

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: P148957

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P148957
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33677)
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-RW-7060
Description: TALON MEDIUM LED SITE LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (21) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

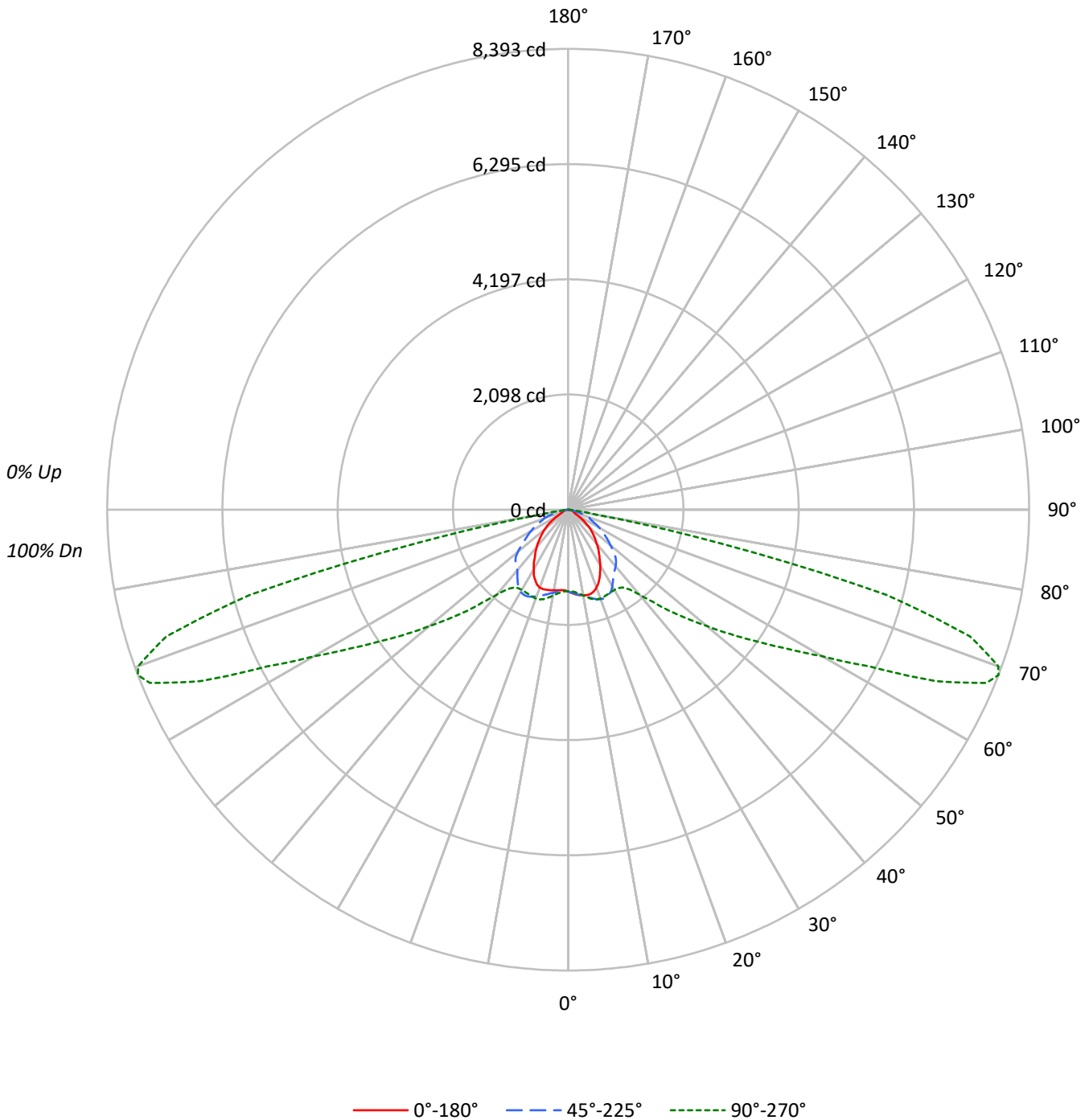
Lumens per Lamp: N/A
Luminaire Lumens: 7938.6 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 3.07 / 1.6
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (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: P148957
CATALOG NUMBER: TLM-F03-LED-E1-RW-7060

