

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: P150108

Luminaire Tested: **TLM-E05-LED-E1-SL2-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P150108
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-E05-LED-E1-SL2-8030
Description: TALON MEDIUM LED SITE LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (105) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

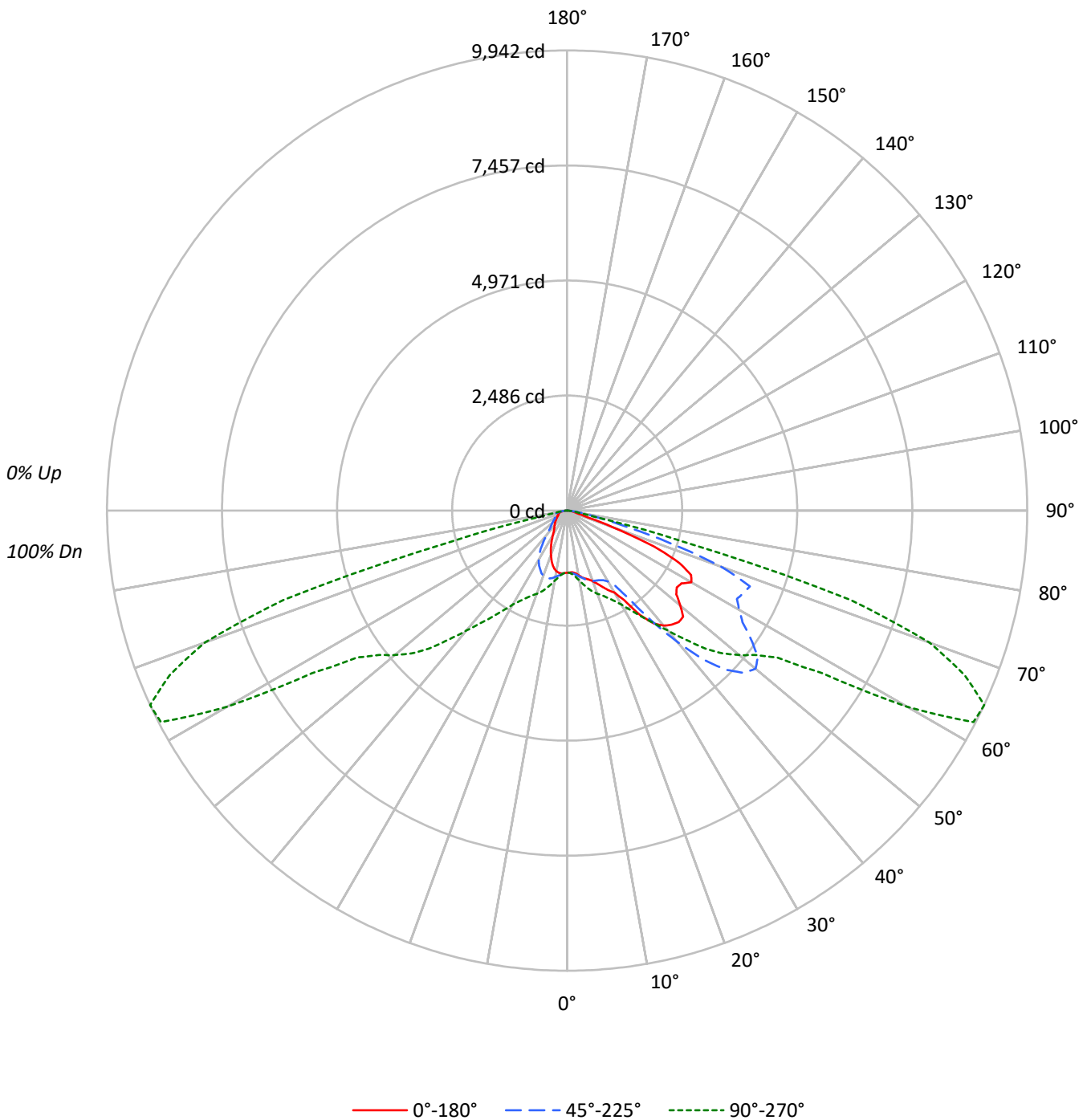
Lumens per Lamp: N/A
Luminaire Lumens: 12892.4 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Spacing Criteria (0/90/45): 1.99 / 4.45 / 2.31
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 127.3
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: P150108
CATALOG NUMBER: TLM-E05-LED-E1-SL2-8030

Luminous Intensity Polar Plot





TEST NUMBER: P150108

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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 | 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° | 17403 | 17403 | 17403 |
| 5° | 17414 | 18056 | 17763 |
| 10° | 18635 | 20247 | 17542 |
| 15° | 20416 | 23380 | 16317 |
| 20° | 22384 | 26382 | 14093 |
| 25° | 26106 | 29769 | 11655 |
| 30° | 30628 | 35073 | 9205 |
| 35° | 43670 | 44227 | 7683 |
| 40° | 54937 | 57224 | 7144 |
| 45° | 62509 | 77369 | 6784 |
| 50° | 64394 | 97968 | 6414 |
| 55° | 65327 | 124927 | 6234 |
| 60° | 80377 | 219784 | 6202 |
| 65° | 82101 | 305089 | 6518 |
| 70° | 39362 | 315808 | 7413 |
| 75° | 10853 | 130042 | 9024 |
| 80° | 9141 | 18178 | 8932 |
| 85° | 6071 | 11309 | 9627 |



