

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: P150091

Luminaire Tested: **TLM-E03-LED-E1-SL2-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P150091
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-SL2-7050
Description: TALON MEDIUM LED SITE LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (63) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

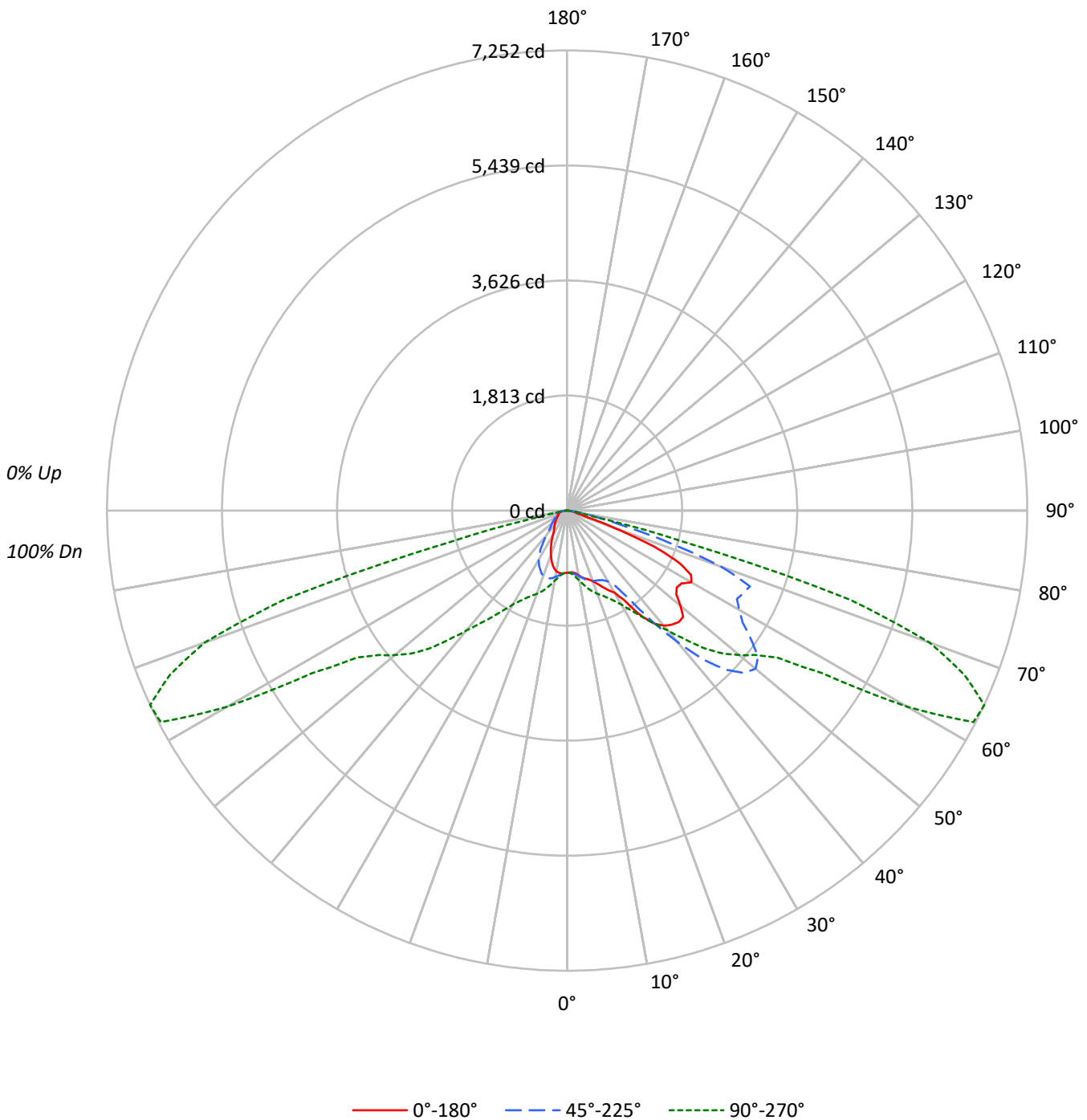
Lumens per Lamp: N/A
Luminaire Lumens: 9404.6 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Spacing Criteria (0/90/45): 1.99 / 4.45 / 2.31
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
CIE Type: Direct

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



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CATALOG NUMBER: TLM-E03-LED-E1-SL2-7050