Luminous Intensity Polar Plot





TEST NUMBER: P148957

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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 | 101 | 95 | 91 | 104 | 98 | 93 | 89 | 94 | 90 | 86 | 90 | 87 | 84 | 86 | 84 | 81 | 79 |
| 2 | 94 | 84 | 76 | 69 | 91 | 82 | 75 | 68 | 79 | 72 | 66 | 75 | 70 | 65 | 72 | 67 | 63 | 61 |
| 3 | 84 | 72 | 62 | 54 | 81 | 70 | 61 | 54 | 67 | 59 | 52 | 64 | 57 | 51 | 61 | 55 | 51 | 48 |
| 4 | 76 | 62 | 51 | 44 | 73 | 60 | 51 | 43 | 58 | 49 | 43 | 55 | 48 | 42 | 53 | 47 | 41 | 39 |
| 5 | 69 | 54 | 44 | 36 | 67 | 53 | 43 | 36 | 51 | 42 | 35 | 49 | 41 | 35 | 47 | 40 | 35 | 32 |
| 6 | 63 | 48 | 38 | 31 | 61 | 47 | 37 | 30 | 45 | 36 | 30 | 43 | 36 | 30 | 42 | 35 | 29 | 27 |
| 7 | 58 | 43 | 33 | 26 | 56 | 42 | 33 | 26 | 40 | 32 | 26 | 39 | 31 | 26 | 38 | 31 | 25 | 23 |
| 8 | 54 | 39 | 29 | 23 | 52 | 38 | 29 | 23 | 37 | 29 | 23 | 35 | 28 | 23 | 34 | 27 | 22 | 20 |
| 9 | 50 | 35 | 26 | 20 | 49 | 35 | 26 | 20 | 34 | 26 | 20 | 32 | 25 | 20 | 31 | 25 | 20 | 18 |
| 10 | 47 | 33 | 24 | 18 | 46 | 32 | 24 | 18 | 31 | 23 | 18 | 30 | 23 | 18 | 29 | 23 | 18 | 16 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|--------|-------|
| 0° | 32023 | 32023 | 32023 |
| 5° | 33444 | 32601 | 31760 |
| 10° | 34589 | 34700 | 32608 |
| 15° | 35379 | 37550 | 33643 |
| 20° | 34522 | 39413 | 34600 |
| 25° | 32214 | 40383 | 33663 |
| 30° | 28995 | 41923 | 31142 |
| 35° | 25758 | 45437 | 27850 |
| 40° | 22710 | 56537 | 25090 |
| 45° | 19856 | 79224 | 21920 |
| 50° | 16709 | 110444 | 18809 |
| 55° | 12048 | 156740 | 14784 |
| 60° | 7186 | 229513 | 8826 |
| 65° | 6474 | 376048 | 6474 |
| 70° | 6609 | 524430 | 6716 |
| 75° | 7045 | 499121 | 7394 |
| 80° | 7141 | 64268 | 7773 |
| 85° | 4594 | 16105 | 6496 |



