



IES INDOOR REPORT

PHOTOMETRIC FILENAME : TCMLL48H-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 11890707.03P8
[TESTLAB] UL Verification Services Inc.
[ISSUEDATE] 8/15/2017
[MANUFAC] Lamar Lighting Co Inc
[LUMCAT] TCMLL48H-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, 0.4484A, 53.84 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	5675
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	53.8
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	33870	25961	25115
55	32089	23500	23240
65	29137	21191	21722
75	23335	19249	20498
85	9668	17473	19687

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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	1610.698	1610.698	1610.698	1610.698	1610.698	1610.698	1610.698	1610.698	1610.698
0.5	1665.740	1620.891	1597.039	1595.816	1589.904	1596.835	1596.631	1621.299	1665.944
1.0	1665.536	1620.279	1596.631	1596.224	1589.496	1596.631	1597.243	1620.891	1666.555
1.5	1664.925	1619.668	1596.020	1595.612	1589.293	1596.428	1597.243	1620.687	1666.555
2.0	1663.905	1619.056	1595.204	1595.204	1588.885	1596.428	1597.039	1620.891	1665.944
2.5	1662.682	1618.241	1594.389	1594.389	1588.681	1596.224	1596.428	1620.483	1665.536
3.0	1662.071	1617.017	1593.166	1593.166	1588.477	1595.408	1595.816	1619.668	1664.517
3.5	1660.440	1615.794	1591.943	1592.758	1587.458	1595.001	1595.001	1618.648	1664.517
4.0	1659.013	1614.163	1590.720	1591.739	1586.642	1594.389	1594.389	1617.629	1663.498
4.5	1657.789	1612.736	1589.700	1590.516	1585.827	1593.574	1593.370	1616.610	1662.886
5.0	1655.139	1610.902	1588.069	1589.293	1585.011	1592.554	1592.350	1615.183	1661.051
5.5	1653.712	1609.475	1586.642	1588.273	1583.788	1591.331	1590.720	1613.960	1660.440
6.0	1651.470	1607.028	1584.808	1586.438	1582.565	1590.108	1589.700	1612.533	1658.197
6.5	1649.227	1605.194	1582.769	1585.215	1581.750	1588.273	1588.069	1610.698	1656.974
7.0	1646.781	1602.543	1581.342	1583.788	1580.119	1587.050	1586.846	1608.863	1655.547
7.5	1644.335	1600.505	1579.507	1581.750	1578.692	1585.215	1585.011	1607.028	1653.305
8.0	1641.685	1597.855	1576.857	1580.323	1577.061	1583.584	1583.381	1605.194	1651.266
8.5	1637.811	1595.001	1575.022	1578.488	1575.226	1581.750	1581.546	1602.747	1648.208
9.0	1635.161	1592.147	1572.780	1575.838	1573.595	1579.711	1579.915	1599.893	1645.966
9.5	1630.880	1588.885	1570.130	1574.207	1570.945	1578.284	1578.080	1597.651	1643.723
10.0	1627.414	1586.031	1567.683	1571.964	1568.703	1576.449	1575.634	1595.204	1640.258
10.5	1623.337	1582.565	1564.829	1569.518	1566.664	1574.411	1573.595	1592.350	1636.996
