

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: P150089

Luminaire Tested: **TLM-E03-LED-E1-SL2-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P150089  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33678)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: TLM-E03-LED-E1-SL2-7030  
Description: TALON MEDIUM LED SITE LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL  
Light Source: (63) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

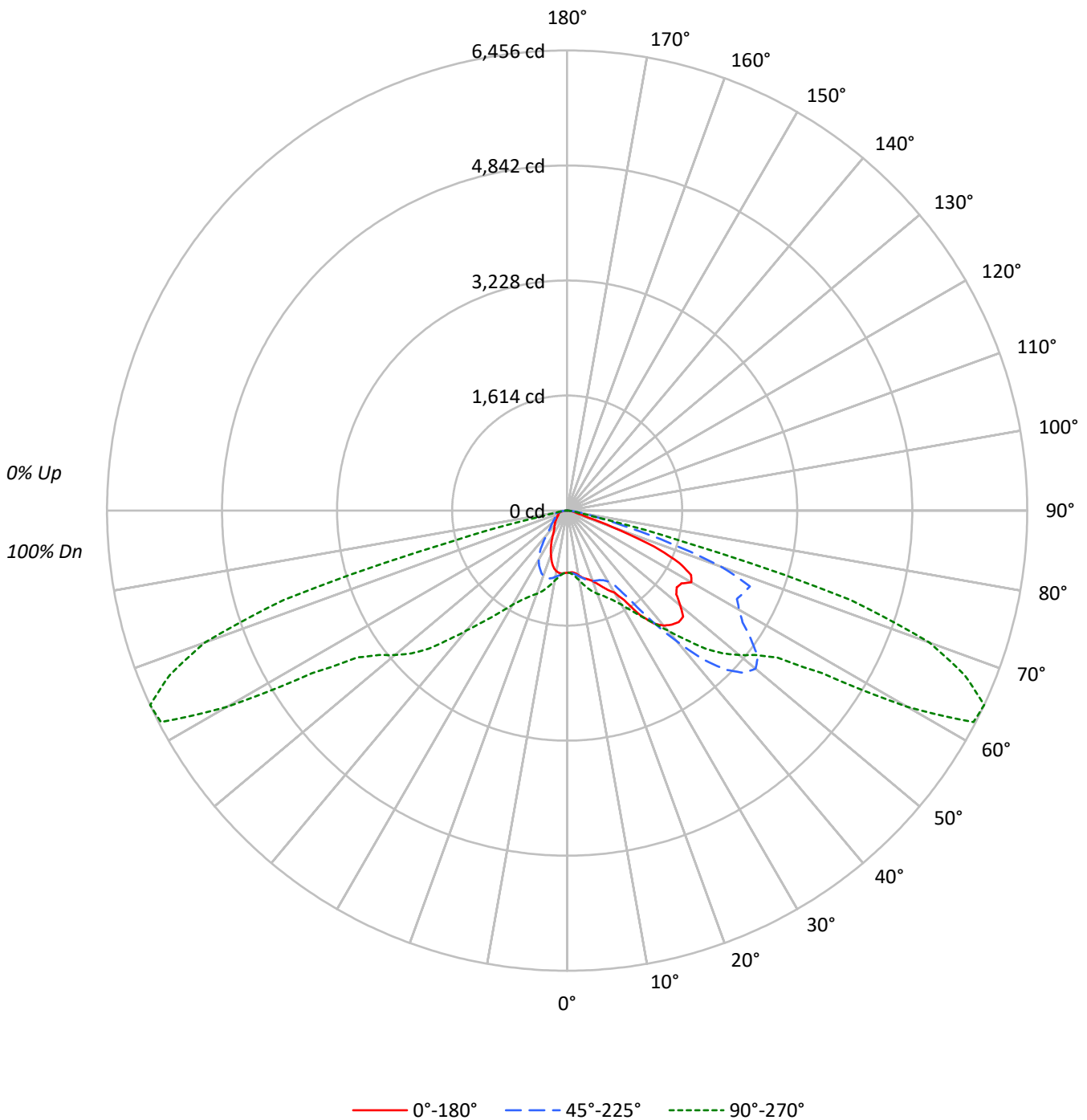
Lumens per Lamp: N/A  
Luminaire Lumens: 8371.1 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Spacing Criteria (0/90/45): 1.99 / 4.45 / 2.31  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
CIE Type: Direct

Input Watts (W): 75.2  
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: P150089  
CATALOG NUMBER: TLM-E03-LED-E1-SL2-7030

