

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: P151809

Luminaire Tested: **TLM-E04-LED-E1-SL4-HSS-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P151809
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33728)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TLM-E04-LED-E1-SL4-HSS-7030
Description: TALON MEDIUM LED SITE LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (84) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

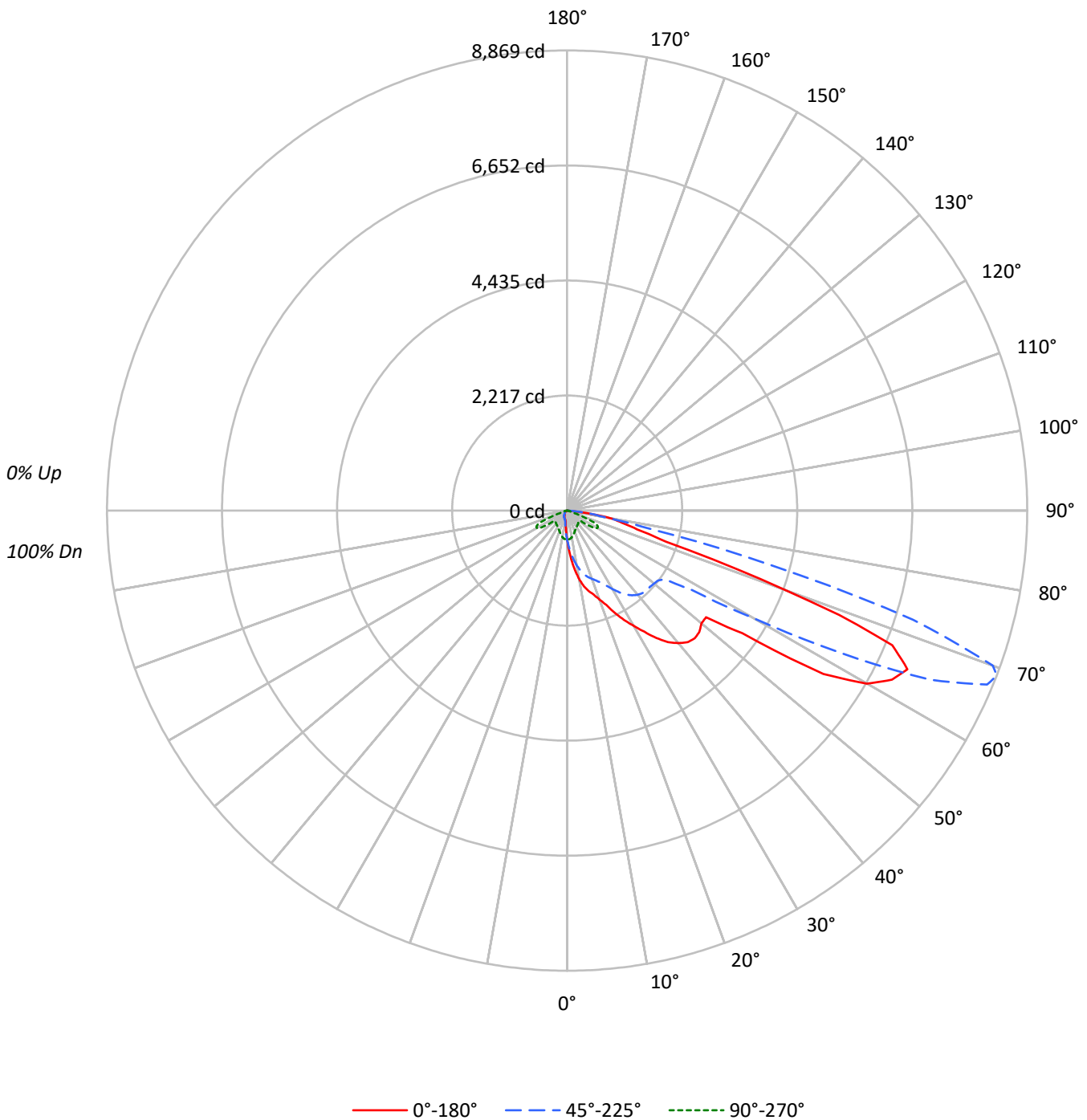
Lumens per Lamp: N/A
Luminaire Lumens: 7434.0 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Spacing Criteria (0/90/45): 4.24 / 0.98 / 4.1
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (A_{in}): 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: P151809
CATALOG NUMBER: TLM-E04-LED-E1-SL4-HSS-7030