TEST NUMBER: P148957

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

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 145.9 | 1.8 |
| 10°-20° | 460.3 | 5.8 |
| 20°-30° | 745.7 | 9.4 |
| 30°-40° | 929.3 | 11.7 |
| 40°-50° | 1161.3 | 14.6 |
| 50°-60° | 1433.9 | 18.1 |
| 60°-70° | 1781.7 | 22.4 |
| 70°-80° | 1182.8 | 14.9 |
| 80°-90° | 97.7 | 1.2 |
| 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° | 1351.9 | 17.0 |
| 0°-40° | 2281.2 | 28.7 |
| 0°-60° | 4876.4 | 61.4 |
| 0°-90° | 7938.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 7938.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1488 | 1488 | 1488 | 1488 | 1488 | |
| 5° | 1548 | 1538 | 1509 | 1485 | 1470 | 149 |
| 15° | 1587 | 1669 | 1685 | 1602 | 1510 | 444 |
| 25° | 1356 | 1727 | 1700 | 1743 | 1417 | 620 |
| 35° | 980 | 1443 | 1729 | 1606 | 1060 | 614 |
| 45° | 652 | 1216 | 2602 | 1357 | 720 | 503 |
| 55° | 321 | 822 | 4176 | 964 | 394 | 286 |
| 65° | 127 | 477 | 7382 | 606 | 127 | 128 |
| 75° | 85 | 188 | 6001 | 245 | 89 | 89 |
| 85° | 19 | 36 | 65 | 47 | 26 | 24 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 71° | 72° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 |
| 2.5° | 1521.3 | 1526.4 | 1521.3 | 1521.3 | 1517.1 | 1512.9 | 1510.3 | 1504.4 | 1501.0 | 1499.3 | 1499.3 |
| 5° | 1547.6 | 1546.8 | 1547.6 | 1547.6 | 1543.4 | 1538.3 | 1534.9 | 1529.8 | 1524.7 | 1523.9 | 1523.0 |
| 7.5° | 1567.1 | 1566.2 | 1568.8 | 1573.9 | 1571.3 | 1567.1 | 1567.1 | 1562.0 | 1558.6 | 1558.6 | 1556.9 |
| 10° | 1582.3 | 1583.2 | 1588.3 | 1595.9 | 1597.6 | 1596.7 | 1602.7 | 1601.0 | 1599.3 | 1601.0 | 1599.3 |
| 12.5° | 1592.5 | 1593.3 | 1600.1 | 1614.5 | 1623.8 | 1629.8 | 1645.0 | 1645.9 | 1646.7 | 1646.7 | 1646.7 |
| 15° | 1587.4 | 1587.4 | 1601.0 | 1628.1 | 1651.0 | 1668.7 | 1688.2 | 1691.6 | 1688.2 | 1690.8 | 1689.1 |
| 17.5° | 1557.8 | 1559.5 | 1581.5 | 1623.0 | 1669.6 | 1708.6 | 1729.7 | 1723.8 | 1717.9 | 1717.9 | 1715.3 |
| 20° | 1506.9 | 1510.3 | 1540.0 | 1598.4 | 1672.1 | 1734.0 | 1767.0 | 1747.5 | 1731.4 | 1728.9 | 1726.3 |
| 22.5° | 1444.3 | 1441.7 | 1477.3 | 1551.0 | 1652.6 | 1745.0 | 1789.9 | 1766.2 | 1737.4 | 1731.4 | 1727.2 |
| 25° | 1356.2 | 1357.9 | 1395.1 | 1477.3 | 1603.5 | 1727.2 | 1796.6 | 1784.8 | 1750.9 | 1743.3 | 1734.0 |
| 27.5° | 1259.6 | 1263.8 | 1303.6 | 1387.5 | 1527.3 | 1683.1 | 1789.0 | 1803.4 | 1777.2 | 1768.7 | 1760.2 |
| 30° | 1166.4 | 1169.0 | 1213.9 | 1303.6 | 1433.3 | 1605.2 | 1768.7 | 1823.8 | 1810.2 | 1803.4 | 1795.8 |
