

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: IRiS

Report Number: P1345794

Luminaire Tested: P3A13R35W2N902750DE010 E3CA451MW\_2700K

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1345794  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A13R35W2N902750DE010 E3CA451MW\_2700K  
Description: 3in Adjustable Tunable White LED luminaire with, R35 optic, 2700K CCT AND, 90CRI ,  
E3CA451MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

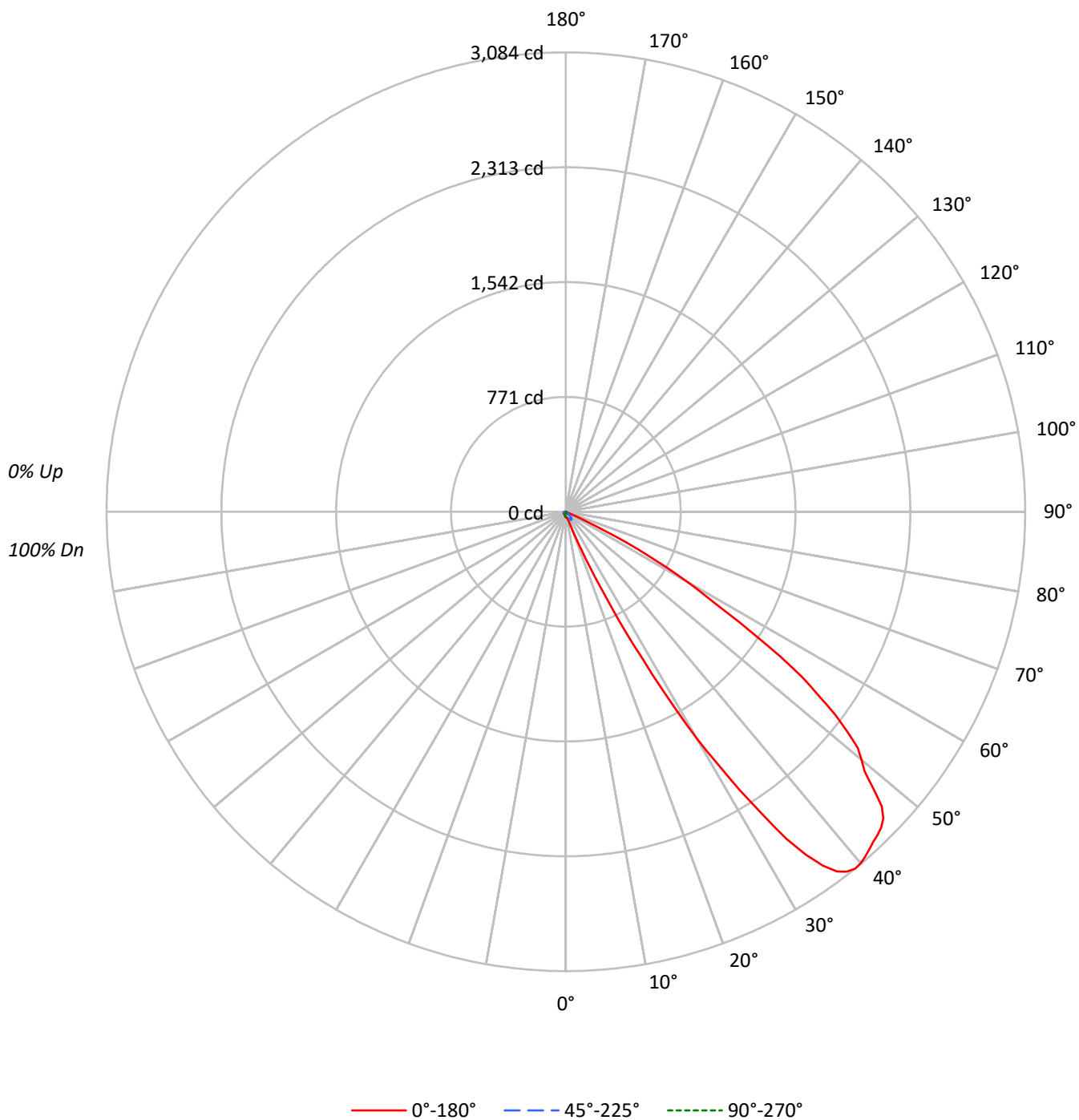
Lumens per Lamp: N/A  
Luminaire Lumens: 768.0 lumens  
Efficiency: N/A  
Efficacy: 62.4 lumens/watt  
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 12.3  
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: 24 FT