Luminous Intensity Polar Plot





TEST NUMBER: P151809

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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 | 105 | 99 | 93 | 88 | 102 | 96 | 91 | 86 | 92 | 87 | 83 | 88 | 84 | 81 | 84 | 81 | 78 | 76 |
| 2 | 91 | 80 | 71 | 63 | 88 | 78 | 70 | 62 | 74 | 67 | 61 | 71 | 65 | 59 | 68 | 62 | 58 | 55 |
| 3 | 80 | 66 | 55 | 47 | 77 | 64 | 54 | 46 | 61 | 52 | 45 | 58 | 51 | 44 | 55 | 49 | 43 | 41 |
| 4 | 71 | 56 | 44 | 36 | 68 | 54 | 44 | 35 | 51 | 42 | 35 | 49 | 41 | 34 | 46 | 39 | 33 | 31 |
| 5 | 64 | 48 | 36 | 28 | 61 | 46 | 36 | 28 | 44 | 35 | 27 | 42 | 33 | 27 | 40 | 32 | 27 | 24 |
| 6 | 58 | 42 | 31 | 23 | 56 | 40 | 30 | 22 | 38 | 29 | 22 | 37 | 28 | 22 | 35 | 27 | 22 | 19 |
| 7 | 53 | 37 | 26 | 19 | 51 | 36 | 26 | 19 | 34 | 25 | 18 | 32 | 24 | 18 | 31 | 24 | 18 | 16 |
| 8 | 49 | 33 | 23 | 16 | 47 | 32 | 22 | 16 | 31 | 22 | 16 | 29 | 21 | 15 | 28 | 21 | 15 | 13 |
| 9 | 45 | 30 | 20 | 14 | 44 | 29 | 20 | 14 | 28 | 19 | 13 | 27 | 19 | 13 | 25 | 18 | 13 | 11 |
| 10 | 42 | 27 | 18 | 12 | 41 | 27 | 18 | 12 | 25 | 17 | 12 | 24 | 17 | 12 | 23 | 17 | 12 | 10 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|-------|------|
| 0° | 9019 | 9019 | 9019 |
| 5° | 15417 | 8897 | 4733 |
| 10° | 21953 | 8503 | 3039 |
| 15° | 26696 | 7819 | 2754 |
| 20° | 31147 | 7287 | 2498 |
| 25° | 38555 | 6972 | 2202 |
| 30° | 47577 | 6823 | 1875 |
| 35° | 58802 | 6758 | 1577 |
| 40° | 69954 | 6870 | 1455 |
| 45° | 79077 | 7166 | 1495 |
| 50° | 84493 | 7883 | 1370 |
| 55° | 115463 | 13643 | 818 |
| 60° | 214388 | 21637 | 588 |
| 65° | 275079 | 23379 | 555 |
| 70° | 207703 | 9667 | 629 |
| 75° | 86479 | 3706 | 757 |
| 80° | 78982 | 3497 | 1018 |
| 85° | 6968 | 3134 | 1788 |



TEST NUMBER: P151809

CATALOG NUMBER: TLM-E04-LED-E1-SL4-HSS-7030

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 57.7 | 0.8 |
| 10°-20° | 198.9 | 2.7 |
| 20°-30° | 380.8 | 5.1 |
| 30°-40° | 633.2 | 8.5 |
| 40°-50° | 856.9 | 11.5 |
| 50°-60° | 1340.1 | 18.0 |
| 60°-70° | 2755.2 | 37.1 |
| 70°-80° | 1108.6 | 14.9 |
| 80°-90° | 102.5 | 1.4 |
| 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° | 637.4 | 8.6 |
| 0°-40° | 1270.7 | 17.1 |
| 0°-60° | 3467.6 | 46.6 |
| 0°-90° | 7434.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 7434.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0° | 561 | 561 | 561 | 561 | 561 | |
| 5° | 956 | 814 | 552 | 351 | 294 | 103 |
| 15° | 1605 | 1273 | 470 | 174 | 166 | 459 |
| 25° | 2175 | 1532 | 393 | 139 | 124 | 1019 |
| 35° | 2998 | 1978 | 345 | 99 | 80 | 1880 |
| 45° | 3480 | 2165 | 315 | 64 | 66 | 2660 |
| 55° | 4122 | 2302 | 487 | 43 | 29 | 4156 |
| 65° | 7236 | 7716 | 615 | 21 | 15 | 6629 |
| 75° | 1393 | 4063 | 60 | 8 | 12 | 1868 |
| 85° | 38 | 163 | 17 | 6 | 10 | 234 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P151809

