



IES INDOOR REPORT
PHOTOMETRIC FILENAME : TCMLL48L-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 11890707.03P6
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 8/15/2017
 [MANUFAC] Lamar Lighting Co Inc
 [LUMCAT] TCMLL48L-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, 0.1684 A, 20.21 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	2375
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	20.2
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	14177	10866	10513
55	13432	9837	9727
65	12196	8870	9092
75	9767	8057	8580
85	4047	7314	8240

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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	674.192	674.192	674.192	674.192	674.192	674.192	674.192	674.192	674.192
0.5	697.231	678.459	668.475	667.963	665.489	668.390	668.305	678.629	697.317
1.0	697.146	678.203	668.305	668.134	665.318	668.305	668.561	678.459	697.573
1.5	696.890	677.947	668.049	667.878	665.233	668.219	668.561	678.373	697.573
2.0	696.463	677.691	667.707	667.707	665.062	668.219	668.475	678.459	697.317
2.5	695.951	677.350	667.366	667.366	664.977	668.134	668.219	678.288	697.146
3.0	695.695	676.838	666.854	666.854	664.891	667.793	667.963	677.947	696.719
3.5	695.013	676.326	666.342	666.683	664.465	667.622	667.622	677.520	696.719
4.0	694.416	675.643	665.830	666.257	664.123	667.366	667.366	677.094	696.293
4.5	693.904	675.046	665.403	665.745	663.782	667.025	666.939	676.667	696.037
5.0	692.794	674.278	664.721	665.233	663.441	666.598	666.513	676.070	695.269
5.5	692.197	673.680	664.123	664.806	662.929	666.086	665.830	675.558	695.013
6.0	691.258	672.656	663.355	664.038	662.417	665.574	665.403	674.960	694.074
6.5	690.320	671.888	662.502	663.526	662.075	664.806	664.721	674.192	693.562
7.0	689.296	670.779	661.905	662.929	661.393	664.294	664.209	673.424	692.965
7.5	688.272	669.926	661.137	662.075	660.796	663.526	663.441	672.656	692.026
8.0	687.162	668.817	660.028	661.478	660.113	662.843	662.758	671.888	691.173
8.5	685.541	667.622	659.260	660.710	659.345	662.075	661.990	670.864	689.893
9.0	684.432	666.427	658.321	659.601	658.662	661.222	661.307	669.670	688.954
9.5	682.640	665.062	657.212	658.918	657.553	660.625	660.540	668.731	688.016
10.0	681.189	663.867	656.188	657.980	656.614	659.857	659.516	667.707	686.565
10.5	679.483	662.417	654.993	656.956	655.761	659.004	658.662	666.513	685.200
11.0	677.862	661.137	653.798	655.932	654.822	657.809	657.553	665.233	684.176
