	445.741	357.272	313.533
70.0	294.282	336.181	428.189	501.512	528.972	507.174	439.230	349.062	303.342
70.5	284.516	328.113	421.677	495.425	523.027	501.087	432.718	340.994	293.150
71.0	274.465	320.186	415.308	489.480	517.082	495.142	426.207	332.784	283.100
71.5	264.699	312.259	408.796	483.393	511.279	489.197	419.554	324.716	272.908
72.0	255.073	304.616	402.427	477.165	505.475	483.110	412.901	316.647	263.141
72.5	245.448	296.830	395.774	471.220	499.530	477.165	406.390	308.579	252.950
73.0	235.681	289.187	389.546	465.275	493.726	470.937	399.596	300.794	243.183
73.5	225.914	281.543	383.034	459.330	487.781	464.992	392.943	292.867	233.416
74.0	216.430	274.182	376.523	453.102	481.978	458.905	386.573	285.223	223.649
74.5	206.946	266.963	370.295	447.156	476.174	452.818	379.920	277.580	214.024
75.0	197.321	259.744	363.925	441.211	470.371	446.590	373.409	270.219	204.257
75.5	187.837	252.808	357.555	435.266	464.709	440.787	366.898	262.717	194.631
76.0	178.495	245.872	351.327	429.321	458.905	434.842	360.386	255.639	185.147
76.5	169.011	238.936	345.099	423.376	452.960	428.613	354.017	248.703	175.664
77.0	159.668	232.284	338.871	417.431	447.298	422.668	347.647	241.767	166.321
77.5	150.185	225.772	332.643	411.627	441.494	416.723	341.419	234.973	156.979
78.0	140.814	219.261	326.556	405.824	435.832	410.920	335.049	228.462	147.495
78.5	131.684	212.750	320.328	400.020	430.029	404.975	328.962	221.950	138.181
79.0	122.865	206.238	314.383	394.217	424.367	399.171	322.734	215.439	129.094
79.5	113.849	199.586	308.296	388.413	418.705	393.226	316.647	208.645	120.303
80.0	105.186	192.791	302.209	382.893	413.043	387.422	310.702	201.992	111.343
80.5	96.480	186.138	296.264	376.948	407.381	381.619	304.616	195.197	102.567
81.0	88.072	179.485	290.461	371.286	401.860	375.957	298.671	188.545	94.159
81.5	79.962	172.974	284.516	365.624	396.198	370.153	292.725	181.750	85.822
82.0	72.162	166.463	278.570	359.820	390.678	364.491	286.922	175.097	77.782
82.5	64.405	160.093	272.767	354.017	384.874	358.688	280.977	168.728	70.039

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CANDELA TABULATION - (Cont.)