| 32.5° | 1067.3 | 1075.8 | 1114.8 | 1216.4 | 1358.7 | 1519.7 | 1737.4 | 1844.9 | 1850.0 | 1845.8 | 1841.5 |
| 35° | 980.1 | 986.8 | 1030.9 | 1137.6 | 1286.7 | 1443.4 | 1699.2 | 1867.8 | 1902.5 | 1901.7 | 1900.8 |
| 37.5° | 901.3 | 903.0 | 949.6 | 1058.0 | 1215.6 | 1390.1 | 1659.4 | 1905.1 | 1966.9 | 1975.4 | 1985.5 |
| 40° | 808.1 | 816.6 | 864.9 | 981.8 | 1145.2 | 1344.3 | 1625.5 | 1955.1 | 2056.7 | 2075.3 | 2089.7 |
| 42.5° | 733.6 | 733.6 | 776.8 | 892.8 | 1062.2 | 1291.8 | 1613.7 | 2017.7 | 2163.4 | 2188.8 | 2214.3 |
| 45° | 652.2 | 654.8 | 696.3 | 802.2 | 967.4 | 1215.6 | 1612.0 | 2087.2 | 2282.9 | 2319.3 | 2350.6 |
| 47.5° | 575.2 | 576.9 | 620.9 | 723.4 | 869.1 | 1110.5 | 1590.8 | 2164.3 | 2408.2 | 2460.8 | 2495.5 |
| 50° | 498.9 | 496.4 | 538.7 | 642.9 | 781.9 | 1002.1 | 1523.0 | 2264.2 | 2564.1 | 2616.6 | 2656.4 |
| 52.5° | 404.9 | 411.7 | 457.4 | 556.5 | 696.3 | 909.8 | 1385.0 | 2362.5 | 2725.0 | 2784.3 | 2838.6 |
| 55° | 321.0 | 320.2 | 371.9 | 461.7 | 604.0 | 822.5 | 1221.5 | 2432.0 | 2881.8 | 2950.4 | 3010.5 |
| 57.5° | 230.4 | 232.9 | 277.0 | 365.9 | 508.2 | 744.6 | 1097.8 | 2420.1 | 3002.9 | 3084.2 | 3160.4 |
| 60° | 166.9 | 172.0 | 205.0 | 270.2 | 405.7 | 654.8 | 1011.4 | 2282.9 | 3085.9 | 3196.9 | 3289.2 |
| 62.5° | 140.6 | 144.8 | 173.7 | 209.2 | 313.4 | 560.8 | 927.5 | 2062.6 | 3193.5 | 3340.0 | 3473.9 |
| 65° | 127.1 | 130.4 | 159.3 | 179.6 | 240.6 | 476.9 | 875.0 | 1906.8 | 3334.9 | 3557.7 | 3740.7 |
| 67.5° | 114.4 | 119.4 | 144.8 | 160.1 | 204.1 | 426.1 | 859.8 | 1883.0 | 3362.0 | 3656.8 | 3916.9 |
| 69° | 108.4 | 113.5 | 136.4 | 149.9 | 192.3 | 410.0 | 831.0 | 1797.5 | 3185.0 | 3501.8 | 3793.2 |
| 70° | 105.0 | 109.3 | 129.6 | 144.0 | 188.9 | 394.7 | 790.3 | 1672.1 | 2997.0 | 3316.3 | 3629.7 |
| 72.5° | 96.6 | 99.1 | 116.0 | 130.4 | 173.7 | 303.3 | 598.9 | 1207.9 | 2237.1 | 2553.1 | 2860.6 |
| 75° | 84.7 | 87.2 | 102.5 | 116.9 | 134.7 | 188.1 | 363.4 | 716.6 | 1373.1 | 1585.7 | 1894.1 |
| 77.5° | 72.8 | 75.4 | 88.1 | 110.1 | 106.7 | 122.8 | 221.9 | 428.6 | 720.0 | 825.9 | 1023.3 |
| 80° | 57.6 | 61.0 | 73.7 | 105.9 | 88.9 | 97.4 | 162.6 | 316.8 | 437.9 | 482.0 | 533.7 |
| 82.5° | 40.7 | 42.4 | 55.9 | 84.7 | 66.9 | 73.7 | 122.0 | 263.4 | 351.5 | 383.7 | 399.0 |
| 85° | 18.6 | 19.5 | 33.0 | 50.0 | 39.8 | 35.6 | 65.2 | 168.6 | 232.9 | 242.3 | 255.8 |
| 87.5° | 0.0 | 0.0 | 3.4 | 3.4 | 6.8 | 4.2 | 7.6 | 21.2 | 35.6 | 35.6 | 43.2 |
| 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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CANDELA DISTRIBUTION (continued):

