

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: P150674

Luminaire Tested: **TLM-F04-LED-E1-SL3-HSS-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P150674  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33727)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: TLM-F04-LED-E1-SL3-HSS-7030  
Description: TALON MEDIUM LED SITE LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND  
HOUSE SIDE SHIELD  
Light Source: (28) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5229.2 lumens  
Efficiency: N/A  
Efficacy: 51.2 lumens/watt  
Spacing Criteria (0/90/45): 4.23 / 3.52 / 4.34  
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')  
CIE Type: Direct

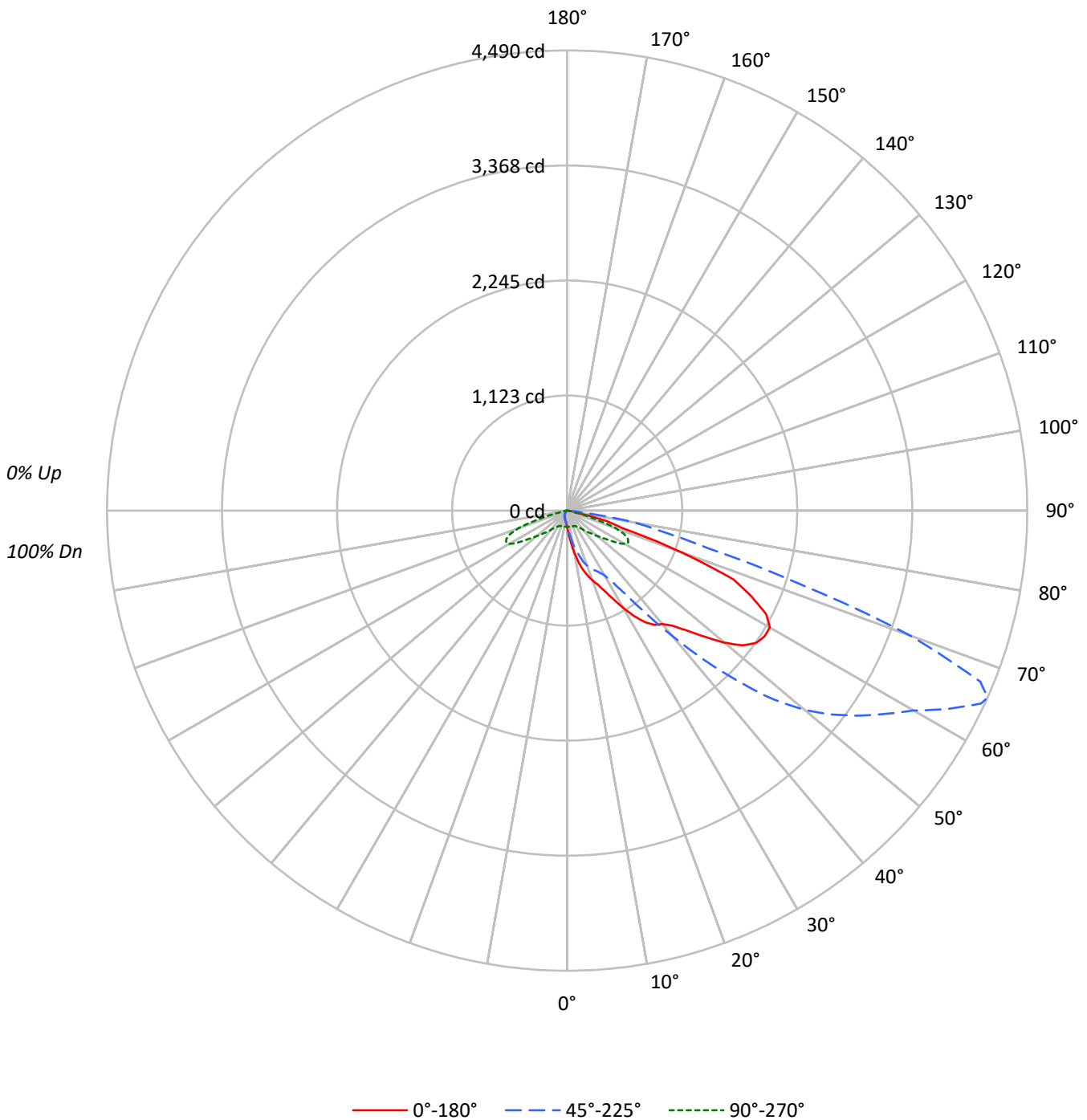
Input Watts (W): 102.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P150674

