



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : TCMLL96L-40.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] 11890707.03P9  
[TESTLAB] UL Verification Services Inc.  
[ISSUEDATE] 8/18/2017  
[MANUFAC] Lamar Lighting Co Inc  
[LUMCAT] TCMLL96L-40  
[LUMINAIRE] White formed steel housing, frosted plastic lens enclosure  
[LAMP] 244 white LEDs  
[BALLAST] One OSRAM OTI50/120-277/1A4 DIM L driver  
[OTHER] 25.6 C, 120.031 V, 0.3344 A, 40.13 W, 0.996841PF, 59.9976  
[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                | 4750                |
| Total Luminaire Efficiency      | N.A.                |
| Luminaire Efficacy Rating (LER) | 118                 |
| Total Luminaire Watts           | 40.1                |
| 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)         | 7.63 ft             |
| Luminous Width (90-270)         | 0.13 ft             |
| Luminous Height                 | 0.06 ft             |

### LUMINANCE DATA (cd/sq.m)

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 14291            | 10911             | 10511             |
| 55                  | 13586            | 9889              | 9726              |
| 65                  | 12406            | 8931              | 9091              |
| 75                  | 10058            | 8130              | 8578              |
| 85                  | 4395             | 7407              | 8239              |

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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  | 1348.148   | 1348.148    | 1348.148    | 1348.148    | 1348.148    | 1348.148     | 1348.148     | 1348.148     | 1348.148     |
| 0.5  | 1394.218   | 1356.679    | 1336.715    | 1335.692    | 1330.743    | 1336.545     | 1336.374     | 1357.020     | 1394.388     |
| 1.0  | 1394.047   | 1356.167    | 1336.374    | 1336.033    | 1330.402    | 1336.374     | 1336.886     | 1356.679     | 1394.900     |
| 1.5  | 1393.535   | 1355.655    | 1335.862    | 1335.521    | 1330.231    | 1336.204     | 1336.886     | 1356.509     | 1394.900     |
| 2.0  | 1392.682   | 1355.143    | 1335.180    | 1335.180    | 1329.890    | 1336.204     | 1336.715     | 1356.679     | 1394.388     |
| 2.5  | 1391.658   | 1354.461    | 1334.497    | 1334.497    | 1329.720    | 1336.033     | 1336.204     | 1356.338     | 1394.047     |
| 3.0  | 1391.146   | 1353.437    | 1333.473    | 1333.473    | 1329.549    | 1335.350     | 1335.692     | 1355.655     | 1393.194     |
| 3.5  | 1389.781   | 1352.413    | 1332.450    | 1333.132    | 1328.696    | 1335.009     | 1335.009     | 1354.802     | 1393.194     |
| 4.0  | 1388.587   | 1351.048    | 1331.426    | 1332.279    | 1328.013    | 1334.497     | 1334.497     | 1353.949     | 1392.341     |
| 4.5  | 1387.563   | 1349.854    | 1330.573    | 1331.255    | 1327.331    | 1333.815     | 1333.644     | 1353.096     | 1391.829     |
| 5.0  | 1385.345   | 1348.318    | 1329.208    | 1330.231    | 1326.648    | 1332.962     | 1332.791     | 1351.902     | 1390.293     |
| 5.5  | 1384.151   | 1347.124    | 1328.013    | 1329.378    | 1325.624    | 1331.938     | 1331.426     | 1350.878     | 1389.781     |
| 6.0  | 1382.274   | 1345.076    | 1326.478    | 1327.843    | 1324.601    | 1330.914     | 1330.573     | 1349.683     | 1387.904     |
| 6.5  | 1380.397   | 1343.541    | 1324.771    | 1326.819    | 1323.918    | 1329.378     | 1329.208     | 1348.148     | 1386.881     |
| 7.0  | 1378.349   | 1341.322    | 1323.577    | 1325.624    | 1322.553    | 1328.355     | 1328.184     | 1346.612     | 1385.686     |
| 7.5  | 1376.302   | 1339.616    | 1322.041    | 1323.918    | 1321.359    | 1326.819     | 1326.648     | 1345.076     | 1383.809     |
| 8.0  | 1374.083   | 1337.398    | 1319.823    | 1322.724    | 1319.994    | 1325.454     | 1325.283     | 1343.541     | 1382.103     |
| 8.5  | 1370.841   | 1335.009    | 1318.287    | 1321.188    | 1318.458    | 1323.918     | 1323.748     | 1341.493     | 1379.544     |
| 9.0  | 1368.623   | 1332.620    | 1316.410    | 1318.970    | 1317.093    | 1322.212     | 1322.383     | 1339.104     | 1377.667     |
| 9.5  | 1365.040   | 1329.890    | 1314.192    | 1317.605    | 1314.875    | 1321.017     | 1320.847     | 1337.227     | 1375.790     |
| 10.0 | 1362.139   | 1327.501    | 1312.145    | 1315.728    | 1312.998    | 1319.482     | 1318.799     | 1335.180     | 1372.889     |
