

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P151237

Luminaire Tested: **TLM-F03-LED-E1-SL3-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P151237
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33679)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TLM-F03-LED-E1-SL3-7060
Description: TALON MEDIUM LED SITE LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (21) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

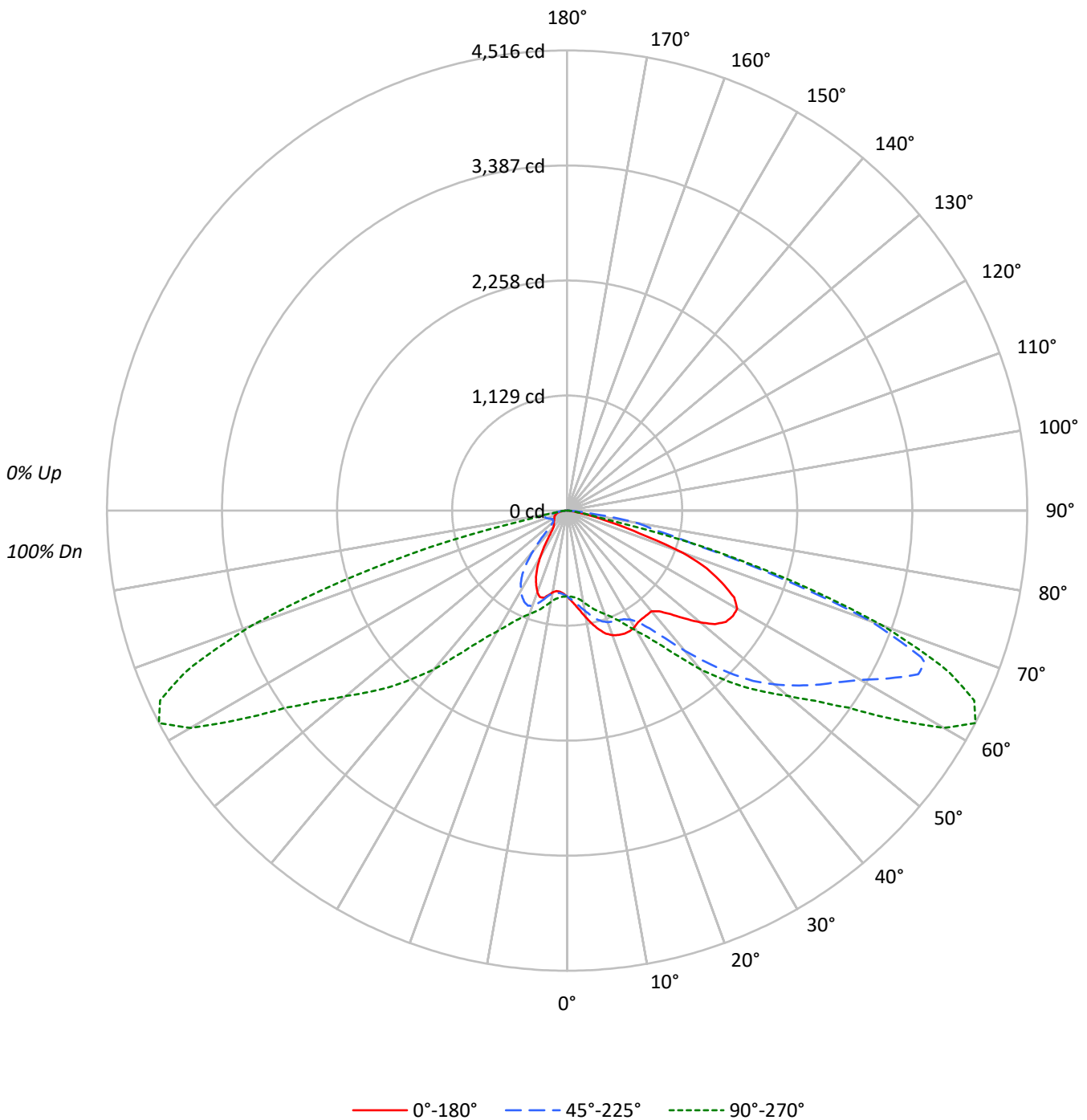
Lumens per Lamp: N/A
Luminaire Lumens: 7715.6 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Spacing Criteria (0/90/45): 1.44 / 3.92 / 2.51
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P151237
CATALOG NUMBER: TLM-F03-LED-E1-SL3-7060