TEST NUMBER: P150108

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 133.4 | 1.0 |
| 10°-20° | 436.2 | 3.4 |
| 20°-30° | 753.4 | 5.8 |
| 30°-40° | 1247.1 | 9.7 |
| 40°-50° | 2115.0 | 16.4 |
| 50°-60° | 2810.2 | 21.8 |
| 60°-70° | 3630.1 | 28.2 |
| 70°-80° | 1522.5 | 11.8 |
| 80°-90° | 244.6 | 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° | 1323.0 | 10.3 |
| 0°-40° | 2570.1 | 19.9 |
| 0°-60° | 7495.3 | 58.1 |
| 0°-90° | 12892.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 12892.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1342 | 1342 | 1342 | 1342 | 1342 | |
| 5° | 1338 | 1360 | 1387 | 1378 | 1364 | 130 |
| 15° | 1521 | 1539 | 1741 | 1518 | 1215 | 434 |
| 25° | 1824 | 1657 | 2080 | 1391 | 814 | 852 |
| 35° | 2758 | 2301 | 2794 | 985 | 485 | 1707 |
| 45° | 3408 | 4864 | 4218 | 505 | 370 | 2588 |
| 55° | 2889 | 4847 | 5525 | 343 | 276 | 2676 |
| 65° | 2676 | 4203 | 9942 | 273 | 212 | 2418 |
| 75° | 217 | 1208 | 2595 | 284 | 180 | 349 |
| 85° | 41 | 101 | 76 | 87 | 65 | 54 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P150108