TEST NUMBER: P1345794

CATALOG NUMBER: P3A13R35W2N902750DE010 E3CA451MW\_2700K

### Luminous Intensity Polar Plot



TEST NUMBER: P1345794

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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |     |    | 20 |
| RC  | 80  |     |     |     | 70  |     |     |     |     | 50  |     |     |     |     | 30  |     |     |     |    | 10 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |
| 1   | 110 | 106 | 102 | 99  | 107 | 104 | 100 | 97  | 100 | 97  | 94  | 96  | 93  | 91  | 92  | 90  | 89  | 87  |    |    |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 83  | 78  | 84  | 80  | 77  | 81  | 78  | 75  | 73  |    |    |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 63  | 61  |    |    |
| 4   | 83  | 71  | 62  | 55  | 80  | 69  | 61  | 55  | 67  | 60  | 54  | 64  | 58  | 53  | 62  | 57  | 52  | 50  |    |    |
| 5   | 75  | 62  | 52  | 46  | 73  | 61  | 52  | 45  | 58  | 51  | 45  | 56  | 50  | 44  | 55  | 49  | 44  | 42  |    |    |
| 6   | 68  | 54  | 45  | 38  | 66  | 53  | 44  | 38  | 51  | 43  | 38  | 50  | 43  | 37  | 48  | 42  | 37  | 35  |    |    |
| 7   | 62  | 48  | 38  | 32  | 60  | 47  | 38  | 32  | 45  | 37  | 32  | 44  | 37  | 31  | 42  | 36  | 31  | 29  |    |    |
| 8   | 57  | 42  | 33  | 27  | 55  | 41  | 33  | 27  | 40  | 32  | 27  | 39  | 32  | 26  | 38  | 31  | 26  | 24  |    |    |
| 9   | 52  | 38  | 29  | 23  | 50  | 37  | 29  | 23  | 36  | 28  | 23  | 35  | 28  | 22  | 34  | 27  | 22  | 20  |    |    |
| 10  | 48  | 34  | 25  | 19  | 46  | 33  | 25  | 19  | 32  | 25  | 19  | 31  | 24  | 19  | 30  | 24  | 19  | 17  |    |    |

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

|     | 0°     | 45°   | 90°  | 135° | 180°  |
|-----|--------|-------|------|------|-------|
| 0°  | 7763   | 7763  | 7763 | 7763 | 7763  |
| 5°  | 8387   | 8232  | 7638 | 6868 | 6714  |
| 10° | 8795   | 8038  | 6791 | 5856 | 5856  |
| 15° | 12599  | 7877  | 5516 | 5040 | 5199  |
| 20° | 31549  | 8424  | 4364 | 4364 | 4854  |
| 25° | 146428 | 10743 | 3363 | 4016 | 4524  |
| 30° | 445182 | 14559 | 2633 | 3697 | 4558  |
| 35° | 752376 | 16891 | 2222 | 3534 | 4444  |
| 40° | 881938 | 16660 | 1775 | 3578 | 4752  |
| 45° | 928779 | 11815 | 1520 | 3876 | 5148  |
| 50° | 884065 | 7096  | 1433 | 4025 | 5663  |
| 55° | 740791 | 2906  | 1606 | 4511 | 6614  |
| 60° | 414704 | 614   | 1842 | 5175 | 7280  |
| 65° | 71603  | 363   | 1816 | 5759 | 8250  |
| 70° | 1346   | 449   | 2244 | 6219 | 9361  |
| 75° | 1186   | 593   | 2965 | 7032 | 10590 |
| 80° | 884    | 884   | 3536 | 7829 | 12249 |
| 85° | 0      | 1761  | 7045 | 8806 | 13838 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 935353 cd/sqm