CATALOG NUMBER: TLM-F04-LED-E1-SL3-HSS-7030

### Luminous Intensity Polar Plot





TEST NUMBER: P150674

CATALOG NUMBER: TLM-F04-LED-E1-SL3-HSS-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  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1   | 105 | 98  | 93  | 87  | 102 | 96  | 91  | 86  | 92  | 87  | 83  | 88  | 84  | 81  | 84  | 81  | 78  | 76  |
| 2   | 91  | 80  | 71  | 63  | 88  | 78  | 69  | 62  | 74  | 67  | 61  | 71  | 64  | 59  | 67  | 62  | 58  | 55  |
| 3   | 80  | 66  | 55  | 46  | 77  | 64  | 54  | 46  | 61  | 52  | 45  | 58  | 50  | 44  | 55  | 48  | 43  | 40  |
| 4   | 71  | 55  | 43  | 35  | 68  | 53  | 43  | 34  | 51  | 41  | 34  | 48  | 40  | 33  | 45  | 38  | 32  | 30  |
| 5   | 63  | 47  | 35  | 27  | 61  | 45  | 34  | 26  | 43  | 33  | 26  | 41  | 32  | 26  | 39  | 31  | 25  | 23  |
| 6   | 57  | 40  | 29  | 21  | 55  | 39  | 29  | 21  | 37  | 28  | 21  | 35  | 27  | 20  | 33  | 26  | 20  | 17  |
| 7   | 52  | 35  | 24  | 17  | 50  | 34  | 24  | 17  | 33  | 23  | 17  | 31  | 23  | 16  | 29  | 22  | 16  | 14  |
| 8   | 48  | 31  | 21  | 14  | 46  | 30  | 21  | 14  | 29  | 20  | 14  | 28  | 19  | 13  | 26  | 19  | 13  | 11  |
| 9   | 44  | 28  | 18  | 12  | 42  | 27  | 18  | 12  | 26  | 17  | 11  | 25  | 17  | 11  | 24  | 16  | 11  | 9   |
| 10  | 41  | 25  | 16  | 10  | 39  | 25  | 16  | 10  | 24  | 15  | 10  | 23  | 15  | 10  | 22  | 15  | 10  | 7   |

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

|     | 0°    | 90°   | 180° |
|-----|-------|-------|------|
| 0°  | 2535  | 2535  | 2535 |
| 5°  | 4248  | 2554  | 1864 |
| 10° | 6971  | 2575  | 1558 |
| 15° | 9949  | 2684  | 1321 |
| 20° | 12375 | 2776  | 1135 |
| 25° | 15308 | 2940  | 963  |
| 30° | 20347 | 3292  | 820  |
| 35° | 26104 | 3894  | 690  |
| 40° | 30275 | 5123  | 547  |
| 45° | 37597 | 6922  | 411  |
| 50° | 50077 | 9649  | 402  |
| 55° | 63074 | 14108 | 451  |
| 60° | 73358 | 20932 | 485  |
| 65° | 75401 | 24859 | 536  |
| 70° | 55108 | 23871 | 615  |
| 75° | 24835 | 10391 | 813  |
| 80° | 4469  | 2604  | 1212 |
| 85° | 369   | 2313  | 2230 |



TEST NUMBER: P150674

CATALOG NUMBER: TLM-F04-LED-E1-SL3-HSS-7030

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 17.7   | 0.3       |
| 10°-20°   | 74.9   | 1.4       |
| 20°-30°   | 161.6  | 3.1       |
| 30°-40°   | 345.1  | 6.6       |
| 40°-50°   | 763.1  | 14.6      |
| 50°-60°   | 1293.3 | 24.7      |
| 60°-70°   | 1725.8 | 33.0      |
| 70°-80°   | 760.2  | 14.5      |
| 80°-90°   | 87.6   | 1.7       |
| 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°    | 254.2  | 4.9       |
| 0°-40°    | 599.3  | 11.5      |
| 0°-60°    | 2655.7 | 50.8      |
| 0°-90°    | 5229.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5229.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 158  | 158  | 158 | 158  | 158  |      |
| 5°  | 263  | 223  | 158 | 120  | 116  | 30   |
| 15° | 598  | 456  | 161 | 86   | 79   | 171  |
| 25° | 864  | 644  | 166 | 62   | 54   | 413  |
| 35° | 1331 | 997  | 199 | 42   | 35   | 825  |
| 45° | 1655 | 2347 | 305 | 25   | 18   | 1308 |
| 55° | 2252 | 3488 | 504 | 12   | 16   | 1985 |
| 65° | 1984 | 4454 | 654 | 9    | 14   | 1894 |
| 75° | 400  | 1426 | 167 | 7    | 13   | 441  |
| 85° | 2    | 30   | 13  | 6    | 12   | 12   |
| 90° | 0    | 0    | 0   | 0    | 0    |      |