CATALOG NUMBER: TLM-E04-LED-E1-SL4-HSS-7030

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 561.4 | 561.4 | 561.4 | 561.4 | 561.4 | 561.4 | 561.4 | 561.4 | 561.4 | 561.4 | 561.4 |
| 2.5° | 748.9 | 740.4 | 730.7 | 730.7 | 718.5 | 718.5 | 711.2 | 691.7 | 689.3 | 678.3 | 667.4 |
| 5° | 956.0 | 948.7 | 936.5 | 925.5 | 915.8 | 898.7 | 886.6 | 863.4 | 837.8 | 813.5 | 791.6 |
| 7.5° | 1158.1 | 1154.5 | 1132.6 | 1128.9 | 1113.1 | 1085.1 | 1060.7 | 1026.6 | 982.8 | 948.7 | 908.5 |
| 10° | 1345.7 | 1337.1 | 1332.3 | 1311.6 | 1288.4 | 1258.0 | 1220.2 | 1178.8 | 1127.7 | 1074.1 | 1016.9 |
| 12.5° | 1494.2 | 1489.4 | 1467.4 | 1458.9 | 1434.6 | 1404.1 | 1356.6 | 1303.0 | 1251.9 | 1182.5 | 1115.5 |
| 15° | 1605.1 | 1596.5 | 1581.9 | 1568.5 | 1539.3 | 1512.5 | 1468.7 | 1410.2 | 1348.1 | 1272.6 | 1192.2 |
| 17.5° | 1697.6 | 1681.8 | 1678.1 | 1657.4 | 1627.0 | 1595.3 | 1546.6 | 1493.0 | 1420.0 | 1344.5 | 1256.8 |
| 20° | 1821.8 | 1799.9 | 1792.6 | 1762.2 | 1726.8 | 1683.0 | 1627.0 | 1560.0 | 1483.3 | 1400.5 | 1310.4 |
| 22.5° | 1968.0 | 1952.1 | 1936.3 | 1909.5 | 1864.5 | 1802.3 | 1720.8 | 1647.7 | 1550.3 | 1458.9 | 1361.5 |
| 25° | 2175.0 | 2161.6 | 2136.0 | 2099.5 | 2043.5 | 1969.2 | 1870.5 | 1763.4 | 1648.9 | 1532.0 | 1417.5 |
| 27.5° | 2375.9 | 2363.8 | 2345.5 | 2317.5 | 2254.1 | 2172.6 | 2050.8 | 1914.4 | 1769.5 | 1628.2 | 1501.5 |
| 30° | 2564.7 | 2553.7 | 2535.5 | 2507.5 | 2451.4 | 2371.1 | 2233.4 | 2087.3 | 1907.1 | 1742.7 | 1590.4 |
| 32.5° | 2768.1 | 2764.4 | 2743.7 | 2703.5 | 2654.8 | 2546.4 | 2396.6 | 2239.5 | 2056.9 | 1866.9 | 1689.1 |
| 35° | 2998.2 | 2970.2 | 2950.7 | 2910.5 | 2827.7 | 2712.0 | 2536.7 | 2365.0 | 2172.6 | 1977.7 | 1779.2 |
| 37.5° | 3193.1 | 3166.3 | 3141.9 | 3090.8 | 2989.7 | 2842.3 | 2643.8 | 2455.1 | 2256.6 | 2058.1 | 1855.9 |
| 40° | 3335.6 | 3322.2 | 3292.9 | 3226.0 | 3112.7 | 2937.3 | 2723.0 | 2517.2 | 2317.5 | 2117.8 | 1918.0 |
| 42.5° | 3441.5 | 3420.8 | 3387.9 | 3318.5 | 3184.5 | 2984.8 | 2754.7 | 2542.8 | 2345.5 | 2154.3 | 1958.2 |