| 10.5 | 1358.727   | 1324.601    | 1309.756    | 1313.680    | 1311.292    | 1317.776     | 1317.093     | 1332.791     | 1370.159     |
| 11.0 | 1355.485   | 1322.041    | 1307.367    | 1311.633    | 1309.415    | 1315.387     | 1314.875     | 1330.231     | 1368.111     |
| 11.5 | 1351.902   | 1319.482    | 1304.808    | 1309.585    | 1307.026    | 1313.339     | 1312.145     | 1327.160     | 1365.552     |
| 12.0 | 1347.636   | 1316.240    | 1302.248    | 1307.026    | 1305.149    | 1310.950     | 1309.927     | 1324.430     | 1362.651     |
| 12.5 | 1344.053   | 1312.657    | 1299.347    | 1304.808    | 1302.589    | 1308.561     | 1307.538     | 1321.700     | 1359.409     |
| 13.0 | 1339.275   | 1309.415    | 1296.447    | 1302.078    | 1300.371    | 1306.002     | 1304.466     | 1318.629     | 1356.167     |
| 13.5 | 1336.033   | 1305.831    | 1293.375    | 1299.689    | 1298.153    | 1303.613     | 1301.566     | 1315.557     | 1352.925     |
| 14.0 | 1331.597   | 1301.907    | 1290.133    | 1296.959    | 1295.935    | 1300.542     | 1298.665     | 1311.633     | 1349.683     |
| 14.5 | 1327.331   | 1298.324    | 1286.891    | 1294.229    | 1292.864    | 1297.641     | 1295.423     | 1308.050     | 1346.271     |
| 15.0 | 1323.406   | 1294.570    | 1283.479    | 1291.157    | 1290.304    | 1294.740     | 1292.693     | 1304.125     | 1342.517     |
| 15.5 | 1319.482   | 1290.475    | 1279.896    | 1288.086    | 1287.574    | 1291.840     | 1288.939     | 1300.371     | 1338.934     |
| 16.0 | 1314.875   | 1286.209    | 1276.312    | 1284.844    | 1284.673    | 1288.939     | 1285.526     | 1296.105     | 1335.350     |
| 16.5 | 1310.438   | 1282.114    | 1272.900    | 1281.431    | 1282.114    | 1285.868     | 1281.602     | 1292.181     | 1331.255     |
| 17.0 | 1305.490   | 1277.848    | 1268.975    | 1278.019    | 1279.213    | 1282.455     | 1277.507     | 1287.745     | 1327.160     |
| 17.5 | 1301.054   | 1273.241    | 1265.051    | 1274.435    | 1275.971    | 1279.384     | 1273.241     | 1283.308     | 1323.577     |
| 18.0 | 1295.764   | 1268.975    | 1260.785    | 1270.682    | 1272.388    | 1275.971     | 1269.146     | 1278.872     | 1319.823     |
| 18.5 | 1290.816   | 1264.368    | 1257.031    | 1266.928    | 1268.805    | 1272.388     | 1264.880     | 1274.094     | 1315.557     |
| 19.0 | 1286.038   | 1259.420    | 1252.765    | 1262.662    | 1265.392    | 1268.293     | 1260.273     | 1269.317     | 1310.950     |
| 19.5 | 1280.578   | 1254.813    | 1248.500    | 1258.738    | 1261.809    | 1264.368     | 1255.666     | 1264.880     | 1306.343     |
| 20.0 | 1274.947   | 1249.694    | 1243.893    | 1254.813    | 1257.714    | 1260.444     | 1251.400     | 1259.932     | 1301.566     |
| 20.5 | 1269.828   | 1244.746    | 1239.798    | 1250.547    | 1253.448    | 1256.007     | 1246.793     | 1254.984     | 1296.788     |
| 21.0 | 1264.198   | 1239.798    | 1235.191    | 1246.452    | 1249.353    | 1251.571     | 1242.357     | 1250.035     | 1291.669     |
| 21.5 | 1258.396   | 1234.508    | 1231.095    | 1242.357    | 1245.599    | 1247.135     | 1237.750     | 1245.087     | 1286.209     |
| 22.0 | 1252.254   | 1229.048    | 1226.318    | 1238.091    | 1241.163    | 1242.357     | 1233.143     | 1240.309     | 1280.919     |
| 22.5 | 1246.452   | 1223.929    | 1221.370    | 1233.655    | 1237.068    | 1237.750     | 1228.707     | 1234.849     | 1275.801     |
| 23.0 | 1240.309   | 1218.298    | 1216.933    | 1229.560    | 1232.802    | 1233.314     | 1224.100     | 1229.730     | 1269.658     |
| 23.5 | 1233.996   | 1212.667    | 1211.985    | 1225.123    | 1228.536    | 1229.048     | 1219.151     | 1224.270     | 1264.710     |
| 24.0 | 1227.683   | 1207.037    | 1207.207    | 1220.516    | 1223.758    | 1224.270     | 1214.544     | 1218.981     | 1258.908     |
| 24.5 | 1221.711   | 1201.235    | 1202.259    | 1216.251    | 1219.493    | 1219.493     | 1209.767     | 1213.350     | 1252.936     |
| 25.0 | 1215.056   | 1195.093    | 1197.311    | 1211.473    | 1215.227    | 1215.227     | 1204.818     | 1208.060     | 1246.793     |
| 25.5 | 1208.743   | 1189.291    | 1192.021    | 1206.695    | 1210.279    | 1210.620     | 1200.041     | 1202.600     | 1240.651     |
| 26.0 | 1202.088   | 1183.319    | 1187.073    | 1201.406    | 1206.013    | 1206.183     | 1194.581     | 1196.799     | 1234.337     |
| 26.5 | 1195.604   | 1177.176    | 1181.442    | 1196.458    | 1200.894    | 1201.406     | 1189.632     | 1190.997     | 1228.365     |