| | 73° | 74° | 75° | 76° | 77° | 78° | 79° | 80° | 81° | 82° | 83° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 |
| 2.5° | 1500.2 | 1499.3 | 1500.2 | 1500.2 | 1501.0 | 1497.6 | 1496.8 | 1495.9 | 1495.1 | 1495.9 | 1494.2 |
| 5° | 1523.0 | 1522.2 | 1522.2 | 1523.0 | 1522.2 | 1519.7 | 1518.8 | 1518.8 | 1516.3 | 1515.4 | 1515.4 |
| 7.5° | 1557.8 | 1556.1 | 1553.5 | 1555.2 | 1556.1 | 1555.2 | 1556.1 | 1553.5 | 1553.5 | 1551.0 | 1551.8 |
| 10° | 1601.0 | 1599.3 | 1598.4 | 1600.1 | 1601.0 | 1600.1 | 1601.0 | 1597.6 | 1596.7 | 1595.9 | 1594.2 |
| 12.5° | 1648.4 | 1645.0 | 1647.6 | 1647.6 | 1648.4 | 1651.8 | 1647.6 | 1649.3 | 1645.9 | 1645.9 | 1645.0 |
| 15° | 1689.9 | 1689.1 | 1690.8 | 1690.8 | 1689.9 | 1692.5 | 1691.6 | 1692.5 | 1688.2 | 1686.5 | 1690.8 |
| 17.5° | 1716.2 | 1713.6 | 1714.5 | 1713.6 | 1713.6 | 1713.6 | 1715.3 | 1715.3 | 1712.8 | 1711.9 | 1713.6 |
| 20° | 1723.0 | 1718.7 | 1717.9 | 1717.0 | 1715.3 | 1715.3 | 1716.2 | 1714.5 | 1712.8 | 1711.1 | 1712.8 |
| 22.5° | 1721.3 | 1716.2 | 1711.1 | 1708.6 | 1706.0 | 1702.6 | 1701.8 | 1700.1 | 1697.5 | 1697.5 | 1698.4 |
| 25° | 1727.2 | 1717.9 | 1710.2 | 1705.2 | 1698.4 | 1694.2 | 1690.8 | 1686.5 | 1682.3 | 1679.8 | 1680.6 |
| 27.5° | 1747.5 | 1737.4 | 1727.2 | 1717.0 | 1706.9 | 1698.4 | 1691.6 | 1684.0 | 1677.2 | 1672.1 | 1669.6 |
| 30° | 1785.6 | 1772.1 | 1760.2 | 1748.4 | 1735.7 | 1723.8 | 1712.8 | 1700.9 | 1688.2 | 1680.6 | 1673.8 |
| 32.5° | 1829.7 | 1820.4 | 1812.7 | 1799.2 | 1785.6 | 1771.2 | 1757.7 | 1747.5 | 1728.9 | 1714.5 | 1702.6 |
| 35° | 1896.6 | 1893.2 | 1889.0 | 1878.8 | 1863.6 | 1855.9 | 1844.9 | 1828.8 | 1806.8 | 1794.1 | 1776.3 |
| 37.5° | 1988.9 | 1989.8 | 1986.4 | 1982.2 | 1983.9 | 1969.5 | 1962.7 | 1961.0 | 1939.0 | 1930.5 | 1904.2 |
| 40° | 2102.4 | 2115.1 | 2126.2 | 2126.2 | 2134.6 | 2135.5 | 2133.8 | 2148.2 | 2132.1 | 2135.5 | 2107.5 |
| 42.5° | 2228.7 | 2259.2 | 2276.1 | 2288.8 | 2316.8 | 2329.5 | 2350.6 | 2382.0 | 2383.7 | 2399.8 | 2401.5 |
| 45° | 2377.7 | 2411.6 | 2443.8 | 2476.8 | 2514.1 | 2558.2 | 2602.2 | 2634.4 | 2685.2 | 2696.2 | 2732.7 |
| 47.5° | 2532.8 | 2581.9 | 2619.2 | 2661.5 | 2725.0 | 2781.8 | 2847.0 | 2913.1 | 2971.5 | 3013.0 | 3036.8 |
| 50° | 2703.9 | 2753.8 | 2808.1 | 2855.5 | 2923.3 | 3002.9 | 3093.5 | 3184.2 | 3259.5 | 3333.2 | 3392.5 |
| 52.5° | 2893.6 | 2948.7 | 2999.5 | 3061.3 | 3129.9 | 3224.8 | 3323.9 | 3448.4 | 3549.2 | 3650.0 | 3722.9 |
| 55° | 3075.7 | 3137.6 | 3184.2 | 3262.9 | 3334.1 | 3431.5 | 3554.3 | 3701.7 | 3841.5 | 3963.5 | 4062.6 |
| 57.5° | 3234.1 | 3295.1 | 3360.3 | 3428.1 | 3514.5 | 3611.9 | 3762.7 | 3930.4 | 4089.7 | 4249.8 | 4396.3 |
| 60° | 3382.4 | 3464.5 | 3535.7 | 3625.5 | 3711.9 | 3824.5 | 4004.1 | 4211.7 | 4429.4 | 4628.4 | 4775.0 |
| 62.5° | 3606.0 | 3711.0 | 3794.9 | 3905.9 | 4026.2 | 4159.1 | 4357.4 | 4586.1 | 4869.8 | 5126.5 | 5354.4 |
| 65° | 3918.6 | 4079.5 | 4215.0 | 4351.4 | 4498.0 | 4680.9 | 4895.2 | 5185.8 | 5499.2 | 5878.7 | 6179.4 |
| 67.5° | 4141.4 | 4343.0 | 4518.3 | 4689.4 | 4858.0 | 5060.4 | 5325.6 | 5666.1 | 6071.8 | 6470.8 | 6852.8 |
| 69° | 4051.6 | 4265.0 | 4459.9 | 4630.1 | 4808.0 | 5010.5 | 5268.8 | 5642.4 | 6055.7 | 6494.5 | 6873.2 |
| 70° | 3862.7 | 4093.1 | 4301.4 | 4464.1 | 4646.2 | 4847.0 | 5132.4 | 5489.1 | 5910.9 | 6364.9 | 6735.9 |
| 72.5° | 3106.2 | 3349.3 | 3555.2 | 3735.6 | 3926.2 | 4161.7 | 4415.8 | 4758.0 | 5225.6 | 5670.3 | 6000.7 |
| 75° | 2139.7 | 2366.7 | 2599.7 | 2734.4 | 2952.9 | 3120.6 | 3362.0 | 3712.7 | 4103.2 | 4430.2 | 4736.0 |
| 77.5° | 1210.5 | 1332.4 | 1508.6 | 1563.7 | 1720.4 | 1832.2 | 1960.1 | 2176.1 | 2379.4 | 2569.2 | 2624.2 |
| 80° | 550.6 | 514.2 | 532.0 | 504.9 | 534.5 | 515.9 | 494.7 | 506.6 | 504.0 | 542.1 | 506.6 |
| 82.5° | 396.4 | 342.2 | 284.6 | 245.7 | 216.0 | 183.0 | 155.9 | 139.8 | 138.1 | 144.8 | 142.3 |
| 85° | 253.3 | 231.3 | 181.3 | 145.7 | 111.8 | 86.4 | 72.0 | 65.2 | 65.2 | 69.5 | 68.6 |
| 87.5° | 44.0 | 38.1 | 23.7 | 20.3 | 17.8 | 11.9 | 7.6 | 7.6 | 6.8 | 8.5 | 11.0 |
| 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: P148957