11.5	676.070	659.857	652.518	654.908	653.628	656.785	656.188	663.697	682.896
12.0	673.936	658.236	651.239	653.628	652.689	655.590	655.078	662.331	681.445
12.5	672.144	656.444	649.788	652.518	651.409	654.396	653.884	660.966	679.824
13.0	669.755	654.822	648.337	651.153	650.300	653.116	652.348	659.430	678.203
13.5	668.134	653.030	646.801	649.959	649.191	651.921	650.897	657.894	676.582
14.0	665.915	651.068	645.180	648.593	648.081	650.385	649.447	655.932	674.960
14.5	663.782	649.276	643.559	647.228	646.545	648.935	647.825	654.140	673.254
15.0	661.819	647.399	641.852	645.692	645.265	647.484	646.460	652.177	671.376
15.5	659.857	645.351	640.060	644.156	643.900	646.033	644.583	650.300	669.584
16.0	657.553	643.218	638.268	642.535	642.450	644.583	642.876	648.167	667.793
16.5	655.334	641.170	636.562	640.828	641.170	643.047	640.914	646.204	665.745
17.0	652.860	639.036	634.599	639.122	639.719	641.340	638.866	643.985	663.697
17.5	650.641	636.732	632.637	637.330	638.098	639.804	636.732	641.767	661.905
18.0	647.996	634.599	630.503	635.452	636.306	638.098	634.685	639.548	660.028
18.5	645.521	632.295	628.626	633.575	634.514	636.306	632.551	637.159	657.894
19.0	643.132	629.821	626.493	631.442	632.807	634.258	630.247	634.770	655.590
19.5	640.402	627.517	624.360	629.479	631.015	632.295	627.943	632.551	653.286
20.0	637.586	624.957	622.056	627.517	628.967	630.333	625.810	630.077	650.897
20.5	635.026	622.482	620.008	625.384	626.834	628.114	623.506	627.602	648.508
21.0	632.210	620.008	617.704	623.336	624.786	625.896	621.288	625.128	645.948
21.5	629.309	617.363	615.656	621.288	622.909	623.677	618.984	622.653	643.218
22.0	626.237	614.632	613.267	619.154	620.690	621.288	616.680	620.264	640.572
22.5	623.336	612.072	610.792	616.936	618.642	618.984	614.461	617.533	638.012
23.0	620.264	609.256	608.574	614.888	616.509	616.765	612.157	614.973	634.941
23.5	617.107	606.440	606.099	612.669	614.376	614.632	609.683	612.243	632.466
24.0	613.949	603.624	603.710	610.365	611.987	612.243	607.379	609.598	629.565
24.5	610.963	600.723	601.235	608.232	609.853	609.853	604.990	606.782	626.578
25.0	607.635	597.651	598.761	605.843	607.720	607.720	602.515	604.136	623.506
25.5	604.478	594.750	596.115	603.454	605.246	605.416	600.126	601.406	620.434
26.0	601.150	591.764	593.641	600.809	603.112	603.198	597.395	598.505	617.277
26.5	597.907	588.692	590.825	598.334	600.553	600.809	594.921	595.603	614.291