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**CANDELA TABULATION - (Cont.)**

|      |          |          |          |          |          |          |          |          |          |
|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 27.0 | 1188.779 | 1171.034 | 1175.641 | 1191.168 | 1196.799 | 1196.799 | 1184.343 | 1185.196 | 1221.881 |
| 27.5 | 1182.295 | 1164.379 | 1170.351 | 1186.220 | 1192.021 | 1191.851 | 1179.224 | 1179.565 | 1214.886 |
| 28.0 | 1175.811 | 1158.236 | 1164.209 | 1180.930 | 1187.073 | 1186.561 | 1173.593 | 1173.764 | 1208.231 |
| 28.5 | 1168.986 | 1151.582 | 1158.236 | 1175.299 | 1182.295 | 1181.442 | 1167.962 | 1167.792 | 1201.406 |
| 29.0 | 1162.161 | 1145.098 | 1152.435 | 1169.839 | 1177.006 | 1176.153 | 1162.673 | 1161.478 | 1194.410 |
| 29.5 | 1155.336 | 1138.273 | 1146.122 | 1164.379 | 1171.716 | 1170.692 | 1157.042 | 1155.506 | 1187.244 |
| 30.0 | 1148.511 | 1131.959 | 1140.150 | 1158.748 | 1166.939 | 1165.232 | 1151.582 | 1148.852 | 1180.418 |
| 30.5 | 1141.515 | 1124.964 | 1134.348 | 1153.288 | 1161.649 | 1159.943 | 1145.951 | 1142.538 | 1173.252 |
| 31.0 | 1134.519 | 1117.968 | 1128.035 | 1147.828 | 1156.530 | 1154.653 | 1140.320 | 1136.055 | 1165.915 |
| 31.5 | 1127.694 | 1110.801 | 1121.722 | 1142.197 | 1151.241 | 1149.364 | 1134.519 | 1129.400 | 1158.236 |
| 32.0 | 1120.357 | 1103.805 | 1115.579 | 1136.396 | 1146.122 | 1143.733 | 1129.059 | 1122.404 | 1151.070 |
| 32.5 | 1113.020 | 1096.639 | 1109.607 | 1131.277 | 1140.832 | 1138.273 | 1122.916 | 1115.579 | 1143.392 |
| 33.0 | 1105.853 | 1089.473 | 1103.294 | 1125.646 | 1135.543 | 1132.813 | 1116.944 | 1108.412 | 1135.543 |
| 33.5 | 1098.857 | 1082.135 | 1096.980 | 1119.845 | 1130.594 | 1127.523 | 1110.972 | 1101.246 | 1127.352 |
| 34.0 | 1090.667 | 1074.798 | 1090.667 | 1114.043 | 1125.134 | 1121.892 | 1105.000 | 1094.080 | 1119.503 |
| 34.5 | 1083.159 | 1067.632 | 1084.354 | 1108.242 | 1120.015 | 1116.603 | 1098.516 | 1086.913 | 1111.313 |
| 35.0 | 1075.481 | 1059.954 | 1078.211 | 1102.782 | 1114.555 | 1110.801 | 1092.544 | 1079.235 | 1102.952 |
| 35.5 | 1067.120 | 1052.616 | 1071.386 | 1096.980 | 1109.266 | 1105.171 | 1086.060 | 1072.068 | 1095.103 |
| 36.0 | 1059.783 | 1044.768 | 1064.731 | 1091.349 | 1103.805 | 1099.540 | 1079.235 | 1064.561 | 1086.572 |
| 36.5 | 1051.593 | 1037.089 | 1058.077 | 1085.377 | 1098.175 | 1093.568 | 1072.751 | 1057.053 | 1077.870 |
| 37.0 | 1043.232 | 1029.581 | 1051.251 | 1079.576 | 1092.373 | 1087.766 | 1066.267 | 1049.375 | 1069.168 |
| 37.5 | 1034.871 | 1021.562 | 1044.597 | 1073.604 | 1086.742 | 1081.624 | 1059.271 | 1041.526 | 1061.148 |
| 38.0 | 1027.193 | 1013.713 | 1037.772 | 1067.461 | 1080.941 | 1075.310 | 1052.275 | 1034.018 | 1051.934 |
| 38.5 | 1018.661 | 1005.864 | 1030.776 | 1061.148 | 1075.140 | 1068.997 | 1045.279 | 1026.339 | 1043.232 |
| 39.0 | 1010.471 | 997.674  | 1023.780 | 1055.005 | 1068.997 | 1062.513 | 1038.113 | 1018.149 | 1034.359 |
| 39.5 | 1002.281 | 989.654  | 1016.784 | 1048.692 | 1062.854 | 1056.200 | 1030.776 | 1010.300 | 1025.316 |
| 40.0 | 993.749  | 981.464  | 1009.618 | 1042.208 | 1056.712 | 1049.545 | 1023.609 | 1002.110 | 1016.443 |