Luminous Intensity Polar Plot





TEST NUMBER: P151237

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|-----|---|--|---|
| RF | 20 | | | | | 20 | | | | | 20 | | | | | 20 | | | | | 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 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | 100 | | | |
| 1 | 106 | 100 | 94 | 89 | 103 | 97 | 92 | 88 | 93 | 89 | 85 | 89 | 85 | 82 | 85 | 82 | 80 | 77 | | | | | 77 | | | |
| 2 | 93 | 82 | 74 | 66 | 90 | 80 | 72 | 65 | 77 | 70 | 64 | 73 | 67 | 62 | 70 | 65 | 61 | 58 | | | | | 58 | | | |
| 3 | 82 | 69 | 59 | 50 | 79 | 67 | 58 | 50 | 64 | 56 | 49 | 61 | 54 | 48 | 58 | 52 | 47 | 44 | | | | | 44 | | | |
| 4 | 73 | 59 | 48 | 39 | 71 | 57 | 47 | 39 | 54 | 46 | 38 | 52 | 44 | 38 | 49 | 43 | 37 | 35 | | | | | 35 | | | |
| 5 | 66 | 51 | 40 | 32 | 64 | 49 | 39 | 31 | 47 | 38 | 31 | 45 | 37 | 31 | 43 | 36 | 30 | 28 | | | | | 28 | | | |
| 6 | 60 | 44 | 34 | 26 | 58 | 43 | 33 | 26 | 41 | 32 | 26 | 39 | 31 | 25 | 38 | 31 | 25 | 23 | | | | | 23 | | | |
| 7 | 55 | 39 | 29 | 22 | 53 | 38 | 29 | 22 | 37 | 28 | 22 | 35 | 27 | 21 | 34 | 27 | 21 | 19 | | | | | 19 | | | |
| 8 | 51 | 35 | 25 | 19 | 49 | 35 | 25 | 19 | 33 | 25 | 18 | 32 | 24 | 18 | 30 | 23 | 18 | 16 | | | | | 16 | | | |
| 9 | 47 | 32 | 23 | 16 | 46 | 31 | 22 | 16 | 30 | 22 | 16 | 29 | 21 | 16 | 28 | 21 | 16 | 14 | | | | | 14 | | | |
| 10 | 44 | 29 | 20 | 14 | 43 | 29 | 20 | 14 | 28 | 20 | 14 | 27 | 19 | 14 | 26 | 19 | 14 | 12 | | | | | 12 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|--------|-------|
| 0° | 18144 | 18144 | 18144 |
| 5° | 20154 | 18487 | 17279 |
| 10° | 23294 | 19851 | 17814 |
| 15° | 26941 | 22258 | 19767 |
| 20° | 29807 | 24781 | 19562 |
| 25° | 31630 | 28250 | 17143 |
| 30° | 32828 | 33921 | 13075 |
| 35° | 33926 | 42498 | 7971 |
| 40° | 36230 | 57085 | 5809 |
| 45° | 43765 | 74401 | 5596 |
| 50° | 57166 | 94754 | 5647 |
| 55° | 71406 | 126631 | 5851 |
| 60° | 82973 | 183598 | 6234 |
| 65° | 85349 | 224591 | 6948 |
| 70° | 75979 | 206712 | 7679 |
| 75° | 36498 | 116822 | 8950 |
| 80° | 12596 | 16166 | 9137 |
| 85° | 5656 | 10053 | 9213 |



TEST NUMBER: P151237

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 83.9 | 1.1 |
| 10°-20° | 287.7 | 3.7 |
| 20°-30° | 508.1 | 6.6 |
| 30°-40° | 729.3 | 9.5 |
| 40°-50° | 1107.6 | 14.4 |
| 50°-60° | 1630.8 | 21.1 |
| 60°-70° | 2167.2 | 28.1 |
| 70°-80° | 1060.3 | 13.7 |
| 80°-90° | 140.8 | 1.8 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 879.7 | 11.4 |
| 0°-40° | 1609.0 | 20.9 |
| 0°-60° | 4347.3 | 56.3 |
| 0°-90° | 7715.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 7715.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 843 | 843 | 843 | 843 | 843 | |
| 5° | 933 | 906 | 856 | 813 | 800 | 93 |
| 15° | 1209 | 1100 | 999 | 905 | 887 | 343 |
| 25° | 1332 | 1187 | 1189 | 992 | 722 | 613 |
| 35° | 1291 | 1410 | 1617 | 765 | 303 | 814 |
| 45° | 1438 | 2254 | 2444 | 275 | 184 | 1136 |
| 55° | 1902 | 2982 | 3374 | 167 | 156 | 1679 |
| 65° | 1676 | 3802 | 4409 | 186 | 136 | 1627 |
| 75° | 439 | 1308 | 1404 | 216 | 108 | 547 |
| 85° | 23 | 72 | 41 | 52 | 37 | 34 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P151237