83.0	57.059	153.865	266.963	348.496	379.496	352.884	275.032	162.358	62.225
83.5	49.953	147.778	261.160	342.976	373.834	347.364	269.228	155.847	55.006
84.0	43.088	141.833	255.498	337.172	368.313	341.702	263.425	149.760	47.915
84.5	36.888	135.902	249.694	331.652	362.651	336.040	257.621	143.815	41.375
85.0	30.830	130.212	244.032	325.990	356.989	330.378	251.959	137.926	35.133
85.5	25.111	124.606	238.512	320.328	351.327	324.716	246.155	132.123	29.188
86.0	19.831	119.171	232.991	314.666	345.807	319.054	240.493	126.574	23.653
86.5	15.188	113.891	227.471	309.145	340.286	313.392	234.690	121.039	18.614
87.0	10.956	108.696	221.809	303.625	334.624	307.871	229.169	115.618	14.013
87.5	7.332	103.473	216.147	298.104	328.962	302.209	223.507	110.310	9.951
88.0	4.331	98.448	210.768	292.301	323.300	296.689	217.845	105.073	6.497
88.5	2.038	93.550	205.248	286.639	317.638	290.885	212.325	99.920	3.751
89.0	0.354	88.893	199.869	281.118	311.976	285.082	206.663	94.994	1.628
89.5	0.000	84.137	194.773	275.881	306.314	279.703	201.284	90.182	0.113
90.0	0.000	79.820	189.677	270.361	300.652	274.182	196.047	85.638	0.000
90.5	0.000	75.588	184.581	264.982	295.415	268.803	190.951	81.165	0.000
91.0	0.000	71.270	179.202	259.603	289.753	263.425	185.855	76.706	0.000
91.5	0.000	67.024	174.107	254.224	284.232	257.904	180.618	72.332	0.000
92.0	0.000	62.947	169.011	248.703	278.712	252.525	175.380	68.114	0.000
92.5	0.000	58.941	163.915	243.183	273.050	246.863	170.285	63.910	0.000
93.0	0.000	55.049	158.961	237.804	267.388	241.343	165.189	59.847	0.000
93.5	0.000	51.184	153.865	232.284	262.009	235.964	160.093	55.955	0.000
94.0	0.000	47.448	149.052	226.763	256.347	230.443	155.139	52.034	0.000
94.5	0.000	43.612	144.098	221.384	250.827	225.065	150.043	48.184	0.000
95.0	0.000	39.917	139.243	216.005	245.165	219.544	145.230	44.390	0.000
95.5	0.000	36.293	134.402	210.485	239.644	214.307	140.319	40.653	0.000
96.0	0.000	32.557	129.646	205.248	234.124	208.928	135.435	36.888	0.000
96.5	0.000	28.933	124.861	199.869	228.603	203.690	130.566	33.024	0.000
97.0	0.000	25.295	120.261	194.631	223.083	198.312	125.668	29.343	0.000
97.5	0.000	21.657	115.462	189.535	217.562	192.933	120.770	25.592	0.000
98.0	0.000	17.906	110.749	184.157	212.042	187.695	115.929	21.813	0.000
98.5	0.000	14.197	105.993	178.919	206.663	182.458	111.188	18.005	0.000
99.0	0.000	10.489	101.378	173.682	201.284	177.079	106.347	14.240	0.000
99.5	0.000	6.809	96.565	168.445	195.764	171.700	101.520	10.418	0.000
100.0	0.000	3.411	91.809	163.207	190.243	166.463	96.580	6.738	0.000
100.5	0.000	0.892	87.025	157.970	185.006	161.225	91.795	3.723	0.000
101.0	0.000	0.000	82.311	152.732	179.485	155.988	86.912	1.430	0.000
101.5	0.000	0.000	77.513	147.354	173.965	150.609	82.099	0.354	0.000
102.0	0.000	0.000	72.629	142.116	168.728	145.230	77.145	0.000	0.000
102.5	0.000	0.000	67.788	136.907	163.066	139.965	72.360	0.000	0.000
103.0	0.000	0.000	62.834	131.557	157.545	134.600	67.434	0.000	0.000
103.5	0.000	0.000	57.851	126.178	152.166	129.193	62.508	0.000	0.000
104.0	0.000	0.000	52.968	120.870	146.646	123.913	57.512	0.000	0.000
104.5	0.000	0.000	48.014	115.561	141.196	118.492	52.416	0.000	0.000
105.0	0.000	0.000	42.875	110.239	135.562	113.127	47.405	0.000	0.000
105.5	0.000	0.000	37.865	104.804	130.099	107.720	42.323	0.000	0.000
106.0	0.000	0.000	32.684	99.311	124.507	102.270	37.086	0.000	0.000
106.5	0.000	0.000	27.602	93.975	118.874	96.778	31.863	0.000	0.000
107.0	0.000	0.000	22.535	88.356	113.212	91.314	26.640	0.000	0.000
107.5	0.000	0.000	17.255	82.821	107.436	85.709	21.346	0.000	0.000
108.0	0.000	0.000	12.244	77.329	101.859	80.089	16.207	0.000	0.000
108.5	0.000	0.000	7.474	71.653	96.098	74.427	11.466	0.000	0.000
109.0	0.000	0.000	3.864	66.019	90.351	68.765	7.502	0.000	0.000
109.5	0.000	0.000	1.727	60.314	84.548	62.976	4.204	0.000	0.000
110.0	0.000	0.000	0.651	54.624	78.702	57.158	2.109	0.000	0.000
110.5	0.000	0.000	0.113	48.722	72.757	51.241	0.878	0.000	0.000

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CANDELA TABULATION - (Cont.)