TEST NUMBER: P150674

CATALOG NUMBER: TLM-F04-LED-E1-SL3-HSS-7030

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 66°    | 67°    | 68°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 157.8  | 157.8  | 157.8  | 157.8  | 157.8  | 157.8  | 157.8  | 157.8  | 157.8  | 157.8  | 157.8  |
| 2.5°  | 199.1  | 198.0  | 194.0  | 194.0  | 188.0  | 184.0  | 178.9  | 173.9  | 173.9  | 172.9  | 171.9  |
| 5°    | 263.4  | 257.4  | 256.4  | 245.3  | 236.3  | 223.2  | 211.1  | 195.0  | 193.0  | 191.0  | 190.0  |
| 7.5°  | 334.8  | 333.8  | 324.7  | 311.7  | 293.6  | 269.4  | 245.3  | 219.2  | 215.1  | 213.1  | 209.1  |
| 10°   | 427.3  | 422.2  | 410.2  | 388.1  | 360.9  | 328.7  | 289.5  | 248.3  | 243.3  | 239.3  | 237.3  |
| 12.5° | 515.7  | 506.7  | 499.6  | 471.5  | 437.3  | 390.1  | 342.8  | 283.5  | 279.5  | 274.5  | 266.4  |
| 15°   | 598.2  | 590.1  | 578.1  | 553.9  | 515.7  | 456.4  | 401.1  | 328.7  | 318.7  | 311.7  | 305.6  |
| 17.5° | 662.5  | 657.5  | 643.4  | 616.3  | 575.0  | 522.8  | 456.4  | 375.0  | 366.9  | 357.9  | 346.8  |
| 20°   | 723.8  | 716.8  | 694.7  | 657.5  | 613.2  | 573.0  | 521.8  | 435.3  | 424.2  | 413.2  | 401.1  |
| 22.5° | 782.1  | 775.1  | 738.9  | 677.6  | 630.3  | 613.2  | 595.2  | 503.7  | 486.6  | 477.5  | 465.5  |
| 25°   | 863.6  | 848.5  | 792.2  | 694.7  | 631.3  | 644.4  | 675.6  | 592.1  | 576.1  | 563.0  | 543.9  |
| 27.5° | 973.2  | 953.0  | 864.6  | 719.8  | 635.4  | 678.6  | 768.1  | 699.7  | 682.6  | 667.5  | 646.4  |
| 30°   | 1096.8 | 1083.7 | 978.2  | 780.1  | 664.5  | 728.9  | 871.6  | 836.4  | 816.3  | 798.2  | 773.1  |
| 32.5° | 1221.5 | 1203.4 | 1098.8 | 894.7  | 742.9  | 826.4  | 1001.3 | 995.3  | 969.1  | 952.0  | 924.9  |
| 35°   | 1331.0 | 1322.0 | 1244.6 | 1082.7 | 921.9  | 997.3  | 1174.2 | 1181.3 | 1158.1 | 1140.0 | 1109.9 |
| 37.5° | 1405.4 | 1405.4 | 1390.4 | 1284.8 | 1206.4 | 1262.7 | 1428.6 | 1429.6 | 1406.4 | 1365.2 | 1350.2 |
| 40°   | 1443.6 | 1454.7 | 1509.0 | 1529.1 | 1525.1 | 1597.5 | 1762.3 | 1744.2 | 1725.1 | 1704.0 | 1653.8 |
| 42.5° | 1522.1 | 1532.1 | 1647.7 | 1786.5 | 1876.9 | 1972.4 | 2086.0 | 2080.0 | 2056.9 | 2018.7 | 1972.4 |