TEST NUMBER: P1345794

CATALOG NUMBER: P3A13R35W2N902750DE010 E3CA451MW\_2700K

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 3.2    | 0.4       |
| 10°-20°   | 9.1    | 1.2       |
| 20°-30°   | 47.1   | 6.1       |
| 30°-40°   | 203.5  | 26.5      |
| 40°-50°   | 290.3  | 37.8      |
| 50°-60°   | 179.8  | 23.4      |
| 60°-70°   | 27.4   | 3.6       |
| 70°-80°   | 5.1    | 0.7       |
| 80°-90°   | 2.6    | 0.3       |
| 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°    | 59.4   | 7.7       |
| 0°-40°    | 262.9  | 34.2      |
| 0°-60°    | 733.0  | 95.4      |
| 0°-90°    | 768.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 768.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 35   | 35  | 35  | 35   | 35   |      |
| 5°  | 38   | 37  | 35  | 31   | 30   | 4    |
| 15° | 56   | 35  | 24  | 22   | 23   | 20   |
| 25° | 605  | 44  | 14  | 17   | 19   | 362  |
| 35° | 2811 | 63  | 8   | 13   | 17   | 1688 |
| 45° | 2995 | 38  | 5   | 12   | 17   | 2263 |
| 55° | 1938 | 8   | 4   | 12   | 17   | 1650 |
| 65° | 138  | 1   | 4   | 11   | 16   | 282  |
| 75° | 1    | 1   | 4   | 8    | 12   | 1    |
| 85° | 0    | 1   | 3   | 4    | 6    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1345794