| 40.5 | 985.388  | 973.444  | 1002.281 | 1035.212 | 1050.398 | 1042.891 | 1016.443 | 993.920  | 1007.400 |
| 41.0 | 976.857  | 965.254  | 994.773  | 1028.899 | 1044.426 | 1036.065 | 1008.935 | 985.900  | 998.356  |
| 41.5 | 967.984  | 957.064  | 987.436  | 1022.244 | 1037.772 | 1029.411 | 1001.086 | 977.369  | 989.142  |
| 42.0 | 959.111  | 948.362  | 979.587  | 1015.249 | 1031.458 | 1022.415 | 993.408  | 969.008  | 979.757  |
| 42.5 | 950.409  | 940.001  | 971.738  | 1008.423 | 1024.633 | 1015.249 | 985.730  | 960.647  | 970.373  |
| 43.0 | 941.195  | 931.299  | 964.060  | 1001.427 | 1018.149 | 1008.253 | 977.710  | 951.774  | 960.988  |
| 43.5 | 932.152  | 922.255  | 956.211  | 994.602  | 1011.324 | 1001.257 | 969.861  | 943.243  | 951.262  |
| 44.0 | 922.426  | 913.382  | 948.020  | 987.436  | 1004.499 | 994.090  | 962.012  | 934.029  | 941.366  |
| 44.5 | 913.041  | 904.339  | 939.830  | 980.440  | 997.844  | 987.095  | 953.822  | 925.497  | 932.322  |
| 45.0 | 903.145  | 895.296  | 931.640  | 973.274  | 990.848  | 980.099  | 945.461  | 916.112  | 922.426  |
| 45.5 | 893.419  | 886.252  | 923.450  | 966.107  | 984.023  | 972.932  | 937.612  | 907.069  | 912.188  |
| 46.0 | 883.693  | 876.868  | 915.259  | 959.111  | 977.198  | 965.766  | 929.422  | 897.855  | 902.291  |
| 46.5 | 873.284  | 867.483  | 907.069  | 951.774  | 970.032  | 958.258  | 920.890  | 888.470  | 892.224  |
| 47.0 | 863.558  | 858.098  | 898.708  | 944.437  | 963.036  | 951.433  | 912.871  | 879.086  | 882.328  |
| 47.5 | 853.321  | 848.884  | 890.347  | 937.441  | 956.211  | 944.266  | 904.510  | 870.042  | 872.261  |
| 48.0 | 843.253  | 839.670  | 881.816  | 930.104  | 949.044  | 937.271  | 896.149  | 860.316  | 862.023  |
| 48.5 | 833.186  | 830.115  | 873.626  | 922.767  | 942.219  | 930.104  | 887.959  | 850.932  | 851.785  |
| 49.0 | 822.778  | 820.730  | 864.923  | 915.771  | 935.052  | 922.767  | 879.598  | 841.377  | 841.206  |
| 49.5 | 812.881  | 811.004  | 856.563  | 908.264  | 928.398  | 915.601  | 871.066  | 831.992  | 831.139  |
| 50.0 | 802.644  | 801.449  | 848.372  | 901.097  | 921.061  | 908.093  | 862.705  | 822.266  | 820.560  |
| 50.5 | 792.235  | 791.894  | 839.670  | 893.419  | 914.406  | 900.926  | 854.344  | 812.881  | 809.981  |
| 51.0 | 782.168  | 782.168  | 831.139  | 886.252  | 907.240  | 893.589  | 845.813  | 803.155  | 799.402  |
| 51.5 | 772.101  | 772.783  | 822.778  | 878.745  | 900.073  | 886.082  | 837.452  | 793.600  | 788.993  |
| 52.0 | 761.692  | 762.887  | 814.076  | 871.066  | 893.077  | 878.745  | 828.921  | 784.045  | 778.414  |
| 52.5 | 751.455  | 753.161  | 805.544  | 863.729  | 885.911  | 871.066  | 820.560  | 774.319  | 768.006  |
| 53.0 | 741.046  | 743.606  | 797.354  | 856.221  | 879.086  | 863.729  | 812.028  | 764.252  | 757.256  |
| 53.5 | 730.808  | 734.050  | 788.652  | 848.543  | 871.919  | 856.051  | 803.667  | 754.696  | 746.336  |
| 54.0 | 720.059  | 723.983  | 780.120  | 841.206  | 864.753  | 848.372  | 794.795  | 744.971  | 735.757  |
| 54.5 | 709.650  | 714.257  | 771.589  | 833.528  | 857.586  | 840.865  | 786.604  | 734.903  | 724.666  |