Luminous Intensity Polar Plot





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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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 106 | 100 | 94 | 90 | 103 | 98 | 93 | 88 | 93 | 89 | 85 | 89 | 86 | 83 | 85 | 83 | 80 | 78 |
| 2 | 93 | 83 | 74 | 67 | 90 | 81 | 73 | 66 | 77 | 70 | 64 | 74 | 68 | 63 | 70 | 66 | 61 | 59 |
| 3 | 82 | 69 | 59 | 51 | 80 | 68 | 58 | 51 | 64 | 56 | 50 | 61 | 54 | 49 | 59 | 53 | 48 | 45 |
| 4 | 74 | 59 | 48 | 40 | 71 | 57 | 47 | 40 | 55 | 46 | 39 | 52 | 45 | 38 | 50 | 43 | 38 | 35 |
| 5 | 66 | 51 | 40 | 32 | 64 | 50 | 39 | 32 | 47 | 38 | 31 | 45 | 37 | 31 | 43 | 36 | 30 | 28 |
| 6 | 60 | 44 | 34 | 26 | 58 | 43 | 33 | 26 | 41 | 32 | 26 | 40 | 32 | 25 | 38 | 31 | 25 | 23 |
| 7 | 55 | 39 | 29 | 22 | 53 | 38 | 29 | 22 | 37 | 28 | 22 | 35 | 27 | 21 | 34 | 27 | 21 | 19 |
| 8 | 51 | 35 | 25 | 19 | 49 | 34 | 25 | 19 | 33 | 24 | 18 | 32 | 24 | 18 | 30 | 23 | 18 | 16 |
| 9 | 47 | 32 | 22 | 16 | 46 | 31 | 22 | 16 | 30 | 22 | 16 | 29 | 21 | 16 | 28 | 21 | 16 | 14 |
| 10 | 44 | 29 | 20 | 14 | 42 | 28 | 20 | 14 | 27 | 19 | 14 | 26 | 19 | 14 | 25 | 19 | 14 | 12 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|--------|-------|
| 0° | 21074 | 21074 | 21074 |
| 5° | 21087 | 21863 | 21508 |
| 10° | 22566 | 24516 | 21241 |
| 15° | 24721 | 28311 | 19760 |
| 20° | 27104 | 31947 | 17068 |
| 25° | 31613 | 36048 | 14112 |
| 30° | 37088 | 42470 | 11146 |
| 35° | 52882 | 53555 | 9303 |
| 40° | 66524 | 69293 | 8650 |
| 45° | 75695 | 93688 | 8217 |
| 50° | 77975 | 118630 | 7767 |
| 55° | 79104 | 151275 | 7548 |
| 60° | 97327 | 266140 | 7509 |
| 65° | 99418 | 369436 | 7890 |
| 70° | 47667 | 382417 | 8976 |
| 75° | 13142 | 157471 | 10921 |
| 80° | 11071 | 22005 | 10811 |
| 85° | 7361 | 13684 | 11659 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 97.3 | 1.0 |
| 10°-20° | 318.2 | 3.4 |
| 20°-30° | 549.6 | 5.8 |
| 30°-40° | 909.7 | 9.7 |
| 40°-50° | 1542.8 | 16.4 |
| 50°-60° | 2049.9 | 21.8 |
| 60°-70° | 2648.0 | 28.2 |
| 70°-80° | 1110.6 | 11.8 |
| 80°-90° | 178.4 | 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° | 965.1 | 10.3 |
| 0°-40° | 1874.8 | 19.9 |
| 0°-60° | 5467.6 | 58.1 |
| 0°-90° | 9404.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 9404.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 979 | 979 | 979 | 979 | 979 | |
| 5° | 976 | 992 | 1012 | 1006 | 995 | 95 |
| 15° | 1109 | 1123 | 1270 | 1107 | 887 | 316 |
| 25° | 1331 | 1209 | 1518 | 1015 | 594 | 621 |
| 35° | 2012 | 1679 | 2038 | 718 | 354 | 1245 |
| 45° | 2486 | 3548 | 3077 | 368 | 270 | 1888 |
| 55° | 2108 | 3536 | 4030 | 250 | 201 | 1952 |
| 65° | 1952 | 3066 | 7252 | 199 | 155 | 1764 |
| 75° | 158 | 881 | 1893 | 207 | 131 | 254 |
| 85° | 30 | 74 | 55 | 64 | 47 | 40 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CATALOG NUMBER: TLM-E03-LED-E1-SL2-7050