11.0	1619.464	1579.507	1561.975	1567.072	1564.422	1571.557	1570.945	1589.293	1634.549
11.5	1615.183	1576.449	1558.917	1564.625	1561.568	1569.110	1567.683	1585.623	1631.492
12.0	1610.086	1572.576	1555.859	1561.568	1559.325	1566.256	1565.033	1582.361	1628.026
12.5	1605.805	1568.295	1552.394	1558.917	1556.267	1563.402	1562.179	1579.100	1624.153
13.0	1600.097	1564.422	1548.928	1555.656	1553.617	1560.344	1558.510	1575.430	1620.279
13.5	1596.224	1560.141	1545.259	1552.802	1550.967	1557.490	1555.044	1571.761	1616.406
14.0	1590.923	1555.452	1541.385	1549.540	1548.317	1553.821	1551.578	1567.072	1612.533
14.5	1585.827	1551.171	1537.512	1546.278	1544.647	1550.355	1547.705	1562.791	1608.455
15.0	1581.138	1546.686	1533.435	1542.609	1541.589	1546.890	1544.443	1558.102	1603.970
15.5	1576.449	1541.793	1529.154	1538.939	1538.328	1543.424	1539.958	1553.617	1599.689
16.0	1570.945	1536.697	1524.873	1535.066	1534.862	1539.958	1535.881	1548.521	1595.408
16.5	1565.645	1531.804	1520.796	1530.989	1531.804	1536.289	1531.192	1543.832	1590.516
17.0	1559.733	1526.708	1516.107	1526.911	1528.338	1532.212	1526.300	1538.531	1585.623
17.5	1554.432	1521.203	1511.418	1522.630	1524.465	1528.542	1521.203	1533.231	1581.342
18.0	1548.113	1516.107	1506.322	1518.145	1520.184	1524.465	1516.311	1527.931	1576.857
18.5	1542.201	1510.603	1501.837	1513.660	1515.903	1520.184	1511.214	1522.223	1571.761
19.0	1536.493	1504.691	1496.740	1508.564	1511.826	1515.291	1505.710	1516.515	1566.256
19.5	1529.969	1499.186	1491.644	1503.875	1507.545	1510.603	1500.206	1511.214	1560.752
20.0	1523.242	1493.071	1486.139	1499.186	1502.652	1505.914	1495.109	1505.302	1555.044
20.5	1517.126	1487.159	1481.247	1494.090	1497.556	1500.613	1489.605	1499.390	1549.336
21.0	1510.399	1481.247	1475.743	1489.197	1492.663	1495.313	1484.305	1493.478	1543.220
21.5	1503.467	1474.927	1470.850	1484.305	1488.178	1490.013	1478.800	1487.566	1536.697
22.0	1496.129	1468.404	1465.142	1479.208	1482.878	1484.305	1473.296	1481.858	1530.377
22.5	1489.197	1462.288	1459.230	1473.908	1477.985	1478.800	1467.996	1475.335	1524.261
23.0	1481.858	1455.560	1453.929	1469.015	1472.888	1473.500	1462.492	1469.219	1516.922
23.5	1474.315	1448.833	1448.018	1463.715	1467.792	1468.404	1456.580	1462.695	1511.010
24.0	1466.773	1442.106	1442.309	1458.211	1462.084	1462.695	1451.075	1456.376	1504.079
24.5	1459.638	1435.174	1436.398	1453.114	1456.987	1456.987	1445.367	1449.648	1496.944
25.0	1451.687	1427.835	1430.486	1447.406	1451.891	1451.891	1439.455	1443.329	1489.605
25.5	1444.144	1420.904	1424.166	1441.698	1445.979	1446.387	1433.747	1436.805	1482.266