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CANDELA TABULATION - (Cont.)

27.0	594.494	585.620	587.924	595.689	598.505	598.505	592.276	592.702	611.048
27.5	591.252	582.292	585.278	593.214	596.115	596.030	589.716	589.886	607.550
28.0	588.009	579.220	582.207	590.569	593.641	593.385	586.900	586.985	604.222
28.5	584.596	575.892	579.220	587.753	591.252	590.825	584.084	583.999	600.809
29.0	581.183	572.650	576.319	585.022	588.606	588.180	581.439	580.841	597.310
29.5	577.769	569.236	573.162	582.292	585.961	585.449	578.623	577.855	593.726
30.0	574.356	566.079	570.175	579.476	583.572	582.719	575.892	574.527	590.313
30.5	570.858	562.581	567.274	576.745	580.927	580.073	573.076	571.370	586.729
31.0	567.359	559.082	564.117	574.015	578.367	577.428	570.260	568.127	583.060
31.5	563.946	555.498	560.959	571.199	575.721	574.783	567.359	564.799	579.220
32.0	560.277	552.000	557.888	568.298	573.162	571.967	564.629	561.301	575.636
32.5	556.608	548.416	554.901	565.738	570.516	569.236	561.557	557.888	571.796
33.0	553.024	544.832	551.744	562.922	567.871	566.506	558.570	554.304	567.871
33.5	549.525	541.163	548.587	560.021	565.397	563.861	555.584	550.720	563.775
34.0	545.429	537.494	545.429	557.120	562.666	561.045	552.597	547.136	559.850
34.5	541.675	533.910	542.272	554.218	560.106	558.400	549.355	543.552	555.754
35.0	537.835	530.070	539.200	551.488	557.376	555.498	546.368	539.712	551.573
35.5	533.654	526.401	535.787	548.587	554.730	552.682	543.125	536.128	547.648
36.0	529.985	522.476	532.459	545.771	552.000	549.867	539.712	532.374	543.381
36.5	525.889	518.636	529.131	542.784	549.184	546.880	536.470	528.619	539.030
37.0	521.708	514.881	525.718	539.883	546.283	543.979	533.227	524.779	534.678
37.5	517.526	510.871	522.390	536.896	543.467	540.907	529.729	520.854	530.667
38.0	513.687	506.946	518.977	533.824	540.566	537.750	526.230	517.100	526.059
38.5	509.420	503.020	515.479	530.667	537.664	534.592	522.732	513.260	521.708
39.0	505.324	498.924	511.980	527.595	534.592	531.350	519.148	509.164	517.270
39.5	501.228	494.914	508.481	524.438	531.521	528.193	515.479	505.239	512.748
40.0	496.962	490.818	504.898	521.196	528.449	524.865	511.895	501.143	508.311
40.5	492.781	486.808	501.228	517.697	525.291	521.537	508.311	497.047	503.788
41.0	488.514	482.712	497.474	514.540	522.305	518.124	504.556	493.037	499.266
41.5	484.077	478.616	493.805	511.212	518.977	514.796	500.631	488.770	494.658
42.0	479.640	474.264	489.880	507.713	515.820	511.297	496.791	484.589	489.965
42.5	475.288	470.083	485.954	504.300	512.407	507.713	492.951	480.408	485.272
43.0	470.680	465.731	482.114	500.802	509.164	504.215	488.941	475.971	480.579
43.5	466.158	461.209	478.189	497.389	505.751	500.716	485.016	471.704	475.715
44.0	461.294	456.771	474.093	493.805	502.338	497.133	481.091	467.096	470.766
44.5	456.601	452.249	469.998	490.306	499.010	493.634	476.995	462.830	466.243
45.0	451.652	447.726	465.902	486.722	495.511	490.136	472.814	458.137	461.294
45.5	446.788	443.204	461.806	483.138	492.098	486.552	468.888	453.614	456.174
46.0	441.924	438.511	457.710	479.640	488.685	482.968	464.792	449.006	451.225
46.5	436.719	433.818	453.614	475.971	485.101	479.213	460.526	444.313	446.191
47.0	431.855	429.125	449.433	472.302	481.603	475.800	456.515	439.620	441.241
47.5	426.735	424.517	445.252	468.803	478.189	472.216	452.334	435.098	436.207
48.0	421.701	419.909	440.985	465.134	474.605	468.718	448.153	430.234	431.087
48.5	416.666	415.130	436.890	461.465	471.192	465.134	444.057	425.541	425.967
49.0	411.461	410.437	432.538	457.966	467.608	461.465	439.876	420.762	420.677
49.5	406.512	405.573	428.357	454.212	464.281	457.881	435.610	416.069	415.642
50.0	401.392	400.795	424.261	450.628	460.611	454.126	431.428	411.205	410.352
50.5	396.187	396.017	419.909	446.788	457.283	450.542	427.247	406.512	405.061
51.0	391.153	391.153	415.642	443.204	453.700	446.873	422.981	401.648	399.771
51.5	386.118	386.460	411.461	439.449	450.116	443.119	418.800	396.870	394.566
52.0	380.913	381.510	407.109	435.610	446.617	439.449	414.533	392.091	389.275
52.5	375.793	376.647	402.843	431.940	443.033	435.610	410.352	387.228	384.070
53.0	370.588	371.868	398.747	428.186	439.620	431.940	406.085	382.193	378.695
53.5	365.468	367.090	394.395	424.346	436.036	428.101	401.904	377.415	373.233
54.0	360.093	362.055	390.129	420.677	432.452	424.261	397.467	372.551	367.943
54.5	354.887	357.191	385.862	416.837	428.869	420.506	393.371	367.516	362.396

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CANDELA TABULATION - (Cont.)