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**CANDELA TABULATION - (Cont.)**

|      |         |         |         |         |         |         |         |         |         |
|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 55.0 | 698.900 | 704.190 | 762.887 | 825.849 | 850.420 | 833.357 | 778.073 | 725.007 | 713.575 |
| 55.5 | 687.980 | 694.293 | 754.526 | 818.341 | 843.083 | 825.849 | 769.541 | 715.110 | 702.484 |
| 56.0 | 677.230 | 684.397 | 745.653 | 810.663 | 835.746 | 818.512 | 761.010 | 705.214 | 691.393 |
| 56.5 | 666.140 | 674.330 | 737.122 | 803.155 | 828.921 | 811.004 | 752.478 | 694.976 | 680.131 |
| 57.0 | 655.049 | 664.433 | 728.590 | 795.477 | 821.754 | 803.667 | 743.947 | 685.079 | 668.870 |
| 57.5 | 643.787 | 654.366 | 719.547 | 788.140 | 814.588 | 796.160 | 735.586 | 674.842 | 657.267 |
| 58.0 | 633.037 | 644.128 | 711.015 | 780.632 | 807.592 | 788.822 | 727.225 | 664.945 | 645.835 |
| 58.5 | 621.434 | 634.061 | 702.313 | 773.295 | 800.425 | 781.315 | 718.523 | 654.537 | 634.402 |
| 59.0 | 610.344 | 623.823 | 693.782 | 765.617 | 793.600 | 773.807 | 710.162 | 644.470 | 622.458 |
| 59.5 | 598.741 | 613.927 | 685.250 | 758.109 | 786.434 | 766.641 | 701.460 | 634.402 | 610.855 |
| 60.0 | 587.650 | 603.689 | 676.548 | 750.943 | 779.608 | 759.304 | 693.099 | 623.994 | 599.423 |
| 60.5 | 576.047 | 593.792 | 668.187 | 743.606 | 772.442 | 751.796 | 684.568 | 613.585 | 587.820 |
| 61.0 | 564.956 | 583.725 | 659.826 | 736.268 | 765.617 | 744.459 | 676.207 | 603.518 | 576.559 |
| 61.5 | 553.524 | 573.658 | 651.636 | 728.931 | 758.450 | 737.122 | 667.675 | 592.939 | 565.127 |
| 62.0 | 542.262 | 563.420 | 643.275 | 721.594 | 751.455 | 729.614 | 659.144 | 583.043 | 553.865 |
| 62.5 | 530.830 | 553.524 | 635.085 | 714.257 | 744.629 | 721.936 | 650.612 | 572.634 | 542.433 |
| 63.0 | 519.227 | 543.457 | 626.724 | 707.091 | 737.463 | 714.598 | 642.081 | 562.226 | 531.171 |
| 63.5 | 507.795 | 533.560 | 618.704 | 699.583 | 730.467 | 707.261 | 633.379 | 551.817 | 519.739 |
| 64.0 | 496.192 | 523.493 | 610.685 | 692.417 | 723.301 | 699.924 | 624.847 | 541.580 | 508.307 |
| 64.5 | 484.589 | 513.767 | 602.665 | 685.079 | 715.963 | 692.246 | 616.316 | 531.171 | 496.875 |
| 65.0 | 472.986 | 503.529 | 594.475 | 677.572 | 708.626 | 684.909 | 608.125 | 521.104 | 485.442 |
| 65.5 | 461.384 | 493.633 | 586.285 | 670.405 | 701.631 | 677.230 | 599.935 | 510.866 | 473.840 |
| 66.0 | 449.439 | 483.736 | 578.606 | 663.068 | 694.464 | 669.723 | 591.745 | 500.628 | 462.407 |
| 66.5 | 437.495 | 474.010 | 570.587 | 655.731 | 687.468 | 662.556 | 583.555 | 490.561 | 450.463 |
| 67.0 | 425.722 | 464.114 | 562.738 | 648.394 | 680.302 | 654.878 | 575.706 | 480.665 | 438.690 |
| 67.5 | 413.948 | 454.046 | 555.059 | 641.057 | 673.135 | 647.711 | 567.857 | 470.598 | 426.575 |
| 68.0 | 402.004 | 444.321 | 547.210 | 633.720 | 665.969 | 640.204 | 560.178 | 460.701 | 414.631 |
| 68.5 | 390.060 | 434.424 | 539.532 | 626.383 | 658.632 | 633.037 | 552.500 | 450.463 | 402.346 |
| 69.0 | 378.116 | 424.698 | 531.683 | 619.046 | 651.807 | 625.871 | 544.992 | 440.567 | 390.231 |
| 69.5 | 366.513 | 414.972 | 524.005 | 611.709 | 644.470 | 618.534 | 537.314 | 430.670 | 377.945 |
| 70.0 | 354.740 | 405.246 | 516.156 | 604.542 | 637.644 | 611.367 | 529.465 | 420.774 | 365.660 |
| 70.5 | 342.966 | 395.520 | 508.307 | 597.205 | 630.478 | 604.030 | 521.616 | 411.048 | 353.375 |
| 71.0 | 330.852 | 385.965 | 500.628 | 590.039 | 623.311 | 596.864 | 513.767 | 401.151 | 341.260 |
| 71.5 | 319.078 | 376.410 | 492.779 | 582.701 | 616.316 | 589.697 | 505.747 | 391.425 | 328.975 |
| 72.0 | 307.475 | 367.196 | 485.101 | 575.194 | 609.320 | 582.360 | 497.728 | 381.699 | 317.201 |
| 72.5 | 295.872 | 357.811 | 477.081 | 568.027 | 602.153 | 575.194 | 489.879 | 371.973 | 304.916 |
| 73.0 | 284.099 | 348.597 | 469.574 | 560.861 | 595.157 | 567.686 | 481.688 | 362.589 | 293.142 |
| 73.5 | 272.325 | 339.383 | 461.725 | 553.694 | 587.991 | 560.520 | 473.669 | 353.033 | 281.369 |
| 74.0 | 260.893 | 330.510 | 453.876 | 546.187 | 580.995 | 553.182 | 465.991 | 343.819 | 269.595 |
| 74.5 | 249.461 | 321.808 | 446.368 | 539.020 | 573.999 | 545.845 | 457.971 | 334.605 | 257.993 |
| 75.0 | 237.858 | 313.106 | 438.690 | 531.854 | 567.003 | 538.338 | 450.122 | 325.733 | 246.219 |
| 75.5 | 226.426 | 304.745 | 431.011 | 524.687 | 560.178 | 531.342 | 442.273 | 316.689 | 234.616 |
| 76.0 | 215.164 | 296.384 | 423.504 | 517.521 | 553.182 | 524.175 | 434.424 | 308.158 | 223.184 |
| 76.5 | 203.732 | 288.023 | 415.996 | 510.354 | 546.016 | 516.668 | 426.746 | 299.797 | 211.752 |
| 77.0 | 192.471 | 280.004 | 408.488 | 503.188 | 539.191 | 509.501 | 419.067 | 291.436 | 200.490 |
| 77.5 | 181.038 | 272.155 | 400.981 | 496.192 | 532.195 | 502.335 | 411.560 | 283.246 | 189.229 |
| 78.0 | 169.743 | 264.306 | 393.643 | 489.196 | 525.370 | 495.339 | 403.881 | 275.397 | 177.796 |
| 78.5 | 158.737 | 256.457 | 386.136 | 482.200 | 518.374 | 488.172 | 396.544 | 267.548 | 166.569 |
| 79.0 | 148.107 | 248.608 | 378.969 | 475.205 | 511.549 | 481.177 | 389.036 | 259.699 | 155.615 |
| 79.5 | 137.238 | 240.588 | 371.632 | 468.209 | 504.724 | 474.010 | 381.699 | 251.509 | 145.018 |
| 80.0 | 126.795 | 232.398 | 364.295 | 461.554 | 497.898 | 467.014 | 374.533 | 243.489 | 134.218 |
| 80.5 | 116.301 | 224.378 | 357.129 | 454.388 | 491.073 | 460.018 | 367.196 | 235.299 | 123.638 |
| 81.0 | 106.166 | 216.359 | 350.133 | 447.562 | 484.419 | 453.193 | 360.029 | 227.279 | 113.503 |
| 81.5 | 96.389  | 208.510 | 342.966 | 440.737 | 477.593 | 446.197 | 352.863 | 219.089 | 103.453 |
| 82.0 | 86.987  | 200.661 | 335.800 | 433.741 | 470.939 | 439.372 | 345.867 | 211.069 | 93.761  |
| 82.5 | 77.637  | 192.983 | 328.804 | 426.746 | 463.943 | 432.376 | 338.701 | 203.391 | 84.428  |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : TCMLL96L-40.IES**