### Luminous Intensity Polar Plot





TEST NUMBER: P150089

CATALOG NUMBER: TLM-E03-LED-E1-SL2-7030

**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  | 90  | 103 | 98  | 93  | 88  | 93  | 89  | 85  | 89  | 86  | 83  | 85  | 83  | 80  | 78  |    |    |    |    | 78  |   |  |   |
| 2   | 93  | 83  | 74  | 67  | 90  | 81  | 73  | 66  | 77  | 70  | 64  | 74  | 68  | 63  | 70  | 66  | 61  | 59  |    |    |    |    | 59  |   |  |   |
| 3   | 82  | 69  | 59  | 51  | 80  | 68  | 58  | 51  | 64  | 56  | 50  | 61  | 54  | 49  | 59  | 53  | 48  | 45  |    |    |    |    | 45  |   |  |   |
| 4   | 74  | 59  | 48  | 40  | 71  | 57  | 47  | 40  | 55  | 46  | 39  | 52  | 45  | 38  | 50  | 43  | 38  | 35  |    |    |    |    | 35  |   |  |   |
| 5   | 66  | 51  | 40  | 32  | 64  | 50  | 39  | 32  | 47  | 38  | 31  | 45  | 37  | 31  | 43  | 36  | 30  | 28  |    |    |    |    | 28  |   |  |   |
| 6   | 60  | 44  | 34  | 26  | 58  | 43  | 33  | 26  | 41  | 32  | 26  | 40  | 32  | 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  | 34  | 25  | 19  | 33  | 24  | 18  | 32  | 24  | 18  | 30  | 23  | 18  | 16  |    |    |    |    | 16  |   |  |   |
| 9   | 47  | 32  | 22  | 16  | 46  | 31  | 22  | 16  | 30  | 22  | 16  | 29  | 21  | 16  | 28  | 21  | 16  | 14  |    |    |    |    | 14  |   |  |   |
| 10  | 44  | 29  | 20  | 14  | 42  | 28  | 20  | 14  | 27  | 19  | 14  | 26  | 19  | 14  | 25  | 19  | 14  | 12  |    |    |    |    | 12  |   |  |   |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 90°    | 180°  |
|-----|-------|--------|-------|
| 0°  | 18757 | 18757  | 18757 |
| 5°  | 18771 | 19462  | 19144 |
| 10° | 20085 | 21823  | 18907 |
| 15° | 22004 | 25200  | 17587 |
| 20° | 24126 | 28435  | 15191 |
| 25° | 28138 | 32086  | 12561 |
| 30° | 33012 | 37802  | 9921  |
| 35° | 47071 | 47670  | 8281  |
| 40° | 59215 | 61680  | 7700  |
| 45° | 67375 | 83392  | 7313  |
| 50° | 69407 | 105595 | 6913  |
| 55° | 70411 | 134652 | 6718  |
| 60° | 86632 | 236892 | 6687  |
| 65° | 88492 | 328843 | 7025  |
| 70° | 42430 | 340390 | 7994  |
| 75° | 11703 | 140162 | 9723  |
| 80° | 9856  | 19588  | 9620  |
| 85° | 6546  | 12177  | 10374 |



TEST NUMBER: P150089

CATALOG NUMBER: TLM-E03-LED-E1-SL2-7030

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 86.6   | 1.0       |
| 10°-20°   | 283.2  | 3.4       |
| 20°-30°   | 489.2  | 5.8       |
| 30°-40°   | 809.7  | 9.7       |
| 40°-50°   | 1373.3 | 16.4      |
| 50°-60°   | 1824.7 | 21.8      |
| 60°-70°   | 2357.0 | 28.2      |
| 70°-80°   | 988.5  | 11.8      |
| 80°-90°   | 158.8  | 1.9       |
| 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°    | 859.0  | 10.3      |
| 0°-40°    | 1668.8 | 19.9      |
| 0°-60°    | 4866.7 | 58.1      |
| 0°-90°    | 8371.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 8371.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 871  | 871  | 871  | 871  | 871  |      |
| 5°  | 869  | 883  | 901  | 895  | 886  | 85   |
| 15° | 987  | 999  | 1131 | 986  | 789  | 282  |
| 25° | 1185 | 1076 | 1351 | 903  | 529  | 553  |
| 35° | 1791 | 1494 | 1814 | 639  | 315  | 1109 |
| 45° | 2213 | 3158 | 2739 | 328  | 240  | 1681 |
| 55° | 1876 | 3147 | 3588 | 223  | 179  | 1738 |
| 65° | 1737 | 2729 | 6456 | 177  | 138  | 1570 |
| 75° | 141  | 785  | 1685 | 184  | 117  | 226  |
| 85° | 26   | 66   | 49   | 57   | 42   | 35   |
| 90° | 0    | 0    | 0    | 0    | 0    |      |