CATALOG NUMBER: TLM-E05-LED-E1-SL2-8030

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 61° | 62° | 64° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| 0° | 1341.9 | 1341.9 | 1341.9 | 1341.9 | 1341.9 | 1341.9 | 1341.9 | 1341.9 | 1341.9 | 1341.9 | 1341.9 |
| 2.5° | 1337.7 | 1341.9 | 1339.1 | 1341.9 | 1344.8 | 1346.2 | 1349.0 | 1347.6 | 1347.6 | 1349.0 | 1346.2 |
| 5° | 1337.7 | 1337.7 | 1341.9 | 1349.0 | 1351.8 | 1360.2 | 1370.1 | 1368.7 | 1370.1 | 1368.7 | 1371.5 |
| 7.5° | 1365.9 | 1364.5 | 1368.7 | 1377.1 | 1379.9 | 1392.6 | 1409.5 | 1412.3 | 1415.1 | 1415.1 | 1419.3 |
| 10° | 1415.1 | 1413.7 | 1417.9 | 1422.1 | 1426.3 | 1436.2 | 1460.1 | 1470.0 | 1471.4 | 1472.8 | 1478.4 |
| 12.5° | 1477.0 | 1475.6 | 1470.0 | 1470.0 | 1468.5 | 1486.8 | 1519.2 | 1537.5 | 1540.3 | 1545.9 | 1550.1 |
| 15° | 1520.6 | 1516.4 | 1507.9 | 1502.3 | 1509.3 | 1538.9 | 1586.7 | 1607.8 | 1610.6 | 1614.8 | 1626.1 |
| 17.5° | 1562.8 | 1558.6 | 1540.3 | 1526.2 | 1536.1 | 1583.9 | 1648.6 | 1671.1 | 1676.7 | 1680.9 | 1693.6 |
| 20° | 1621.9 | 1619.1 | 1592.3 | 1558.6 | 1555.8 | 1617.6 | 1696.4 | 1726.0 | 1730.2 | 1735.8 | 1748.5 |
| 22.5° | 1711.9 | 1699.2 | 1668.3 | 1605.0 | 1574.0 | 1637.3 | 1730.2 | 1771.0 | 1776.6 | 1782.2 | 1799.1 |
| 25° | 1824.4 | 1818.8 | 1765.3 | 1668.3 | 1603.6 | 1657.0 | 1766.8 | 1817.4 | 1825.8 | 1832.9 | 1855.4 |
| 27.5° | 1941.2 | 1932.7 | 1875.1 | 1748.5 | 1655.6 | 1696.4 | 1824.4 | 1882.1 | 1893.4 | 1904.6 | 1925.7 |
| 30° | 2045.3 | 2042.5 | 1994.6 | 1856.8 | 1740.0 | 1771.0 | 1917.3 | 1987.6 | 2000.3 | 2014.3 | 2034.0 |
| 32.5° | 2290.0 | 2291.4 | 2242.2 | 2101.5 | 1944.0 | 1906.0 | 2050.9 | 2156.4 | 2162.0 | 2178.9 | 2214.1 |
| 35° | 2758.4 | 2764.1 | 2745.8 | 2634.7 | 2457.4 | 2301.3 | 2315.3 | 2419.4 | 2425.1 | 2439.1 | 2472.9 |
| 37.5° | 3072.1 | 3083.4 | 3139.6 | 3174.8 | 3084.8 | 3013.0 | 2834.4 | 2793.6 | 2797.8 | 2789.4 | 2782.4 |
| 40° | 3245.1 | 3262.0 | 3409.7 | 3592.6 | 3691.1 | 3692.5 | 3615.1 | 3435.0 | 3366.1 | 3346.4 | 3262.0 |
| 42.5° | 3343.6 | 3371.7 | 3581.3 | 3893.6 | 4176.3 | 4370.5 | 4418.3 | 4218.5 | 4167.9 | 4077.9 | 3916.1 |
| 45° | 3408.3 | 3442.1 | 3689.6 | 4117.3 | 4533.6 | 4864.2 | 5113.2 | 5024.6 | 4990.8 | 4935.9 | 4786.8 |
| 47.5° | 3397.1 | 3423.8 | 3681.2 | 4193.2 | 4720.7 | 5190.5 | 5632.2 | 5723.7 | 5682.9 | 5668.8 | 5567.5 |
| 50° | 3191.7 | 3215.6 | 3477.2 | 4004.7 | 4618.0 | 5314.3 | 5961.4 | 6220.2 | 6220.2 | 6246.9 | 6216.0 |
| 52.5° | 2972.3 | 2991.9 | 3229.7 | 3703.7 | 4286.1 | 5193.4 | 6144.3 | 6573.3 | 6629.5 | 6676.0 | 6749.1 |
| 55° | 2889.3 | 2913.2 | 3093.2 | 3498.3 | 4003.3 | 4847.3 | 6206.1 | 6837.7 | 6941.8 | 7020.6 | 7186.6 |
| 57.5° | 2928.6 | 2952.6 | 3080.6 | 3387.2 | 3837.3 | 4494.3 | 6209.0 | 7193.6 | 7394.8 | 7556.5 | 7892.7 |
| 60° | 3098.9 | 3121.4 | 3228.3 | 3489.9 | 3793.7 | 4290.3 | 6089.4 | 7760.5 | 8081.2 | 8385.0 | 8944.9 |
| 62.5° | 3020.1 | 3048.2 | 3204.4 | 3660.1 | 4118.7 | 4135.6 | 5657.6 | 8199.4 | 8715.6 | 9164.3 | 10054.7 |
| 65° | 2675.5 | 2705.0 | 2827.4 | 3253.6 | 4138.4 | 4203.1 | 5017.5 | 8207.8 | 8849.2 | 9455.5 | 10416.3 |
| 67.5° | 2031.2 | 2042.5 | 2139.5 | 2481.3 | 3309.9 | 4277.6 | 4359.2 | 7235.8 | 7846.3 | 8522.9 | 9514.6 |
| 70° | 1038.1 | 1057.8 | 1085.9 | 1370.1 | 2131.1 | 3534.9 | 3745.9 | 5332.6 | 6110.5 | 6809.6 | 8001.0 |
| 72.5° | 360.1 | 367.1 | 395.3 | 523.3 | 1038.1 | 2319.6 | 3278.9 | 3654.5 | 4124.3 | 4778.4 | 6158.3 |
| 75° | 216.6 | 216.6 | 226.5 | 264.5 | 474.0 | 1208.3 | 2917.4 | 2984.9 | 3048.2 | 3267.7 | 4170.7 |
| 77.5° | 171.6 | 174.4 | 174.4 | 181.5 | 263.0 | 620.3 | 2215.5 | 2775.3 | 2783.8 | 2804.9 | 2956.8 |
| 80° | 122.4 | 128.0 | 139.3 | 144.9 | 170.2 | 340.4 | 1243.5 | 2436.3 | 2602.3 | 2682.5 | 2793.6 |
| 82.5° | 91.4 | 97.1 | 118.2 | 125.2 | 132.2 | 189.9 | 558.4 | 1680.9 | 1983.4 | 2143.7 | 2534.8 |
| 85° | 40.8 | 47.8 | 80.2 | 88.6 | 92.8 | 101.3 | 261.6 | 478.3 | 550.0 | 617.5 | 814.5 |
| 87.5° | 7.0 | 7.0 | 12.7 | 18.3 | 26.7 | 25.3 | 57.7 | 81.6 | 83.0 | 97.1 | 108.3 |
| 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: P150108