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 61° | 62° | 64° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 842.8 | 842.8 | 842.8 | 842.8 | 842.8 | 842.8 | 842.8 | 842.8 | 842.8 | 842.8 | 842.8 |
| 2.5° | 882.7 | 883.5 | 881.8 | 881.0 | 875.9 | 870.8 | 867.4 | 863.2 | 863.2 | 863.2 | 861.5 |
| 5° | 932.6 | 929.2 | 931.8 | 925.9 | 915.7 | 906.4 | 897.1 | 889.4 | 887.7 | 887.7 | 884.3 |
| 7.5° | 992.8 | 988.5 | 986.8 | 978.4 | 963.1 | 949.6 | 930.9 | 923.3 | 919.1 | 917.4 | 915.7 |
| 10° | 1065.6 | 1065.6 | 1054.6 | 1040.2 | 1019.9 | 996.2 | 975.8 | 962.3 | 961.4 | 961.4 | 953.8 |
| 12.5° | 1140.2 | 1141.9 | 1127.5 | 1113.1 | 1080.0 | 1048.7 | 1025.0 | 1009.7 | 1008.9 | 1005.5 | 1001.2 |
| 15° | 1208.8 | 1204.5 | 1195.2 | 1174.0 | 1137.6 | 1100.4 | 1070.7 | 1055.5 | 1052.1 | 1048.7 | 1046.1 |
| 17.5° | 1265.5 | 1261.3 | 1249.4 | 1222.3 | 1184.2 | 1140.2 | 1103.7 | 1087.6 | 1086.0 | 1084.3 | 1080.9 |
| 20° | 1301.1 | 1297.7 | 1280.8 | 1249.4 | 1209.6 | 1164.7 | 1125.8 | 1114.8 | 1111.4 | 1111.4 | 1109.7 |
| 22.5° | 1321.4 | 1316.4 | 1291.8 | 1250.3 | 1211.3 | 1178.3 | 1146.1 | 1139.3 | 1136.8 | 1137.6 | 1137.6 |
| 25° | 1331.6 | 1327.4 | 1292.6 | 1233.3 | 1196.1 | 1186.8 | 1173.2 | 1169.0 | 1169.8 | 1170.7 | 1172.4 |
| 27.5° | 1333.3 | 1327.4 | 1286.7 | 1211.3 | 1176.6 | 1202.8 | 1212.2 | 1218.9 | 1218.9 | 1222.3 | 1228.3 |
| 30° | 1320.6 | 1313.8 | 1274.8 | 1194.4 | 1168.1 | 1235.0 | 1272.3 | 1290.1 | 1296.9 | 1295.2 | 1308.7 |
| 32.5° | 1298.6 | 1294.3 | 1263.0 | 1194.4 | 1191.8 | 1298.6 | 1364.6 | 1390.1 | 1393.4 | 1395.1 | 1410.4 |
| 35° | 1290.9 | 1290.1 | 1276.5 | 1235.0 | 1265.5 | 1410.4 | 1511.2 | 1530.7 | 1534.9 | 1534.9 | 1545.9 |
| 37.5° | 1289.2 | 1293.5 | 1308.7 | 1311.3 | 1395.1 | 1576.4 | 1708.6 | 1738.2 | 1738.2 | 1746.7 | 1746.7 |
| 40° | 1289.2 | 1298.6 | 1356.2 | 1424.8 | 1553.5 | 1792.4 | 1975.4 | 2009.3 | 2009.3 | 2018.6 | 2013.5 |
| 42.5° | 1339.2 | 1352.8 | 1447.7 | 1578.1 | 1753.4 | 2015.2 | 2225.3 | 2263.4 | 2265.9 | 2263.4 | 2271.0 |
| 45° | 1437.5 | 1449.3 | 1564.5 | 1751.8 | 1959.3 | 2254.1 | 2464.1 | 2509.9 | 2500.6 | 2506.5 | 2509.0 |
| 47.5° | 1567.9 | 1586.6 | 1717.9 | 1941.5 | 2160.0 | 2475.2 | 2731.8 | 2773.3 | 2769.9 | 2772.5 | 2761.5 |
| 50° | 1706.9 | 1726.3 | 1872.9 | 2129.5 | 2360.0 | 2653.0 | 2947.0 | 3008.8 | 3002.9 | 3007.1 | 3013.0 |
| 52.5° | 1829.7 | 1841.5 | 1983.0 | 2271.0 | 2511.6 | 2819.1 | 3112.2 | 3189.2 | 3202.8 | 3204.5 | 3208.7 |
| 55° | 1902.5 | 1916.9 | 2046.5 | 2341.3 | 2621.7 | 2981.7 | 3301.1 | 3418.0 | 3444.2 | 3451.0 | 3469.6 |
| 57.5° | 1927.9 | 1943.2 | 2060.9 | 2351.5 | 2681.8 | 3134.2 | 3564.5 | 3770.3 | 3792.4 | 3828.8 | 3888.1 |
| 60° | 1927.1 | 1943.2 | 2045.7 | 2328.6 | 2742.8 | 3323.1 | 3974.5 | 4319.2 | 4431.1 | 4468.3 | 4553.0 |
| 62.5° | 1848.3 | 1867.0 | 1971.1 | 2259.2 | 2820.8 | 3564.5 | 4584.4 | 5114.6 | 5258.6 | 5326.4 | 5417.9 |
| 65° | 1675.5 | 1689.1 | 1786.5 | 2083.0 | 2798.7 | 3802.5 | 5094.3 | 5755.9 | 5887.2 | 5986.3 | 6149.8 |
| 67° | 1522.2 | 1530.7 | 1606.9 | 1874.6 | 2583.6 | 3811.0 | 5255.3 | 5915.1 | 6029.5 | 6134.5 | 6303.1 |
| 67.5° | 1483.2 | 1501.0 | 1560.3 | 1811.0 | 2503.1 | 3762.7 | 5244.2 | 5890.6 | 6007.5 | 6116.7 | 6294.6 |
| 70° | 1207.1 | 1232.5 | 1262.1 | 1430.7 | 1967.8 | 3165.5 | 4855.4 | 5465.3 | 5567.8 | 5669.5 | 5917.7 |
| 72.5° | 744.6 | 790.3 | 796.3 | 903.0 | 1280.8 | 2188.0 | 3928.7 | 4608.9 | 4686.0 | 4758.9 | 5013.0 |
| 75° | 438.8 | 445.6 | 466.7 | 553.1 | 751.4 | 1307.9 | 2636.1 | 3423.9 | 3495.0 | 3530.6 | 3729.7 |
| 77.5° | 244.8 | 251.6 | 269.4 | 343.9 | 577.7 | 881.0 | 1534.9 | 2011.8 | 2055.0 | 2099.9 | 2067.7 |
| 80° | 101.6 | 111.0 | 119.4 | 138.9 | 270.2 | 695.4 | 1055.5 | 1279.1 | 1307.0 | 1333.3 | 1366.3 |
| 82.5° | 49.1 | 52.5 | 64.4 | 73.7 | 98.3 | 285.5 | 827.6 | 1108.8 | 1141.9 | 1180.0 | 1257.1 |
| 85° | 22.9 | 25.4 | 35.6 | 42.4 | 47.4 | 72.0 | 277.0 | 539.6 | 585.3 | 593.8 | 609.0 |
| 87.5° | 1.7 | 1.7 | 4.2 | 5.9 | 8.5 | 9.3 | 28.8 | 40.7 | 45.7 | 41.5 | 52.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P151237