55.0	349.512	352.157	381.510	412.997	425.285	416.752	389.105	362.567	356.850
55.5	344.051	347.208	377.329	409.243	421.616	412.997	384.838	357.618	351.304
56.0	338.675	342.259	372.892	405.403	417.946	409.328	380.572	352.669	345.757
56.5	333.128	337.224	368.626	401.648	414.533	405.573	376.305	347.549	340.125
57.0	327.582	332.275	364.359	397.808	410.949	401.904	372.039	342.600	334.494
57.5	321.950	327.241	359.837	394.139	407.365	398.150	367.858	337.480	328.691
58.0	316.574	322.121	355.570	390.385	403.867	394.481	363.676	332.531	322.974
58.5	310.772	317.086	351.218	386.716	400.283	390.726	359.325	327.326	317.257
59.0	305.225	311.966	346.952	382.876	396.870	386.972	355.143	322.291	311.284
59.5	299.423	307.017	342.685	379.121	393.286	383.388	350.792	317.257	305.481
60.0	293.877	301.898	338.333	375.537	389.873	379.718	346.610	312.052	299.764
60.5	288.074	296.948	334.152	371.868	386.289	375.964	342.344	306.847	293.962
61.0	282.528	291.914	329.971	368.199	382.876	372.295	338.163	301.812	288.330
61.5	276.811	286.879	325.875	364.530	379.292	368.626	333.896	296.522	282.613
62.0	271.179	281.760	321.694	360.861	375.793	364.871	329.630	291.573	276.981
62.5	265.462	276.811	317.598	357.191	372.380	361.031	325.363	286.367	271.264
63.0	259.659	271.776	313.417	353.608	368.796	357.362	321.097	281.162	265.632
63.5	253.942	266.827	309.407	349.853	365.298	353.693	316.745	275.957	259.915
64.0	248.140	261.792	305.396	346.269	361.714	350.024	312.478	270.837	254.198
64.5	242.337	256.929	301.386	342.600	358.045	346.184	308.212	265.632	248.481
65.0	236.535	251.809	297.290	338.845	354.375	342.515	304.116	260.598	242.764
65.5	230.732	246.860	293.194	335.262	350.877	338.675	300.020	255.478	236.961
66.0	224.759	241.911	289.354	331.592	347.293	334.920	295.924	250.358	231.244
66.5	218.786	237.047	285.344	327.923	343.795	331.336	291.829	245.324	225.271
67.0	212.898	232.098	281.418	324.254	340.211	327.497	287.903	240.375	219.383
67.5	207.011	227.063	277.578	320.585	336.627	323.913	283.978	235.340	213.325
68.0	201.037	222.199	273.653	316.916	333.043	320.158	280.138	230.391	207.352
68.5	195.064	217.250	269.813	313.246	329.374	316.574	276.299	225.271	201.208
69.0	189.091	212.386	265.888	309.577	325.961	312.990	272.544	220.322	195.150
69.5	183.289	207.523	262.048	305.908	322.291	309.321	268.704	215.373	189.006
70.0	177.401	202.659	258.123	302.324	318.878	305.737	264.779	210.424	182.862
70.5	171.513	197.795	254.198	298.655	315.294	302.068	260.854	205.560	176.718
71.0	165.455	193.016	250.358	295.071	311.710	298.484	256.929	200.611	170.660
71.5	159.567	188.238	246.433	291.402	308.212	294.900	252.918	195.747	164.516
72.0	153.765	183.630	242.593	287.647	304.713	291.231	248.908	190.883	158.628
72.5	147.962	178.937	238.583	284.064	301.130	287.647	244.982	186.019	152.485
73.0	142.074	174.329	234.828	280.480	297.631	283.893	240.887	181.326	146.597
73.5	136.187	169.721	230.903	276.896	294.047	280.309	236.876	176.548	140.709
74.0	130.470	165.284	226.978	273.141	290.549	276.640	233.036	171.940	134.821
74.5	124.752	160.932	223.223	269.557	287.050	272.971	229.026	167.332	129.019
75.0	118.950	156.581	219.383	265.974	283.552	269.216	225.101	162.895	123.131
75.5	113.233	152.399	215.544	262.390	280.138	265.718	221.175	158.372	117.329
76.0	107.601	148.218	211.789	258.806	276.640	262.134	217.250	154.106	111.612
76.5	101.884	144.037	208.035	255.222	273.056	258.379	213.410	149.925	105.895
77.0	96.252	140.027	204.280	251.638	269.643	254.795	209.570	145.744	100.263
77.5	90.535	136.101	200.525	248.140	266.144	251.212	205.816	141.648	94.631
78.0	84.886	132.176	196.856	244.641	262.731	247.713	201.976	137.723	88.914
78.5	79.382	128.251	193.102	241.143	259.233	244.129	198.307	133.797	83.299
79.0	74.066	124.326	189.518	237.644	255.819	240.631	194.552	129.872	77.821
79.5	68.631	120.315	185.849	234.146	252.406	237.047	190.883	125.776	72.522
80.0	63.409	116.219	182.180	230.818	248.993	233.548	187.299	121.766	67.121
80.5	58.161	112.209	178.596	227.234	245.580	230.050	183.630	117.670	61.830
81.0	53.092	108.198	175.097	223.821	242.252	226.636	180.046	113.660	56.762
81.5	48.203	104.273	171.513	220.407	238.839	223.138	176.462	109.564	51.736
82.0	43.501	100.348	167.929	216.909	235.511	219.725	172.964	105.553	46.889
82.5	38.825	96.508	164.431	213.410	232.012	216.226	169.380	101.713	42.221

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CANDELA TABULATION - (Cont.)