TEST NUMBER: P150089

CATALOG NUMBER: TLM-E03-LED-E1-SL2-7030

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 60°    | 61°    | 62°    | 64°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 871.3  | 871.3  | 871.3  | 871.3  | 871.3  | 871.3  | 871.3  | 871.3  | 871.3  | 871.3  | 871.3  |
| 2.5°  | 868.6  | 871.3  | 869.5  | 871.3  | 873.2  | 874.1  | 875.9  | 875.0  | 875.0  | 875.9  | 874.1  |
| 5°    | 868.6  | 868.6  | 871.3  | 875.9  | 877.7  | 883.2  | 889.6  | 888.7  | 889.6  | 888.7  | 890.5  |
| 7.5°  | 886.9  | 885.9  | 888.7  | 894.2  | 896.0  | 904.2  | 915.2  | 917.0  | 918.8  | 918.8  | 921.6  |
| 10°   | 918.8  | 917.9  | 920.7  | 923.4  | 926.1  | 932.5  | 948.1  | 954.5  | 955.4  | 956.3  | 959.9  |
| 12.5° | 959.0  | 958.1  | 954.5  | 954.5  | 953.5  | 965.4  | 986.4  | 998.3  | 1000.1 | 1003.8 | 1006.5 |
| 15°   | 987.3  | 984.6  | 979.1  | 975.5  | 980.0  | 999.2  | 1030.3 | 1044.0 | 1045.8 | 1048.5 | 1055.8 |
| 17.5° | 1014.7 | 1012.0 | 1000.1 | 991.0  | 997.4  | 1028.4 | 1070.4 | 1085.1 | 1088.7 | 1091.5 | 1099.7 |
| 20°   | 1053.1 | 1051.3 | 1033.9 | 1012.0 | 1010.2 | 1050.4 | 1101.5 | 1120.7 | 1123.4 | 1127.1 | 1135.3 |
| 22.5° | 1111.5 | 1103.3 | 1083.2 | 1042.1 | 1022.0 | 1063.1 | 1123.4 | 1149.9 | 1153.6 | 1157.2 | 1168.2 |
| 25°   | 1184.6 | 1181.0 | 1146.3 | 1083.2 | 1041.2 | 1075.9 | 1147.2 | 1180.0 | 1185.5 | 1190.1 | 1204.7 |
| 27.5° | 1260.4 | 1254.9 | 1217.5 | 1135.3 | 1075.0 | 1101.5 | 1184.6 | 1222.1 | 1229.4 | 1236.7 | 1250.4 |
| 30°   | 1328.0 | 1326.2 | 1295.1 | 1205.6 | 1129.8 | 1149.9 | 1244.9 | 1290.6 | 1298.8 | 1307.9 | 1320.7 |
| 32.5° | 1486.9 | 1487.8 | 1455.9 | 1364.5 | 1262.3 | 1237.6 | 1331.7 | 1400.2 | 1403.8 | 1414.8 | 1437.6 |
| 35°   | 1791.1 | 1794.7 | 1782.9 | 1710.7 | 1595.6 | 1494.2 | 1503.4 | 1571.0 | 1574.6 | 1583.7 | 1605.7 |
| 37.5° | 1994.8 | 2002.1 | 2038.6 | 2061.4 | 2003.0 | 1956.4 | 1840.4 | 1813.9 | 1816.7 | 1811.2 | 1806.6 |
| 40°   | 2107.1 | 2118.1 | 2214.0 | 2332.7 | 2396.6 | 2397.5 | 2347.3 | 2230.4 | 2185.6 | 2172.9 | 2118.1 |
| 42.5° | 2171.0 | 2189.3 | 2325.4 | 2528.2 | 2711.7 | 2837.8 | 2868.8 | 2739.1 | 2706.3 | 2647.8 | 2542.8 |
| 45°   | 2213.0 | 2235.0 | 2395.7 | 2673.4 | 2943.7 | 3158.4 | 3320.0 | 3262.5 | 3240.6 | 3204.9 | 3108.1 |
| 47.5° | 2205.7 | 2223.1 | 2390.2 | 2722.7 | 3065.2 | 3370.3 | 3657.1 | 3716.4 | 3689.9 | 3680.8 | 3615.0 |
| 50°   | 2072.4 | 2087.9 | 2257.8 | 2600.3 | 2998.5 | 3450.6 | 3870.8 | 4038.8 | 4038.8 | 4056.2 | 4036.1 |
| 52.5° | 1929.9 | 1942.7 | 2097.1 | 2404.9 | 2783.0 | 3372.1 | 3989.5 | 4268.1 | 4304.6 | 4334.8 | 4382.3 |
| 55°   | 1876.0 | 1891.5 | 2008.5 | 2271.5 | 2599.4 | 3147.4 | 4029.7 | 4439.8 | 4507.4 | 4558.5 | 4666.3 |
| 57.5° | 1901.6 | 1917.1 | 2000.2 | 2199.3 | 2491.6 | 2918.2 | 4031.5 | 4670.9 | 4801.5 | 4906.5 | 5124.8 |
| 60°   | 2012.1 | 2026.7 | 2096.1 | 2266.0 | 2463.3 | 2785.7 | 3953.9 | 5039.0 | 5247.2 | 5444.5 | 5808.0 |
| 62.5° | 1961.0 | 1979.2 | 2080.6 | 2376.5 | 2674.3 | 2685.2 | 3673.5 | 5323.9 | 5659.1 | 5950.5 | 6528.6 |
| 65°   | 1737.2 | 1756.4 | 1835.8 | 2112.6 | 2687.1 | 2729.1 | 3257.9 | 5329.4 | 5745.9 | 6139.5 | 6763.4 |
| 67.5° | 1318.9 | 1326.2 | 1389.2 | 1611.2 | 2149.1 | 2777.5 | 2830.5 | 4698.3 | 5094.7 | 5534.0 | 6177.9 |
| 70°   | 674.1  | 686.8  | 705.1  | 889.6  | 1383.7 | 2295.2 | 2432.3 | 3462.5 | 3967.6 | 4421.5 | 5195.1 |
| 72.5° | 233.8  | 238.4  | 256.7  | 339.8  | 674.1  | 1506.1 | 2129.0 | 2372.9 | 2677.9 | 3102.7 | 3998.6 |
| 75°   | 140.7  | 140.7  | 147.0  | 171.7  | 307.8  | 784.6  | 1894.3 | 1938.1 | 1979.2 | 2121.7 | 2708.1 |
| 77.5° | 111.4  | 113.3  | 113.3  | 117.8  | 170.8  | 402.8  | 1438.5 | 1802.0 | 1807.5 | 1821.2 | 1919.9 |
| 80°   | 79.5   | 83.1   | 90.4   | 94.1   | 110.5  | 221.0  | 807.4  | 1581.9 | 1689.7 | 1741.8 | 1813.9 |
| 82.5° | 59.4   | 63.0   | 76.7   | 81.3   | 85.9   | 123.3  | 362.6  | 1091.5 | 1287.8 | 1391.9 | 1645.9 |
| 85°   | 26.5   | 31.1   | 52.1   | 57.5   | 60.3   | 65.8   | 169.9  | 310.5  | 357.1  | 401.0  | 528.8  |
| 87.5° | 4.6    | 4.6    | 8.2    | 11.9   | 17.4   | 16.4   | 37.4   | 53.0   | 53.9   | 63.0   | 70.3   |
| 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: P150089