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 61° | 62° | 64° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 978.9 | 978.9 | 978.9 | 978.9 | 978.9 | 978.9 | 978.9 | 978.9 | 978.9 | 978.9 | 978.9 |
| 2.5° | 975.8 | 978.9 | 976.9 | 978.9 | 981.0 | 982.0 | 984.0 | 983.0 | 983.0 | 984.0 | 982.0 |
| 5° | 975.8 | 975.8 | 978.9 | 984.0 | 986.1 | 992.2 | 999.4 | 998.4 | 999.4 | 998.4 | 1000.5 |
| 7.5° | 996.3 | 995.3 | 998.4 | 1004.6 | 1006.6 | 1015.8 | 1028.2 | 1030.2 | 1032.3 | 1032.3 | 1035.3 |
| 10° | 1032.3 | 1031.2 | 1034.3 | 1037.4 | 1040.5 | 1047.7 | 1065.1 | 1072.3 | 1073.3 | 1074.3 | 1078.4 |
| 12.5° | 1077.4 | 1076.4 | 1072.3 | 1072.3 | 1071.3 | 1084.6 | 1108.2 | 1121.5 | 1123.6 | 1127.7 | 1130.8 |
| 15° | 1109.2 | 1106.1 | 1100.0 | 1095.9 | 1101.0 | 1122.6 | 1157.4 | 1172.8 | 1174.9 | 1178.0 | 1186.2 |
| 17.5° | 1140.0 | 1136.9 | 1123.6 | 1113.3 | 1120.5 | 1155.4 | 1202.6 | 1219.0 | 1223.1 | 1226.2 | 1235.4 |
| 20° | 1183.1 | 1181.0 | 1161.6 | 1136.9 | 1134.9 | 1180.0 | 1237.5 | 1259.0 | 1262.1 | 1266.2 | 1275.4 |
| 22.5° | 1248.8 | 1239.5 | 1217.0 | 1170.8 | 1148.2 | 1194.4 | 1262.1 | 1291.9 | 1296.0 | 1300.1 | 1312.4 |
| 25° | 1330.9 | 1326.8 | 1287.8 | 1217.0 | 1169.8 | 1208.8 | 1288.8 | 1325.7 | 1331.9 | 1337.0 | 1353.4 |
| 27.5° | 1416.0 | 1409.9 | 1367.8 | 1275.4 | 1207.7 | 1237.5 | 1330.9 | 1372.9 | 1381.1 | 1389.3 | 1404.7 |
| 30° | 1492.0 | 1489.9 | 1455.0 | 1354.5 | 1269.3 | 1291.9 | 1398.6 | 1449.9 | 1459.1 | 1469.4 | 1483.7 |
| 32.5° | 1670.5 | 1671.5 | 1635.6 | 1533.0 | 1418.1 | 1390.4 | 1496.1 | 1573.0 | 1577.1 | 1589.4 | 1615.1 |
| 35° | 2012.2 | 2016.3 | 2003.0 | 1921.9 | 1792.6 | 1678.7 | 1689.0 | 1764.9 | 1769.0 | 1779.3 | 1803.9 |
| 37.5° | 2241.0 | 2249.2 | 2290.3 | 2315.9 | 2250.2 | 2197.9 | 2067.6 | 2037.8 | 2040.9 | 2034.8 | 2029.6 |
| 40° | 2367.2 | 2379.5 | 2487.3 | 2620.7 | 2692.5 | 2693.5 | 2637.1 | 2505.7 | 2455.5 | 2441.1 | 2379.5 |
| 42.5° | 2439.1 | 2459.6 | 2612.5 | 2840.3 | 3046.5 | 3188.1 | 3223.0 | 3077.3 | 3040.4 | 2974.7 | 2856.7 |
| 45° | 2486.3 | 2510.9 | 2691.5 | 3003.4 | 3307.1 | 3548.3 | 3729.9 | 3665.2 | 3640.6 | 3600.6 | 3491.8 |
| 47.5° | 2478.0 | 2497.5 | 2685.3 | 3058.8 | 3443.6 | 3786.3 | 4108.5 | 4175.2 | 4145.5 | 4135.2 | 4061.3 |
| 50° | 2328.2 | 2345.7 | 2536.5 | 2921.3 | 3368.7 | 3876.6 | 4348.6 | 4537.4 | 4537.4 | 4556.9 | 4534.4 |
| 52.5° | 2168.2 | 2182.5 | 2355.9 | 2701.7 | 3126.5 | 3788.4 | 4482.0 | 4795.0 | 4836.0 | 4869.9 | 4923.3 |
| 55° | 2107.6 | 2125.1 | 2256.4 | 2551.9 | 2920.3 | 3536.0 | 4527.2 | 4987.9 | 5063.8 | 5121.3 | 5242.4 |
| 57.5° | 2136.4 | 2153.8 | 2247.2 | 2470.9 | 2799.2 | 3278.4 | 4529.2 | 5247.5 | 5394.2 | 5512.2 | 5757.5 |
| 60° | 2260.5 | 2276.9 | 2354.9 | 2545.8 | 2767.4 | 3129.6 | 4442.0 | 5661.0 | 5895.0 | 6116.6 | 6525.0 |
| 62.5° | 2203.0 | 2223.6 | 2337.5 | 2669.9 | 3004.4 | 3016.8 | 4127.0 | 5981.2 | 6357.7 | 6685.1 | 7334.6 |
| 65° | 1951.7 | 1973.2 | 2062.5 | 2373.4 | 3018.8 | 3066.0 | 3660.1 | 5987.3 | 6455.2 | 6897.5 | 7598.3 |
| 67.5° | 1481.7 | 1489.9 | 1560.7 | 1810.0 | 2414.4 | 3120.4 | 3179.9 | 5278.3 | 5723.6 | 6217.2 | 6940.6 |
| 70° | 757.3 | 771.6 | 792.2 | 999.4 | 1554.5 | 2578.6 | 2732.5 | 3890.0 | 4457.4 | 4967.4 | 5836.5 |
| 72.5° | 262.7 | 267.8 | 288.3 | 381.7 | 757.3 | 1692.0 | 2391.9 | 2665.8 | 3008.5 | 3485.7 | 4492.3 |
| 75° | 158.0 | 158.0 | 165.2 | 192.9 | 345.8 | 881.4 | 2128.1 | 2177.4 | 2223.6 | 2383.6 | 3042.4 |
| 77.5° | 125.2 | 127.2 | 127.2 | 132.4 | 191.9 | 452.5 | 1616.1 | 2024.5 | 2030.7 | 2046.1 | 2156.9 |
| 80° | 89.3 | 93.4 | 101.6 | 105.7 | 124.2 | 248.3 | 907.1 | 1777.2 | 1898.3 | 1956.8 | 2037.8 |
| 82.5° | 66.7 | 70.8 | 86.2 | 91.3 | 96.5 | 138.5 | 407.4 | 1226.2 | 1446.8 | 1563.8 | 1849.0 |
| 85° | 29.8 | 34.9 | 58.5 | 64.6 | 67.7 | 73.9 | 190.9 | 348.9 | 401.2 | 450.5 | 594.1 |
| 87.5° | 5.1 | 5.1 | 9.2 | 13.3 | 19.5 | 18.5 | 42.1 | 59.5 | 60.5 | 70.8 | 79.0 |
| 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: P150091