CATALOG NUMBER: TLM-F03-LED-E1-SL3-7060

CANDELA DISTRIBUTION (continued):

| | 65° | 66° | 67° | 68° | 69° | 70° | 71° | 72° | 73° | 74° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 842.8 | 842.8 | 842.8 | 842.8 | 842.8 | 842.8 | 842.8 | 842.8 | 842.8 | 842.8 | 842.8 |
| 2.5° | 860.6 | 859.8 | 858.1 | 858.1 | 857.2 | 857.2 | 857.2 | 855.5 | 855.5 | 855.5 | 854.7 |
| 5° | 883.5 | 882.7 | 880.1 | 880.1 | 878.4 | 878.4 | 875.9 | 875.0 | 873.3 | 873.3 | 872.5 |
| 7.5° | 913.1 | 912.3 | 908.9 | 908.9 | 906.4 | 905.5 | 903.8 | 901.3 | 901.3 | 899.6 | 897.9 |
| 10° | 953.8 | 951.3 | 950.4 | 946.2 | 947.0 | 945.3 | 943.6 | 941.1 | 939.4 | 937.7 | 936.0 |
| 12.5° | 999.5 | 999.5 | 995.3 | 992.8 | 994.5 | 992.8 | 989.4 | 988.5 | 986.0 | 986.0 | 983.5 |
| 15° | 1042.8 | 1042.8 | 1041.1 | 1037.7 | 1038.5 | 1036.0 | 1035.1 | 1033.4 | 1030.0 | 1030.9 | 1030.0 |
| 17.5° | 1080.0 | 1080.0 | 1077.5 | 1075.8 | 1075.8 | 1073.2 | 1074.1 | 1072.4 | 1070.7 | 1069.9 | 1067.3 |
| 20° | 1109.7 | 1109.7 | 1108.0 | 1106.3 | 1107.1 | 1107.1 | 1104.6 | 1104.6 | 1104.6 | 1102.9 | 1102.9 |
| 22.5° | 1138.5 | 1139.3 | 1139.3 | 1139.3 | 1140.2 | 1141.0 | 1140.2 | 1141.9 | 1141.0 | 1142.7 | 1142.7 |
| 25° | 1176.6 | 1179.1 | 1180.8 | 1180.8 | 1185.1 | 1185.9 | 1186.8 | 1189.3 | 1189.3 | 1191.8 | 1192.7 |
| 27.5° | 1233.3 | 1235.0 | 1241.8 | 1243.5 | 1244.4 | 1251.1 | 1252.0 | 1255.4 | 1258.8 | 1259.6 | 1260.4 |
| 30° | 1311.3 | 1315.5 | 1320.6 | 1324.0 | 1324.0 | 1332.4 | 1335.8 | 1334.1 | 1343.5 | 1346.0 | 1349.4 |
| 32.5° | 1415.5 | 1418.9 | 1423.9 | 1427.3 | 1430.7 | 1434.9 | 1435.8 | 1440.0 | 1447.7 | 1454.4 | 1450.2 |
| 35° | 1546.8 | 1555.2 | 1546.8 | 1556.1 | 1558.6 | 1564.5 | 1562.9 | 1567.9 | 1571.3 | 1573.9 | 1573.0 |
| 37.5° | 1737.4 | 1733.1 | 1731.4 | 1728.0 | 1722.1 | 1742.4 | 1732.3 | 1731.4 | 1726.3 | 1740.7 | 1731.4 |
| 40° | 1988.1 | 1990.6 | 1993.2 | 1979.6 | 1972.0 | 1972.0 | 1969.5 | 1960.1 | 1955.9 | 1968.6 | 1966.9 |
| 42.5° | 2249.8 | 2252.4 | 2240.5 | 2232.0 | 2212.6 | 2210.0 | 2198.2 | 2195.6 | 2191.4 | 2198.2 | 2191.4 |