111.0	0.000	0.000	0.000	42.861	66.741	45.423	0.113	0.000	0.000
111.5	0.000	0.000	0.000	36.930	60.838	39.478	0.000	0.000	0.000
112.0	0.000	0.000	0.000	30.900	54.851	33.448	0.000	0.000	0.000
112.5	0.000	0.000	0.000	24.955	48.736	27.489	0.000	0.000	0.000
113.0	0.000	0.000	0.000	19.024	42.649	21.558	0.000	0.000	0.000
113.5	0.000	0.000	0.000	13.518	36.364	15.981	0.000	0.000	0.000
114.0	0.000	0.000	0.000	8.762	30.108	11.310	0.000	0.000	0.000
114.5	0.000	0.000	0.000	4.940	23.993	7.134	0.000	0.000	0.000
115.0	0.000	0.000	0.000	2.548	18.048	4.006	0.000	0.000	0.000
115.5	0.000	0.000	0.000	1.231	12.839	2.293	0.000	0.000	0.000
116.0	0.000	0.000	0.000	0.425	8.309	1.062	0.000	0.000	0.000
116.5	0.000	0.000	0.000	0.000	4.671	0.156	0.000	0.000	0.000
117.0	0.000	0.000	0.000	0.000	2.605	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	1.302	0.000	0.000	0.000	0.000
118.0	0.000	0.000	0.000	0.000	0.340	0.000	0.000	0.000	0.000
118.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
119.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
119.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
121.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
121.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
123.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
123.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
124.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
124.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
126.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
126.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
128.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
128.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
129.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
129.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
131.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
131.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
133.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
133.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
134.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
134.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
136.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
136.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
138.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
138.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

139.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
139.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
141.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
141.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
143.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
143.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
144.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
144.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
146.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
146.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
148.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
148.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
149.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
149.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
151.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
151.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
153.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
153.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
154.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
154.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
156.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
156.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
158.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
158.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
159.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
159.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
161.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
161.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
163.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
163.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
164.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
164.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
166.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
166.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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167.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
168.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
168.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
169.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
169.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
171.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
171.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
173.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
173.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
174.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
174.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
176.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
176.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
178.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
178.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
179.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
179.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : TCMLL48M-40.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	409.80	N.A.	10.40
0-30	872.57	N.A.	22.10
0-40	1439.03	N.A.	36.50
0-60	2616.87	N.A.	66.40
0-80	3481.92	N.A.	88.40
0-90	3730.34	N.A.	94.70
10-90	3624.46	N.A.	92.00
20-40	1029.23	N.A.	26.10
20-50	1633.12	N.A.	41.40
40-70	1668.84	N.A.	42.40
60-80	865.06	N.A.	22.00
70-80	374.05	N.A.	9.50
80-90	248.41	N.A.	6.30
90-110	203.25	N.A.	5.20
90-120	210.10	N.A.	5.30
90-130	210.10	N.A.	5.30
90-150	210.10	N.A.	5.30
90-180	210.10	N.A.	5.30
110-180	6.85	N.A.	0.20
0-180	3940.44	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	105.88
10-20	303.92
20-30	462.77
30-40	566.47
40-50	603.88
50-60	573.95
60-70	491.01
70-80	374.05
80-90	248.41
90-100	143.66
100-110	59.60
110-120	6.85
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