83.0	34.397	92.754	160.932	210.082	228.770	212.728	165.796	97.874	37.511
83.5	30.113	89.085	157.434	206.755	225.357	209.400	162.298	93.948	33.159
84.0	25.974	85.501	154.021	203.256	222.029	205.987	158.799	90.279	28.884
84.5	22.237	81.925	150.522	199.928	218.615	202.573	155.301	86.695	24.942
85.0	18.585	78.495	147.109	196.515	215.202	199.160	151.887	83.146	21.179
85.5	15.138	75.116	143.781	193.102	211.789	195.747	148.389	79.647	17.595
86.0	11.955	71.839	140.453	189.689	208.461	192.334	144.976	76.302	14.259
86.5	9.156	68.657	137.125	186.361	205.133	188.921	141.477	72.966	11.221
87.0	6.605	65.525	133.712	183.033	201.720	185.593	138.149	69.698	8.448
87.5	4.420	62.376	130.299	179.705	198.307	182.180	134.736	66.498	5.999
88.0	2.611	59.347	127.056	176.206	194.894	178.852	131.323	63.340	3.917
88.5	1.229	56.395	123.728	172.793	191.481	175.353	127.995	60.234	2.261
89.0	0.213	53.587	120.486	169.465	188.067	171.855	124.582	57.265	0.981
89.5	0.000	50.720	117.414	166.308	184.654	168.612	121.339	54.364	0.068
90.0	0.000	48.118	114.342	162.980	181.241	165.284	118.182	51.625	0.000
90.5	0.000	45.566	111.270	159.738	178.084	162.042	115.110	48.928	0.000
91.0	0.000	42.964	108.028	156.495	174.671	158.799	112.038	46.240	0.000
91.5	0.000	40.404	104.956	153.253	171.343	155.471	108.881	43.604	0.000
92.0	0.000	37.946	101.884	149.925	168.015	152.229	105.724	41.061	0.000
92.5	0.000	35.531	98.812	146.597	164.602	148.816	102.652	38.526	0.000
93.0	0.000	33.185	95.826	143.354	161.188	145.488	99.580	36.078	0.000
93.5	0.000	30.855	92.754	140.027	157.946	142.245	96.508	33.731	0.000
94.0	0.000	28.603	89.852	136.699	154.533	138.917	93.522	31.367	0.000
94.5	0.000	26.290	86.866	133.456	151.205	135.675	90.450	29.046	0.000
95.0	0.000	24.063	83.939	130.214	147.792	132.347	87.549	26.759	0.000
95.5	0.000	21.879	81.021	126.886	144.464	129.190	84.588	24.507	0.000
96.0	0.000	19.626	78.154	123.728	141.136	125.947	81.644	22.237	0.000
96.5	0.000	17.441	75.270	120.486	137.808	122.790	78.708	19.907	0.000
97.0	0.000	15.248	72.496	117.329	134.480	119.547	75.756	17.689	0.000
97.5	0.000	13.055	69.604	114.257	131.152	116.305	72.804	15.428	0.000
98.0	0.000	10.794	66.762	111.014	127.824	113.148	69.885	13.149	0.000
98.5	0.000	8.559	63.895	107.857	124.582	109.990	67.027	10.854	0.000
99.0	0.000	6.323	61.113	104.700	121.339	106.748	64.108	8.584	0.000
99.5	0.000	4.104	58.212	101.543	118.011	103.505	61.199	6.280	0.000
100.0	0.000	2.056	55.345	98.385	114.684	100.348	58.221	4.062	0.000
100.5	0.000	0.538	52.461	95.228	111.526	97.191	55.337	2.244	0.000
101.0	0.000	0.000	49.619	92.071	108.198	94.034	52.393	0.862	0.000
101.5	0.000	0.000	46.727	88.829	104.871	90.791	49.491	0.213	0.000
102.0	0.000	0.000	43.783	85.671	101.713	87.549	46.505	0.000	0.000
102.5	0.000	0.000	40.865	82.531	98.300	84.374	43.621	0.000	0.000
103.0	0.000	0.000	37.878	79.306	94.972	81.140	40.651	0.000	0.000
103.5	0.000	0.000	34.874	76.063	91.730	77.881	37.682	0.000	0.000
104.0	0.000	0.000	31.930	72.863	88.402	74.698	34.670	0.000	0.000
104.5	0.000	0.000	28.944	69.663	85.117	71.430	31.598	0.000	0.000
105.0	0.000	0.000	25.846	66.455	81.721	68.196	28.577	0.000	0.000
105.5	0.000	0.000	22.826	63.178	78.427	64.936	25.514	0.000	0.000
106.0	0.000	0.000	19.703	59.868	75.056	61.651	22.356	0.000	0.000
106.5	0.000	0.000	16.639	56.651	71.660	58.340	19.208	0.000	0.000
107.0	0.000	0.000	13.585	53.263	68.247	55.046	16.059	0.000	0.000
107.5	0.000	0.000	10.402	49.927	64.765	51.667	12.868	0.000	0.000
108.0	0.000	0.000	7.381	46.616	61.403	48.280	9.770	0.000	0.000
108.5	0.000	0.000	4.505	43.194	57.931	44.867	6.912	0.000	0.000
109.0	0.000	0.000	2.330	39.798	54.466	41.453	4.522	0.000	0.000
109.5	0.000	0.000	1.041	36.359	50.968	37.963	2.534	0.000	0.000
110.0	0.000	0.000	0.393	32.929	47.443	34.456	1.271	0.000	0.000
110.5	0.000	0.000	0.068	29.371	43.860	30.889	0.529	0.000	0.000