26.0	1436.194	1413.769	1418.254	1435.378	1440.882	1441.086	1427.224	1429.874	1474.723
26.5	1428.447	1406.430	1411.527	1429.466	1434.767	1435.378	1421.312	1422.943	1467.588

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27.0	1420.293	1399.091	1404.595	1423.147	1429.874	1429.874	1414.992	1416.012	1459.841
27.5	1412.546	1391.141	1398.276	1417.235	1424.166	1423.962	1408.876	1409.284	1451.483
28.0	1404.799	1383.802	1390.937	1410.915	1418.254	1417.642	1402.149	1402.353	1443.533
28.5	1396.645	1375.851	1383.802	1404.188	1412.546	1411.527	1395.422	1395.218	1435.378
29.0	1388.490	1368.104	1376.870	1397.664	1406.226	1405.207	1389.102	1387.675	1427.020
29.5	1380.336	1359.950	1369.328	1391.141	1399.907	1398.683	1382.375	1380.540	1418.458
30.0	1372.182	1352.407	1362.192	1384.413	1394.199	1392.160	1375.851	1372.589	1410.303
30.5	1363.823	1344.049	1355.261	1377.890	1387.879	1385.840	1369.124	1365.047	1401.741
31.0	1355.465	1335.691	1347.718	1371.366	1381.763	1379.521	1362.396	1357.300	1392.975
31.5	1347.311	1327.129	1340.176	1364.639	1375.443	1373.201	1355.465	1349.349	1383.802
32.0	1338.545	1318.770	1332.837	1357.708	1369.328	1366.474	1348.942	1340.991	1375.240
32.5	1329.779	1310.208	1325.702	1351.592	1363.008	1359.950	1341.603	1332.837	1366.066
33.0	1321.217	1301.646	1318.159	1344.864	1356.688	1353.427	1334.468	1324.275	1356.688
33.5	1312.858	1292.880	1310.616	1337.933	1350.776	1347.107	1327.332	1315.712	1346.903
34.0	1303.073	1284.114	1303.073	1331.002	1344.253	1340.379	1320.197	1307.150	1337.525
34.5	1294.103	1275.552	1295.530	1324.071	1338.137	1334.060	1312.451	1298.588	1327.740
35.0	1284.930	1266.378	1288.191	1317.547	1331.613	1327.129	1305.316	1289.414	1317.751
35.5	1274.940	1257.612	1280.037	1310.616	1325.294	1320.401	1297.569	1280.852	1308.373
36.0	1266.174	1248.235	1272.086	1303.889	1318.770	1313.674	1289.414	1271.883	1298.180
36.5	1256.389	1239.061	1264.136	1296.753	1312.043	1306.539	1281.668	1262.913	1287.784
37.0	1246.400	1230.091	1255.981	1289.822	1305.112	1299.607	1273.921	1253.739	1277.387
37.5	1236.411	1220.510	1248.031	1282.687	1298.384	1292.269	1265.563	1244.361	1267.805
38.0	1227.237	1211.132	1239.877	1275.348	1291.453	1284.726	1257.205	1235.392	1256.797
38.5	1217.044	1201.755	1231.518	1267.805	1284.522	1277.183	1248.846	1226.218	1246.400
39.0	1207.259	1191.969	1223.160	1260.466	1277.183	1269.436	1240.284	1216.433	1235.799
39.5	1197.474	1182.388	1214.802	1252.924	1269.844	1261.893	1231.518	1207.055	1224.995
40.0	1187.281	1172.603	1206.240	1245.177	1262.505	1253.943	1222.956	1197.270	1214.394