| 45°   | 1654.8 | 1667.8 | 1805.6 | 2025.7 | 2211.7 | 2347.4 | 2419.8 | 2391.7 | 2368.5 | 2332.4 | 2308.2 |
| 47.5° | 1823.7 | 1848.8 | 2004.6 | 2277.1 | 2501.2 | 2725.4 | 2800.8 | 2726.4 | 2706.3 | 2678.2 | 2639.0 |
| 50°   | 2003.6 | 2027.7 | 2193.6 | 2505.3 | 2758.6 | 3026.0 | 3151.7 | 3026.0 | 2996.9 | 2987.8 | 2943.6 |
| 52.5° | 2159.4 | 2179.5 | 2339.4 | 2681.2 | 2955.7 | 3269.3 | 3452.3 | 3286.4 | 3265.3 | 3235.1 | 3203.0 |
| 55°   | 2251.9 | 2268.0 | 2417.8 | 2765.6 | 3089.4 | 3488.5 | 3742.8 | 3597.1 | 3565.9 | 3553.8 | 3507.6 |
| 57.5° | 2283.1 | 2299.2 | 2433.9 | 2776.7 | 3161.7 | 3688.5 | 4095.7 | 4100.7 | 4063.5 | 4020.3 | 4006.2 |
| 60°   | 2283.1 | 2301.2 | 2414.8 | 2749.6 | 3232.1 | 3901.7 | 4566.2 | 4985.4 | 4905.0 | 4896.9 | 4845.7 |
| 62.5° | 2188.6 | 2205.7 | 2320.3 | 2666.1 | 3326.6 | 4189.2 | 5221.7 | 5961.6 | 5938.5 | 5886.2 | 5801.7 |
| 65°   | 1983.5 | 1993.6 | 2106.2 | 2453.0 | 3290.4 | 4453.6 | 5789.7 | 6611.0 | 6573.8 | 6471.3 | 6362.7 |
| 66°   | 1891.0 | 1899.1 | 2004.6 | 2331.3 | 3171.8 | 4489.8 | 5890.2 | 6692.4 | 6631.1 | 6544.7 | 6422.0 |
| 67.5° | 1757.3 | 1771.4 | 1845.8 | 2105.1 | 2887.3 | 4364.1 | 5826.9 | 6635.1 | 6581.9 | 6477.3 | 6354.7 |
| 70°   | 1173.2 | 1163.2 | 1425.6 | 1615.6 | 2199.7 | 3555.8 | 5227.7 | 5957.6 | 5958.6 | 5909.3 | 5860.0 |
| 72.5° | 556.9  | 563.0  | 639.4  | 994.3  | 1439.6 | 2375.6 | 4161.0 | 4755.2 | 4823.5 | 4735.1 | 4673.8 |
| 75°   | 400.1  | 409.2  | 455.4  | 608.2  | 858.5  | 1425.6 | 2697.3 | 3325.6 | 3327.6 | 3170.8 | 3031.1 |
| 77.5° | 116.6  | 121.6  | 170.9  | 375.0  | 643.4  | 962.1  | 1549.2 | 1848.8 | 1805.6 | 1693.0 | 1587.4 |
| 80°   | 48.3   | 48.3   | 50.3   | 119.6  | 258.4  | 653.5  | 1083.7 | 1423.5 | 1418.5 | 1375.3 | 1313.0 |
| 82.5° | 18.1   | 19.1   | 24.1   | 49.3   | 61.3   | 160.9  | 722.8  | 1235.5 | 1232.5 | 1171.2 | 1127.0 |
| 85°   | 2.0    | 2.0    | 6.0    | 21.1   | 23.1   | 30.2   | 144.8  | 544.9  | 541.9  | 544.9  | 477.5  |
| 87.5° | 0.0    | 0.0    | 1.0    | 2.0    | 3.0    | 4.0    | 6.0    | 21.1   | 23.1   | 22.1   | 20.1   |
| 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: P150674