| 45° | 2487.9 | 2489.6 | 2463.3 | 2467.5 | 2452.3 | 2454.8 | 2436.2 | 2443.8 | 2433.6 | 2440.4 | 2453.1 |
| 47.5° | 2753.8 | 2757.2 | 2734.4 | 2743.7 | 2728.4 | 2719.1 | 2718.3 | 2723.3 | 2712.3 | 2719.1 | 2722.5 |
| 50° | 2995.3 | 2991.0 | 2979.2 | 2981.7 | 2974.9 | 2976.6 | 2966.5 | 2975.8 | 2963.1 | 2976.6 | 2974.9 |
| 52.5° | 3209.6 | 3204.5 | 3201.9 | 3210.4 | 3204.5 | 3204.5 | 3198.6 | 3202.8 | 3204.5 | 3224.8 | 3229.1 |
| 55° | 3469.6 | 3473.9 | 3478.1 | 3493.3 | 3500.1 | 3489.1 | 3500.1 | 3521.3 | 3522.1 | 3570.4 | 3596.7 |
| 57.5° | 3887.2 | 3916.9 | 3932.1 | 3941.4 | 3981.3 | 3977.0 | 4002.4 | 4053.3 | 4058.3 | 4170.2 | 4235.4 |
| 60° | 4615.7 | 4668.2 | 4718.2 | 4691.1 | 4771.6 | 4796.1 | 4811.4 | 4906.3 | 4935.9 | 5041.8 | 5098.5 |
| 62.5° | 5535.6 | 5541.6 | 5619.5 | 5594.9 | 5640.7 | 5629.7 | 5648.3 | 5691.5 | 5730.5 | 5817.7 | 5871.1 |
| 65° | 6177.7 | 6205.7 | 6236.2 | 6204.8 | 6204.0 | 6166.7 | 6143.0 | 6142.1 | 6165.9 | 6184.5 | 6243.8 |
| 67° | 6352.2 | 6380.2 | 6387.8 | 6364.9 | 6331.9 | 6284.5 | 6240.4 | 6217.5 | 6202.3 | 6210.8 | 6248.0 |
| 67.5° | 6350.5 | 6376.8 | 6386.1 | 6364.1 | 6318.3 | 6278.5 | 6231.9 | 6205.7 | 6185.3 | 6189.6 | 6220.9 |
| 70° | 5989.7 | 6046.4 | 6076.9 | 6083.7 | 6077.8 | 6008.3 | 5968.5 | 5944.8 | 5927.8 | 5886.3 | 5883.8 |
| 72.5° | 5074.8 | 5143.4 | 5167.2 | 5205.3 | 5222.2 | 5119.7 | 5076.5 | 5102.8 | 5043.5 | 4912.2 | 4918.1 |
| 75° | 3726.3 | 3731.4 | 3651.7 | 3636.5 | 3579.7 | 3347.6 | 3278.2 | 3214.7 | 3113.0 | 2954.6 | 2805.5 |
| 77.5° | 1942.3 | 1941.5 | 1850.0 | 1803.4 | 1735.7 | 1595.9 | 1589.1 | 1475.6 | 1396.0 | 1251.1 | 1198.6 |
| 80° | 1379.9 | 1401.9 | 1432.4 | 1447.7 | 1423.9 | 1369.7 | 1295.2 | 1214.7 | 1122.4 | 1031.7 | 923.3 |
| 82.5° | 1283.3 | 1296.9 | 1313.0 | 1253.7 | 1220.6 | 1144.4 | 1087.6 | 970.7 | 905.5 | 802.2 | 692.9 |
| 85° | 624.3 | 665.8 | 633.6 | 596.3 | 583.6 | 456.6 | 441.3 | 368.5 | 334.6 | 275.3 | 256.7 |
| 87.5° | 39.8 | 49.1 | 44.0 | 39.8 | 34.7 | 19.5 | 26.3 | 18.6 | 19.5 | 14.4 | 12.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P151237