40.5	1177.291	1163.021	1197.474	1236.819	1254.962	1245.992	1214.394	1187.484	1203.589
41.0	1167.098	1153.236	1188.504	1229.276	1247.827	1237.838	1205.424	1177.903	1192.785
41.5	1156.498	1143.451	1179.738	1221.325	1239.877	1229.887	1196.047	1167.710	1181.776
42.0	1145.897	1133.054	1170.360	1212.967	1232.334	1221.529	1186.873	1157.721	1170.564
42.5	1135.500	1123.065	1160.983	1204.813	1224.179	1212.967	1177.699	1147.732	1159.352
43.0	1124.492	1112.668	1151.809	1196.454	1216.433	1204.609	1168.118	1137.131	1148.140
43.5	1113.687	1101.863	1142.431	1188.300	1208.278	1196.250	1158.740	1126.938	1136.519
44.0	1102.067	1091.263	1132.646	1179.738	1200.124	1187.688	1149.363	1115.930	1124.696
44.5	1090.855	1080.458	1122.861	1171.380	1192.173	1179.330	1139.577	1105.737	1113.891
45.0	1079.031	1069.653	1113.076	1162.817	1183.815	1170.972	1129.588	1094.524	1102.067
45.5	1067.411	1058.849	1103.290	1154.255	1175.661	1162.410	1120.211	1083.720	1089.836
46.0	1055.791	1047.637	1093.505	1145.897	1167.506	1153.848	1110.425	1072.711	1078.012
46.5	1043.355	1036.424	1083.720	1137.131	1158.944	1144.878	1100.232	1061.499	1065.984
47.0	1031.735	1025.212	1073.731	1128.365	1150.586	1136.723	1090.651	1050.287	1054.160
47.5	1019.504	1014.203	1063.741	1120.007	1142.431	1128.161	1080.662	1039.482	1042.132
48.0	1007.476	1003.195	1053.548	1111.241	1133.869	1119.803	1070.673	1027.862	1029.901
48.5	995.448	991.779	1043.763	1102.475	1125.715	1111.241	1060.887	1016.650	1017.669
49.0	983.013	980.567	1033.366	1094.117	1117.153	1102.475	1050.898	1005.234	1005.030
49.5	971.189	968.947	1023.377	1085.147	1109.202	1093.913	1040.705	994.021	993.002
50.0	958.957	957.530	1013.592	1076.585	1100.436	1084.943	1030.716	982.401	980.363
50.5	946.522	946.114	1003.195	1067.411	1092.486	1076.381	1020.727	971.189	967.723
51.0	934.494	934.494	993.002	1058.849	1083.924	1067.615	1010.534	959.569	955.084
51.5	922.466	923.282	983.013	1049.879	1075.361	1058.645	1000.545	948.153	942.649
52.0	910.031	911.458	972.616	1040.705	1067.003	1049.879	990.352	936.737	930.009
52.5	897.799	899.838	962.423	1031.939	1058.441	1040.705	980.363	925.117	917.574
53.0	885.364	888.422	952.638	1022.969	1050.287	1031.939	970.170	913.089	904.731
53.5	873.132	877.006	942.241	1013.796	1041.725	1022.766	960.181	901.673	891.684
54.0	860.289	864.978	932.048	1005.030	1033.162	1013.592	949.580	890.053	879.044
54.5	847.854	853.358	921.855	995.856	1024.600	1004.622	939.795	878.025	865.793

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55.0	835.011	841.330	911.458	986.682	1016.038	995.652	929.602	866.201	852.543