CATALOG NUMBER: TLM-F04-LED-E1-SL3-HSS-7030

**CANDELA DISTRIBUTION (continued):**

|       | 69°    | 70°    | 71°    | 72°    | 73°    | 74°    | 75°    | 76°    | 77°    | 78°    | 79°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 157.8  | 157.8  | 157.8  | 157.8  | 157.8  | 157.8  | 157.8  | 157.8  | 157.8  | 157.8  | 157.8  |
| 2.5°  | 171.9  | 169.9  | 169.9  | 168.9  | 168.9  | 168.9  | 167.9  | 166.9  | 166.9  | 165.9  | 164.9  |
| 5°    | 188.0  | 186.0  | 185.0  | 183.0  | 182.0  | 181.0  | 178.9  | 177.9  | 175.9  | 174.9  | 173.9  |
| 7.5°  | 207.1  | 203.1  | 202.1  | 199.1  | 196.0  | 194.0  | 192.0  | 189.0  | 187.0  | 183.0  | 182.0  |
| 10°   | 231.2  | 226.2  | 222.2  | 218.2  | 215.1  | 210.1  | 207.1  | 203.1  | 199.1  | 196.0  | 193.0  |
| 12.5° | 262.4  | 255.4  | 249.3  | 245.3  | 238.3  | 232.2  | 226.2  | 223.2  | 215.1  | 211.1  | 206.1  |
| 15°   | 296.6  | 288.5  | 281.5  | 273.4  | 268.4  | 258.4  | 250.3  | 241.3  | 237.3  | 230.2  | 222.2  |
| 17.5° | 340.8  | 327.7  | 316.7  | 308.6  | 298.6  | 288.5  | 279.5  | 270.4  | 258.4  | 250.3  | 240.3  |
| 20°   | 388.1  | 377.0  | 361.9  | 347.8  | 335.8  | 323.7  | 310.6  | 298.6  | 287.5  | 274.5  | 262.4  |
| 22.5° | 448.4  | 432.3  | 414.2  | 400.1  | 384.0  | 371.0  | 352.9  | 336.8  | 318.7  | 301.6  | 287.5  |
| 25°   | 524.8  | 503.7  | 486.6  | 466.5  | 447.4  | 427.3  | 405.1  | 385.0  | 361.9  | 345.8  | 321.7  |
| 27.5° | 619.3  | 599.2  | 576.1  | 549.9  | 530.8  | 500.7  | 471.5  | 446.4  | 419.2  | 394.1  | 366.9  |
| 30°   | 739.9  | 710.8  | 686.6  | 661.5  | 623.3  | 594.1  | 560.0  | 525.8  | 488.6  | 463.5  | 422.2  |
| 32.5° | 884.7  | 853.5  | 817.3  | 781.1  | 746.0  | 704.7  | 662.5  | 620.3  | 579.1  | 532.8  | 490.6  |
| 35°   | 1061.6 | 1024.4 | 983.2  | 944.0  | 889.7  | 845.5  | 792.2  | 733.9  | 687.6  | 634.4  | 581.1  |
| 37.5° | 1295.9 | 1234.5 | 1198.3 | 1157.1 | 1083.7 | 1023.4 | 964.1  | 905.8  | 824.4  | 768.1  | 692.7  |
| 40°   | 1589.4 | 1553.2 | 1493.9 | 1427.6 | 1361.2 | 1281.8 | 1201.4 | 1124.0 | 1029.5 | 951.0  | 863.6  |
| 42.5° | 1934.2 | 1881.0 | 1820.6 | 1725.1 | 1657.8 | 1564.3 | 1472.8 | 1370.3 | 1254.6 | 1154.1 | 1051.6 |