CATALOG NUMBER: TLM-F03-LED-E1-SL3-7060

CANDELA DISTRIBUTION (continued):

| | 76° | 77° | 78° | 79° | 80° | 81° | 82° | 83° | 84° | 85° | 86° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 842.8 | 842.8 | 842.8 | 842.8 | 842.8 | 842.8 | 842.8 | 842.8 | 842.8 | 842.8 | 842.8 |
| 2.5° | 854.7 | 853.9 | 853.0 | 852.2 | 851.3 | 851.3 | 850.5 | 849.6 | 848.8 | 847.1 | 847.1 |
| 5° | 870.8 | 870.8 | 869.9 | 868.3 | 868.3 | 866.6 | 864.0 | 863.2 | 863.2 | 861.5 | 859.8 |
| 7.5° | 897.1 | 896.2 | 894.5 | 893.7 | 892.0 | 890.3 | 888.6 | 886.9 | 886.0 | 883.5 | 882.7 |
| 10° | 936.9 | 935.2 | 930.9 | 929.2 | 928.4 | 926.7 | 925.0 | 923.3 | 920.8 | 919.1 | 918.2 |
| 12.5° | 981.8 | 980.9 | 977.5 | 979.2 | 975.0 | 973.3 | 971.6 | 967.4 | 969.1 | 965.7 | 964.0 |
| 15° | 1026.7 | 1027.5 | 1025.8 | 1025.8 | 1022.4 | 1019.9 | 1018.2 | 1014.8 | 1013.9 | 1012.3 | 1010.6 |
| 17.5° | 1066.5 | 1068.2 | 1065.6 | 1063.9 | 1062.2 | 1060.5 | 1057.2 | 1053.8 | 1053.8 | 1050.4 | 1048.7 |
| 20° | 1102.9 | 1104.6 | 1103.7 | 1102.0 | 1099.5 | 1098.7 | 1097.0 | 1094.4 | 1094.4 | 1092.7 | 1090.2 |
| 22.5° | 1144.4 | 1145.2 | 1145.2 | 1144.4 | 1141.9 | 1142.7 | 1141.0 | 1138.5 | 1139.3 | 1135.9 | 1135.9 |
| 25° | 1194.4 | 1196.1 | 1197.8 | 1198.6 | 1196.9 | 1197.8 | 1196.1 | 1194.4 | 1193.5 | 1194.4 | 1193.5 |
| 27.5° | 1263.0 | 1264.7 | 1269.8 | 1265.5 | 1269.8 | 1270.6 | 1268.1 | 1264.7 | 1267.2 | 1271.5 | 1268.9 |
| 30° | 1353.6 | 1351.9 | 1358.7 | 1359.6 | 1358.7 | 1359.6 | 1357.9 | 1355.3 | 1357.0 | 1364.6 | 1360.4 |
| 32.5° | 1455.3 | 1458.7 | 1460.4 | 1462.1 | 1464.6 | 1468.0 | 1465.4 | 1462.9 | 1467.1 | 1464.6 | 1470.5 |
| 35° | 1578.1 | 1585.7 | 1588.3 | 1585.7 | 1587.4 | 1593.3 | 1592.5 | 1593.3 | 1601.8 | 1593.3 | 1604.4 |
| 37.5° | 1733.1 | 1740.7 | 1746.7 | 1743.3 | 1747.5 | 1747.5 | 1754.3 | 1772.9 | 1761.1 | 1776.3 | 1788.2 |
| 40° | 1958.4 | 1970.3 | 1971.1 | 1970.3 | 1974.5 | 1979.6 | 1986.4 | 2006.7 | 1993.2 | 2009.3 | 2020.3 |
| 42.5° | 2190.5 | 2204.9 | 2210.0 | 2201.5 | 2210.9 | 2221.9 | 2222.7 | 2240.5 | 2241.4 | 2243.9 | 2249.8 |
| 45° | 2452.3 | 2465.0 | 2475.2 | 2470.9 | 2471.8 | 2486.2 | 2482.8 | 2499.7 | 2487.0 | 2487.0 | 2490.4 |
| 47.5° | 2731.0 | 2742.8 | 2749.6 | 2756.4 | 2747.9 | 2760.6 | 2766.5 | 2763.2 | 2747.9 | 2744.5 | 2724.2 |
| 50° | 2985.1 | 2995.3 | 3005.4 | 3024.1 | 3023.2 | 3029.1 | 3033.4 | 3018.1 | 3014.7 | 2996.1 | 2973.2 |
| 52.5° | 3254.5 | 3280.7 | 3303.6 | 3342.6 | 3348.5 | 3368.8 | 3361.2 | 3335.8 | 3331.5 | 3301.1 | 3270.6 |
| 55° | 3629.7 | 3705.1 | 3738.1 | 3798.3 | 3838.9 | 3838.1 | 3821.2 | 3816.9 | 3784.7 | 3723.7 | 3687.3 |
| 57.5° | 4282.8 | 4400.6 | 4457.3 | 4535.2 | 4547.9 | 4540.3 | 4518.3 | 4479.3 | 4423.4 | 4320.9 | 4254.9 |
| 60° | 5225.6 | 5298.5 | 5364.5 | 5383.2 | 5392.5 | 5378.1 | 5301.0 | 5214.6 | 5105.3 | 4963.9 | 4846.1 |
| 62.5° | 5938.0 | 6012.5 | 6061.7 | 6054.0 | 5995.6 | 5921.9 | 5809.2 | 5664.4 | 5511.1 | 5352.7 | 5176.5 |
| 65° | 6300.5 | 6331.9 | 6324.3 | 6265.0 | 6165.0 | 6036.3 | 5871.9 | 5693.2 | 5512.8 | 5325.6 | 5142.6 |
| 67° | 6281.1 | 6281.9 | 6230.2 | 6115.0 | 5987.1 | 5825.3 | 5624.6 | 5429.8 | 5218.0 | 5021.5 | 4803.8 |
| 67.5° | 6246.3 | 6242.9 | 6170.9 | 6044.7 | 5906.7 | 5739.8 | 5531.4 | 5329.8 | 5110.4 | 4912.2 | 4686.9 |
| 70° | 5853.3 | 5805.9 | 5643.2 | 5441.6 | 5249.3 | 5024.0 | 4805.5 | 4574.2 | 4326.9 | 4156.6 | 3897.4 |
| 72.5° | 4809.7 | 4649.6 | 4369.2 | 4158.3 | 3952.5 | 3657.7 | 3521.3 | 3234.1 | 3060.5 | 2952.1 | 2756.4 |
| 75° | 2785.2 | 2651.3 | 2434.5 | 2237.1 | 2137.2 | 1962.7 | 1879.7 | 1668.7 | 1624.7 | 1623.0 | 1555.2 |
| 77.5° | 1063.1 | 927.5 | 787.8 | 634.5 | 539.6 | 428.6 | 377.8 | 338.0 | 307.5 | 328.7 | 298.2 |
| 80° | 797.1 | 655.6 | 512.5 | 372.7 | 266.0 | 196.5 | 168.6 | 155.9 | 148.2 | 142.3 | 138.1 |
| 82.5° | 593.8 | 468.4 | 363.4 | 237.2 | 166.0 | 125.4 | 108.4 | 101.6 | 98.3 | 92.3 | 87.2 |
| 85° | 200.8 | 160.9 | 127.1 | 88.1 | 69.5 | 56.8 | 52.5 | 50.8 | 48.3 | 44.0 | 41.5 |
| 87.5° | 11.0 | 10.2 | 11.0 | 8.5 | 10.2 | 8.5 | 9.3 | 9.3 | 9.3 | 8.5 | 8.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P151237