CATALOG NUMBER: TLM-E03-LED-E1-SL2-7050

CANDELA DISTRIBUTION (continued):

| | 65° | 66° | 67° | 68° | 69° | 70° | 71° | 72° | 73° | 74° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 978.9 | 978.9 | 978.9 | 978.9 | 978.9 | 978.9 | 978.9 | 978.9 | 978.9 | 978.9 | 978.9 |
| 2.5° | 982.0 | 982.0 | 982.0 | 981.0 | 982.0 | 982.0 | 982.0 | 982.0 | 983.0 | 983.0 | 983.0 |
| 5° | 1003.5 | 1001.5 | 1002.5 | 1002.5 | 1002.5 | 1001.5 | 1003.5 | 1002.5 | 1003.5 | 1006.6 | 1005.6 |
| 7.5° | 1035.3 | 1037.4 | 1038.4 | 1039.4 | 1039.4 | 1039.4 | 1040.5 | 1042.5 | 1042.5 | 1045.6 | 1044.6 |
| 10° | 1082.5 | 1081.5 | 1082.5 | 1085.6 | 1088.7 | 1089.7 | 1092.8 | 1091.8 | 1093.8 | 1097.9 | 1102.0 |
| 12.5° | 1132.8 | 1134.9 | 1138.0 | 1141.0 | 1146.2 | 1147.2 | 1150.3 | 1151.3 | 1157.4 | 1157.4 | 1161.6 |
| 15° | 1189.3 | 1190.3 | 1196.4 | 1197.5 | 1203.6 | 1205.7 | 1210.8 | 1212.9 | 1220.0 | 1221.1 | 1225.2 |
| 17.5° | 1240.6 | 1242.6 | 1245.7 | 1248.8 | 1256.0 | 1259.0 | 1263.1 | 1267.2 | 1273.4 | 1275.4 | 1282.6 |
| 20° | 1281.6 | 1285.7 | 1286.7 | 1292.9 | 1299.0 | 1303.2 | 1307.3 | 1311.4 | 1317.5 | 1320.6 | 1327.8 |
| 22.5° | 1318.5 | 1322.6 | 1325.7 | 1330.9 | 1335.0 | 1341.1 | 1343.2 | 1350.4 | 1356.5 | 1361.6 | 1367.8 |
| 25° | 1358.6 | 1364.7 | 1367.8 | 1377.0 | 1380.1 | 1386.3 | 1391.4 | 1398.6 | 1406.8 | 1412.9 | 1421.2 |
| 27.5° | 1415.0 | 1424.2 | 1428.3 | 1438.6 | 1445.8 | 1448.9 | 1457.1 | 1467.3 | 1474.5 | 1481.7 | 1489.9 |
| 30° | 1493.0 | 1510.4 | 1513.5 | 1520.7 | 1534.0 | 1536.1 | 1546.3 | 1554.5 | 1565.8 | 1573.0 | 1580.2 |
| 32.5° | 1614.1 | 1635.6 | 1637.7 | 1645.9 | 1657.2 | 1661.3 | 1669.5 | 1678.7 | 1696.2 | 1699.2 | 1710.5 |
| 35° | 1799.8 | 1809.0 | 1817.2 | 1820.3 | 1829.5 | 1834.7 | 1840.8 | 1851.1 | 1868.5 | 1866.5 | 1878.8 |
| 37.5° | 2022.5 | 2025.5 | 2026.6 | 2016.3 | 2018.3 | 2009.1 | 2020.4 | 2022.5 | 2028.6 | 2033.7 | 2046.1 |
| 40° | 2340.5 | 2308.7 | 2304.6 | 2280.0 | 2255.4 | 2242.0 | 2236.9 | 2216.4 | 2221.5 | 2223.6 | 2233.8 |
| 42.5° | 2805.4 | 2743.8 | 2692.5 | 2657.6 | 2597.1 | 2567.3 | 2527.3 | 2495.5 | 2470.9 | 2480.1 | 2484.2 |