| 45° | 3480.5 | 3463.4 | 3433.0 | 3357.5 | 3212.6 | 2998.2 | 2753.4 | 2535.5 | 2346.7 | 2165.2 | 1985.0 |
| 47.5° | 3457.3 | 3440.3 | 3413.5 | 3342.9 | 3200.4 | 2982.4 | 2731.5 | 2514.8 | 2334.5 | 2168.9 | 2009.4 |
| 50° | 3380.6 | 3370.9 | 3350.2 | 3290.5 | 3162.6 | 2951.9 | 2712.0 | 2503.8 | 2332.1 | 2187.2 | 2043.5 |
| 52.5° | 3373.3 | 3367.2 | 3341.6 | 3282.0 | 3151.7 | 2942.2 | 2709.6 | 2509.9 | 2352.8 | 2210.3 | 2067.8 |
| 55° | 4122.3 | 4035.8 | 3842.2 | 3677.8 | 3407.4 | 3085.9 | 2832.6 | 2608.5 | 2440.5 | 2301.6 | 2201.8 |
| 57.5° | 5858.8 | 5729.8 | 5475.2 | 5162.3 | 4541.2 | 3931.1 | 3442.7 | 3089.6 | 2915.4 | 2852.1 | 2889.8 |
| 60° | 6672.3 | 6649.2 | 6609.0 | 6460.4 | 6142.6 | 5617.7 | 5033.2 | 4401.1 | 4147.8 | 4125.9 | 4202.6 |
| 62.5° | 7058.4 | 7043.8 | 7055.9 | 7037.7 | 6939.0 | 6785.6 | 6617.5 | 6344.7 | 6093.9 | 5931.9 | 5588.5 |
| 65° | 7236.2 | 7245.9 | 7315.3 | 7370.1 | 7382.3 | 7422.5 | 7545.5 | 7885.3 | 8133.7 | 7716.0 | 6762.4 |
| 67.5° | 6784.4 | 6841.6 | 7001.1 | 7200.9 | 7434.7 | 7661.2 | 8026.5 | 8742.6 | 9252.8 | 8762.1 | 7407.9 |
| 69° | 5616.5 | 5644.5 | 6034.2 | 6410.5 | 6981.6 | 7381.1 | 7910.8 | 8849.8 | 9423.3 | 8869.2 | 7356.7 |
| 70° | 4421.8 | 4447.4 | 4865.1 | 5376.6 | 6342.3 | 6856.2 | 7549.1 | 8668.3 | 9263.8 | 8726.8 | 7093.7 |
| 72.5° | 1994.8 | 1958.2 | 2105.6 | 2379.6 | 3429.3 | 4245.3 | 5457.0 | 7023.1 | 7642.9 | 6991.4 | 5307.2 |
| 75° | 1393.2 | 1377.3 | 1393.2 | 1394.4 | 1557.6 | 2009.4 | 2535.5 | 3806.8 | 4708.0 | 4062.6 | 2535.5 |
| 77.5° | 1079.0 | 1068.0 | 1057.1 | 1044.9 | 1064.4 | 1192.2 | 1243.4 | 1350.5 | 1753.6 | 1658.6 | 966.9 |
| 80° | 853.7 | 843.9 | 870.7 | 862.2 | 862.2 | 876.8 | 867.1 | 826.9 | 751.4 | 696.6 | 623.5 |
| 82.5° | 397.0 | 399.4 | 399.4 | 433.5 | 522.4 | 610.1 | 638.1 | 597.9 | 531.0 | 451.8 | 364.1 |
| 85° | 37.8 | 42.6 | 71.9 | 110.8 | 220.4 | 248.4 | 249.6 | 207.0 | 207.0 | 163.2 | 131.5 |
| 87.5° | 0.0 | 1.2 | 1.2 | 1.2 | 11.0 | 30.4 | 25.6 | 7.3 | 3.7 | 3.7 | 6.1 |
| 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: P151809