CATALOG NUMBER: TLM-F03-LED-E1-SL3-7060

CANDELA DISTRIBUTION (continued):

| | 87° | 88° | 89° | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 0° | 842.8 | 842.8 | 842.8 | 842.8 | 842.8 | 842.8 | 842.8 | 842.8 | 842.8 | 842.8 | 842.8 |
| 2.5° | 846.2 | 846.2 | 846.2 | 844.5 | 842.0 | 836.9 | 831.8 | 827.6 | 823.4 | 820.8 | 819.1 |
| 5° | 858.9 | 857.2 | 856.4 | 855.5 | 849.6 | 839.5 | 830.1 | 821.7 | 813.2 | 806.4 | 803.9 |
| 7.5° | 881.8 | 878.4 | 877.6 | 875.0 | 867.4 | 852.2 | 838.6 | 825.1 | 813.2 | 803.9 | 799.6 |
| 10° | 916.5 | 916.5 | 911.5 | 908.1 | 899.6 | 879.3 | 859.8 | 842.0 | 825.9 | 815.7 | 813.2 |
| 12.5° | 960.6 | 960.6 | 956.3 | 953.8 | 943.6 | 917.4 | 893.7 | 872.5 | 857.2 | 847.1 | 846.2 |
| 15° | 1006.3 | 1005.5 | 1002.1 | 998.7 | 987.7 | 959.7 | 936.0 | 917.4 | 904.7 | 892.8 | 889.4 |
| 17.5° | 1047.0 | 1047.0 | 1042.8 | 1039.4 | 1028.3 | 1004.6 | 983.5 | 969.9 | 955.5 | 930.9 | 912.3 |
| 20° | 1087.6 | 1088.5 | 1085.1 | 1081.7 | 1072.4 | 1052.1 | 1042.8 | 1029.2 | 997.0 | 943.6 | 899.6 |
| 22.5° | 1132.5 | 1135.9 | 1131.7 | 1128.3 | 1120.7 | 1112.2 | 1108.8 | 1076.6 | 1008.9 | 923.3 | 858.9 |
| 25° | 1190.1 | 1196.1 | 1191.0 | 1189.3 | 1185.1 | 1187.6 | 1177.4 | 1102.9 | 991.9 | 879.3 | 798.8 |
| 27.5° | 1268.9 | 1268.9 | 1269.8 | 1269.8 | 1268.1 | 1277.4 | 1240.1 | 1103.7 | 954.7 | 822.5 | 726.8 |
| 30° | 1361.3 | 1366.3 | 1364.6 | 1364.6 | 1371.4 | 1377.3 | 1274.8 | 1085.1 | 907.2 | 752.2 | 638.7 |
| 32.5° | 1472.2 | 1476.5 | 1478.1 | 1470.5 | 1497.6 | 1467.1 | 1287.6 | 1051.2 | 848.8 | 665.0 | 533.7 |
| 35° | 1606.1 | 1612.0 | 1616.2 | 1617.1 | 1634.9 | 1545.1 | 1280.8 | 1001.2 | 764.9 | 555.7 | 418.5 |
| 37.5° | 1780.6 | 1792.4 | 1801.7 | 1806.0 | 1806.8 | 1611.1 | 1262.1 | 935.2 | 655.6 | 433.7 | 311.7 |
| 40° | 2012.7 | 2025.4 | 2022.8 | 2031.3 | 1983.0 | 1650.1 | 1219.8 | 839.5 | 520.1 | 318.5 | 240.6 |
| 42.5° | 2236.3 | 2238.0 | 2241.4 | 2233.7 | 2135.5 | 1670.4 | 1160.5 | 722.6 | 389.7 | 238.0 | 205.8 |
| 45° | 2486.2 | 2471.8 | 2455.7 | 2443.8 | 2276.1 | 1678.1 | 1079.2 | 580.2 | 275.3 | 199.9 | 190.6 |
| 47.5° | 2720.8 | 2701.3 | 2668.3 | 2634.4 | 2401.5 | 1666.2 | 975.0 | 434.5 | 209.2 | 183.0 | 180.4 |
| 50° | 2951.2 | 2914.8 | 2868.2 | 2829.2 | 2521.7 | 1648.4 | 859.8 | 313.4 | 183.0 | 174.5 | 172.0 |
| 52.5° | 3236.7 | 3175.7 | 3114.7 | 3063.9 | 2678.5 | 1620.5 | 738.6 | 238.0 | 172.0 | 167.7 | 164.3 |
| 55° | 3628.0 | 3543.3 | 3445.1 | 3373.9 | 2891.1 | 1578.1 | 611.6 | 201.6 | 166.9 | 163.5 | 158.4 |
| 57.5° | 4170.2 | 4043.1 | 3932.1 | 3816.1 | 3181.6 | 1534.9 | 502.3 | 187.2 | 166.0 | 160.9 | 154.2 |
| 60° | 4724.1 | 4571.7 | 4430.2 | 4264.2 | 3478.1 | 1491.7 | 426.1 | 185.5 | 168.6 | 160.9 | 150.8 |
| 62.5° | 5012.1 | 4854.6 | 4684.3 | 4515.8 | 3606.0 | 1390.1 | 373.6 | 188.1 | 174.5 | 163.5 | 150.8 |
| 65° | 4946.1 | 4753.8 | 4581.0 | 4409.0 | 3457.8 | 1197.8 | 316.0 | 191.4 | 186.4 | 173.7 | 153.3 |
| 67° | 4614.0 | 4413.3 | 4247.2 | 4082.9 | 3127.4 | 1002.9 | 271.1 | 194.8 | 199.1 | 185.5 | 158.4 |
| 67.5° | 4497.1 | 4296.4 | 4132.9 | 3972.8 | 3030.0 | 962.3 | 260.1 | 196.5 | 201.6 | 188.9 | 160.1 |
| 70° | 3728.8 | 3581.4 | 3407.8 | 3284.1 | 2453.1 | 712.4 | 213.5 | 199.9 | 216.9 | 208.4 | 167.7 |
| 72.5° | 2683.5 | 2542.9 | 2412.5 | 2343.9 | 1806.8 | 498.1 | 179.6 | 196.5 | 226.2 | 219.4 | 171.1 |
| 75° | 1426.5 | 1418.0 | 1370.6 | 1404.5 | 1118.1 | 325.3 | 158.4 | 183.8 | 216.0 | 200.8 | 159.3 |
| 77.5° | 288.0 | 296.5 | 348.1 | 343.1 | 360.9 | 181.3 | 135.5 | 157.6 | 166.9 | 147.4 | 129.6 |
| 80° | 133.8 | 131.3 | 128.8 | 130.4 | 127.9 | 116.0 | 110.1 | 123.7 | 116.0 | 94.9 | 86.4 |
| 82.5° | 83.0 | 81.3 | 78.8 | 77.9 | 86.4 | 92.3 | 96.6 | 97.4 | 77.1 | 66.1 | 63.5 |
| 85° | 39.8 | 39.8 | 39.0 | 40.7 | 50.8 | 75.4 | 81.3 | 72.0 | 51.7 | 47.4 | 44.9 |
| 87.5° | 7.6 | 7.6 | 8.5 | 7.6 | 10.2 | 17.8 | 20.3 | 23.7 | 19.5 | 20.3 | 22.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P151237