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CANDELA TABULATION - (Cont.)

111.0	0.000	0.000	0.000	25.838	40.233	27.382	0.068	0.000	0.000
111.5	0.000	0.000	0.000	22.263	36.675	23.799	0.000	0.000	0.000
112.0	0.000	0.000	0.000	18.628	33.065	20.163	0.000	0.000	0.000
112.5	0.000	0.000	0.000	15.044	29.379	16.571	0.000	0.000	0.000
113.0	0.000	0.000	0.000	11.468	25.710	12.996	0.000	0.000	0.000
113.5	0.000	0.000	0.000	8.149	21.921	9.634	0.000	0.000	0.000
114.0	0.000	0.000	0.000	5.282	18.150	6.818	0.000	0.000	0.000
114.5	0.000	0.000	0.000	2.978	14.463	4.301	0.000	0.000	0.000
115.0	0.000	0.000	0.000	1.536	10.880	2.415	0.000	0.000	0.000
115.5	0.000	0.000	0.000	0.742	7.739	1.382	0.000	0.000	0.000
116.0	0.000	0.000	0.000	0.256	5.009	0.640	0.000	0.000	0.000
116.5	0.000	0.000	0.000	0.000	2.816	0.094	0.000	0.000	0.000
117.0	0.000	0.000	0.000	0.000	1.570	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.785	0.000	0.000	0.000	0.000
118.0	0.000	0.000	0.000	0.000	0.205	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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CANDELA TABULATION - (Cont.)

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

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	247.04	N.A.	10.40
0-30	526.01	N.A.	22.10
0-40	867.49	N.A.	36.50
0-60	1577.52	N.A.	66.40
0-80	2098.99	N.A.	88.40
0-90	2248.74	N.A.	94.70
10-90	2184.92	N.A.	92.00
20-40	620.45	N.A.	26.10
20-50	984.49	N.A.	41.40
40-70	1006.02	N.A.	42.40
60-80	521.48	N.A.	22.00
70-80	225.49	N.A.	9.50
80-90	149.75	N.A.	6.30
90-110	122.53	N.A.	5.20
90-120	126.66	N.A.	5.30
90-130	126.66	N.A.	5.30
90-150	126.66	N.A.	5.30
90-180	126.66	N.A.	5.30
110-180	4.13	N.A.	0.20
0-180	2375.4	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	63.83
10-20	183.21
20-30	278.97
30-40	341.48
40-50	364.04
50-60	345.99
60-70	295.99
70-80	225.49
80-90	149.75
90-100	86.60
100-110	35.93
110-120	4.13
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