| 45° | 3394.4 | 3306.1 | 3224.0 | 3117.3 | 3038.3 | 2981.9 | 2911.1 | 2847.4 | 2818.7 | 2805.4 | 2821.8 |
| 47.5° | 3982.3 | 3904.3 | 3807.9 | 3698.1 | 3572.9 | 3479.5 | 3361.5 | 3257.9 | 3186.1 | 3159.4 | 3173.7 |
| 50° | 4490.2 | 4418.4 | 4345.6 | 4280.9 | 4135.2 | 4033.6 | 3872.5 | 3738.1 | 3625.2 | 3567.8 | 3552.4 |
| 52.5° | 4912.0 | 4874.0 | 4835.0 | 4780.6 | 4663.6 | 4562.1 | 4433.8 | 4301.4 | 4151.6 | 4034.6 | 3994.6 |
| 55° | 5288.5 | 5311.1 | 5291.6 | 5292.7 | 5246.5 | 5181.8 | 5073.1 | 4974.6 | 4869.9 | 4737.5 | 4682.1 |
| 57.5° | 5837.5 | 5970.9 | 5997.6 | 6064.3 | 6097.1 | 6132.0 | 6162.8 | 6104.3 | 6077.6 | 5979.1 | 5980.1 |
| 60° | 6702.5 | 6897.5 | 7066.8 | 7220.7 | 7346.9 | 7470.0 | 7599.3 | 7656.8 | 7720.4 | 7750.2 | 7851.8 |
| 62.5° | 7622.9 | 7808.7 | 8061.1 | 8267.3 | 8383.3 | 8543.4 | 8683.9 | 8775.3 | 8887.1 | 9006.1 | 9161.1 |
| 65° | 7850.7 | 8074.4 | 8233.5 | 8371.0 | 8485.9 | 8571.1 | 8648.0 | 8756.8 | 8850.2 | 9039.0 | 9221.6 |
| 67.5° | 7266.9 | 7445.4 | 7591.1 | 7726.6 | 7815.8 | 7887.7 | 7956.4 | 8028.2 | 8188.3 | 8359.7 | 8543.4 |
| 70° | 6237.7 | 6453.2 | 6694.3 | 6869.8 | 6913.9 | 6975.5 | 7041.1 | 7134.5 | 7214.5 | 7394.1 | 7533.7 |
| 72.5° | 5011.5 | 5321.4 | 5525.6 | 5768.8 | 5821.1 | 5914.5 | 5951.4 | 6024.3 | 6038.6 | 6136.1 | 6173.1 |
| 75° | 3492.9 | 3847.9 | 4053.1 | 4231.7 | 4266.5 | 4215.2 | 4235.8 | 3978.2 | 3912.5 | 3859.2 | 3816.1 |
| 77.5° | 2305.7 | 2401.1 | 2433.9 | 2405.2 | 2267.7 | 2160.0 | 2045.0 | 1932.2 | 1944.5 | 1853.1 | 1693.1 |
| 80° | 2050.2 | 2071.7 | 2041.9 | 2013.2 | 1934.2 | 1821.3 | 1717.7 | 1612.0 | 1559.7 | 1504.3 | 1422.2 |
| 82.5° | 1994.7 | 2077.9 | 2087.1 | 2052.2 | 1989.6 | 1866.5 | 1741.3 | 1584.3 | 1450.9 | 1327.8 | 1202.6 |
| 85° | 667.0 | 811.6 | 876.3 | 936.8 | 955.3 | 976.9 | 903.0 | 802.4 | 681.3 | 600.3 | 470.0 |
| 87.5° | 85.2 | 105.7 | 122.1 | 104.7 | 122.1 | 143.7 | 103.6 | 115.9 | 117.0 | 72.9 | 54.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: TLM-E03-LED-E1-SL2-7050