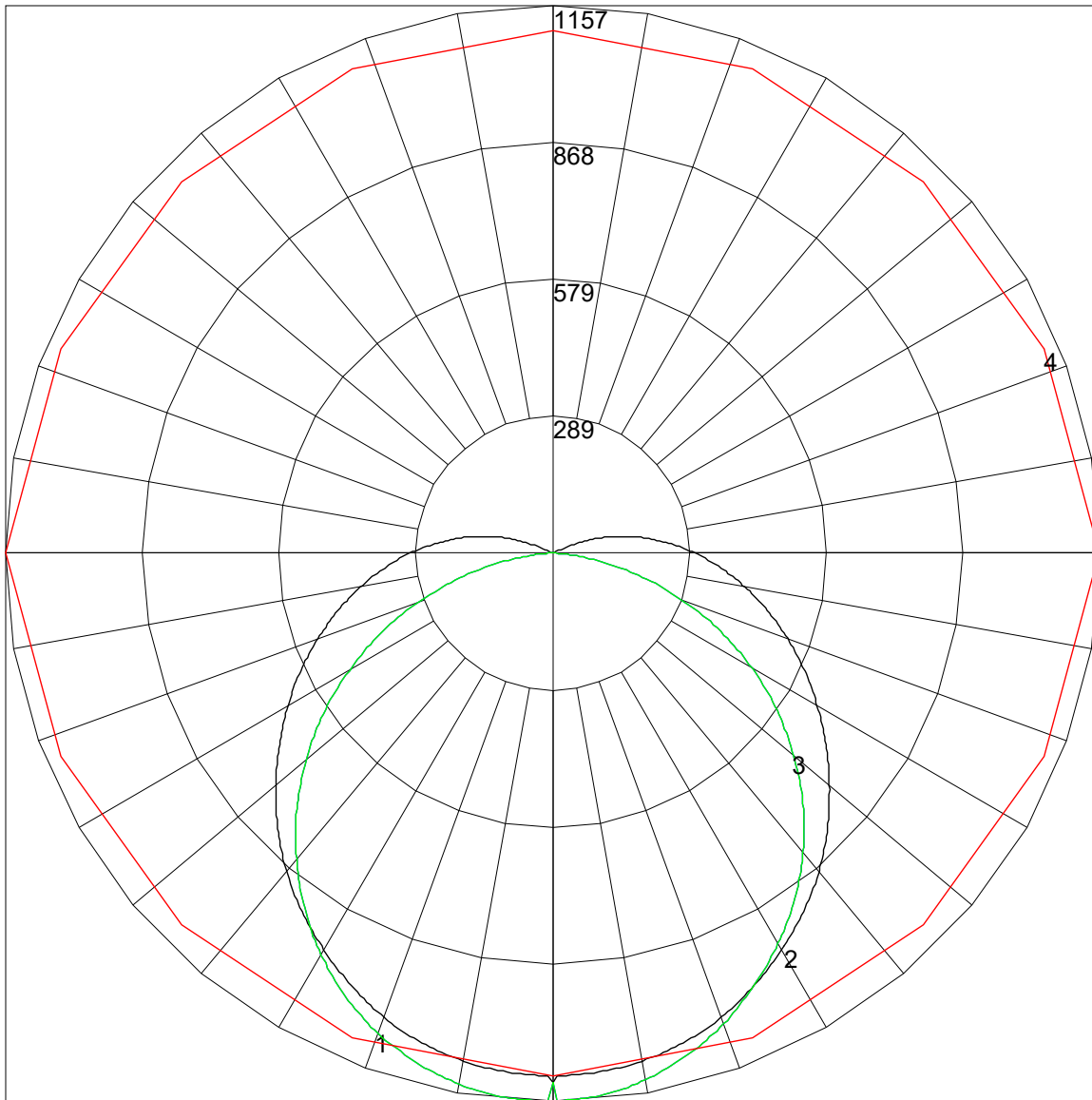
IES INDOOR REPORT
PHOTOMETRIC FILENAME : TCMLL48M-40.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	95
1	105	99	94	90	102	97	92	88	91	87	84	86	83	80	82	79	77	74
2	95	85	78	71	92	83	76	70	79	73	67	74	69	65	71	66	63	60
3	86	74	65	58	83	72	64	57	69	61	56	65	59	54	62	57	52	50
4	78	66	56	49	76	64	55	48	61	53	47	58	51	46	55	49	45	42
5	72	58	49	42	69	57	48	41	54	46	40	51	45	39	49	43	38	36
6	66	52	43	36	64	51	42	36	49	41	35	46	40	34	44	38	34	31
7	61	47	38	32	59	46	38	31	44	36	31	42	35	30	40	34	30	28
8	57	43	34	28	55	42	34	28	40	33	27	39	32	27	37	31	26	24
9	53	39	31	25	52	39	31	25	37	30	25	36	29	24	34	28	24	22
10	50	36	28	23	48	36	28	23	34	27	22	33	27	22	32	26	22	20

POLAR GRAPH



Maximum Candela = 1157.171 Located At Horizontal Angle = 180, Vertical Angle = 1

1 - Vertical Plane Through Horizontal Angles (180 - 0) (Through Max. Cd.)

2 - Vertical Plane Through Horizontal Angles (90 - 270)

3 - Vertical Plane Through Horizontal Angles (0 - 180)

4 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)