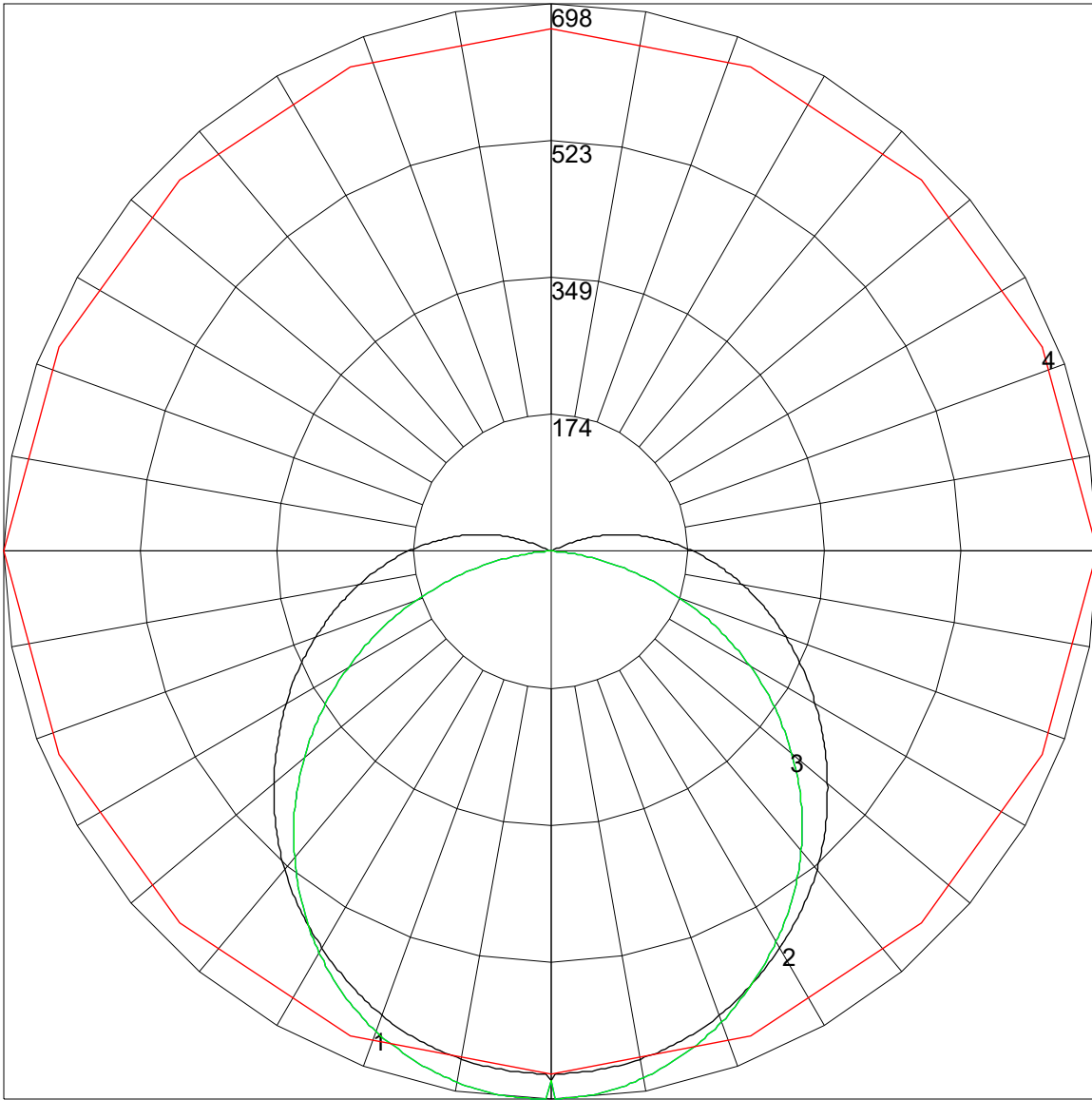
IES INDOOR REPORT
PHOTOMETRIC FILENAME : TCMLL48L-40.IES

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

POLAR GRAPH



Maximum Candela = 697.573 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.)