55.5	821.964	829.506	901.469	977.713	1007.272	986.682	919.409	854.377	839.292
56.0	809.120	817.682	890.868	968.539	998.506	977.916	909.216	842.553	826.041
56.5	795.869	805.655	880.675	959.569	990.352	968.947	899.023	830.322	812.586
57.0	782.619	793.831	870.482	950.395	981.790	960.181	888.830	818.498	799.131
57.5	769.164	781.803	859.678	941.629	973.228	951.211	878.840	806.266	785.269
58.0	756.321	769.571	849.485	932.659	964.869	942.445	868.851	794.442	771.610
58.5	742.458	757.544	839.088	923.894	956.307	933.475	858.454	782.007	757.951
59.0	729.207	745.312	828.895	914.720	948.153	924.505	848.465	769.979	743.681
59.5	715.345	733.488	818.702	905.750	939.591	915.943	838.068	757.951	729.819
60.0	702.094	721.257	808.305	897.188	931.436	907.177	828.079	745.516	716.160
60.5	688.231	709.433	798.316	888.422	922.874	898.207	817.886	733.081	702.298
61.0	674.980	697.405	788.327	879.656	914.720	889.441	807.897	721.053	688.843
61.5	661.322	685.377	778.541	870.890	906.158	880.675	797.704	708.413	675.184
62.0	647.867	673.146	768.552	862.124	897.799	871.705	787.511	696.590	661.730
62.5	634.208	661.322	758.767	853.358	889.645	862.532	777.318	684.154	648.071
63.0	620.346	649.294	748.778	844.796	881.083	853.766	767.125	671.719	634.616
63.5	606.687	637.470	739.196	835.826	872.725	845.000	756.728	659.283	620.958
64.0	592.825	625.442	729.615	827.264	864.163	836.234	746.535	647.052	607.299
64.5	578.962	613.822	720.034	818.498	855.397	827.060	736.342	634.616	593.640
65.0	565.100	601.591	710.248	809.528	846.631	818.294	726.557	622.588	579.982
65.5	551.237	589.767	700.463	800.966	838.272	809.120	716.772	610.357	566.119
66.0	536.967	577.943	691.289	792.200	829.710	800.150	706.986	598.125	552.461
66.5	522.697	566.323	681.708	783.434	821.352	791.588	697.201	586.097	538.190
67.0	508.631	554.499	672.330	774.668	812.790	782.415	687.824	574.274	524.124
67.5	494.564	542.471	663.157	765.902	804.228	773.853	678.446	562.246	509.650
68.0	480.294	530.851	653.779	757.136	795.666	764.883	669.272	550.422	495.380
68.5	466.024	519.028	644.605	748.370	786.900	756.321	660.099	538.190	480.702
69.0	451.754	507.408	635.228	739.604	778.745	747.758	651.129	526.367	466.228
69.5	437.891	495.788	626.054	730.838	769.979	738.992	641.955	514.543	451.550
70.0	423.825	484.167	616.676	722.276	761.825	730.430	632.578	502.719	436.872
70.5	409.759	472.547	607.299	713.510	753.263	721.664	623.200	491.099	422.194
71.0	395.285	461.131	598.125	704.948	744.701	713.102	613.822	479.275	407.720
71.5	381.218	449.715	588.748	696.182	736.342	704.540	604.241	467.655	393.042