**CANDELA TABULATION - (Cont.)**

|       |        |         |         |         |         |         |         |         |        |
|-------|--------|---------|---------|---------|---------|---------|---------|---------|--------|
| 83.0  | 68.781 | 185.475 | 321.808 | 420.091 | 457.459 | 425.381 | 331.534 | 195.713 | 75.009 |
| 83.5  | 60.215 | 178.138 | 314.812 | 413.436 | 450.634 | 418.726 | 324.538 | 187.864 | 66.307 |
| 84.0  | 51.940 | 170.971 | 307.987 | 406.441 | 443.979 | 411.901 | 317.542 | 180.527 | 57.758 |
| 84.5  | 44.466 | 163.822 | 300.991 | 399.786 | 437.154 | 405.076 | 310.547 | 173.360 | 49.875 |
| 85.0  | 37.163 | 156.963 | 294.166 | 392.961 | 430.329 | 398.250 | 303.721 | 166.262 | 42.350 |
| 85.5  | 30.270 | 150.206 | 287.512 | 386.136 | 423.504 | 391.425 | 296.726 | 159.266 | 35.184 |
| 86.0  | 23.905 | 143.653 | 280.857 | 379.310 | 416.849 | 384.600 | 289.900 | 152.577 | 28.512 |
| 86.5  | 18.309 | 137.289 | 274.202 | 372.656 | 410.195 | 377.775 | 282.905 | 145.906 | 22.438 |
| 87.0  | 13.207 | 131.027 | 267.377 | 366.001 | 403.369 | 371.120 | 276.250 | 139.371 | 16.892 |
| 87.5  | 8.839  | 124.731 | 260.552 | 359.347 | 396.544 | 364.295 | 269.425 | 132.972 | 11.995 |
| 88.0  | 5.221  | 118.673 | 254.068 | 352.351 | 389.719 | 357.640 | 262.600 | 126.659 | 7.832  |
| 88.5  | 2.457  | 112.769 | 247.414 | 345.526 | 382.894 | 350.645 | 255.945 | 120.448 | 4.522  |
| 89.0  | 0.427  | 107.156 | 240.930 | 338.871 | 376.069 | 343.649 | 249.120 | 114.510 | 1.962  |
| 89.5  | 0.000  | 101.422 | 234.787 | 332.558 | 369.243 | 337.165 | 242.636 | 108.708 | 0.137  |
| 90.0  | 0.000  | 96.218  | 228.644 | 325.903 | 362.418 | 330.510 | 236.323 | 103.231 | 0.000  |
| 90.5  | 0.000  | 91.116  | 222.502 | 319.419 | 356.105 | 324.026 | 230.180 | 97.839  | 0.000  |
| 91.0  | 0.000  | 85.912  | 216.018 | 312.935 | 349.280 | 317.542 | 224.037 | 92.464  | 0.000  |
| 91.5  | 0.000  | 80.793  | 209.875 | 306.451 | 342.625 | 310.888 | 217.724 | 87.192  | 0.000  |
| 92.0  | 0.000  | 75.879  | 203.732 | 299.797 | 335.970 | 304.404 | 211.411 | 82.107  | 0.000  |
| 92.5  | 0.000  | 71.050  | 197.590 | 293.142 | 329.145 | 297.579 | 205.268 | 77.039  | 0.000  |
| 93.0  | 0.000  | 66.358  | 191.617 | 286.658 | 322.320 | 290.924 | 199.125 | 72.142  | 0.000  |
| 93.5  | 0.000  | 61.700  | 185.475 | 280.004 | 315.836 | 284.440 | 192.983 | 67.450  | 0.000  |
| 94.0  | 0.000  | 57.195  | 179.673 | 273.349 | 309.011 | 277.786 | 187.010 | 62.724  | 0.000  |
| 94.5  | 0.000  | 52.571  | 173.701 | 266.865 | 302.356 | 271.302 | 180.868 | 58.082  | 0.000  |
| 95.0  | 0.000  | 48.118  | 167.849 | 260.381 | 295.531 | 264.647 | 175.066 | 53.510  | 0.000  |
| 95.5  | 0.000  | 43.750  | 162.013 | 253.727 | 288.877 | 258.334 | 169.146 | 49.005  | 0.000  |
| 96.0  | 0.000  | 39.245  | 156.280 | 247.414 | 282.222 | 251.850 | 163.259 | 44.466  | 0.000  |
| 96.5  | 0.000  | 34.877  | 150.513 | 240.930 | 275.567 | 245.537 | 157.389 | 39.808  | 0.000  |
| 97.0  | 0.000  | 30.492  | 144.967 | 234.616 | 268.913 | 239.053 | 151.485 | 35.372  | 0.000  |
| 97.5  | 0.000  | 26.106  | 139.183 | 228.474 | 262.258 | 232.569 | 145.582 | 30.850  | 0.000  |
| 98.0  | 0.000  | 21.585  | 133.501 | 221.990 | 255.604 | 226.255 | 139.746 | 26.294  | 0.000  |
| 98.5  | 0.000  | 17.114  | 127.768 | 215.676 | 249.120 | 219.942 | 134.030 | 21.704  | 0.000  |
| 99.0  | 0.000  | 12.644  | 122.205 | 209.363 | 242.636 | 213.458 | 128.194 | 17.165  | 0.000  |
| 99.5  | 0.000  | 8.207   | 116.404 | 203.050 | 235.981 | 206.974 | 122.376 | 12.558  | 0.000  |
| 100.0 | 0.000  | 4.112   | 110.671 | 196.736 | 229.327 | 200.661 | 116.421 | 8.122   | 0.000  |
| 100.5 | 0.000  | 1.075   | 104.903 | 190.423 | 223.013 | 194.348 | 110.654 | 4.488   | 0.000  |
| 101.0 | 0.000  | 0.000   | 99.221  | 184.110 | 216.359 | 188.034 | 104.767 | 1.723   | 0.000  |
| 101.5 | 0.000  | 0.000   | 93.437  | 177.626 | 209.704 | 181.550 | 98.965  | 0.427   | 0.000  |
| 102.0 | 0.000  | 0.000   | 87.550  | 171.313 | 203.391 | 175.066 | 92.993  | 0.000   | 0.000  |
| 102.5 | 0.000  | 0.000   | 81.715  | 165.033 | 196.566 | 168.719 | 87.226  | 0.000   | 0.000  |
| 103.0 | 0.000  | 0.000   | 75.743  | 158.584 | 189.911 | 162.252 | 81.288  | 0.000   | 0.000  |
| 103.5 | 0.000  | 0.000   | 69.736  | 152.100 | 183.427 | 155.734 | 75.350  | 0.000   | 0.000  |
| 104.0 | 0.000  | 0.000   | 63.850  | 145.701 | 176.773 | 149.370 | 69.327  | 0.000   | 0.000  |
| 104.5 | 0.000  | 0.000   | 57.878  | 139.302 | 170.203 | 142.834 | 63.184  | 0.000   | 0.000  |
| 105.0 | 0.000  | 0.000   | 51.684  | 132.887 | 163.412 | 136.367 | 57.144  | 0.000   | 0.000  |
| 105.5 | 0.000  | 0.000   | 45.644  | 126.334 | 156.826 | 129.849 | 51.018  | 0.000   | 0.000  |
| 106.0 | 0.000  | 0.000   | 39.398  | 119.714 | 150.086 | 123.280 | 44.705  | 0.000   | 0.000  |
| 106.5 | 0.000  | 0.000   | 33.273  | 113.281 | 143.295 | 116.660 | 38.409  | 0.000   | 0.000  |
| 107.0 | 0.000  | 0.000   | 27.164  | 106.507 | 136.470 | 110.073 | 32.113  | 0.000   | 0.000  |
| 107.5 | 0.000  | 0.000   | 20.800  | 99.836  | 129.508 | 103.316 | 25.731  | 0.000   | 0.000  |
| 108.0 | 0.000  | 0.000   | 14.759  | 93.215  | 122.785 | 96.542  | 19.537  | 0.000   | 0.000  |
| 108.5 | 0.000  | 0.000   | 9.009   | 86.373  | 115.841 | 89.717  | 13.821  | 0.000   | 0.000  |
| 109.0 | 0.000  | 0.000   | 4.658   | 79.582  | 108.913 | 82.892  | 9.043   | 0.000   | 0.000  |
| 109.5 | 0.000  | 0.000   | 2.082   | 72.705  | 101.917 | 75.913  | 5.068   | 0.000   | 0.000  |
| 110.0 | 0.000  | 0.000   | 0.785   | 65.846  | 94.870  | 68.900  | 2.542   | 0.000   | 0.000  |
| 110.5 | 0.000  | 0.000   | 0.137   | 58.731  | 87.704  | 61.768  | 1.058   | 0.000   | 0.000  |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : TCMLL96L-40.IES**