CATALOG NUMBER: TLM-E04-LED-E1-SL4-HSS-7030

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 0° | 561.4 | 561.4 | 561.4 | 561.4 | 561.4 | 561.4 | 561.4 | 561.4 | 561.4 | 561.4 | 561.4 |
| 2.5° | 647.9 | 644.2 | 629.6 | 615.0 | 601.6 | 587.0 | 573.6 | 560.2 | 545.6 | 534.6 | 521.2 |
| 5° | 757.5 | 730.7 | 700.2 | 671.0 | 641.8 | 611.3 | 579.7 | 551.7 | 522.4 | 495.6 | 470.1 |
| 7.5° | 868.3 | 815.9 | 774.5 | 722.2 | 674.7 | 627.2 | 583.3 | 538.3 | 496.9 | 457.9 | 421.4 |
| 10° | 962.1 | 898.7 | 834.2 | 767.2 | 699.0 | 635.7 | 574.8 | 521.2 | 466.4 | 418.9 | 373.9 |
| 12.5° | 1038.8 | 958.4 | 879.3 | 795.2 | 718.5 | 638.1 | 562.6 | 498.1 | 433.5 | 380.0 | 333.7 |
| 15° | 1108.2 | 1015.6 | 920.7 | 823.2 | 725.8 | 634.5 | 550.4 | 470.1 | 404.3 | 343.4 | 291.1 |
| 17.5° | 1164.2 | 1058.3 | 951.1 | 841.5 | 736.8 | 629.6 | 534.6 | 450.6 | 373.9 | 310.5 | 259.4 |
| 20° | 1212.9 | 1102.1 | 986.4 | 863.4 | 744.1 | 628.4 | 521.2 | 426.2 | 347.1 | 280.1 | 230.2 |
| 22.5° | 1258.0 | 1147.2 | 1023.0 | 891.4 | 755.0 | 627.2 | 509.0 | 408.0 | 323.9 | 257.0 | 207.0 |
| 25° | 1309.1 | 1192.2 | 1061.9 | 920.7 | 774.5 | 632.0 | 501.7 | 393.3 | 303.2 | 235.0 | 188.8 |
| 27.5° | 1366.4 | 1243.4 | 1108.2 | 957.2 | 800.1 | 641.8 | 499.3 | 377.5 | 285.0 | 214.3 | 174.1 |
| 30° | 1446.7 | 1304.3 | 1154.5 | 993.7 | 823.2 | 652.7 | 496.9 | 367.8 | 266.7 | 198.5 | 159.5 |
| 32.5° | 1517.4 | 1363.9 | 1205.6 | 1031.5 | 848.8 | 663.7 | 495.6 | 354.4 | 249.6 | 182.7 | 148.6 |
| 35° | 1591.7 | 1418.7 | 1249.5 | 1068.0 | 870.7 | 675.9 | 494.4 | 344.6 | 233.8 | 166.8 | 137.6 |
| 37.5° | 1656.2 | 1465.0 | 1283.6 | 1099.7 | 895.1 | 686.8 | 495.6 | 336.1 | 219.2 | 153.4 | 127.9 |
| 40° | 1711.0 | 1512.5 | 1321.3 | 1128.9 | 920.7 | 703.9 | 496.9 | 327.6 | 204.6 | 141.3 | 119.3 |
| 42.5° | 1759.7 | 1557.6 | 1361.5 | 1161.8 | 949.9 | 723.4 | 504.2 | 320.3 | 192.4 | 130.3 | 110.8 |