72.0	367.356	438.707	579.574	687.212	727.984	695.774	594.660	456.035	378.976
72.5	353.493	427.494	569.993	678.650	719.422	687.212	585.282	444.415	364.298
73.0	339.427	416.486	561.023	670.088	711.064	678.242	575.497	433.202	350.231
73.5	325.361	405.478	551.645	661.526	702.502	669.680	565.915	421.786	336.165
74.0	311.702	394.877	542.268	652.556	694.143	660.914	556.742	410.778	322.099
74.5	298.043	384.480	533.298	643.994	685.785	652.148	547.160	399.769	308.236
75.0	284.181	374.083	524.124	635.432	677.427	643.178	537.783	389.169	294.170
75.5	270.522	364.094	514.950	626.869	669.272	634.820	528.405	378.364	280.307
76.0	257.067	354.105	505.981	618.307	660.914	626.258	519.028	368.171	266.649
76.5	243.409	344.116	497.011	609.745	652.352	617.288	509.854	358.182	252.990
77.0	229.954	334.534	488.041	601.183	644.198	608.726	500.680	348.193	239.535
77.5	216.295	325.157	479.071	592.825	635.839	600.164	491.710	338.408	226.081
78.0	202.800	315.779	470.305	584.467	627.685	591.806	482.537	329.030	212.422
78.5	189.651	306.402	461.335	576.108	619.327	583.243	473.771	319.652	199.008
79.0	176.950	297.024	452.773	567.750	611.172	574.885	464.801	310.275	185.920
79.5	163.965	287.443	444.007	559.392	603.018	566.323	456.035	300.490	173.261
80.0	151.488	277.657	435.241	551.441	594.863	557.965	447.473	290.908	160.356
80.5	138.951	268.076	426.679	542.879	586.709	549.607	438.707	281.123	147.717
81.0	126.842	258.494	418.321	534.725	578.759	541.452	430.145	271.542	135.608
81.5	115.161	249.117	409.759	526.570	570.604	533.094	421.582	261.756	123.600
82.0	103.928	239.739	401.196	518.212	562.654	524.939	413.224	252.175	112.021
82.5	92.756	230.566	392.838	509.854	554.295	516.581	404.662	243.001	100.870

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83.0	82.176	221.596	384.480	501.903	546.549	508.223	396.100	233.827	89.617
83.5	71.942	212.830	376.122	493.953	538.394	500.272	387.742	224.450	79.220
84.0	62.055	204.268	367.967	485.595	530.444	492.118	379.383	215.684	69.007
84.5	53.126	195.726	359.609	477.644	522.289	483.964	371.025	207.122	59.588
85.0	44.401	187.531	351.455	469.490	514.135	475.809	362.871	198.641	50.598
85.5	36.165	179.458	343.504	461.335	505.981	467.655	354.513	190.283	42.036
86.0	28.561	171.630	335.554	453.181	498.030	459.500	346.358	182.292	34.065
86.5	21.874	164.026	327.603	445.230	490.079	451.346	338.000	174.321	26.808
87.0	15.779	156.544	319.449	437.280	481.925	443.395	330.049	166.513	20.182
87.5	10.560	149.022	311.294	429.329	473.771	435.241	321.895	158.868	14.331
88.0	6.238	141.785	303.548	420.971	465.616	427.291	313.741	151.325	9.357