| 45°   | 2258.0 | 2194.6 | 2148.4 | 2052.9 | 1982.5 | 1871.9 | 1761.3 | 1652.8 | 1519.0 | 1389.4 | 1270.7 |
| 47.5° | 2607.8 | 2555.5 | 2479.1 | 2401.7 | 2330.3 | 2205.7 | 2086.0 | 1954.4 | 1813.6 | 1659.8 | 1506.0 |
| 50°   | 2915.4 | 2874.2 | 2821.9 | 2728.5 | 2649.0 | 2544.5 | 2403.7 | 2260.0 | 2082.0 | 1929.2 | 1754.3 |
| 52.5° | 3176.8 | 3144.7 | 3071.3 | 3004.9 | 2933.5 | 2835.0 | 2709.3 | 2571.6 | 2379.6 | 2211.7 | 2012.7 |
| 55°   | 3485.5 | 3462.3 | 3398.0 | 3356.8 | 3293.4 | 3198.9 | 3081.3 | 2953.6 | 2750.6 | 2567.6 | 2342.4 |
| 57.5° | 3991.1 | 3973.0 | 3916.7 | 3899.7 | 3837.3 | 3754.9 | 3610.1 | 3473.4 | 3236.1 | 3008.9 | 2751.6 |
| 60°   | 4828.6 | 4792.4 | 4709.9 | 4667.7 | 4536.0 | 4425.4 | 4237.4 | 4049.4 | 3762.9 | 3473.4 | 3163.8 |
| 62.5° | 5725.3 | 5623.8 | 5467.0 | 5332.2 | 5145.3 | 4953.2 | 4701.9 | 4414.4 | 4078.6 | 3734.8 | 3378.9 |
| 65°   | 6208.9 | 6036.0 | 5837.9 | 5623.8 | 5381.5 | 5099.0 | 4782.3 | 4437.5 | 4076.6 | 3713.7 | 3337.7 |
| 66°   | 6264.2 | 6069.1 | 5859.0 | 5620.8 | 5351.3 | 5050.8 | 4729.0 | 4367.1 | 3992.1 | 3638.3 | 3262.3 |
| 67.5° | 6194.8 | 5990.7 | 5768.6 | 5504.2 | 5212.6 | 4901.0 | 4563.2 | 4187.2 | 3826.3 | 3467.4 | 3101.4 |
| 70°   | 5709.2 | 5506.2 | 5308.1 | 5029.6 | 4719.0 | 4405.3 | 4085.6 | 3665.4 | 3323.6 | 2993.9 | 2668.1 |
| 72.5° | 4559.1 | 4421.4 | 4225.4 | 3987.1 | 3684.5 | 3316.6 | 3050.2 | 2674.2 | 2377.6 | 2057.9 | 1805.6 |
| 75°   | 2849.1 | 2655.1 | 2412.8 | 2109.2 | 1877.9 | 1579.4 | 1423.5 | 1138.0 | 969.1  | 821.4  | 678.6  |
| 77.5° | 1456.7 | 1310.9 | 1141.0 | 970.1  | 806.3  | 643.4  | 497.6  | 351.9  | 237.3  | 164.9  | 122.6  |
| 80°   | 1203.4 | 1074.7 | 933.9  | 778.1  | 633.4  | 491.6  | 353.9  | 241.3  | 153.8  | 100.5  | 78.4   |
| 82.5° | 994.3  | 885.7  | 760.0  | 615.3  | 489.6  | 386.0  | 268.4  | 174.9  | 108.6  | 70.4   | 55.3   |
| 85°   | 423.2  | 384.0  | 296.6  | 235.2  | 176.9  | 130.7  | 91.5   | 61.3   | 43.2   | 35.2   | 32.2   |
| 87.5° | 18.1   | 20.1   | 19.1   | 15.1   | 11.1   | 11.1   | 10.1   | 8.0    | 8.0    | 8.0    | 8.0    |
| 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: P150674