CATALOG NUMBER: TLM-E05-LED-E1-SL2-8030

CANDELA DISTRIBUTION (continued):

| | 65° | 66° | 67° | 68° | 69° | 70° | 71° | 72° | 73° | 74° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 1341.9 | 1341.9 | 1341.9 | 1341.9 | 1341.9 | 1341.9 | 1341.9 | 1341.9 | 1341.9 | 1341.9 | 1341.9 |
| 2.5° | 1346.2 | 1346.2 | 1346.2 | 1344.8 | 1346.2 | 1346.2 | 1346.2 | 1346.2 | 1347.6 | 1347.6 | 1347.6 |
| 5° | 1375.7 | 1372.9 | 1374.3 | 1374.3 | 1374.3 | 1372.9 | 1375.7 | 1374.3 | 1375.7 | 1379.9 | 1378.5 |
| 7.5° | 1419.3 | 1422.1 | 1423.5 | 1424.9 | 1424.9 | 1424.9 | 1426.3 | 1429.2 | 1429.2 | 1433.4 | 1432.0 |
| 10° | 1484.0 | 1482.6 | 1484.0 | 1488.2 | 1492.5 | 1493.9 | 1498.1 | 1496.7 | 1499.5 | 1505.1 | 1510.7 |
| 12.5° | 1552.9 | 1555.8 | 1560.0 | 1564.2 | 1571.2 | 1572.6 | 1576.9 | 1578.3 | 1586.7 | 1586.7 | 1592.3 |
| 15° | 1630.3 | 1631.7 | 1640.2 | 1641.6 | 1650.0 | 1652.8 | 1659.8 | 1662.7 | 1672.5 | 1673.9 | 1679.5 |
| 17.5° | 1700.6 | 1703.5 | 1707.7 | 1711.9 | 1721.7 | 1726.0 | 1731.6 | 1737.2 | 1745.7 | 1748.5 | 1758.3 |
| 20° | 1756.9 | 1762.5 | 1763.9 | 1772.4 | 1780.8 | 1786.4 | 1792.1 | 1797.7 | 1806.1 | 1810.4 | 1820.2 |
| 22.5° | 1807.5 | 1813.2 | 1817.4 | 1824.4 | 1830.1 | 1838.5 | 1841.3 | 1851.2 | 1859.6 | 1866.6 | 1875.1 |
| 25° | 1862.4 | 1870.8 | 1875.1 | 1887.7 | 1891.9 | 1900.4 | 1907.4 | 1917.3 | 1928.5 | 1937.0 | 1948.2 |
| 27.5° | 1939.8 | 1952.4 | 1958.1 | 1972.1 | 1982.0 | 1986.2 | 1997.4 | 2011.5 | 2021.4 | 2031.2 | 2042.5 |
| 30° | 2046.7 | 2070.6 | 2074.8 | 2084.7 | 2102.9 | 2105.8 | 2119.8 | 2131.1 | 2146.6 | 2156.4 | 2166.2 |
| 32.5° | 2212.7 | 2242.2 | 2245.0 | 2256.3 | 2271.7 | 2277.4 | 2288.6 | 2301.3 | 2325.2 | 2329.4 | 2344.9 |
| 35° | 2467.3 | 2479.9 | 2491.2 | 2495.4 | 2508.1 | 2515.1 | 2523.5 | 2537.6 | 2561.5 | 2558.7 | 2575.6 |
| 37.5° | 2772.5 | 2776.7 | 2778.1 | 2764.1 | 2766.9 | 2754.2 | 2769.7 | 2772.5 | 2781.0 | 2788.0 | 2804.9 |
| 40° | 3208.6 | 3165.0 | 3159.3 | 3125.6 | 3091.8 | 3073.5 | 3066.5 | 3038.4 | 3045.4 | 3048.2 | 3062.3 |
| 42.5° | 3845.8 | 3761.4 | 3691.1 | 3643.2 | 3560.2 | 3519.4 | 3464.6 | 3421.0 | 3387.2 | 3399.9 | 3405.5 |