88.5	2.936	134.731	295.597	412.816	457.462	418.932	305.790	143.905	5.402
89.0	0.510	128.024	287.850	404.866	449.307	410.574	297.636	136.810	2.344
89.5	0.000	121.174	280.511	397.323	441.153	402.827	289.889	129.879	0.163
90.0	0.000	114.957	273.172	389.373	432.999	394.877	282.346	123.335	0.000
90.5	0.000	108.861	265.833	381.626	425.456	387.130	275.007	116.893	0.000
91.0	0.000	102.644	258.087	373.879	417.301	379.383	267.668	110.472	0.000
91.5	0.000	96.528	250.748	366.133	409.351	371.433	260.125	104.172	0.000
92.0	0.000	90.657	243.409	358.182	401.400	363.686	252.583	98.097	0.000
92.5	0.000	84.887	236.070	350.231	393.246	355.532	245.244	92.043	0.000
93.0	0.000	79.281	228.935	342.485	385.092	347.581	237.905	86.192	0.000
93.5	0.000	73.716	221.596	334.534	377.345	339.835	230.566	80.586	0.000
94.0	0.000	68.334	214.665	326.584	369.190	331.884	223.431	74.939	0.000
94.5	0.000	62.809	207.529	318.837	361.240	324.137	216.092	69.394	0.000
95.0	0.000	57.489	200.537	311.090	353.086	316.187	209.160	63.930	0.000
95.5	0.000	52.270	193.565	303.140	345.135	308.644	202.086	58.549	0.000
96.0	0.000	46.888	186.715	295.597	337.184	300.897	195.053	53.126	0.000
96.5	0.000	41.669	179.825	287.850	329.234	293.355	188.040	47.561	0.000
97.0	0.000	36.430	173.199	280.307	321.283	285.608	180.987	42.260	0.000
97.5	0.000	31.191	166.289	272.969	313.333	277.861	173.933	36.858	0.000
98.0	0.000	25.788	159.500	265.222	305.382	270.318	166.961	31.415	0.000
98.5	0.000	20.447	152.650	257.679	297.636	262.776	160.132	25.931	0.000
99.0	0.000	15.106	146.005	250.136	289.889	255.029	153.160	20.508	0.000
99.5	0.000	9.806	139.073	242.593	281.938	247.282	146.208	15.004	0.000
100.0	0.000	4.913	132.224	235.051	273.988	239.739	139.094	9.704	0.000
100.5	0.000	1.284	125.333	227.508	266.445	232.197	132.203	5.362	0.000
101.0	0.000	0.000	118.545	219.965	258.494	224.654	125.170	2.059	0.000
101.5	0.000	0.000	111.634	212.218	250.544	216.907	118.239	0.510	0.000
102.0	0.000	0.000	104.601	204.675	243.001	209.160	111.104	0.000	0.000
102.5	0.000	0.000	97.629	197.173	234.847	201.577	104.213	0.000	0.000
103.0	0.000	0.000	90.493	189.467	226.896	193.850	97.119	0.000	0.000
103.5	0.000	0.000	83.318	181.721	219.149	186.063	90.025	0.000	0.000
104.0	0.000	0.000	76.284	174.076	211.199	178.459	82.828	0.000	0.000
104.5	0.000	0.000	69.149	166.431	203.350	170.651	75.489	0.000	0.000
105.0	0.000	0.000	61.749	158.766	195.237	162.925	68.273	0.000	0.000
105.5	0.000	0.000	54.533	150.938	187.368	155.137	60.954	0.000	0.000
106.0	0.000	0.000	47.071	143.028	179.315	147.289	53.411	0.000	0.000
106.5	0.000	0.000	39.753	135.343	171.202	139.379	45.889	0.000	0.000