CATALOG NUMBER: TLM-E03-LED-E1-SL2-7030

**CANDELA DISTRIBUTION (continued):**

|       | 65°    | 66°    | 67°    | 68°    | 69°    | 70°    | 71°    | 72°    | 73°    | 74°    | 75°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 871.3  | 871.3  | 871.3  | 871.3  | 871.3  | 871.3  | 871.3  | 871.3  | 871.3  | 871.3  | 871.3  |
| 2.5°  | 874.1  | 874.1  | 874.1  | 873.2  | 874.1  | 874.1  | 874.1  | 874.1  | 875.0  | 875.0  | 875.0  |
| 5°    | 893.3  | 891.4  | 892.3  | 892.3  | 892.3  | 891.4  | 893.3  | 892.3  | 893.3  | 896.0  | 895.1  |
| 7.5°  | 921.6  | 923.4  | 924.3  | 925.2  | 925.2  | 925.2  | 926.1  | 928.0  | 928.0  | 930.7  | 929.8  |
| 10°   | 963.6  | 962.7  | 963.6  | 966.3  | 969.1  | 970.0  | 972.7  | 971.8  | 973.6  | 977.3  | 980.9  |
| 12.5° | 1008.3 | 1010.2 | 1012.9 | 1015.6 | 1020.2 | 1021.1 | 1023.9 | 1024.8 | 1030.3 | 1030.3 | 1033.9 |
| 15°   | 1058.6 | 1059.5 | 1065.0 | 1065.9 | 1071.4 | 1073.2 | 1077.8 | 1079.6 | 1086.0 | 1086.9 | 1090.5 |
| 17.5° | 1104.2 | 1106.1 | 1108.8 | 1111.5 | 1117.9 | 1120.7 | 1124.3 | 1128.0 | 1133.5 | 1135.3 | 1141.7 |
| 20°   | 1140.8 | 1144.4 | 1145.3 | 1150.8 | 1156.3 | 1160.0 | 1163.6 | 1167.3 | 1172.7 | 1175.5 | 1181.9 |
| 22.5° | 1173.7 | 1177.3 | 1180.0 | 1184.6 | 1188.3 | 1193.7 | 1195.6 | 1202.0 | 1207.4 | 1212.0 | 1217.5 |
| 25°   | 1209.3 | 1214.8 | 1217.5 | 1225.7 | 1228.5 | 1233.9 | 1238.5 | 1244.9 | 1252.2 | 1257.7 | 1265.0 |
| 27.5° | 1259.5 | 1267.7 | 1271.4 | 1280.5 | 1286.9 | 1289.7 | 1297.0 | 1306.1 | 1312.5 | 1318.9 | 1326.2 |
| 30°   | 1328.9 | 1344.5 | 1347.2 | 1353.6 | 1365.5 | 1367.3 | 1376.4 | 1383.7 | 1393.8 | 1400.2 | 1406.6 |
| 32.5° | 1436.7 | 1455.9 | 1457.7 | 1465.0 | 1475.1 | 1478.7 | 1486.0 | 1494.2 | 1509.8 | 1512.5 | 1522.6 |
| 35°   | 1602.0 | 1610.2 | 1617.5 | 1620.3 | 1628.5 | 1633.1 | 1638.6 | 1647.7 | 1663.2 | 1661.4 | 1672.3 |
| 37.5° | 1800.2 | 1803.0 | 1803.9 | 1794.7 | 1796.6 | 1788.3 | 1798.4 | 1800.2 | 1805.7 | 1810.3 | 1821.2 |
| 40°   | 2083.4 | 2055.0 | 2051.4 | 2029.5 | 2007.5 | 1995.7 | 1991.1 | 1972.8 | 1977.4 | 1979.2 | 1988.4 |