| 45° | 4653.2 | 4532.2 | 4419.7 | 4273.4 | 4165.1 | 4087.7 | 3990.7 | 3903.5 | 3864.1 | 3845.8 | 3868.3 |
| 47.5° | 5459.2 | 5352.3 | 5220.1 | 5069.6 | 4898.0 | 4770.0 | 4608.2 | 4466.1 | 4367.7 | 4331.1 | 4350.8 |
| 50° | 6155.5 | 6057.0 | 5957.2 | 5868.6 | 5668.8 | 5529.5 | 5308.7 | 5124.4 | 4969.7 | 4890.9 | 4869.8 |
| 52.5° | 6733.6 | 6681.6 | 6628.1 | 6553.6 | 6393.2 | 6254.0 | 6078.1 | 5896.7 | 5691.3 | 5531.0 | 5476.1 |
| 55° | 7249.9 | 7280.8 | 7254.1 | 7255.5 | 7192.2 | 7103.6 | 6954.5 | 6819.4 | 6676.0 | 6494.5 | 6418.6 |
| 57.5° | 8002.4 | 8185.3 | 8221.9 | 8313.3 | 8358.3 | 8406.1 | 8448.3 | 8368.2 | 8331.6 | 8196.6 | 8198.0 |
| 60° | 9188.2 | 9455.5 | 9687.6 | 9898.6 | 10071.6 | 10240.4 | 10417.7 | 10496.4 | 10583.6 | 10624.4 | 10763.7 |
| 62.5° | 10450.0 | 10704.6 | 11050.7 | 11333.4 | 11492.3 | 11711.8 | 11904.5 | 12029.7 | 12183.0 | 12346.2 | 12558.6 |
| 65° | 10762.3 | 11068.9 | 11287.0 | 11475.5 | 11633.0 | 11749.8 | 11855.3 | 12004.4 | 12132.4 | 12391.2 | 12641.6 |
| 67.5° | 9961.9 | 10206.7 | 10406.4 | 10592.1 | 10714.5 | 10812.9 | 10907.2 | 11005.6 | 11225.1 | 11460.0 | 11711.8 |
| 70° | 8551.0 | 8846.4 | 9177.0 | 9417.5 | 9478.0 | 9562.4 | 9652.4 | 9780.4 | 9890.2 | 10136.3 | 10327.6 |
| 72.5° | 6870.1 | 7294.9 | 7574.8 | 7908.2 | 7979.9 | 8107.9 | 8158.6 | 8258.5 | 8278.1 | 8411.8 | 8462.4 |
| 75° | 4788.2 | 5274.9 | 5556.3 | 5801.0 | 5848.9 | 5778.5 | 5806.7 | 5453.6 | 5363.6 | 5290.4 | 5231.3 |
| 77.5° | 3160.7 | 3291.6 | 3336.6 | 3297.2 | 3108.7 | 2961.0 | 2803.5 | 2648.7 | 2665.6 | 2540.4 | 2321.0 |
| 80° | 2810.5 | 2840.0 | 2799.2 | 2759.9 | 2651.5 | 2496.8 | 2354.7 | 2209.8 | 2138.1 | 2062.2 | 1949.6 |
| 82.5° | 2734.5 | 2848.5 | 2861.1 | 2813.3 | 2727.5 | 2558.7 | 2387.1 | 2171.9 | 1989.0 | 1820.2 | 1648.6 |
| 85° | 914.3 | 1112.7 | 1201.3 | 1284.3 | 1309.6 | 1339.1 | 1237.9 | 1100.0 | 934.0 | 822.9 | 644.2 |
| 87.5° | 116.8 | 144.9 | 167.4 | 143.5 | 167.4 | 196.9 | 142.1 | 159.0 | 160.4 | 99.9 | 74.6 |
| 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: P150108