| 45° | 1797.5 | 1599.0 | 1405.3 | 1208.1 | 997.4 | 755.0 | 517.6 | 315.4 | 180.2 | 120.6 | 103.5 |
| 47.5° | 1836.4 | 1659.9 | 1479.6 | 1281.1 | 1066.8 | 805.0 | 540.7 | 314.2 | 170.5 | 113.3 | 97.4 |
| 50° | 1890.0 | 1720.8 | 1545.4 | 1355.4 | 1130.1 | 856.1 | 568.7 | 315.4 | 158.3 | 105.9 | 91.3 |
| 52.5° | 1929.0 | 1782.9 | 1630.6 | 1484.5 | 1281.1 | 1012.0 | 677.1 | 337.3 | 152.2 | 99.9 | 84.0 |
| 55° | 2159.2 | 2133.6 | 2137.2 | 2161.6 | 2004.5 | 1722.0 | 1132.6 | 487.1 | 179.0 | 113.3 | 82.8 |
| 57.5° | 3044.5 | 3134.6 | 3187.0 | 3185.8 | 2926.4 | 2427.1 | 1521.0 | 625.9 | 199.7 | 131.5 | 98.6 |
| 60° | 4208.7 | 4140.5 | 4044.3 | 3806.8 | 3462.2 | 2770.5 | 1701.3 | 673.4 | 172.9 | 104.7 | 90.1 |
| 62.5° | 5237.8 | 4838.3 | 4483.9 | 4099.1 | 3647.3 | 2889.8 | 1737.8 | 669.8 | 151.0 | 79.2 | 63.3 |
| 65° | 5879.5 | 5161.0 | 4588.7 | 4106.4 | 3574.2 | 2790.0 | 1644.0 | 615.0 | 127.9 | 64.5 | 52.4 |
| 67.5° | 6033.0 | 4986.9 | 4177.1 | 3562.1 | 2986.0 | 2171.3 | 1206.8 | 462.8 | 99.9 | 53.6 | 46.3 |
| 69° | 5698.1 | 4432.8 | 3461.0 | 2763.2 | 2172.6 | 1440.7 | 746.5 | 292.3 | 76.7 | 48.7 | 42.6 |
| 70° | 5241.4 | 3855.6 | 2819.2 | 2217.6 | 1608.7 | 1012.0 | 522.4 | 205.8 | 62.1 | 45.1 | 39.0 |
| 72.5° | 3372.1 | 2025.2 | 1385.9 | 964.5 | 663.7 | 403.1 | 204.6 | 92.6 | 47.5 | 37.8 | 31.7 |
| 75° | 1307.9 | 748.9 | 543.1 | 412.8 | 322.7 | 224.1 | 124.2 | 59.7 | 40.2 | 31.7 | 24.4 |
| 77.5° | 644.2 | 493.2 | 403.1 | 276.4 | 160.7 | 99.9 | 67.0 | 46.3 | 32.9 | 23.1 | 15.8 |
| 80° | 509.0 | 338.5 | 202.2 | 125.4 | 95.0 | 71.9 | 51.1 | 37.8 | 24.4 | 14.6 | 11.0 |
| 82.5° | 260.6 | 142.5 | 104.7 | 85.2 | 70.6 | 56.0 | 41.4 | 26.8 | 15.8 | 9.7 | 8.5 |
| 85° | 81.6 | 59.7 | 53.6 | 52.4 | 48.7 | 40.2 | 29.2 | 17.0 | 9.7 | 6.1 | 6.1 |
| 87.5° | 6.1 | 8.5 | 11.0 | 8.5 | 9.7 | 8.5 | 11.0 | 7.3 | 4.9 | 4.9 | 3.7 |
| 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: P151809