| 42.5° | 2497.1 | 2442.3 | 2396.6 | 2365.6 | 2311.7 | 2285.2 | 2249.6 | 2221.3 | 2199.3 | 2207.6 | 2211.2 |
| 45°   | 3021.4 | 2942.8 | 2869.7 | 2774.8 | 2704.4 | 2654.2 | 2591.2 | 2534.5 | 2509.0 | 2497.1 | 2511.7 |
| 47.5° | 3544.7 | 3475.3 | 3389.4 | 3291.7 | 3180.3 | 3097.2 | 2992.1 | 2899.9 | 2836.0 | 2812.2 | 2825.0 |
| 50°   | 3996.8 | 3932.9 | 3868.0 | 3810.5 | 3680.8 | 3590.4 | 3447.0 | 3327.3 | 3226.9 | 3175.7 | 3162.0 |
| 52.5° | 4372.2 | 4338.4 | 4303.7 | 4255.3 | 4151.2 | 4060.8 | 3946.6 | 3828.8 | 3695.4 | 3591.3 | 3555.7 |
| 55°   | 4707.4 | 4727.5 | 4710.1 | 4711.1 | 4670.0 | 4612.4 | 4515.6 | 4427.9 | 4334.8 | 4216.9 | 4167.6 |
| 57.5° | 5196.1 | 5314.8 | 5338.5 | 5397.9 | 5427.1 | 5458.2 | 5485.6 | 5433.5 | 5409.8 | 5322.1 | 5323.0 |
| 60°   | 5966.0 | 6139.5 | 6290.2 | 6427.2 | 6539.6 | 6649.2 | 6764.3 | 6815.4 | 6872.0 | 6898.5 | 6989.0 |
| 62.5° | 6785.3 | 6950.6 | 7175.3 | 7358.9 | 7462.1 | 7604.6 | 7729.7 | 7811.0 | 7910.5 | 8016.5 | 8154.4 |
| 65°   | 6988.0 | 7187.2 | 7328.7 | 7451.1 | 7553.4 | 7629.2 | 7697.7 | 7794.5 | 7877.6 | 8045.7 | 8208.3 |
| 67.5° | 6468.3 | 6627.3 | 6757.0 | 6877.5 | 6957.0 | 7020.9 | 7082.1 | 7146.1 | 7288.5 | 7441.1 | 7604.6 |
| 70°   | 5552.3 | 5744.1 | 5958.7 | 6114.9 | 6154.2 | 6209.0 | 6267.4 | 6350.5 | 6421.8 | 6581.6 | 6705.8 |
| 72.5° | 4460.8 | 4736.6 | 4918.4 | 5134.9 | 5181.4 | 5264.6 | 5297.4 | 5362.3 | 5375.1 | 5461.8 | 5494.7 |
| 75°   | 3109.0 | 3425.1 | 3607.7 | 3766.7 | 3797.7 | 3752.0 | 3770.3 | 3541.1 | 3482.6 | 3435.1 | 3396.7 |
| 77.5° | 2052.3 | 2137.2 | 2166.5 | 2140.9 | 2018.5 | 1922.6 | 1820.3 | 1719.8 | 1730.8 | 1649.5 | 1507.0 |
| 80°   | 1824.9 | 1844.1 | 1817.6 | 1792.0 | 1721.7 | 1621.2 | 1528.9 | 1434.9 | 1388.3 | 1339.0 | 1265.9 |
| 82.5° | 1775.6 | 1849.5 | 1857.8 | 1826.7 | 1771.0 | 1661.4 | 1550.0 | 1410.2 | 1291.5 | 1181.9 | 1070.4 |
| 85°   | 593.7  | 722.5  | 780.0  | 833.9  | 850.3  | 869.5  | 803.7  | 714.2  | 606.5  | 534.3  | 418.3  |
| 87.5° | 75.8   | 94.1   | 108.7  | 93.2   | 108.7  | 127.9  | 92.2   | 103.2  | 104.1  | 64.8   | 48.4   |
| 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: P150089

