

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: P1334265

Luminaire Tested: P3A02R15B2750DE010 E3A451WH\_3500K

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1334265  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-73)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A02R15B2750DE010 E3A451WH\_3500K  
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R15 optic, 3500K CCT AND, 80CRI , E3A451WH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

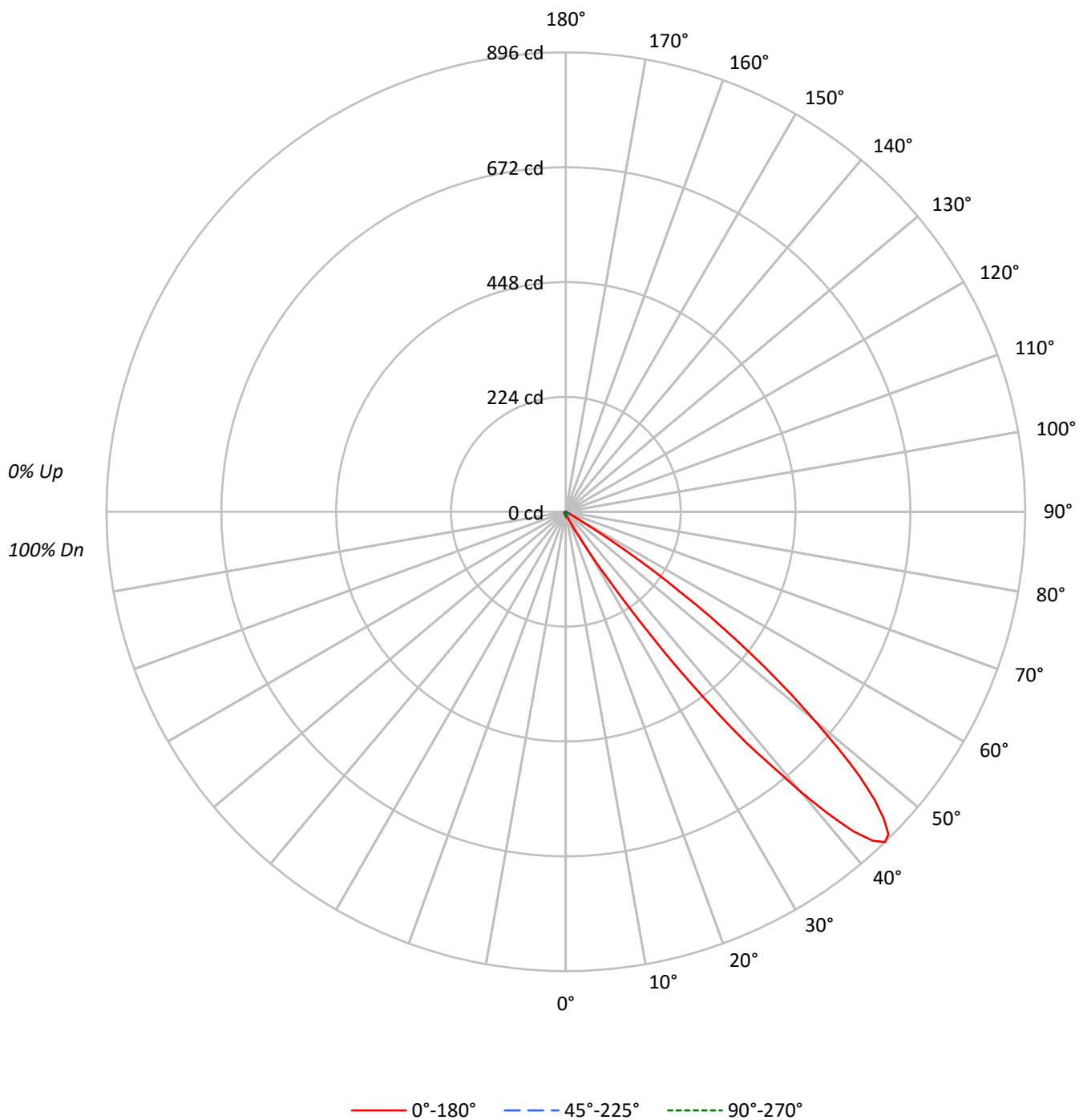
Lumens per Lamp: N/A  
Luminaire Lumens: 100.0 lumens  
Efficiency: N/A  
Efficacy: 34.5 lumens/watt  
Spacing Criteria (0/90/45): 3.26 / 0.47 / 1.08  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 2.9  
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: P1334265