CATALOG NUMBER: TLM-F03-LED-E1-SL3-7060

CANDELA DISTRIBUTION (continued):

| | 165° | 175° | 180° |
|-------|-------|-------|-------|
| 0° | 842.8 | 842.8 | 842.8 |
| 2.5° | 817.4 | 815.7 | 815.7 |
| 5° | 800.5 | 799.6 | 799.6 |
| 7.5° | 796.3 | 797.1 | 796.3 |
| 10° | 812.3 | 811.5 | 814.9 |
| 12.5° | 847.9 | 850.5 | 849.6 |
| 15° | 885.2 | 886.9 | 886.9 |
| 17.5° | 896.2 | 890.3 | 889.4 |
| 20° | 867.4 | 856.4 | 853.9 |
| 22.5° | 813.2 | 792.9 | 793.7 |
| 25° | 744.6 | 720.0 | 721.7 |
| 27.5° | 665.0 | 638.7 | 637.8 |
| 30° | 569.2 | 540.4 | 526.0 |
| 32.5° | 454.0 | 419.3 | 419.3 |
| 35° | 341.4 | 313.4 | 303.3 |
| 37.5° | 259.2 | 243.1 | 238.0 |
| 40° | 216.0 | 208.4 | 206.7 |
| 42.5° | 196.5 | 194.0 | 193.1 |
| 45° | 186.4 | 184.7 | 183.8 |
| 47.5° | 177.0 | 176.2 | 175.3 |
| 50° | 170.3 | 169.4 | 168.6 |
| 52.5° | 164.3 | 162.6 | 161.8 |
| 55° | 155.9 | 155.9 | 155.9 |
| 57.5° | 150.8 | 150.8 | 149.9 |
| 60° | 145.7 | 144.8 | 144.8 |
| 62.5° | 141.5 | 139.8 | 140.6 |
| 65° | 138.9 | 136.4 | 136.4 |
| 67° | 137.2 | 132.1 | 132.1 |
| 67.5° | 137.2 | 130.4 | 130.4 |
| 70° | 134.7 | 123.7 | 122.0 |
| 72.5° | 132.1 | 116.0 | 113.5 |
| 75° | 125.4 | 110.1 | 107.6 |
| 77.5° | 107.6 | 98.3 | 96.6 |
| 80° | 83.0 | 72.0 | 73.7 |
| 82.5° | 60.1 | 51.7 | 50.8 |
| 85° | 43.2 | 37.3 | 37.3 |
| 87.5° | 22.9 | 19.5 | 20.3 |
| 90° | 0.0 | 0.0 | 0.0 |

(END OF REPORT)