CATALOG NUMBER: P3A13R35W2N902750DE010 E3CA451MW\_2700K

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°   | 45°  | 67.5° | 90°  | 112.5° |
|-------|--------|--------|--------|--------|--------|--------|-------|------|-------|------|--------|
| 0°    | 35.4   | 35.4   | 35.4   | 35.4   | 35.4   | 35.4   | 35.4  | 35.4 | 35.4  | 35.4 | 35.4   |
| 2.5°  | 36.7   | 36.7   | 36.7   | 36.7   | 36.7   | 36.7   | 36.7  | 36.7 | 36.7  | 35.4 | 34.7   |
| 5°    | 38.1   | 38.1   | 37.4   | 37.4   | 37.4   | 37.4   | 37.4  | 37.4 | 36.1  | 34.7 | 32.6   |
| 7.5°  | 38.8   | 38.8   | 38.1   | 38.1   | 38.1   | 38.1   | 37.4  | 36.7 | 35.4  | 32.6 | 30.5   |
| 10°   | 39.5   | 39.5   | 39.5   | 39.5   | 38.8   | 38.1   | 37.4  | 36.1 | 34.0  | 30.5 | 28.4   |
| 12.5° | 44.4   | 44.4   | 43.7   | 42.3   | 40.9   | 39.5   | 38.1  | 35.4 | 31.2  | 27.7 | 25.7   |
| 15°   | 55.5   | 54.8   | 53.4   | 51.3   | 48.5   | 45.1   | 42.3  | 34.7 | 28.4  | 24.3 | 22.9   |
| 17.5° | 77.6   | 76.3   | 74.2   | 67.2   | 61.0   | 54.8   | 49.2  | 34.7 | 25.7  | 21.5 | 20.1   |
| 20°   | 135.2  | 135.9  | 121.3  | 104.7  | 90.8   | 75.6   | 61.7  | 36.1 | 22.9  | 18.7 | 18.0   |
| 22.5° | 282.2  | 271.1  | 236.4  | 196.2  | 149.7  | 115.8  | 87.4  | 39.5 | 20.1  | 15.9 | 15.9   |
| 25°   | 605.2  | 562.9  | 479.1  | 361.9  | 255.1  | 180.9  | 126.9 | 44.4 | 18.0  | 13.9 | 14.6   |
| 27.5° | 1105.1 | 1067.0 | 898.5  | 676.6  | 449.2  | 273.2  | 171.9 | 50.6 | 15.9  | 11.8 | 13.2   |
| 30°   | 1758.2 | 1652.8 | 1433.0 | 1109.3 | 750.8  | 418.1  | 230.9 | 57.5 | 13.2  | 10.4 | 12.5   |
| 31°   | 1962.0 | 1913.5 | 1645.9 | 1283.3 | 879.8  | 496.4  | 255.8 | 59.6 | 12.5  | 10.4 | 11.8   |
| 32°   | 2204.0 | 2118.0 | 1878.1 | 1473.9 | 1010.8 | 566.4  | 285.6 | 61.7 | 11.8  | 9.0  | 11.8   |
| 33°   | 2420.3 | 2337.1 | 2045.2 | 1641.7 | 1143.2 | 646.1  | 317.5 | 62.4 | 10.4  | 9.0  | 11.1   |
| 34°   | 2647.7 | 2534.0 | 2244.9 | 1817.1 | 1279.1 | 732.1  | 346.6 | 63.1 | 9.7   | 8.3  | 11.1   |
| 35°   | 2810.6 | 2696.9 | 2416.8 | 1955.8 | 1396.3 | 808.4  | 379.9 | 63.1 | 9.0   | 8.3  | 10.4   |
| 36°   | 2936.8 | 2836.9 | 2565.2 | 2098.6 | 1512.7 | 877.0  | 406.3 | 63.1 | 7.6   | 7.6  | 10.4   |
| 37°   | 3023.4 | 2928.4 | 2665.0 | 2221.3 | 1601.5 | 938.0  | 429.8 | 63.1 | 6.9   | 7.6  | 10.4   |
| 38°   | 3065.7 | 2986.7 | 2761.4 | 2310.7 | 1687.5 | 985.9  | 448.6 | 61.7 | 6.2   | 6.9  | 9.7    |