CATALOG NUMBER: TLM-E05-LED-E1-SL2-8030

CANDELA DISTRIBUTION (continued):

| | 76° | 77° | 78° | 79° | 80° | 81° | 82° | 83° | 84° | 85° | 86° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 1341.9 | 1341.9 | 1341.9 | 1341.9 | 1341.9 | 1341.9 | 1341.9 | 1341.9 | 1341.9 | 1341.9 | 1341.9 |
| 2.5° | 1349.0 | 1347.6 | 1347.6 | 1347.6 | 1346.2 | 1347.6 | 1347.6 | 1347.6 | 1347.6 | 1347.6 | 1346.2 |
| 5° | 1379.9 | 1379.9 | 1384.1 | 1385.6 | 1382.7 | 1381.3 | 1382.7 | 1384.1 | 1384.1 | 1382.7 | 1384.1 |
| 7.5° | 1437.6 | 1439.0 | 1441.8 | 1446.0 | 1443.2 | 1444.6 | 1446.0 | 1444.6 | 1448.9 | 1450.3 | 1448.9 |
| 10° | 1510.7 | 1513.6 | 1520.6 | 1522.0 | 1520.6 | 1526.2 | 1527.6 | 1524.8 | 1527.6 | 1527.6 | 1533.3 |
| 12.5° | 1595.1 | 1598.0 | 1606.4 | 1609.2 | 1612.0 | 1613.4 | 1617.6 | 1619.1 | 1623.3 | 1626.1 | 1630.3 |
| 15° | 1686.6 | 1689.4 | 1695.0 | 1704.9 | 1707.7 | 1710.5 | 1713.3 | 1721.7 | 1723.1 | 1728.8 | 1733.0 |
| 17.5° | 1763.9 | 1768.2 | 1776.6 | 1783.6 | 1787.9 | 1794.9 | 1797.7 | 1807.5 | 1810.4 | 1818.8 | 1825.8 |
| 20° | 1825.8 | 1832.9 | 1839.9 | 1848.3 | 1855.4 | 1863.8 | 1866.6 | 1876.5 | 1882.1 | 1886.3 | 1894.8 |
| 22.5° | 1882.1 | 1890.5 | 1900.4 | 1910.2 | 1915.9 | 1927.1 | 1931.3 | 1935.6 | 1948.2 | 1953.8 | 1962.3 |
| 25° | 1955.2 | 1963.7 | 1974.9 | 1987.6 | 1993.2 | 2007.3 | 2011.5 | 2018.5 | 2032.6 | 2038.2 | 2050.9 |
| 27.5° | 2055.1 | 2066.4 | 2074.8 | 2087.5 | 2094.5 | 2104.4 | 2114.2 | 2122.6 | 2135.3 | 2143.7 | 2157.8 |
| 30° | 2180.3 | 2188.7 | 2202.8 | 2212.7 | 2223.9 | 2238.0 | 2249.2 | 2257.7 | 2264.7 | 2277.4 | 2292.8 |
| 32.5° | 2364.6 | 2366.0 | 2370.2 | 2394.1 | 2405.4 | 2416.6 | 2432.1 | 2439.1 | 2450.4 | 2463.0 | 2479.9 |
| 35° | 2593.9 | 2606.5 | 2616.4 | 2627.6 | 2640.3 | 2652.9 | 2658.6 | 2679.7 | 2689.5 | 2706.4 | 2723.3 |
| 37.5° | 2821.7 | 2823.1 | 2845.7 | 2852.7 | 2863.9 | 2876.6 | 2896.3 | 2917.4 | 2942.7 | 2959.6 | 2986.3 |
| 40° | 3066.5 | 3077.8 | 3105.9 | 3120.0 | 3134.0 | 3165.0 | 3180.4 | 3214.2 | 3256.4 | 3280.3 | 3325.3 |
| 42.5° | 3421.0 | 3437.9 | 3488.5 | 3511.0 | 3544.8 | 3595.4 | 3627.8 | 3674.2 | 3691.1 | 3748.7 | 3769.8 |
| 45° | 3885.2 | 3937.2 | 4010.4 | 4058.2 | 4118.7 | 4173.5 | 4201.7 | 4222.8 | 4248.1 | 4293.1 | 4287.5 |
| 47.5° | 4387.3 | 4454.9 | 4536.5 | 4634.9 | 4674.3 | 4739.0 | 4775.6 | 4816.4 | 4793.9 | 4782.6 | 4771.4 |
| 50° | 4902.2 | 4981.0 | 5089.3 | 5177.9 | 5238.4 | 5277.8 | 5308.7 | 5303.1 | 5255.3 | 5229.9 | 5159.6 |
| 52.5° | 5474.7 | 5521.1 | 5623.8 | 5699.8 | 5736.3 | 5744.8 | 5737.7 | 5695.5 | 5650.5 | 5570.3 | 5487.3 |
| 55° | 6352.4 | 6331.3 | 6372.1 | 6407.3 | 6396.0 | 6435.4 | 6334.2 | 6294.8 | 6183.6 | 6079.5 | 5968.4 |
| 57.5° | 8136.1 | 8164.2 | 7936.3 | 7833.6 | 7815.4 | 7851.9 | 7673.3 | 7650.8 | 7382.1 | 7348.3 | 7161.3 |
| 60° | 10744.0 | 10881.9 | 10703.2 | 10603.3 | 10333.3 | 10244.6 | 10044.9 | 9961.9 | 9704.5 | 9496.3 | 9233.3 |
| 62.5° | 12704.9 | 12830.1 | 12904.6 | 12762.5 | 12605.0 | 12372.9 | 12070.5 | 11735.7 | 11462.8 | 11143.5 | 10865.0 |
| 65° | 12882.1 | 13135.3 | 13306.9 | 13373.0 | 13261.9 | 13007.3 | 12634.5 | 12212.5 | 11794.8 | 11393.9 | 11042.2 |
| 67.5° | 12053.6 | 12280.1 | 12545.9 | 12783.6 | 12797.7 | 12631.7 | 12313.8 | 11884.8 | 11402.3 | 10907.2 | 10495.0 |
| 70° | 10630.1 | 10914.2 | 11146.3 | 11396.7 | 11571.1 | 11475.5 | 11316.5 | 10922.6 | 10421.9 | 10036.5 | 9562.4 |
| 72.5° | 8645.3 | 8764.8 | 8821.1 | 9067.3 | 9070.1 | 8895.7 | 8783.1 | 8565.1 | 8161.4 | 7888.5 | 7527.0 |
| 75° | 5048.5 | 4785.4 | 4505.5 | 4262.2 | 4063.8 | 3980.8 | 3612.3 | 3550.4 | 3302.8 | 3149.5 | 2924.4 |
| 77.5° | 2081.8 | 1846.9 | 1544.5 | 1292.7 | 1043.7 | 931.2 | 768.0 | 696.3 | 603.5 | 562.7 | 535.9 |
| 80° | 1785.0 | 1562.8 | 1334.9 | 1116.9 | 922.8 | 728.6 | 566.9 | 440.3 | 346.0 | 294.0 | 272.9 |
| 82.5° | 1457.3 | 1323.7 | 1164.7 | 1046.5 | 894.6 | 749.7 | 633.0 | 490.9 | 367.1 | 270.1 | 206.8 |
| 85° | 526.1 | 431.8 | 347.4 | 319.3 | 254.6 | 209.6 | 175.8 | 150.5 | 123.8 | 98.5 | 87.2 |
| 87.5° | 59.1 | 56.3 | 32.4 | 30.9 | 35.2 | 25.3 | 29.5 | 26.7 | 22.5 | 19.7 | 21.1 |
| 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: P150108