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

CANDELA DISTRIBUTION (continued):

| | 84° | 85° | 86° | 87° | 88° | 89° | 90° | 91° | 92° | 93° | 94° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 |
| 2.5° | 1494.2 | 1493.4 | 1491.7 | 1490.9 | 1490.9 | 1489.2 | 1488.3 | 1490.0 | 1490.9 | 1491.7 | 1489.2 |
| 5° | 1515.4 | 1512.9 | 1512.0 | 1512.9 | 1508.6 | 1509.5 | 1508.6 | 1509.5 | 1509.5 | 1509.5 | 1507.8 |
| 7.5° | 1549.3 | 1546.8 | 1548.5 | 1546.8 | 1544.2 | 1543.4 | 1543.4 | 1540.8 | 1537.4 | 1536.6 | 1537.4 |
| 10° | 1595.9 | 1592.5 | 1593.3 | 1594.2 | 1591.7 | 1590.0 | 1587.4 | 1584.0 | 1584.0 | 1583.2 | 1581.5 |
| 12.5° | 1645.9 | 1644.2 | 1644.2 | 1645.0 | 1644.2 | 1640.8 | 1637.4 | 1635.7 | 1634.9 | 1634.9 | 1634.9 |
| 15° | 1689.1 | 1688.2 | 1689.1 | 1688.2 | 1688.2 | 1686.5 | 1684.8 | 1682.3 | 1681.4 | 1682.3 | 1683.1 |
| 17.5° | 1713.6 | 1711.1 | 1713.6 | 1714.5 | 1713.6 | 1713.6 | 1713.6 | 1711.9 | 1711.1 | 1711.1 | 1711.9 |
| 20° | 1715.3 | 1713.6 | 1715.3 | 1717.9 | 1717.9 | 1718.7 | 1720.4 | 1721.3 | 1720.4 | 1722.1 | 1723.0 |
| 22.5° | 1698.4 | 1698.4 | 1700.9 | 1703.5 | 1707.7 | 1709.4 | 1712.8 | 1714.5 | 1716.2 | 1718.7 | 1720.4 |
| 25° | 1681.4 | 1680.6 | 1683.1 | 1688.2 | 1691.6 | 1695.8 | 1700.1 | 1703.5 | 1706.9 | 1710.2 | 1713.6 |
| 27.5° | 1669.6 | 1668.7 | 1670.4 | 1674.7 | 1678.9 | 1684.0 | 1690.8 | 1695.8 | 1700.1 | 1704.3 | 1706.9 |
| 30° | 1670.4 | 1667.0 | 1666.2 | 1669.6 | 1673.8 | 1679.8 | 1686.5 | 1692.5 | 1698.4 | 1701.8 | 1704.3 |
| 32.5° | 1695.0 | 1686.5 | 1683.1 | 1682.3 | 1684.0 | 1688.2 | 1693.3 | 1699.2 | 1703.5 | 1706.9 | 1707.7 |
| 35° | 1758.5 | 1742.4 | 1739.0 | 1728.0 | 1729.7 | 1728.9 | 1728.9 | 1732.3 | 1735.7 | 1735.7 | 1729.7 |
| 37.5° | 1887.3 | 1864.4 | 1848.3 | 1837.3 | 1826.3 | 1825.4 | 1823.8 | 1822.1 | 1813.6 | 1808.5 | 1807.7 |
| 40° | 2088.0 | 2078.7 | 2048.2 | 2039.8 | 2021.1 | 2008.4 | 2011.8 | 2005.0 | 1984.7 | 1977.1 | 1973.7 |
| 42.5° | 2381.1 | 2386.2 | 2369.3 | 2329.5 | 2313.4 | 2288.8 | 2268.5 | 2265.1 | 2246.4 | 2231.2 | 2219.3 |
| 45° | 2725.0 | 2734.4 | 2721.7 | 2692.9 | 2664.1 | 2626.8 | 2602.2 | 2554.8 | 2536.1 | 2512.4 | 2496.3 |
| 47.5° | 3078.3 | 3103.7 | 3083.4 | 3057.9 | 3041.8 | 2983.4 | 2932.6 | 2877.5 | 2849.6 | 2815.7 | 2800.4 |
| 50° | 3429.0 | 3473.9 | 3462.0 | 3438.3 | 3420.5 | 3346.8 | 3297.7 | 3221.4 | 3205.3 | 3171.5 | 3152.8 |
| 52.5° | 3779.7 | 3823.7 | 3850.0 | 3827.9 | 3815.2 | 3755.9 | 3722.1 | 3661.1 | 3615.3 | 3594.1 | 3593.3 |
| 55° | 4133.7 | 4204.9 | 4246.4 | 4238.8 | 4217.6 | 4210.0 | 4176.1 | 4170.2 | 4134.6 | 4111.7 | 4081.2 |
| 57.5° | 4480.2 | 4555.6 | 4627.6 | 4669.9 | 4687.7 | 4681.8 | 4697.9 | 4696.2 | 4701.3 | 4698.7 | 4648.8 |
| 60° | 4920.7 | 5040.1 | 5145.1 | 5212.1 | 5275.6 | 5319.6 | 5330.6 | 5395.9 | 5377.2 | 5417.9 | 5340.0 |
| 62.5° | 5542.4 | 5697.4 | 5856.7 | 5927.0 | 6004.9 | 6148.1 | 6182.0 | 6259.0 | 6270.9 | 6281.1 | 6239.6 |
| 65° | 6409.0 | 6612.3 | 6852.8 | 6960.4 | 7082.4 | 7266.2 | 7382.3 | 7464.4 | 7461.9 | 7406.0 | 7352.6 |
| 67.5° | 7148.5 | 7389.0 | 7610.1 | 7797.3 | 7979.5 | 8122.6 | 8244.6 | 8355.6 | 8361.5 | 8326.8 | 8235.3 |
| 69° | 7212.0 | 7463.6 | 7704.2 | 7929.5 | 8109.9 | 8269.2 | 8392.8 | 8479.2 | 8497.9 | 8467.4 | 8382.7 |
| 70° | 7094.3 | 7348.4 | 7610.1 | 7826.1 | 8030.3 | 8198.8 | 8331.8 | 8414.8 | 8440.3 | 8408.9 | 8329.3 |
| 72.5° | 6370.0 | 6616.5 | 6812.2 | 7066.3 | 7356.9 | 7462.7 | 7667.7 | 7735.5 | 7798.2 | 7756.7 | 7709.2 |
| 75° | 4990.1 | 5222.2 | 5424.7 | 5556.8 | 5689.8 | 5951.6 | 6000.7 | 6127.7 | 6170.9 | 6130.3 | 6182.8 |
| 77.5° | 2599.7 | 2756.4 | 2824.2 | 2718.3 | 2734.4 | 2941.0 | 2824.2 | 2961.4 | 3040.2 | 3063.0 | 3096.1 |
| 80° | 497.2 | 522.6 | 542.1 | 535.4 | 542.1 | 557.4 | 518.4 | 497.2 | 525.2 | 519.3 | 519.3 |
| 82.5° | 146.5 | 144.0 | 144.0 | 151.6 | 150.8 | 154.2 | 154.2 | 148.2 | 152.5 | 152.5 | 153.3 |
| 85° | 66.9 | 63.5 | 62.7 | 63.5 | 62.7 | 62.7 | 65.2 | 65.2 | 70.3 | 66.1 | 66.9 |
| 87.5° | 8.5 | 7.6 | 8.5 | 8.5 | 6.8 | 6.8 | 7.6 | 8.5 | 8.5 | 7.6 | 7.6 |
| 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: P148957