CATALOG NUMBER: TLM-E04-LED-E1-SL4-HSS-7030

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 561.4 | 561.4 | 561.4 | 561.4 | 561.4 | 561.4 | 561.4 | 561.4 | 561.4 | 561.4 | 561.4 |
| 2.5° | 511.5 | 496.9 | 483.5 | 474.9 | 459.1 | 453.0 | 446.9 | 444.5 | 433.5 | 436.0 | 426.2 |
| 5° | 446.9 | 421.4 | 401.9 | 382.4 | 364.1 | 350.7 | 339.8 | 326.4 | 315.4 | 310.5 | 300.8 |
| 7.5° | 388.5 | 355.6 | 330.0 | 309.3 | 287.4 | 270.4 | 255.7 | 246.0 | 236.3 | 226.5 | 221.6 |
| 10° | 337.3 | 302.0 | 272.8 | 252.1 | 231.4 | 216.8 | 205.8 | 198.5 | 192.4 | 188.8 | 187.5 |
| 12.5° | 289.8 | 255.7 | 228.9 | 210.7 | 194.8 | 187.5 | 182.7 | 179.0 | 177.8 | 176.6 | 176.6 |
| 15° | 253.3 | 219.2 | 198.5 | 185.1 | 177.8 | 174.1 | 172.9 | 170.5 | 168.1 | 166.8 | 166.8 |
| 17.5° | 219.2 | 193.6 | 179.0 | 171.7 | 168.1 | 165.6 | 163.2 | 160.7 | 158.3 | 157.1 | 157.1 |
| 20° | 196.1 | 175.4 | 168.1 | 163.2 | 159.5 | 157.1 | 153.4 | 151.0 | 149.8 | 148.6 | 147.4 |
| 22.5° | 177.8 | 164.4 | 159.5 | 155.9 | 151.0 | 147.4 | 144.9 | 142.5 | 140.0 | 138.8 | 137.6 |
| 25° | 164.4 | 155.9 | 152.2 | 147.4 | 142.5 | 138.8 | 135.2 | 131.5 | 129.1 | 127.9 | 125.4 |
| 27.5° | 154.7 | 148.6 | 143.7 | 137.6 | 132.7 | 129.1 | 125.4 | 121.8 | 119.3 | 116.9 | 115.7 |
| 30° | 146.1 | 140.0 | 134.0 | 129.1 | 123.0 | 119.3 | 114.5 | 110.8 | 109.6 | 107.2 | 104.7 |
| 32.5° | 137.6 | 131.5 | 125.4 | 119.3 | 113.3 | 108.4 | 105.9 | 101.1 | 98.6 | 97.4 | 95.0 |
| 35° | 127.9 | 121.8 | 114.5 | 109.6 | 103.5 | 98.6 | 95.0 | 91.3 | 88.9 | 86.5 | 85.2 |
| 37.5° | 119.3 | 112.0 | 104.7 | 98.6 | 93.8 | 88.9 | 85.2 | 81.6 | 79.2 | 76.7 | 75.5 |
| 40° | 109.6 | 102.3 | 95.0 | 88.9 | 84.0 | 80.4 | 76.7 | 73.1 | 70.6 | 69.4 | 69.4 |
| 42.5° | 101.1 | 92.6 | 85.2 | 80.4 | 76.7 | 71.9 | 68.2 | 64.5 | 63.3 | 62.1 | 63.3 |
| 45° | 92.6 | 84.0 | 77.9 | 73.1 | 69.4 | 64.5 | 60.9 | 58.5 | 57.2 | 58.5 | 59.7 |
| 47.5° | 85.2 | 76.7 | 70.6 | 67.0 | 63.3 | 59.7 | 56.0 | 53.6 | 53.6 | 56.0 | 58.5 |
| 50° | 77.9 | 69.4 | 64.5 | 62.1 | 58.5 | 54.8 | 49.9 | 48.7 | 49.9 | 52.4 | 54.8 |
| 52.5° | 70.6 | 60.9 | 57.2 | 56.0 | 52.4 | 48.7 | 45.1 | 43.8 | 45.1 | 47.5 | 46.3 |
| 55° | 63.3 | 53.6 | 52.4 | 51.1 | 47.5 | 42.6 | 39.0 | 39.0 | 39.0 | 37.8 | 35.3 |
| 57.5° | 60.9 | 47.5 | 46.3 | 45.1 | 41.4 | 36.5 | 34.1 | 31.7 | 30.4 | 26.8 | 25.6 |
| 60° | 63.3 | 42.6 | 42.6 | 40.2 | 36.5 | 31.7 | 28.0 | 24.4 | 21.9 | 19.5 | 19.5 |
| 62.5° | 51.1 | 39.0 | 37.8 | 35.3 | 30.4 | 25.6 | 21.9 | 18.3 | 17.0 | 15.8 | 15.8 |
| 65° | 41.4 | 35.3 | 32.9 | 29.2 | 25.6 | 20.7 | 17.0 | 14.6 | 13.4 | 13.4 | 14.6 |
| 67.5° | 37.8 | 31.7 | 28.0 | 24.4 | 20.7 | 15.8 | 13.4 | 12.2 | 12.2 | 13.4 | 13.4 |
| 69° | 35.3 | 29.2 | 25.6 | 21.9 | 18.3 | 14.6 | 12.2 | 12.2 | 12.2 | 12.2 | 13.4 |
| 70° | 32.9 | 28.0 | 24.4 | 20.7 | 15.8 | 12.2 | 11.0 | 11.0 | 12.2 | 12.2 | 13.4 |
| 72.5° | 25.6 | 21.9 | 20.7 | 17.0 | 12.2 | 11.0 | 9.7 | 11.0 | 11.0 | 12.2 | 12.2 |
| 75° | 19.5 | 15.8 | 15.8 | 13.4 | 9.7 | 8.5 | 8.5 | 9.7 | 9.7 | 11.0 | 11.0 |
| 77.5° | 13.4 | 11.0 | 11.0 | 9.7 | 8.5 | 7.3 | 7.3 | 8.5 | 9.7 | 9.7 | 11.0 |
| 80° | 9.7 | 8.5 | 7.3 | 8.5 | 7.3 | 6.1 | 7.3 | 8.5 | 8.5 | 9.7 | 9.7 |
| 82.5° | 7.3 | 7.3 | 7.3 | 7.3 | 6.1 | 6.1 | 7.3 | 7.3 | 8.5 | 9.7 | 9.7 |
| 85° | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 | 7.3 | 7.3 | 8.5 | 8.5 |
| 87.5° | 3.7 | 3.7 | 3.7 | 4.9 | 4.9 | 6.1 | 6.1 | 6.1 | 6.1 | 7.3 | 7.3 |
| 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: P151809