| 39°   | 3083.7 | 3019.3 | 2820.3 | 2386.3 | 1751.9 | 1027.4 | 462.4 | 60.3 | 5.5   | 6.9  | 9.7    |
| 40°   | 3081.0 | 3024.8 | 2853.6 | 2438.3 | 1803.9 | 1055.9 | 470.0 | 58.2 | 4.9   | 6.2  | 9.7    |
| 41°   | 3065.0 | 3016.5 | 2870.9 | 2482.7 | 1835.1 | 1075.3 | 472.1 | 56.2 | 4.2   | 6.2  | 9.0    |
| 42°   | 3047.0 | 3002.6 | 2876.4 | 2506.2 | 1855.2 | 1081.5 | 466.6 | 53.4 | 4.2   | 5.5  | 9.0    |
| 43°   | 3028.3 | 2987.4 | 2876.4 | 2513.8 | 1860.1 | 1077.4 | 457.6 | 48.5 | 3.5   | 5.5  | 9.0    |
| 44°   | 3013.0 | 2974.2 | 2867.4 | 2511.8 | 1849.7 | 1061.4 | 440.9 | 43.0 | 2.8   | 5.5  | 9.0    |
| 45°   | 2995.0 | 2956.9 | 2855.6 | 2498.6 | 1829.6 | 1034.4 | 420.1 | 38.1 | 2.1   | 4.9  | 9.0    |
| 46°   | 2963.1 | 2933.3 | 2834.8 | 2471.6 | 1797.7 | 996.9  | 393.8 | 34.7 | 1.4   | 4.9  | 8.3    |
| 47°   | 2901.4 | 2875.7 | 2794.6 | 2431.3 | 1755.4 | 952.6  | 366.7 | 31.2 | 1.4   | 4.9  | 8.3    |
| 48°   | 2777.3 | 2776.6 | 2714.2 | 2356.5 | 1688.1 | 897.1  | 338.3 | 27.7 | 1.4   | 4.9  | 8.3    |
| 49°   | 2657.4 | 2644.9 | 2567.2 | 2224.7 | 1591.8 | 830.6  | 308.5 | 25.0 | 0.7   | 4.9  | 8.3    |
| 50°   | 2591.5 | 2564.5 | 2436.9 | 2069.5 | 1468.4 | 738.3  | 276.6 | 20.8 | 0.7   | 4.2  | 8.3    |
| 51°   | 2522.9 | 2484.0 | 2333.6 | 1929.4 | 1321.4 | 649.6  | 242.0 | 16.6 | 0.7   | 4.2  | 7.6    |
| 52°   | 2398.8 | 2362.0 | 2193.6 | 1795.6 | 1178.6 | 558.8  | 208.7 | 13.9 | 0.7   | 4.2  | 8.3    |
| 53°   | 2265.0 | 2212.3 | 2029.2 | 1648.6 | 1053.1 | 478.4  | 174.7 | 11.8 | 0.7   | 4.2  | 7.6    |
| 54°   | 2096.5 | 2072.9 | 1862.9 | 1468.4 | 906.1  | 400.7  | 143.5 | 9.7  | 0.7   | 4.2  | 7.6    |
| 55°   | 1937.7 | 1903.1 | 1684.7 | 1284.0 | 773.0  | 328.6  | 119.9 | 7.6  | 0.7   | 4.2  | 7.6    |
| 56°   | 1735.3 | 1683.3 | 1478.8 | 1114.8 | 637.8  | 264.8  | 101.2 | 6.2  | 0.7   | 4.2  | 7.6    |
| 57°   | 1494.0 | 1438.6 | 1277.0 | 926.9  | 500.6  | 201.7  | 84.6  | 4.9  | 0.7   | 4.2  | 7.6    |
| 58°   | 1263.9 | 1216.0 | 1042.7 | 715.5  | 377.1  | 140.0  | 70.0  | 3.5  | 0.7   | 3.5  | 7.6    |
| 59°   | 1091.9 | 1039.2 | 867.3  | 550.5  | 262.1  | 103.3  | 52.7  | 2.8  | 0.7   | 4.2  | 7.6    |
| 60°   | 945.6  | 877.7  | 698.1  | 426.4  | 187.2  | 74.2   | 38.8  | 1.4  | 1.4   | 4.2  | 7.6    |
| 62.5° | 544.9  | 481.1  | 333.5  | 173.3  | 77.0   | 38.1   | 18.7  | 0.7  | 1.4   | 4.2  | 7.6    |
| 65°   | 138.0  | 122.7  | 79.7   | 37.4   | 21.5   | 13.2   | 6.9   | 0.7  | 1.4   | 3.5  | 6.9    |