**CANDELA TABULATION - (Cont.)**

|       |       |       |       |        |        |        |       |       |       |
|-------|-------|-------|-------|--------|--------|--------|-------|-------|-------|
| 111.0 | 0.000 | 0.000 | 0.000 | 51.667 | 80.452 | 54.755 | 0.137 | 0.000 | 0.000 |
| 111.5 | 0.000 | 0.000 | 0.000 | 44.517 | 73.337 | 47.589 | 0.000 | 0.000 | 0.000 |
| 112.0 | 0.000 | 0.000 | 0.000 | 37.249 | 66.119 | 40.320 | 0.000 | 0.000 | 0.000 |
| 112.5 | 0.000 | 0.000 | 0.000 | 30.082 | 58.748 | 33.136 | 0.000 | 0.000 | 0.000 |
| 113.0 | 0.000 | 0.000 | 0.000 | 22.933 | 51.411 | 25.987 | 0.000 | 0.000 | 0.000 |
| 113.5 | 0.000 | 0.000 | 0.000 | 16.295 | 43.835 | 19.264 | 0.000 | 0.000 | 0.000 |
| 114.0 | 0.000 | 0.000 | 0.000 | 10.562 | 36.293 | 13.633 | 0.000 | 0.000 | 0.000 |
| 114.5 | 0.000 | 0.000 | 0.000 | 5.955  | 28.922 | 8.600  | 0.000 | 0.000 | 0.000 |
| 115.0 | 0.000 | 0.000 | 0.000 | 3.071  | 21.755 | 4.829  | 0.000 | 0.000 | 0.000 |
| 115.5 | 0.000 | 0.000 | 0.000 | 1.484  | 15.476 | 2.764  | 0.000 | 0.000 | 0.000 |
| 116.0 | 0.000 | 0.000 | 0.000 | 0.512  | 10.016 | 1.280  | 0.000 | 0.000 | 0.000 |
| 116.5 | 0.000 | 0.000 | 0.000 | 0.000  | 5.631  | 0.188  | 0.000 | 0.000 | 0.000 |
| 117.0 | 0.000 | 0.000 | 0.000 | 0.000  | 3.140  | 0.000  | 0.000 | 0.000 | 0.000 |
| 117.5 | 0.000 | 0.000 | 0.000 | 0.000  | 1.570  | 0.000  | 0.000 | 0.000 | 0.000 |
| 118.0 | 0.000 | 0.000 | 0.000 | 0.000  | 0.410  | 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 |

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : TCMLL96L-40.IES

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 |

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : TCMLL96L-40.IES

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 |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : TCMLL96L-40.IES**