CATALOG NUMBER: TLM-E04-LED-E1-SL4-HSS-7030

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|-------|-------|-------|-------|
| 0° | 561.4 | 561.4 | 561.4 | 561.4 |
| 2.5° | 423.8 | 422.6 | 417.7 | 418.9 |
| 5° | 297.1 | 289.8 | 294.7 | 293.5 |
| 7.5° | 218.0 | 216.8 | 215.6 | 218.0 |
| 10° | 186.3 | 186.3 | 185.1 | 186.3 |
| 12.5° | 175.4 | 175.4 | 175.4 | 175.4 |
| 15° | 166.8 | 166.8 | 165.6 | 165.6 |
| 17.5° | 157.1 | 157.1 | 157.1 | 155.9 |
| 20° | 147.4 | 146.1 | 146.1 | 146.1 |
| 22.5° | 136.4 | 135.2 | 135.2 | 135.2 |
| 25° | 125.4 | 124.2 | 124.2 | 124.2 |
| 27.5° | 114.5 | 113.3 | 112.0 | 112.0 |
| 30° | 103.5 | 102.3 | 101.1 | 101.1 |
| 32.5° | 92.6 | 91.3 | 90.1 | 90.1 |
| 35° | 82.8 | 82.8 | 81.6 | 80.4 |
| 37.5° | 74.3 | 74.3 | 74.3 | 74.3 |
| 40° | 68.2 | 69.4 | 69.4 | 69.4 |
| 42.5° | 64.5 | 65.8 | 67.0 | 68.2 |
| 45° | 62.1 | 64.5 | 65.8 | 65.8 |
| 47.5° | 60.9 | 62.1 | 63.3 | 63.3 |
| 50° | 56.0 | 54.8 | 54.8 | 54.8 |
| 52.5° | 45.1 | 42.6 | 41.4 | 40.2 |
| 55° | 32.9 | 31.7 | 29.2 | 29.2 |
| 57.5° | 23.1 | 23.1 | 21.9 | 21.9 |
| 60° | 18.3 | 18.3 | 17.0 | 18.3 |
| 62.5° | 15.8 | 15.8 | 15.8 | 15.8 |
| 65° | 14.6 | 14.6 | 14.6 | 14.6 |
| 67.5° | 14.6 | 14.6 | 14.6 | 14.6 |
| 69° | 13.4 | 13.4 | 13.4 | 13.4 |
| 70° | 13.4 | 13.4 | 13.4 | 13.4 |
| 72.5° | 12.2 | 12.2 | 12.2 | 12.2 |
| 75° | 11.0 | 12.2 | 12.2 | 12.2 |
| 77.5° | 11.0 | 11.0 | 11.0 | 11.0 |
| 80° | 9.7 | 9.7 | 11.0 | 11.0 |
| 82.5° | 9.7 | 9.7 | 9.7 | 9.7 |
| 85° | 8.5 | 8.5 | 9.7 | 9.7 |
| 87.5° | 7.3 | 7.3 | 8.5 | 8.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)