CATALOG NUMBER: TLM-E05-LED-E1-SL2-8030

CANDELA DISTRIBUTION (continued):

| | 87° | 88° | 89° | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1341.9 | 1341.9 | 1341.9 | 1341.9 | 1341.9 | 1341.9 | 1341.9 | 1341.9 | 1341.9 | 1341.9 | 1341.9 |
| 2.5° | 1346.2 | 1346.2 | 1347.6 | 1347.6 | 1349.0 | 1350.4 | 1353.2 | 1351.8 | 1351.8 | 1353.2 | 1353.2 |
| 5° | 1384.1 | 1388.4 | 1387.0 | 1387.0 | 1387.0 | 1388.4 | 1389.8 | 1384.1 | 1378.5 | 1372.9 | 1370.1 |
| 7.5° | 1450.3 | 1453.1 | 1455.9 | 1453.1 | 1455.9 | 1454.5 | 1451.7 | 1436.2 | 1417.9 | 1395.4 | 1379.9 |
| 10° | 1536.1 | 1536.1 | 1538.9 | 1537.5 | 1543.1 | 1538.9 | 1530.4 | 1495.3 | 1455.9 | 1408.1 | 1372.9 |
| 12.5° | 1628.9 | 1638.7 | 1634.5 | 1635.9 | 1647.2 | 1635.9 | 1616.2 | 1564.2 | 1493.9 | 1416.5 | 1354.6 |
| 15° | 1738.6 | 1742.8 | 1745.7 | 1741.4 | 1748.5 | 1738.6 | 1703.5 | 1620.5 | 1517.8 | 1409.5 | 1318.0 |
| 17.5° | 1828.6 | 1830.1 | 1831.5 | 1834.3 | 1844.1 | 1832.9 | 1772.4 | 1659.8 | 1523.4 | 1377.1 | 1256.1 |
| 20° | 1899.0 | 1906.0 | 1911.6 | 1911.6 | 1925.7 | 1908.8 | 1828.6 | 1679.5 | 1505.1 | 1323.7 | 1177.4 |
| 22.5° | 1972.1 | 1977.8 | 1984.8 | 1986.2 | 2004.5 | 1987.6 | 1875.1 | 1675.3 | 1457.3 | 1247.7 | 1085.9 |
| 25° | 2062.2 | 2067.8 | 2073.4 | 2080.4 | 2105.8 | 2081.8 | 1921.5 | 1658.4 | 1391.2 | 1157.7 | 987.5 |
| 27.5° | 2166.2 | 2178.9 | 2183.1 | 2194.4 | 2223.9 | 2187.3 | 1960.9 | 1633.1 | 1318.0 | 1053.6 | 883.4 |
| 30° | 2305.5 | 2321.0 | 2326.6 | 2342.1 | 2382.9 | 2302.7 | 1983.4 | 1589.5 | 1225.2 | 948.1 | 772.3 |
| 32.5° | 2492.6 | 2513.7 | 2530.6 | 2547.4 | 2593.9 | 2418.0 | 1986.2 | 1526.2 | 1116.9 | 829.9 | 665.3 |
| 35° | 2737.3 | 2769.7 | 2782.4 | 2793.6 | 2837.2 | 2543.2 | 1973.5 | 1432.0 | 984.7 | 709.0 | 580.9 |
| 37.5° | 3011.6 | 3044.0 | 3052.4 | 3058.1 | 3066.5 | 2650.1 | 1942.6 | 1288.5 | 835.6 | 603.5 | 513.4 |
| 40° | 3349.2 | 3377.4 | 3388.6 | 3380.2 | 3335.2 | 2733.1 | 1873.7 | 1121.1 | 690.7 | 531.7 | 471.2 |
| 42.5° | 3761.4 | 3803.6 | 3807.8 | 3769.8 | 3620.7 | 2779.5 | 1735.8 | 924.2 | 576.7 | 479.7 | 438.9 |
| 45° | 4272.0 | 4269.2 | 4245.3 | 4218.5 | 3931.6 | 2761.3 | 1543.1 | 752.6 | 505.0 | 438.9 | 409.3 |
| 47.5° | 4730.6 | 4682.7 | 4646.2 | 4567.4 | 4205.9 | 2654.4 | 1294.1 | 623.1 | 461.4 | 407.9 | 384.0 |
| 50° | 5106.1 | 5018.9 | 4941.6 | 4855.8 | 4409.9 | 2464.5 | 1046.5 | 528.9 | 420.6 | 381.2 | 360.1 |
| 52.5° | 5402.9 | 5297.4 | 5207.4 | 5123.0 | 4606.8 | 2253.5 | 858.1 | 460.0 | 381.2 | 354.5 | 333.4 |
| 55° | 5867.1 | 5761.6 | 5618.2 | 5525.3 | 4907.8 | 2059.3 | 735.7 | 405.1 | 343.2 | 326.3 | 305.2 |
| 57.5° | 7041.7 | 6948.9 | 6777.2 | 6536.7 | 5681.5 | 1986.2 | 666.8 | 362.9 | 312.3 | 302.4 | 285.6 |
| 60° | 9092.6 | 8942.1 | 8718.4 | 8473.7 | 7254.1 | 2035.4 | 611.9 | 333.4 | 291.2 | 282.7 | 270.1 |
| 62.5° | 10639.9 | 10375.5 | 10122.3 | 9895.8 | 8511.6 | 2034.0 | 540.2 | 310.9 | 275.7 | 271.5 | 258.8 |
| 65° | 10703.2 | 10434.5 | 10179.9 | 9942.2 | 8539.8 | 1810.4 | 455.8 | 291.2 | 272.9 | 271.5 | 250.4 |
| 67.5° | 10134.9 | 9843.7 | 9597.6 | 9298.0 | 7905.4 | 1415.1 | 365.7 | 278.5 | 284.1 | 281.3 | 247.6 |
| 70° | 9206.5 | 8826.7 | 8624.2 | 8328.8 | 6957.3 | 990.3 | 301.0 | 282.7 | 308.1 | 299.6 | 251.8 |
| 72.5° | 7226.0 | 6939.0 | 6631.0 | 6425.6 | 5446.6 | 626.0 | 253.2 | 285.6 | 317.9 | 303.8 | 263.0 |
| 75° | 2689.5 | 2766.9 | 2640.3 | 2595.3 | 2766.9 | 367.1 | 225.1 | 265.9 | 284.1 | 263.0 | 239.1 |
| 77.5° | 543.0 | 519.1 | 492.3 | 486.7 | 628.8 | 226.5 | 206.8 | 230.7 | 218.0 | 192.7 | 194.1 |
| 80° | 260.2 | 253.2 | 244.8 | 243.4 | 233.5 | 188.5 | 191.3 | 196.9 | 164.6 | 149.1 | 159.0 |
| 82.5° | 173.0 | 163.2 | 160.4 | 154.7 | 157.5 | 168.8 | 181.5 | 168.8 | 126.6 | 118.2 | 143.5 |
| 85° | 80.2 | 77.4 | 76.0 | 76.0 | 84.4 | 151.9 | 150.5 | 123.8 | 87.2 | 84.4 | 143.5 |
| 87.5° | 19.7 | 19.7 | 21.1 | 19.7 | 22.5 | 45.0 | 39.4 | 38.0 | 32.4 | 36.6 | 67.5 |
| 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: P150108