CANDELA DISTRIBUTION (continued):

| | 76° | 77° | 78° | 79° | 80° | 81° | 82° | 83° | 84° | 85° | 86° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 978.9 | 978.9 | 978.9 | 978.9 | 978.9 | 978.9 | 978.9 | 978.9 | 978.9 | 978.9 | 978.9 |
| 2.5° | 984.0 | 983.0 | 983.0 | 983.0 | 982.0 | 983.0 | 983.0 | 983.0 | 983.0 | 983.0 | 982.0 |
| 5° | 1006.6 | 1006.6 | 1009.7 | 1010.7 | 1008.7 | 1007.6 | 1008.7 | 1009.7 | 1009.7 | 1008.7 | 1009.7 |
| 7.5° | 1048.7 | 1049.7 | 1051.8 | 1054.8 | 1052.8 | 1053.8 | 1054.8 | 1053.8 | 1056.9 | 1057.9 | 1056.9 |
| 10° | 1102.0 | 1104.1 | 1109.2 | 1110.2 | 1109.2 | 1113.3 | 1114.4 | 1112.3 | 1114.4 | 1114.4 | 1118.5 |
| 12.5° | 1163.6 | 1165.7 | 1171.8 | 1173.9 | 1175.9 | 1176.9 | 1180.0 | 1181.0 | 1184.1 | 1186.2 | 1189.3 |
| 15° | 1230.3 | 1232.4 | 1236.5 | 1243.6 | 1245.7 | 1247.7 | 1249.8 | 1256.0 | 1257.0 | 1261.1 | 1264.2 |
| 17.5° | 1286.7 | 1289.8 | 1296.0 | 1301.1 | 1304.2 | 1309.3 | 1311.4 | 1318.5 | 1320.6 | 1326.8 | 1331.9 |
| 20° | 1331.9 | 1337.0 | 1342.1 | 1348.3 | 1353.4 | 1359.6 | 1361.6 | 1368.8 | 1372.9 | 1376.0 | 1382.2 |
| 22.5° | 1372.9 | 1379.1 | 1386.3 | 1393.5 | 1397.6 | 1405.8 | 1408.8 | 1411.9 | 1421.2 | 1425.3 | 1431.4 |
| 25° | 1426.3 | 1432.4 | 1440.7 | 1449.9 | 1454.0 | 1464.3 | 1467.3 | 1472.5 | 1482.7 | 1486.8 | 1496.1 |
| 27.5° | 1499.1 | 1507.3 | 1513.5 | 1522.7 | 1527.9 | 1535.1 | 1542.2 | 1548.4 | 1557.6 | 1563.8 | 1574.0 |
| 30° | 1590.5 | 1596.6 | 1606.9 | 1614.1 | 1622.3 | 1632.5 | 1640.7 | 1646.9 | 1652.0 | 1661.3 | 1672.6 |
| 32.5° | 1724.9 | 1725.9 | 1729.0 | 1746.4 | 1754.6 | 1762.8 | 1774.1 | 1779.3 | 1787.5 | 1796.7 | 1809.0 |
| 35° | 1892.1 | 1901.4 | 1908.6 | 1916.8 | 1926.0 | 1935.2 | 1939.3 | 1954.7 | 1961.9 | 1974.2 | 1986.5 |
| 37.5° | 2058.4 | 2059.4 | 2075.8 | 2080.9 | 2089.2 | 2098.4 | 2112.8 | 2128.1 | 2146.6 | 2158.9 | 2178.4 |
| 40° | 2236.9 | 2245.1 | 2265.6 | 2275.9 | 2286.2 | 2308.7 | 2320.0 | 2344.7 | 2375.4 | 2392.9 | 2425.7 |
| 42.5° | 2495.5 | 2507.8 | 2544.7 | 2561.2 | 2585.8 | 2622.7 | 2646.3 | 2680.2 | 2692.5 | 2734.6 | 2750.0 |
| 45° | 2834.1 | 2872.1 | 2925.4 | 2960.3 | 3004.4 | 3044.5 | 3065.0 | 3080.4 | 3098.8 | 3131.7 | 3127.6 |
| 47.5° | 3200.4 | 3249.7 | 3309.2 | 3381.0 | 3409.7 | 3456.9 | 3483.6 | 3513.4 | 3497.0 | 3488.8 | 3480.5 |
| 50° | 3576.0 | 3633.4 | 3712.4 | 3777.1 | 3821.2 | 3849.9 | 3872.5 | 3868.4 | 3833.5 | 3815.1 | 3763.8 |
| 52.5° | 3993.6 | 4027.5 | 4102.4 | 4157.8 | 4184.5 | 4190.6 | 4185.5 | 4154.7 | 4121.9 | 4063.4 | 4002.8 |
| 55° | 4633.9 | 4618.5 | 4648.3 | 4673.9 | 4665.7 | 4694.4 | 4620.6 | 4591.8 | 4510.8 | 4434.8 | 4353.8 |
| 57.5° | 5935.0 | 5955.5 | 5789.3 | 5714.4 | 5701.0 | 5727.7 | 5597.4 | 5581.0 | 5385.0 | 5360.4 | 5223.9 |
| 60° | 7837.4 | 7938.0 | 7807.6 | 7734.8 | 7537.8 | 7473.1 | 7327.4 | 7266.9 | 7079.1 | 6927.2 | 6735.4 |
| 62.5° | 9267.8 | 9359.1 | 9413.5 | 9309.9 | 9194.9 | 9025.6 | 8805.0 | 8560.8 | 8361.7 | 8128.8 | 7925.6 |
| 65° | 9397.1 | 9581.8 | 9707.0 | 9755.2 | 9674.1 | 9488.4 | 9216.5 | 8908.6 | 8603.9 | 8311.5 | 8054.9 |
| 67.5° | 8792.7 | 8957.9 | 9151.8 | 9325.2 | 9335.5 | 9214.4 | 8982.5 | 8669.6 | 8317.6 | 7956.4 | 7655.8 |
| 70° | 7754.3 | 7961.6 | 8130.9 | 8313.5 | 8440.7 | 8371.0 | 8255.0 | 7967.7 | 7602.4 | 7321.3 | 6975.5 |
| 72.5° | 6306.4 | 6393.7 | 6434.7 | 6614.3 | 6616.3 | 6489.1 | 6407.0 | 6248.0 | 5953.5 | 5754.4 | 5490.7 |
| 75° | 3682.7 | 3490.8 | 3286.6 | 3109.1 | 2964.4 | 2903.9 | 2635.0 | 2589.9 | 2409.3 | 2297.5 | 2133.3 |
| 77.5° | 1518.6 | 1347.3 | 1126.7 | 943.0 | 761.4 | 679.3 | 560.3 | 507.9 | 440.2 | 410.4 | 390.9 |
| 80° | 1302.1 | 1140.0 | 973.8 | 814.7 | 673.1 | 531.5 | 413.5 | 321.2 | 252.4 | 214.5 | 199.1 |
| 82.5° | 1063.0 | 965.6 | 849.6 | 763.4 | 652.6 | 546.9 | 461.7 | 358.1 | 267.8 | 197.0 | 150.8 |
| 85° | 383.8 | 315.0 | 253.4 | 232.9 | 185.7 | 152.9 | 128.3 | 109.8 | 90.3 | 71.8 | 63.6 |
| 87.5° | 43.1 | 41.0 | 23.6 | 22.6 | 25.7 | 18.5 | 21.5 | 19.5 | 16.4 | 14.4 | 15.4 |
| 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: P150091