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

CANDELA DISTRIBUTION (continued):

| | 95° | 96° | 97° | 98° | 99° | 100° | 105° | 115° | 125° | 135° | 145° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 |
| 2.5° | 1488.3 | 1487.5 | 1487.5 | 1487.5 | 1486.6 | 1485.8 | 1484.9 | 1482.4 | 1479.8 | 1479.0 | 1474.8 |
| 5° | 1504.4 | 1505.3 | 1503.6 | 1501.9 | 1501.9 | 1501.9 | 1499.3 | 1492.5 | 1487.5 | 1484.9 | 1479.0 |
| 7.5° | 1538.3 | 1536.6 | 1534.1 | 1533.2 | 1531.5 | 1532.4 | 1527.3 | 1518.8 | 1509.5 | 1503.6 | 1494.2 |
| 10° | 1583.2 | 1581.5 | 1579.8 | 1578.1 | 1575.6 | 1575.6 | 1569.6 | 1556.9 | 1542.5 | 1532.4 | 1515.4 |
| 12.5° | 1635.7 | 1634.0 | 1632.3 | 1631.5 | 1627.2 | 1626.4 | 1617.9 | 1602.7 | 1584.0 | 1564.5 | 1540.0 |
| 15° | 1684.0 | 1681.4 | 1680.6 | 1678.1 | 1675.5 | 1674.7 | 1667.0 | 1646.7 | 1623.8 | 1601.8 | 1569.6 |
| 17.5° | 1714.5 | 1712.8 | 1710.2 | 1708.6 | 1707.7 | 1706.9 | 1695.8 | 1678.9 | 1661.1 | 1639.1 | 1600.1 |
| 20° | 1724.6 | 1725.5 | 1723.8 | 1722.1 | 1719.6 | 1717.9 | 1707.7 | 1691.6 | 1688.2 | 1676.4 | 1636.6 |
| 22.5° | 1723.0 | 1723.0 | 1722.1 | 1718.7 | 1717.0 | 1712.8 | 1698.4 | 1690.8 | 1709.4 | 1714.5 | 1663.7 |
| 25° | 1716.2 | 1715.3 | 1712.8 | 1710.2 | 1705.2 | 1699.2 | 1677.2 | 1681.4 | 1734.0 | 1743.3 | 1669.6 |
| 27.5° | 1708.6 | 1707.7 | 1703.5 | 1697.5 | 1689.9 | 1681.4 | 1653.5 | 1681.4 | 1756.8 | 1749.2 | 1645.0 |
| 30° | 1704.3 | 1700.9 | 1695.0 | 1686.5 | 1676.4 | 1667.0 | 1636.6 | 1703.5 | 1772.9 | 1728.9 | 1577.3 |
| 32.5° | 1705.2 | 1699.2 | 1690.8 | 1679.8 | 1667.9 | 1656.9 | 1635.7 | 1742.4 | 1778.9 | 1679.8 | 1481.5 |
| 35° | 1725.5 | 1716.2 | 1705.2 | 1694.2 | 1682.3 | 1672.1 | 1673.8 | 1796.6 | 1778.0 | 1606.1 | 1389.2 |
| 37.5° | 1799.2 | 1783.1 | 1775.5 | 1763.6 | 1746.7 | 1738.2 | 1772.1 | 1856.8 | 1766.2 | 1516.3 | 1307.9 |
| 40° | 1961.8 | 1948.3 | 1937.3 | 1906.8 | 1912.7 | 1905.9 | 1938.1 | 1939.0 | 1750.9 | 1440.9 | 1240.1 |
| 42.5° | 2199.0 | 2199.0 | 2175.3 | 2171.1 | 2155.0 | 2162.6 | 2177.0 | 2035.5 | 1735.7 | 1396.0 | 1173.2 |
| 45° | 2478.5 | 2499.7 | 2490.4 | 2487.9 | 2500.6 | 2515.8 | 2449.7 | 2149.9 | 1736.5 | 1357.0 | 1095.3 |
| 47.5° | 2810.6 | 2828.4 | 2837.7 | 2853.0 | 2869.0 | 2859.7 | 2723.3 | 2270.2 | 1751.8 | 1301.1 | 995.3 |
| 50° | 3163.8 | 3207.0 | 3220.6 | 3240.1 | 3254.5 | 3257.0 | 2982.6 | 2393.8 | 1767.8 | 1198.6 | 886.9 |
| 52.5° | 3601.8 | 3642.4 | 3656.8 | 3670.4 | 3659.4 | 3650.0 | 3236.7 | 2540.4 | 1755.1 | 1076.6 | 794.6 |
| 55° | 4116.8 | 4124.4 | 4121.9 | 4104.9 | 4095.6 | 4044.8 | 3472.2 | 2696.2 | 1656.0 | 964.0 | 706.5 |
| 57.5° | 4653.0 | 4656.4 | 4625.9 | 4566.6 | 4498.0 | 4449.7 | 3698.3 | 2825.0 | 1446.0 | 873.3 | 619.2 |
| 60° | 5343.4 | 5273.9 | 5222.2 | 5131.6 | 5019.8 | 4916.4 | 3940.6 | 2897.0 | 1245.2 | 786.1 | 521.0 |
| 62.5° | 6176.9 | 6038.0 | 5926.1 | 5834.7 | 5669.5 | 5487.4 | 4249.8 | 2906.3 | 1123.2 | 703.1 | 409.1 |
| 65° | 7256.0 | 7109.5 | 6918.9 | 6762.2 | 6583.5 | 6337.8 | 4748.7 | 2839.4 | 1063.1 | 606.5 | 299.0 |
| 67.5° | 8105.7 | 7957.4 | 7744.0 | 7568.6 | 7338.2 | 7051.9 | 5162.1 | 2722.5 | 1048.7 | 519.3 | 235.5 |
| 69° | 8253.9 | 8092.1 | 7899.8 | 7680.4 | 7435.6 | 7129.8 | 5178.2 | 2587.0 | 1026.7 | 486.2 | 216.0 |
| 70° | 8199.7 | 8031.1 | 7845.6 | 7612.7 | 7338.2 | 7024.0 | 5056.2 | 2436.2 | 982.6 | 467.6 | 209.2 |
| 72.5° | 7591.5 | 7334.8 | 7148.5 | 6949.4 | 6615.7 | 6297.2 | 4353.1 | 1843.2 | 764.9 | 393.9 | 195.7 |
| 75° | 6077.8 | 5858.4 | 5648.3 | 5549.2 | 5272.2 | 5002.0 | 3268.0 | 1170.7 | 499.8 | 244.8 | 153.3 |
| 77.5° | 3098.6 | 3058.8 | 3118.9 | 3074.0 | 2874.1 | 2874.1 | 2016.9 | 621.8 | 293.9 | 147.4 | 116.9 |
| 80° | 556.5 | 580.2 | 569.2 | 593.0 | 551.4 | 612.4 | 709.0 | 417.6 | 208.4 | 112.7 | 95.7 |
| 82.5° | 155.9 | 157.6 | 155.9 | 156.7 | 161.8 | 170.3 | 368.5 | 359.2 | 160.9 | 84.7 | 74.5 |
| 85° | 72.8 | 73.7 | 75.4 | 75.4 | 82.2 | 83.9 | 247.3 | 257.5 | 94.0 | 46.6 | 50.0 |
| 87.5° | 8.5 | 11.0 | 11.0 | 10.2 | 11.9 | 11.9 | 45.7 | 51.7 | 12.7 | 9.3 | 15.2 |
| 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: P148957