CATALOG NUMBER: TLM-E03-LED-E1-SL2-7030

**CANDELA DISTRIBUTION (continued):**

|       | 76°    | 77°    | 78°    | 79°    | 80°    | 81°    | 82°    | 83°    | 84°    | 85°    | 86°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 871.3  | 871.3  | 871.3  | 871.3  | 871.3  | 871.3  | 871.3  | 871.3  | 871.3  | 871.3  | 871.3  |
| 2.5°  | 875.9  | 875.0  | 875.0  | 875.0  | 874.1  | 875.0  | 875.0  | 875.0  | 875.0  | 875.0  | 874.1  |
| 5°    | 896.0  | 896.0  | 898.7  | 899.7  | 897.8  | 896.9  | 897.8  | 898.7  | 898.7  | 897.8  | 898.7  |
| 7.5°  | 933.4  | 934.4  | 936.2  | 938.9  | 937.1  | 938.0  | 938.9  | 938.0  | 940.8  | 941.7  | 940.8  |
| 10°   | 980.9  | 982.8  | 987.3  | 988.2  | 987.3  | 991.0  | 991.9  | 990.1  | 991.9  | 991.9  | 995.6  |
| 12.5° | 1035.7 | 1037.6 | 1043.0 | 1044.9 | 1046.7 | 1047.6 | 1050.4 | 1051.3 | 1054.0 | 1055.8 | 1058.6 |
| 15°   | 1095.1 | 1096.9 | 1100.6 | 1107.0 | 1108.8 | 1110.6 | 1112.5 | 1117.9 | 1118.9 | 1122.5 | 1125.2 |
| 17.5° | 1145.3 | 1148.1 | 1153.6 | 1158.1 | 1160.9 | 1165.4 | 1167.3 | 1173.7 | 1175.5 | 1181.0 | 1185.5 |
| 20°   | 1185.5 | 1190.1 | 1194.7 | 1200.1 | 1204.7 | 1210.2 | 1212.0 | 1218.4 | 1222.1 | 1224.8 | 1230.3 |
| 22.5° | 1222.1 | 1227.5 | 1233.9 | 1240.3 | 1244.0 | 1251.3 | 1254.0 | 1256.8 | 1265.0 | 1268.6 | 1274.1 |
| 25°   | 1269.6 | 1275.0 | 1282.3 | 1290.6 | 1294.2 | 1303.4 | 1306.1 | 1310.7 | 1319.8 | 1323.4 | 1331.7 |
| 27.5° | 1334.4 | 1341.7 | 1347.2 | 1355.4 | 1360.0 | 1366.4 | 1372.8 | 1378.2 | 1386.5 | 1391.9 | 1401.1 |
| 30°   | 1415.7 | 1421.2 | 1430.3 | 1436.7 | 1444.0 | 1453.1 | 1460.4 | 1465.9 | 1470.5 | 1478.7 | 1488.8 |
| 32.5° | 1535.3 | 1536.3 | 1539.0 | 1554.5 | 1561.8 | 1569.1 | 1579.2 | 1583.7 | 1591.1 | 1599.3 | 1610.2 |
| 35°   | 1684.2 | 1692.4 | 1698.8 | 1706.1 | 1714.4 | 1722.6 | 1726.2 | 1739.9 | 1746.3 | 1757.3 | 1768.2 |
| 37.5° | 1832.2 | 1833.1 | 1847.7 | 1852.3 | 1859.6 | 1867.8 | 1880.6 | 1894.3 | 1910.7 | 1921.7 | 1939.0 |
| 40°   | 1991.1 | 1998.4 | 2016.7 | 2025.8 | 2034.9 | 2055.0 | 2065.1 | 2087.0 | 2114.4 | 2129.9 | 2159.2 |
| 42.5° | 2221.3 | 2232.2 | 2265.1 | 2279.7 | 2301.6 | 2334.5 | 2355.5 | 2385.7 | 2396.6 | 2434.1 | 2447.8 |
| 45°   | 2522.7 | 2556.5 | 2604.0 | 2635.0 | 2674.3 | 2709.9 | 2728.2 | 2741.9 | 2758.3 | 2787.5 | 2783.9 |
| 47.5° | 2848.7 | 2892.6 | 2945.6 | 3009.5 | 3035.1 | 3077.1 | 3100.8 | 3127.3 | 3112.7 | 3105.4 | 3098.1 |
| 50°   | 3183.0 | 3234.2 | 3304.5 | 3362.0 | 3401.3 | 3426.9 | 3447.0 | 3443.3 | 3412.3 | 3395.8 | 3350.2 |
| 52.5° | 3554.8 | 3584.9 | 3651.6 | 3700.9 | 3724.6 | 3730.1 | 3725.6 | 3698.2 | 3668.9 | 3616.9 | 3563.0 |
| 55°   | 4124.7 | 4111.0 | 4137.5 | 4160.3 | 4153.0 | 4178.6 | 4112.8 | 4087.2 | 4015.1 | 3947.5 | 3875.3 |
| 57.5° | 5282.8 | 5301.1 | 5153.1 | 5086.4 | 5074.6 | 5098.3 | 4982.3 | 4967.7 | 4793.3 | 4771.3 | 4649.9 |
| 60°   | 6976.2 | 7065.7 | 6949.7 | 6884.8 | 6709.5 | 6651.9 | 6522.2 | 6468.3 | 6301.2 | 6166.0 | 5995.2 |
| 62.5° | 8249.4 | 8330.7 | 8379.1 | 8286.8 | 8184.5 | 8033.8 | 7837.5 | 7620.1 | 7442.9 | 7235.6 | 7054.7 |
| 65°   | 8364.5 | 8528.9 | 8640.3 | 8683.2 | 8611.1 | 8445.8 | 8203.7 | 7929.7 | 7658.4 | 7398.1 | 7169.8 |
| 67.5° | 7826.5 | 7973.5 | 8146.2 | 8300.5 | 8309.7 | 8201.9 | 7995.5 | 7716.9 | 7403.6 | 7082.1 | 6814.5 |
| 70°   | 6902.2 | 7086.7 | 7237.4 | 7400.0 | 7513.2 | 7451.1 | 7347.9 | 7092.2 | 6767.0 | 6516.8 | 6209.0 |
| 72.5° | 5613.5 | 5691.1 | 5727.6 | 5887.5 | 5889.3 | 5776.0 | 5703.0 | 5561.4 | 5299.3 | 5122.1 | 4887.3 |
| 75°   | 3278.0 | 3107.2 | 2925.5 | 2767.5 | 2638.7 | 2584.8 | 2345.5 | 2305.3 | 2144.5 | 2045.0 | 1898.9 |
| 77.5° | 1351.8 | 1199.2 | 1002.9 | 839.4  | 677.7  | 604.6  | 498.7  | 452.1  | 391.8  | 365.3  | 348.0  |
| 80°   | 1159.0 | 1014.7 | 866.8  | 725.2  | 599.2  | 473.1  | 368.1  | 285.9  | 224.7  | 190.9  | 177.2  |
| 82.5° | 946.2  | 859.5  | 756.3  | 679.5  | 580.9  | 486.8  | 411.0  | 318.8  | 238.4  | 175.4  | 134.3  |
| 85°   | 341.6  | 280.4  | 225.6  | 207.3  | 165.3  | 136.1  | 114.2  | 97.7   | 80.4   | 63.9   | 56.6   |
| 87.5° | 38.4   | 36.5   | 21.0   | 20.1   | 22.8   | 16.4   | 19.2   | 17.4   | 14.6   | 12.8   | 13.7   |
| 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: P150089