CATALOG NUMBER: TLM-E05-LED-E1-SL2-8030

CANDELA DISTRIBUTION (continued):

| | 165° | 175° | 180° |
|-------|--------|--------|--------|
| 0° | 1341.9 | 1341.9 | 1341.9 |
| 2.5° | 1351.8 | 1353.2 | 1351.8 |
| 5° | 1364.5 | 1364.5 | 1364.5 |
| 7.5° | 1364.5 | 1360.2 | 1358.8 |
| 10° | 1344.8 | 1332.1 | 1332.1 |
| 12.5° | 1311.0 | 1289.9 | 1287.1 |
| 15° | 1247.7 | 1219.6 | 1215.3 |
| 17.5° | 1167.5 | 1129.5 | 1122.5 |
| 20° | 1077.5 | 1029.7 | 1021.2 |
| 22.5° | 979.0 | 924.2 | 920.0 |
| 25° | 882.0 | 825.7 | 814.5 |
| 27.5° | 773.7 | 718.8 | 713.2 |
| 30° | 665.3 | 617.5 | 614.7 |
| 32.5° | 573.9 | 544.4 | 538.7 |
| 35° | 509.2 | 492.3 | 485.3 |
| 37.5° | 467.0 | 454.3 | 452.9 |
| 40° | 434.7 | 423.4 | 422.0 |
| 42.5° | 407.9 | 398.1 | 396.7 |
| 45° | 381.2 | 372.8 | 369.9 |
| 47.5° | 354.5 | 346.0 | 344.6 |
| 50° | 330.6 | 319.3 | 317.9 |
| 52.5° | 308.1 | 296.8 | 294.0 |
| 55° | 287.0 | 275.7 | 275.7 |
| 57.5° | 268.7 | 257.4 | 256.0 |
| 60° | 251.8 | 240.5 | 239.1 |
| 62.5° | 239.1 | 225.1 | 223.7 |
| 65° | 229.3 | 215.2 | 212.4 |
| 67.5° | 223.7 | 206.8 | 202.6 |
| 70° | 233.5 | 202.6 | 195.5 |
| 72.5° | 234.9 | 198.3 | 188.5 |
| 75° | 226.5 | 187.1 | 180.1 |
| 77.5° | 198.3 | 167.4 | 160.4 |
| 80° | 171.6 | 129.4 | 119.6 |
| 82.5° | 163.2 | 105.5 | 91.4 |
| 85° | 126.6 | 68.9 | 64.7 |
| 87.5° | 71.7 | 38.0 | 30.9 |
| 90° | 0.0 | 0.0 | 0.0 |

(END OF REPORT)