CATALOG NUMBER: TLM-F04-LED-E1-SL3-HSS-7030

**CANDELA DISTRIBUTION (continued):**

|       | 80°    | 81°    | 82°    | 83°    | 84°    | 85°    | 95°   | 105°  | 115°  | 125°  | 135°  |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| 0°    | 157.8  | 157.8  | 157.8  | 157.8  | 157.8  | 157.8  | 157.8 | 157.8 | 157.8 | 157.8 | 157.8 |
| 2.5°  | 164.9  | 163.9  | 162.9  | 162.9  | 161.9  | 160.9  | 154.8 | 149.8 | 143.8 | 139.7 | 135.7 |
| 5°    | 171.9  | 170.9  | 168.9  | 167.9  | 165.9  | 164.9  | 151.8 | 140.7 | 131.7 | 124.7 | 119.6 |
| 7.5°  | 178.9  | 177.9  | 174.9  | 171.9  | 170.9  | 168.9  | 147.8 | 133.7 | 121.6 | 113.6 | 108.6 |
| 10°   | 188.0  | 185.0  | 182.0  | 177.9  | 174.9  | 171.9  | 143.8 | 125.7 | 112.6 | 105.6 | 100.5 |
| 12.5° | 201.1  | 196.0  | 191.0  | 186.0  | 182.0  | 176.9  | 141.8 | 118.6 | 105.6 | 97.5  | 92.5  |
| 15°   | 216.1  | 209.1  | 203.1  | 197.0  | 190.0  | 185.0  | 137.7 | 112.6 | 99.5  | 91.5  | 85.5  |
| 17.5° | 230.2  | 222.2  | 213.1  | 204.1  | 197.0  | 190.0  | 133.7 | 106.6 | 93.5  | 85.5  | 79.4  |
| 20°   | 250.3  | 238.3  | 227.2  | 216.1  | 206.1  | 197.0  | 127.7 | 100.5 | 88.5  | 79.4  | 73.4  |
| 22.5° | 272.4  | 258.4  | 244.3  | 229.2  | 216.1  | 204.1  | 122.6 | 95.5  | 83.4  | 74.4  | 67.4  |
| 25°   | 300.6  | 283.5  | 264.4  | 245.3  | 230.2  | 214.1  | 117.6 | 90.5  | 78.4  | 69.4  | 62.3  |
| 27.5° | 339.8  | 315.7  | 294.6  | 270.4  | 247.3  | 229.2  | 113.6 | 86.5  | 73.4  | 64.3  | 57.3  |
| 30°   | 393.1  | 357.9  | 324.7  | 298.6  | 271.4  | 245.3  | 109.6 | 81.4  | 69.4  | 59.3  | 51.3  |
| 32.5° | 452.4  | 411.2  | 373.0  | 333.8  | 299.6  | 269.4  | 105.6 | 77.4  | 64.3  | 54.3  | 47.3  |
| 35°   | 525.8  | 473.5  | 422.2  | 377.0  | 335.8  | 295.6  | 101.5 | 73.4  | 60.3  | 49.3  | 42.2  |
| 37.5° | 631.3  | 566.0  | 498.6  | 440.3  | 387.0  | 333.8  | 98.5  | 69.4  | 55.3  | 44.2  | 37.2  |
| 40°   | 776.1  | 691.7  | 609.2  | 529.8  | 460.4  | 394.1  | 94.5  | 65.3  | 51.3  | 40.2  | 33.2  |
| 42.5° | 932.9  | 830.4  | 721.8  | 632.3  | 536.8  | 453.4  | 90.5  | 61.3  | 47.3  | 36.2  | 29.2  |
| 45°   | 1128.0 | 1000.3 | 868.6  | 747.0  | 630.3  | 522.8  | 86.5  | 57.3  | 42.2  | 32.2  | 25.1  |
| 47.5° | 1341.1 | 1178.2 | 1029.5 | 876.6  | 737.9  | 609.2  | 81.4  | 54.3  | 38.2  | 28.1  | 22.1  |
| 50°   | 1560.3 | 1388.4 | 1200.4 | 1026.4 | 861.6  | 695.7  | 76.4  | 49.3  | 34.2  | 25.1  | 18.1  |
| 52.5° | 1796.5 | 1593.4 | 1401.4 | 1185.3 | 993.3  | 809.3  | 71.4  | 45.2  | 31.2  | 22.1  | 15.1  |
| 55°   | 2097.1 | 1869.9 | 1644.7 | 1402.4 | 1171.2 | 941.0  | 66.4  | 40.2  | 27.1  | 19.1  | 12.1  |
| 57.5° | 2475.1 | 2205.7 | 1929.2 | 1655.8 | 1375.3 | 1113.9 | 62.3  | 35.2  | 23.1  | 16.1  | 10.1  |
| 60°   | 2832.0 | 2517.3 | 2182.6 | 1867.9 | 1551.2 | 1246.6 | 56.3  | 31.2  | 20.1  | 13.1  | 10.1  |
| 62.5° | 3017.0 | 2658.1 | 2297.2 | 1950.3 | 1612.5 | 1293.9 | 50.3  | 26.1  | 17.1  | 11.1  | 9.0   |
| 65°   | 2971.7 | 2605.8 | 2255.9 | 1906.1 | 1575.3 | 1263.7 | 44.2  | 23.1  | 15.1  | 10.1  | 9.0   |
| 66°   | 2906.4 | 2544.5 | 2192.6 | 1859.9 | 1544.2 | 1231.5 | 41.2  | 22.1  | 14.1  | 10.1  | 8.0   |
| 67.5° | 2763.6 | 2413.8 | 2078.0 | 1768.4 | 1458.7 | 1170.2 | 37.2  | 20.1  | 13.1  | 9.0   | 8.0   |
| 70°   | 2360.5 | 2042.8 | 1774.4 | 1498.9 | 1246.6 | 986.2  | 30.2  | 17.1  | 11.1  | 8.0   | 8.0   |
| 72.5° | 1562.3 | 1346.1 | 1167.2 | 1004.3 | 839.4  | 651.5  | 25.1  | 14.1  | 9.0   | 8.0   | 7.0   |
| 75°   | 589.1  | 532.8  | 457.4  | 411.2  | 358.9  | 314.7  | 20.1  | 9.0   | 7.0   | 7.0   | 7.0   |
| 77.5° | 104.6  | 96.5   | 85.5   | 78.4   | 72.4   | 66.4   | 16.1  | 6.0   | 6.0   | 7.0   | 7.0   |
| 80°   | 70.4   | 65.3   | 59.3   | 54.3   | 50.3   | 45.2   | 11.1  | 5.0   | 6.0   | 6.0   | 7.0   |
| 82.5° | 50.3   | 47.3   | 44.2   | 40.2   | 37.2   | 33.2   | 7.0   | 5.0   | 6.0   | 6.0   | 6.0   |
| 85°   | 30.2   | 28.1   | 26.1   | 24.1   | 21.1   | 20.1   | 5.0   | 5.0   | 5.0   | 6.0   | 6.0   |
| 87.5° | 8.0    | 7.0    | 8.0    | 8.0    | 6.0    | 7.0    | 4.0   | 4.0   | 4.0   | 5.0   | 5.0   |
| 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: P150674