CATALOG NUMBER: TLM-E03-LED-E1-SL2-7030

**CANDELA DISTRIBUTION (continued):**

|       | 87°    | 88°    | 89°    | 90°    | 95°    | 105°   | 115°   | 125°   | 135°  | 145°  | 155°  |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 0°    | 871.3  | 871.3  | 871.3  | 871.3  | 871.3  | 871.3  | 871.3  | 871.3  | 871.3 | 871.3 | 871.3 |
| 2.5°  | 874.1  | 874.1  | 875.0  | 875.0  | 875.9  | 876.8  | 878.6  | 877.7  | 877.7 | 878.6 | 878.6 |
| 5°    | 898.7  | 901.5  | 900.6  | 900.6  | 900.6  | 901.5  | 902.4  | 898.7  | 895.1 | 891.4 | 889.6 |
| 7.5°  | 941.7  | 943.5  | 945.3  | 943.5  | 945.3  | 944.4  | 942.6  | 932.5  | 920.7 | 906.0 | 896.0 |
| 10°   | 997.4  | 997.4  | 999.2  | 998.3  | 1001.9 | 999.2  | 993.7  | 970.9  | 945.3 | 914.3 | 891.4 |
| 12.5° | 1057.7 | 1064.1 | 1061.3 | 1062.2 | 1069.5 | 1062.2 | 1049.4 | 1015.6 | 970.0 | 919.7 | 879.6 |
| 15°   | 1128.9 | 1131.6 | 1133.5 | 1130.7 | 1135.3 | 1128.9 | 1106.1 | 1052.2 | 985.5 | 915.2 | 855.8 |
| 17.5° | 1187.4 | 1188.3 | 1189.2 | 1191.0 | 1197.4 | 1190.1 | 1150.8 | 1077.8 | 989.2 | 894.2 | 815.6 |
| 20°   | 1233.0 | 1237.6 | 1241.2 | 1241.2 | 1250.4 | 1239.4 | 1187.4 | 1090.5 | 977.3 | 859.5 | 764.5 |
| 22.5° | 1280.5 | 1284.2 | 1288.7 | 1289.7 | 1301.5 | 1290.6 | 1217.5 | 1087.8 | 946.2 | 810.1 | 705.1 |
| 25°   | 1339.0 | 1342.6 | 1346.3 | 1350.8 | 1367.3 | 1351.8 | 1247.6 | 1076.8 | 903.3 | 751.7 | 641.2 |
| 27.5° | 1406.6 | 1414.8 | 1417.5 | 1424.8 | 1444.0 | 1420.3 | 1273.2 | 1060.4 | 855.8 | 684.1 | 573.6 |
| 30°   | 1497.0 | 1507.0 | 1510.7 | 1520.7 | 1547.2 | 1495.2 | 1287.8 | 1032.1 | 795.5 | 615.6 | 501.4 |
| 32.5° | 1618.5 | 1632.2 | 1643.1 | 1654.1 | 1684.2 | 1570.0 | 1289.7 | 991.0  | 725.2 | 538.9 | 432.0 |
| 35°   | 1777.4 | 1798.4 | 1806.6 | 1813.9 | 1842.2 | 1651.3 | 1281.4 | 929.8  | 639.3 | 460.3 | 377.2 |
| 37.5° | 1955.5 | 1976.5 | 1982.0 | 1985.6 | 1991.1 | 1720.8 | 1261.3 | 836.6  | 542.5 | 391.8 | 333.4 |
| 40°   | 2174.7 | 2193.0 | 2200.3 | 2194.8 | 2165.6 | 1774.6 | 1216.6 | 727.9  | 448.5 | 345.2 | 306.0 |
| 42.5° | 2442.3 | 2469.7 | 2472.4 | 2447.8 | 2351.0 | 1804.8 | 1127.1 | 600.1  | 374.5 | 311.5 | 285.0 |
| 45°   | 2773.8 | 2772.0 | 2756.5 | 2739.1 | 2552.8 | 1792.9 | 1001.9 | 488.6  | 327.9 | 285.0 | 265.8 |
| 47.5° | 3071.6 | 3040.5 | 3016.8 | 2965.6 | 2730.9 | 1723.5 | 840.3  | 404.6  | 299.6 | 264.9 | 249.3 |
| 50°   | 3315.5 | 3258.8 | 3208.6 | 3152.9 | 2863.4 | 1600.2 | 679.5  | 343.4  | 273.1 | 247.5 | 233.8 |
| 52.5° | 3508.2 | 3439.7 | 3381.2 | 3326.4 | 2991.2 | 1463.2 | 557.1  | 298.7  | 247.5 | 230.2 | 216.5 |
| 55°   | 3809.6 | 3741.1 | 3647.9 | 3587.6 | 3186.7 | 1337.1 | 477.7  | 263.0  | 222.9 | 211.9 | 198.2 |
| 57.5° | 4572.2 | 4512.0 | 4400.5 | 4244.3 | 3689.0 | 1289.7 | 432.9  | 235.6  | 202.8 | 196.4 | 185.4 |
| 60°   | 5903.9 | 5806.2 | 5660.9 | 5502.0 | 4710.1 | 1321.6 | 397.3  | 216.5  | 189.1 | 183.6 | 175.4 |
| 62.5° | 6908.6 | 6736.9 | 6572.5 | 6425.4 | 5526.7 | 1320.7 | 350.7  | 201.9  | 179.0 | 176.3 | 168.1 |
| 65°   | 6949.7 | 6775.2 | 6609.9 | 6455.6 | 5544.9 | 1175.5 | 295.9  | 189.1  | 177.2 | 176.3 | 162.6 |
| 67.5° | 6580.7 | 6391.6 | 6231.8 | 6037.2 | 5133.0 | 918.8  | 237.5  | 180.8  | 184.5 | 182.7 | 160.7 |
| 70°   | 5977.9 | 5731.3 | 5599.8 | 5407.9 | 4517.4 | 643.0  | 195.5  | 183.6  | 200.0 | 194.5 | 163.5 |
| 72.5° | 4691.9 | 4505.6 | 4305.5 | 4172.2 | 3536.5 | 406.4  | 164.4  | 185.4  | 206.4 | 197.3 | 170.8 |
| 75°   | 1746.3 | 1796.6 | 1714.4 | 1685.1 | 1796.6 | 238.4  | 146.1  | 172.6  | 184.5 | 170.8 | 155.3 |
| 77.5° | 352.6  | 337.0  | 319.7  | 316.0  | 408.3  | 147.0  | 134.3  | 149.8  | 141.6 | 125.1 | 126.0 |
| 80°   | 169.0  | 164.4  | 158.9  | 158.0  | 151.6  | 122.4  | 124.2  | 127.9  | 106.9 | 96.8  | 103.2 |
| 82.5° | 112.3  | 105.9  | 104.1  | 100.5  | 102.3  | 109.6  | 117.8  | 109.6  | 82.2  | 76.7  | 93.2  |
| 85°   | 52.1   | 50.2   | 49.3   | 49.3   | 54.8   | 98.6   | 97.7   | 80.4   | 56.6  | 54.8  | 93.2  |
| 87.5° | 12.8   | 12.8   | 13.7   | 12.8   | 14.6   | 29.2   | 25.6   | 24.7   | 21.0  | 23.7  | 43.8  |
| 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: P150089