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 493.99  | N.A.  | 10.40  |
| 0-30    | 1051.83 | N.A.  | 22.10  |
| 0-40    | 1734.67 | N.A.  | 36.50  |
| 0-60    | 3154.48 | N.A.  | 66.40  |
| 0-80    | 4197.25 | N.A.  | 88.40  |
| 0-90    | 4496.7  | N.A.  | 94.70  |
| 10-90   | 4369.06 | N.A.  | 92.00  |
| 20-40   | 1240.68 | N.A.  | 26.10  |
| 20-50   | 1968.63 | N.A.  | 41.40  |
| 40-70   | 2011.69 | N.A.  | 42.40  |
| 60-80   | 1042.77 | N.A.  | 22.00  |
| 70-80   | 450.89  | N.A.  | 9.50   |
| 80-90   | 299.45  | N.A.  | 6.30   |
| 90-110  | 245.01  | N.A.  | 5.20   |
| 90-120  | 253.27  | N.A.  | 5.30   |
| 90-130  | 253.27  | N.A.  | 5.30   |
| 90-150  | 253.27  | N.A.  | 5.30   |
| 90-180  | 253.27  | N.A.  | 5.30   |
| 110-180 | 8.26    | N.A.  | 0.20   |
| 0-180   | 4749.96 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 127.63 |
| 10-20   | 366.36 |
| 20-30   | 557.84 |
| 30-40   | 682.84 |
| 40-50   | 727.95 |
| 50-60   | 691.86 |
| 60-70   | 591.88 |
| 70-80   | 450.89 |
| 80-90   | 299.45 |
| 90-100  | 173.17 |
| 100-110 | 71.84  |
| 110-120 | 8.26   |
| 120-130 | 0.00   |
| 130-140 | 0.00   |
| 140-150 | 0.00   |
| 150-160 | 0.00   |
| 160-170 | 0.00   |
| 170-180 | 0.00   |

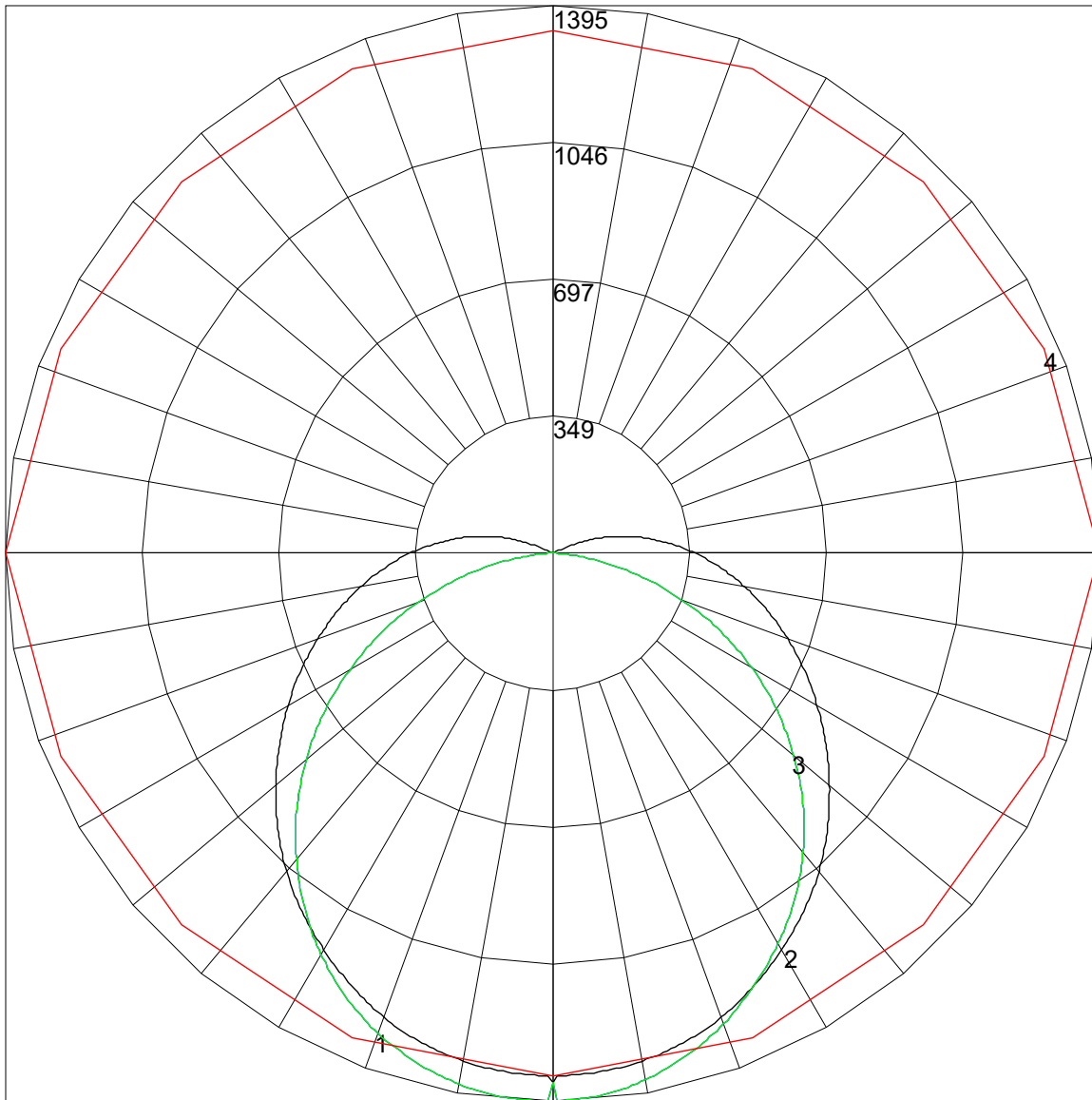
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : TCMLL96L-40.IES**

**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 = 1394.9 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.)