CATALOG NUMBER: TLM-E03-LED-E1-SL2-7050

CANDELA DISTRIBUTION (continued):

| | 87° | 88° | 89° | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 978.9 | 978.9 | 978.9 | 978.9 | 978.9 | 978.9 | 978.9 | 978.9 | 978.9 | 978.9 | 978.9 |
| 2.5° | 982.0 | 982.0 | 983.0 | 983.0 | 984.0 | 985.1 | 987.1 | 986.1 | 986.1 | 987.1 | 987.1 |
| 5° | 1009.7 | 1012.8 | 1011.7 | 1011.7 | 1011.7 | 1012.8 | 1013.8 | 1009.7 | 1005.6 | 1001.5 | 999.4 |
| 7.5° | 1057.9 | 1060.0 | 1062.0 | 1060.0 | 1062.0 | 1061.0 | 1058.9 | 1047.7 | 1034.3 | 1017.9 | 1006.6 |
| 10° | 1120.5 | 1120.5 | 1122.6 | 1121.5 | 1125.6 | 1122.6 | 1116.4 | 1090.8 | 1062.0 | 1027.1 | 1001.5 |
| 12.5° | 1188.2 | 1195.4 | 1192.3 | 1193.4 | 1201.6 | 1193.4 | 1179.0 | 1141.0 | 1089.7 | 1033.3 | 988.1 |
| 15° | 1268.3 | 1271.3 | 1273.4 | 1270.3 | 1275.4 | 1268.3 | 1242.6 | 1182.1 | 1107.2 | 1028.2 | 961.5 |
| 17.5° | 1333.9 | 1335.0 | 1336.0 | 1338.0 | 1345.2 | 1337.0 | 1292.9 | 1210.8 | 1111.3 | 1004.6 | 916.3 |
| 20° | 1385.2 | 1390.4 | 1394.5 | 1394.5 | 1404.7 | 1392.4 | 1333.9 | 1225.2 | 1097.9 | 965.6 | 858.9 |
| 22.5° | 1438.6 | 1442.7 | 1447.8 | 1448.9 | 1462.2 | 1449.9 | 1367.8 | 1222.1 | 1063.0 | 910.2 | 792.2 |
| 25° | 1504.3 | 1508.4 | 1512.5 | 1517.6 | 1536.1 | 1518.6 | 1401.7 | 1209.8 | 1014.8 | 844.5 | 720.3 |
| 27.5° | 1580.2 | 1589.4 | 1592.5 | 1600.7 | 1622.3 | 1595.6 | 1430.4 | 1191.3 | 961.5 | 768.6 | 644.4 |
| 30° | 1681.8 | 1693.1 | 1697.2 | 1708.5 | 1738.2 | 1679.7 | 1446.8 | 1159.5 | 893.7 | 691.6 | 563.3 |
| 32.5° | 1818.3 | 1833.7 | 1846.0 | 1858.3 | 1892.1 | 1763.9 | 1448.9 | 1113.3 | 814.7 | 605.4 | 485.3 |
| 35° | 1996.8 | 2020.4 | 2029.6 | 2037.8 | 2069.7 | 1855.2 | 1439.6 | 1044.6 | 718.3 | 517.2 | 423.8 |
| 37.5° | 2196.9 | 2220.5 | 2226.6 | 2230.8 | 2236.9 | 1933.2 | 1417.1 | 939.9 | 609.5 | 440.2 | 374.5 |
| 40° | 2443.2 | 2463.7 | 2471.9 | 2465.7 | 2432.9 | 1993.7 | 1366.8 | 817.8 | 503.8 | 387.9 | 343.7 |
| 42.5° | 2743.8 | 2774.6 | 2777.7 | 2750.0 | 2641.2 | 2027.6 | 1266.2 | 674.2 | 420.7 | 349.9 | 320.1 |
| 45° | 3116.3 | 3114.2 | 3096.8 | 3077.3 | 2868.0 | 2014.2 | 1125.6 | 549.0 | 368.4 | 320.1 | 298.6 |
| 47.5° | 3450.8 | 3415.9 | 3389.2 | 3331.8 | 3068.1 | 1936.3 | 944.0 | 454.6 | 336.6 | 297.6 | 280.1 |
| 50° | 3724.8 | 3661.1 | 3604.7 | 3542.1 | 3216.8 | 1797.7 | 763.4 | 385.8 | 306.8 | 278.1 | 262.7 |
| 52.5° | 3941.3 | 3864.3 | 3798.6 | 3737.1 | 3360.5 | 1643.8 | 625.9 | 335.5 | 278.1 | 258.6 | 243.2 |
| 55° | 4279.9 | 4202.9 | 4098.3 | 4030.5 | 3580.1 | 1502.2 | 536.7 | 295.5 | 250.4 | 238.1 | 222.7 |
| 57.5° | 5136.7 | 5069.0 | 4943.8 | 4768.3 | 4144.4 | 1448.9 | 486.4 | 264.7 | 227.8 | 220.6 | 208.3 |
| 60° | 6632.7 | 6523.0 | 6359.8 | 6181.3 | 5291.6 | 1484.8 | 446.4 | 243.2 | 212.4 | 206.2 | 197.0 |
| 62.5° | 7761.5 | 7568.6 | 7383.9 | 7218.7 | 6209.0 | 1483.7 | 394.0 | 226.8 | 201.1 | 198.0 | 188.8 |
| 65° | 7807.6 | 7611.7 | 7425.9 | 7252.5 | 6229.5 | 1320.6 | 332.5 | 212.4 | 199.1 | 198.0 | 182.6 |
| 67.5° | 7393.1 | 7180.7 | 7001.1 | 6782.6 | 5766.7 | 1032.3 | 266.8 | 203.2 | 207.3 | 205.2 | 180.6 |
| 70° | 6715.9 | 6438.8 | 6291.1 | 6075.6 | 5075.1 | 722.4 | 219.6 | 206.2 | 224.7 | 218.6 | 183.7 |
| 72.5° | 5271.1 | 5061.8 | 4837.1 | 4687.2 | 3973.1 | 456.6 | 184.7 | 208.3 | 231.9 | 221.6 | 191.9 |
| 75° | 1961.9 | 2018.3 | 1926.0 | 1893.2 | 2018.3 | 267.8 | 164.2 | 193.9 | 207.3 | 191.9 | 174.4 |
| 77.5° | 396.1 | 378.6 | 359.1 | 355.0 | 458.7 | 165.2 | 150.8 | 168.3 | 159.0 | 140.6 | 141.6 |
| 80° | 189.8 | 184.7 | 178.5 | 177.5 | 170.3 | 137.5 | 139.6 | 143.7 | 120.1 | 108.8 | 115.9 |
| 82.5° | 126.2 | 119.0 | 117.0 | 112.9 | 114.9 | 123.1 | 132.4 | 123.1 | 92.3 | 86.2 | 104.7 |
| 85° | 58.5 | 56.4 | 55.4 | 55.4 | 61.6 | 110.8 | 109.8 | 90.3 | 63.6 | 61.6 | 104.7 |
| 87.5° | 14.4 | 14.4 | 15.4 | 14.4 | 16.4 | 32.8 | 28.7 | 27.7 | 23.6 | 26.7 | 49.3 |
| 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: P150091