107.0	0.000	0.000	32.455	127.249	163.047	131.510	38.366	0.000	0.000
107.5	0.000	0.000	24.851	119.278	154.730	123.437	30.742	0.000	0.000
108.0	0.000	0.000	17.634	111.369	146.698	115.344	23.342	0.000	0.000
108.5	0.000	0.000	10.764	103.194	138.401	107.190	16.513	0.000	0.000
109.0	0.000	0.000	5.565	95.080	130.124	99.035	10.805	0.000	0.000
109.5	0.000	0.000	2.487	86.865	121.766	90.697	6.055	0.000	0.000
110.0	0.000	0.000	0.938	78.670	113.346	82.319	3.038	0.000	0.000
110.5	0.000	0.000	0.163	70.169	104.784	73.797	1.264	0.000	0.000

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CANDELA TABULATION - (Cont.)

111.0	0.000	0.000	0.000	61.729	96.120	65.419	0.163	0.000	0.000
111.5	0.000	0.000	0.000	53.187	87.619	56.857	0.000	0.000	0.000
112.0	0.000	0.000	0.000	44.503	78.996	48.172	0.000	0.000	0.000
112.5	0.000	0.000	0.000	35.941	70.189	39.590	0.000	0.000	0.000
113.0	0.000	0.000	0.000	27.399	61.423	31.048	0.000	0.000	0.000
113.5	0.000	0.000	0.000	19.469	52.372	23.016	0.000	0.000	0.000
114.0	0.000	0.000	0.000	12.619	43.361	16.288	0.000	0.000	0.000
114.5	0.000	0.000	0.000	7.115	34.554	10.275	0.000	0.000	0.000
115.0	0.000	0.000	0.000	3.669	25.992	5.769	0.000	0.000	0.000
115.5	0.000	0.000	0.000	1.774	18.490	3.303	0.000	0.000	0.000
116.0	0.000	0.000	0.000	0.612	11.967	1.529	0.000	0.000	0.000
116.5	0.000	0.000	0.000	0.000	6.727	0.224	0.000	0.000	0.000
117.0	0.000	0.000	0.000	0.000	3.751	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	1.876	0.000	0.000	0.000	0.000
118.0	0.000	0.000	0.000	0.000	0.489	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 : TCMLL48H-40.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	590.19	N.A.	10.40
0-30	1256.67	N.A.	22.10
0-40	2072.5	N.A.	36.50
0-60	3768.81	N.A.	66.40
0-80	5014.66	N.A.	88.40
0-90	5372.42	N.A.	94.70
10-90	5219.94	N.A.	92.00
20-40	1482.3	N.A.	26.10
20-50	2352.02	N.A.	41.40
40-70	2403.46	N.A.	42.40
60-80	1245.85	N.A.	22.00
70-80	538.70	N.A.	9.50
80-90	357.76	N.A.	6.30
90-110	292.72	N.A.	5.20
90-120	302.59	N.A.	5.30
90-130	302.59	N.A.	5.30
90-150	302.59	N.A.	5.30
90-180	302.59	N.A.	5.30
110-180	9.87	N.A.	0.20
0-180	5675.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	152.49
10-20	437.70
20-30	666.48
30-40	815.83
40-50	869.71
50-60	826.60
60-70	707.15
70-80	538.70
80-90	357.76
90-100	206.89
100-110	85.83
110-120	9.87
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

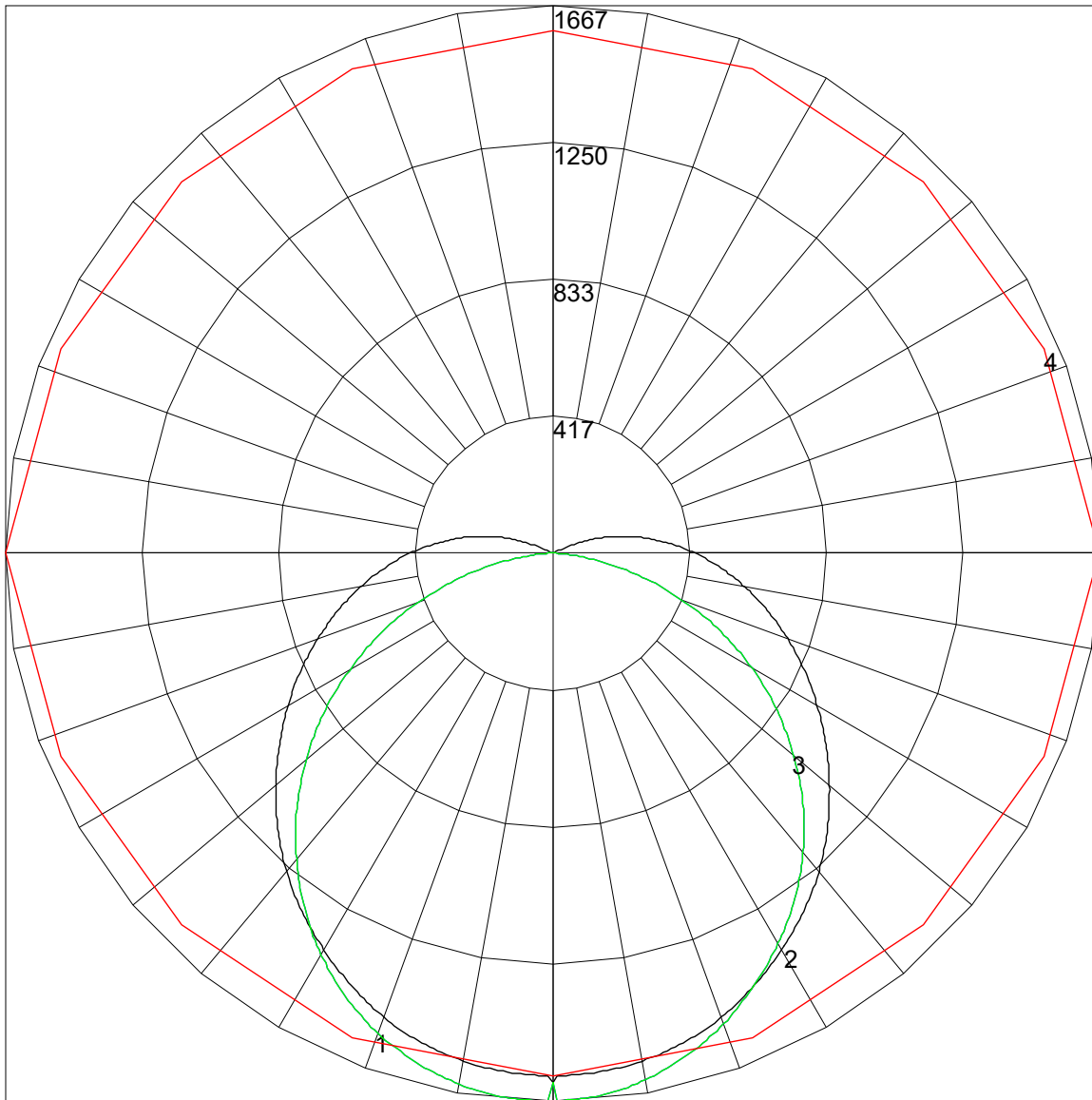
IES INDOOR REPORT
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1666.555 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.)