TEST NUMBER: P1345794

CATALOG NUMBER: P3A13R35W2N902750DE010 E3CA451MW\_2700K

**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 5°  | 10° | 15° | 20° | 25° | 30° | 45° | 67.5° | 90° | 112.5° |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|--------|
| 67.5° | 4.9 | 4.9 | 4.9 | 4.2 | 3.5 | 2.8 | 1.4 | 0.7 | 1.4   | 3.5 | 6.9    |
| 70°   | 2.1 | 2.1 | 2.1 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 1.4   | 3.5 | 6.2    |
| 72.5° | 1.4 | 1.4 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 0.7 | 2.1   | 3.5 | 5.5    |
| 75°   | 1.4 | 1.4 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 0.7 | 2.1   | 3.5 | 5.5    |
| 77.5° | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 2.1   | 2.8 | 4.9    |
| 80°   | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 2.1   | 2.8 | 4.2    |
| 82.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 2.1   | 2.8 | 3.5    |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.0 | 0.7 | 2.1   | 2.8 | 2.8    |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 2.1   | 2.8 | 2.1    |
| 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: P1345794

CATALOG NUMBER: P3A13R35W2N902750DE010 E3CA451MW\_2700K

**CANDELA DISTRIBUTION (continued):**

|       | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 0°    | 35.4 | 35.4   | 35.4 |
| 2.5°  | 33.3 | 33.3   | 33.3 |
| 5°    | 31.2 | 31.2   | 30.5 |
| 7.5°  | 29.1 | 28.4   | 28.4 |
| 10°   | 26.3 | 26.3   | 26.3 |
| 12.5° | 24.3 | 24.3   | 24.3 |
| 15°   | 22.2 | 22.9   | 22.9 |
| 17.5° | 20.1 | 21.5   | 21.5 |
| 20°   | 18.7 | 20.1   | 20.8 |
| 22.5° | 17.3 | 18.7   | 19.4 |
| 25°   | 16.6 | 18.0   | 18.7 |
| 27.5° | 15.3 | 17.3   | 18.7 |
| 30°   | 14.6 | 16.6   | 18.0 |
| 31°   | 14.6 | 16.6   | 17.3 |
| 32°   | 13.9 | 16.6   | 17.3 |
| 33°   | 13.9 | 16.6   | 17.3 |
| 34°   | 13.9 | 15.9   | 17.3 |
| 35°   | 13.2 | 15.9   | 16.6 |
| 36°   | 13.2 | 15.9   | 16.6 |
| 37°   | 13.2 | 15.9   | 17.3 |
| 38°   | 13.2 | 15.9   | 16.6 |
| 39°   | 12.5 | 15.9   | 16.6 |
| 40°   | 12.5 | 15.9   | 16.6 |
| 41°   | 12.5 | 15.9   | 16.6 |
| 42°   | 12.5 | 15.9   | 16.6 |
| 43°   | 12.5 | 15.9   | 16.6 |
| 44°   | 12.5 | 15.3   | 16.6 |
| 45°   | 12.5 | 15.3   | 16.6 |
| 46°   | 12.5 | 15.9   | 16.6 |
| 47°   | 12.5 | 15.9   | 17.3 |
| 48°   | 12.5 | 15.3   | 16.6 |
| 49°   | 11.8 | 15.3   | 16.6 |
| 50°   | 11.8 | 15.3   | 16.6 |
| 51°   | 11.8 | 15.9   | 17.3 |
| 52°   | 11.8 | 15.9   | 17.3 |
| 53°   | 11.8 | 15.9   | 17.3 |
| 54°   | 11.8 | 15.9   | 16.6 |
| 55°   | 11.8 | 15.9   | 17.3 |
| 56°   | 11.8 | 15.9   | 16.6 |
| 57°   | 11.8 | 15.9   | 16.6 |
| 58°   | 11.8 | 15.3   | 16.6 |
| 59°   | 11.8 | 15.3   | 16.6 |
| 60°   | 11.8 | 15.3   | 16.6 |
| 62.5° | 11.1 | 15.3   | 16.6 |
| 65°   | 11.1 | 14.6   | 15.9 |



TEST NUMBER: P1345794

CATALOG NUMBER: P3A13R35W2N902750DE010 E3CA451MW\_2700K

**CANDELA DISTRIBUTION (continued):**

|       | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 67.5° | 10.4 | 14.6   | 15.3 |
| 70°   | 9.7  | 13.9   | 14.6 |
| 72.5° | 9.0  | 13.2   | 13.9 |
| 75°   | 8.3  | 11.8   | 12.5 |
| 77.5° | 6.9  | 10.4   | 11.8 |
| 80°   | 6.2  | 9.0    | 9.7  |
| 82.5° | 4.9  | 7.6    | 8.3  |
| 85°   | 3.5  | 5.5    | 5.5  |
| 87.5° | 1.4  | 2.8    | 2.8  |
| 90°   | 0.0  | 0.0    | 0.0  |

(END OF REPORT)