CATALOG NUMBER: TLM-E03-LED-E1-SL2-7050

CANDELA DISTRIBUTION (continued):

| | 165° | 175° | 180° |
|-------|-------|-------|-------|
| 0° | 978.9 | 978.9 | 978.9 |
| 2.5° | 986.1 | 987.1 | 986.1 |
| 5° | 995.3 | 995.3 | 995.3 |
| 7.5° | 995.3 | 992.2 | 991.2 |
| 10° | 981.0 | 971.7 | 971.7 |
| 12.5° | 956.3 | 940.9 | 938.9 |
| 15° | 910.2 | 889.6 | 886.6 |
| 17.5° | 851.7 | 824.0 | 818.8 |
| 20° | 786.0 | 751.1 | 745.0 |
| 22.5° | 714.2 | 674.2 | 671.1 |
| 25° | 643.4 | 602.3 | 594.1 |
| 27.5° | 564.4 | 524.3 | 520.2 |
| 30° | 485.3 | 450.5 | 448.4 |
| 32.5° | 418.7 | 397.1 | 393.0 |
| 35° | 371.5 | 359.1 | 354.0 |
| 37.5° | 340.7 | 331.4 | 330.4 |
| 40° | 317.1 | 308.9 | 307.8 |
| 42.5° | 297.6 | 290.4 | 289.4 |
| 45° | 278.1 | 271.9 | 269.9 |
| 47.5° | 258.6 | 252.4 | 251.4 |
| 50° | 241.1 | 232.9 | 231.9 |
| 52.5° | 224.7 | 216.5 | 214.5 |
| 55° | 209.3 | 201.1 | 201.1 |
| 57.5° | 196.0 | 187.8 | 186.8 |
| 60° | 183.7 | 175.5 | 174.4 |
| 62.5° | 174.4 | 164.2 | 163.2 |
| 65° | 167.3 | 157.0 | 154.9 |
| 67.5° | 163.2 | 150.8 | 147.8 |
| 70° | 170.3 | 147.8 | 142.6 |
| 72.5° | 171.4 | 144.7 | 137.5 |
| 75° | 165.2 | 136.5 | 131.3 |
| 77.5° | 144.7 | 122.1 | 117.0 |
| 80° | 125.2 | 94.4 | 87.2 |
| 82.5° | 119.0 | 77.0 | 66.7 |
| 85° | 92.3 | 50.3 | 47.2 |
| 87.5° | 52.3 | 27.7 | 22.6 |
| 90° | 0.0 | 0.0 | 0.0 |

(END OF REPORT)