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

CANDELA DISTRIBUTION (continued):

| | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 1487.5 | 1487.5 | 1487.5 | 1487.5 |
| 2.5° | 1471.4 | 1468.0 | 1464.6 | 1467.1 |
| 5° | 1476.5 | 1471.4 | 1467.1 | 1469.7 |
| 7.5° | 1490.0 | 1481.5 | 1480.7 | 1480.7 |
| 10° | 1506.9 | 1495.1 | 1491.7 | 1491.7 |
| 12.5° | 1524.7 | 1508.6 | 1502.7 | 1502.7 |
| 15° | 1543.4 | 1520.5 | 1512.0 | 1509.5 |
| 17.5° | 1564.5 | 1532.4 | 1517.1 | 1517.1 |
| 20° | 1584.9 | 1534.1 | 1511.2 | 1510.3 |
| 22.5° | 1588.3 | 1514.6 | 1481.5 | 1479.8 |
| 25° | 1562.9 | 1468.8 | 1425.6 | 1417.2 |
| 27.5° | 1502.7 | 1397.7 | 1351.9 | 1350.2 |
| 30° | 1412.1 | 1304.5 | 1257.9 | 1252.8 |
| 32.5° | 1323.1 | 1208.8 | 1165.6 | 1165.6 |
| 35° | 1233.3 | 1121.5 | 1065.6 | 1059.7 |
| 37.5° | 1150.3 | 1029.2 | 979.2 | 978.4 |
| 40° | 1074.1 | 948.7 | 900.4 | 892.8 |
| 42.5° | 997.9 | 864.0 | 809.0 | 807.3 |
| 45° | 907.2 | 771.7 | 724.2 | 720.0 |
| 47.5° | 810.7 | 688.7 | 638.7 | 637.8 |
| 50° | 723.4 | 611.6 | 561.6 | 561.6 |
| 52.5° | 643.8 | 536.2 | 486.2 | 481.1 |
| 55° | 554.0 | 450.6 | 399.8 | 393.9 |
| 57.5° | 456.6 | 354.9 | 309.2 | 296.5 |
| 60° | 353.2 | 258.4 | 211.8 | 205.0 |
| 62.5° | 257.5 | 188.9 | 154.2 | 149.1 |
| 65° | 194.0 | 160.9 | 132.1 | 127.1 |
| 67.5° | 166.9 | 144.8 | 120.3 | 115.2 |
| 69° | 155.0 | 137.2 | 115.2 | 110.1 |
| 70° | 149.9 | 132.1 | 111.0 | 106.7 |
| 72.5° | 138.1 | 121.1 | 101.6 | 100.0 |
| 75° | 126.2 | 110.1 | 91.5 | 88.9 |
| 77.5° | 122.0 | 95.7 | 78.8 | 77.1 |
| 80° | 124.5 | 77.9 | 64.4 | 62.7 |
| 82.5° | 101.6 | 62.7 | 50.0 | 47.4 |
| 85° | 63.5 | 42.4 | 26.3 | 26.3 |
| 87.5° | 16.1 | 13.6 | 7.6 | 7.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)