CATALOG NUMBER: TLM-E03-LED-E1-SL2-7030

**CANDELA DISTRIBUTION (continued):**

|       | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|
| 0°    | 871.3 | 871.3 | 871.3 |
| 2.5°  | 877.7 | 878.6 | 877.7 |
| 5°    | 885.9 | 885.9 | 885.9 |
| 7.5°  | 885.9 | 883.2 | 882.3 |
| 10°   | 873.2 | 864.9 | 864.9 |
| 12.5° | 851.2 | 837.5 | 835.7 |
| 15°   | 810.1 | 791.9 | 789.1 |
| 17.5° | 758.1 | 733.4 | 728.9 |
| 20°   | 699.6 | 668.6 | 663.1 |
| 22.5° | 635.7 | 600.1 | 597.3 |
| 25°   | 572.7 | 536.1 | 528.8 |
| 27.5° | 502.3 | 466.7 | 463.1 |
| 30°   | 432.0 | 401.0 | 399.1 |
| 32.5° | 372.6 | 353.5 | 349.8 |
| 35°   | 330.6 | 319.7 | 315.1 |
| 37.5° | 303.2 | 295.0 | 294.1 |
| 40°   | 282.2 | 274.9 | 274.0 |
| 42.5° | 264.9 | 258.5 | 257.6 |
| 45°   | 247.5 | 242.0 | 240.2 |
| 47.5° | 230.2 | 224.7 | 223.8 |
| 50°   | 214.6 | 207.3 | 206.4 |
| 52.5° | 200.0 | 192.7 | 190.9 |
| 55°   | 186.3 | 179.0 | 179.0 |
| 57.5° | 174.4 | 167.1 | 166.2 |
| 60°   | 163.5 | 156.2 | 155.3 |
| 62.5° | 155.3 | 146.1 | 145.2 |
| 65°   | 148.9 | 139.7 | 137.9 |
| 67.5° | 145.2 | 134.3 | 131.5 |
| 70°   | 151.6 | 131.5 | 127.0 |
| 72.5° | 152.5 | 128.8 | 122.4 |
| 75°   | 147.0 | 121.5 | 116.9 |
| 77.5° | 128.8 | 108.7 | 104.1 |
| 80°   | 111.4 | 84.0  | 77.6  |
| 82.5° | 105.9 | 68.5  | 59.4  |
| 85°   | 82.2  | 44.8  | 42.0  |
| 87.5° | 46.6  | 24.7  | 20.1  |
| 90°   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)