CATALOG NUMBER: TLM-F04-LED-E1-SL3-HSS-7030

**CANDELA DISTRIBUTION (continued):**

|       | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|-------|
| 0°    | 157.8 | 157.8 | 157.8 | 157.8 | 157.8 |
| 2.5°  | 133.7 | 133.7 | 131.7 | 134.7 | 134.7 |
| 5°    | 115.6 | 115.6 | 114.6 | 115.6 | 115.6 |
| 7.5°  | 105.6 | 104.6 | 104.6 | 104.6 | 105.6 |
| 10°   | 96.5  | 95.5  | 95.5  | 95.5  | 95.5  |
| 12.5° | 88.5  | 87.5  | 86.5  | 87.5  | 87.5  |
| 15°   | 81.4  | 79.4  | 79.4  | 79.4  | 79.4  |
| 17.5° | 75.4  | 73.4  | 72.4  | 72.4  | 72.4  |
| 20°   | 69.4  | 66.4  | 66.4  | 66.4  | 66.4  |
| 22.5° | 63.3  | 60.3  | 60.3  | 60.3  | 60.3  |
| 25°   | 57.3  | 54.3  | 54.3  | 54.3  | 54.3  |
| 27.5° | 52.3  | 49.3  | 49.3  | 49.3  | 49.3  |
| 30°   | 46.2  | 44.2  | 44.2  | 45.2  | 44.2  |
| 32.5° | 42.2  | 39.2  | 39.2  | 40.2  | 40.2  |
| 35°   | 37.2  | 35.2  | 35.2  | 35.2  | 35.2  |
| 37.5° | 32.2  | 30.2  | 30.2  | 30.2  | 30.2  |
| 40°   | 28.1  | 26.1  | 25.1  | 26.1  | 26.1  |
| 42.5° | 24.1  | 22.1  | 21.1  | 21.1  | 21.1  |
| 45°   | 21.1  | 18.1  | 17.1  | 18.1  | 18.1  |
| 47.5° | 17.1  | 15.1  | 15.1  | 16.1  | 16.1  |
| 50°   | 13.1  | 13.1  | 14.1  | 16.1  | 16.1  |
| 52.5° | 12.1  | 12.1  | 14.1  | 16.1  | 16.1  |
| 55°   | 11.1  | 12.1  | 14.1  | 15.1  | 16.1  |
| 57.5° | 10.1  | 12.1  | 14.1  | 15.1  | 15.1  |
| 60°   | 10.1  | 11.1  | 13.1  | 15.1  | 15.1  |
| 62.5° | 9.0   | 10.1  | 12.1  | 14.1  | 14.1  |
| 65°   | 9.0   | 10.1  | 12.1  | 14.1  | 14.1  |
| 66°   | 9.0   | 10.1  | 12.1  | 14.1  | 14.1  |
| 67.5° | 9.0   | 10.1  | 12.1  | 14.1  | 14.1  |
| 70°   | 9.0   | 10.1  | 12.1  | 13.1  | 13.1  |
| 72.5° | 8.0   | 9.0   | 11.1  | 13.1  | 13.1  |
| 75°   | 8.0   | 9.0   | 11.1  | 13.1  | 13.1  |
| 77.5° | 8.0   | 9.0   | 11.1  | 13.1  | 13.1  |
| 80°   | 8.0   | 9.0   | 11.1  | 12.1  | 13.1  |
| 82.5° | 7.0   | 9.0   | 10.1  | 12.1  | 12.1  |
| 85°   | 7.0   | 8.0   | 10.1  | 11.1  | 12.1  |
| 87.5° | 6.0   | 7.0   | 8.0   | 10.1  | 10.1  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)