CATALOG NUMBER: P3A02R15B2750DE010 E3A451WH\_3500K

### Luminous Intensity Polar Plot



TEST NUMBER: P1334265

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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   | 101 | 93  | 87  | 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  | 53  | 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  | 37  | 49  | 42  | 37  | 48  | 42  | 37  | 35  |    |    |
| 7   | 62  | 47  | 38  | 32  | 60  | 47  | 38  | 32  | 45  | 37  | 31  | 44  | 36  | 31  | 42  | 36  | 31  | 29  |    |    |
| 8   | 56  | 42  | 33  | 27  | 55  | 41  | 33  | 27  | 40  | 32  | 26  | 39  | 31  | 26  | 37  | 31  | 26  | 24  |    |    |
| 9   | 52  | 37  | 28  | 22  | 50  | 37  | 28  | 22  | 35  | 28  | 22  | 34  | 27  | 22  | 33  | 27  | 22  | 20  |    |    |
| 10  | 48  | 33  | 25  | 19  | 46  | 33  | 25  | 19  | 32  | 24  | 19  | 31  | 24  | 19  | 30  | 23  | 19  | 17  |    |    |

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

|     | 0°     | 45°  | 90°  | 135° | 180° |
|-----|--------|------|------|------|------|
| 0°  | 1952   | 1952 | 1952 | 1952 | 1952 |
| 5°  | 2421   | 2157 | 1761 | 1541 | 1519 |
| 10° | 2382   | 1848 | 1358 | 1202 | 1225 |
| 15° | 1975   | 1317 | 976  | 999  | 1067 |
| 20° | 3430   | 1050 | 747  | 863  | 980  |
| 25° | 7621   | 1258 | 605  | 798  | 919  |
| 30° | 22788  | 1545 | 532  | 785  | 962  |
| 35° | 87750  | 1740 | 482  | 803  | 1017 |
| 40° | 203696 | 1517 | 458  | 830  | 1088 |
| 45° | 275905 | 1147 | 403  | 899  | 1178 |
| 50° | 216351 | 682  | 409  | 955  | 1296 |
| 55° | 103834 | 306  | 382  | 1032 | 1415 |
| 60° | 9473   | 44   | 351  | 1096 | 1579 |
| 65° | 1038   | 0    | 311  | 1141 | 1712 |
| 70° | 256    | 0    | 385  | 1218 | 1859 |
| 75° | 254    | 85   | 508  | 1356 | 2118 |
| 80° | 253    | 253  | 631  | 1389 | 2273 |
| 85° | 252    | 252  | 1006 | 1258 | 2516 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 275905 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 0.8    | 0.8       |
| 10°-20°   | 1.6    | 1.6       |
| 20°-30°   | 3.8    | 3.8       |
| 30°-40°   | 20.7   | 20.7      |
| 40°-50°   | 50.1   | 50.1      |
| 50°-60°   | 20.0   | 20.0      |
| 60°-70°   | 1.7    | 1.7       |
| 70°-80°   | 1.0    | 1.0       |
| 80°-90°   | 0.4    | 0.4       |
| 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       |
| <hr/>     |        |           |
| 0°-30°    | 6.1    | 6.1       |
| 0°-40°    | 26.8   | 26.8      |
| 0°-60°    | 96.9   | 96.9      |
| 0°-90°    | 100.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 100.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 9   | 9   | 9   | 9    | 9    |      |
| 5°  | 11  | 10  | 8   | 7    | 7    | 1    |
| 15° | 9   | 6   | 4   | 4    | 5    | 3    |
| 25° | 32  | 5   | 2   | 3    | 4    | 19   |
| 35° | 328 | 6   | 2   | 3    | 4    | 232  |
| 45° | 890 | 4   | 1   | 3    | 4    | 628  |
| 55° | 272 | 1   | 1   | 3    | 4    | 253  |
| 65° | 2   | 0   | 1   | 2    | 3    | 5    |
| 75° | 0   | 0   | 1   | 2    | 2    | 0    |
| 85° | 0   | 0   | 0   | 0    | 1    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 2.5°  | 5°    | 7.5°  | 10°   | 12.5° | 15°   | 17.5° | 20°   | 22.5° | 45° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|
| 0°    | 8.9   | 8.9   | 8.9   | 8.9   | 8.9   | 8.9   | 8.9   | 8.9   | 8.9   | 8.9   | 8.9 |
| 2.5°  | 10.0  | 10.0  | 10.1  | 10.0  | 10.0  | 10.0  | 10.0  | 9.9   | 9.9   | 9.9   | 9.6 |
| 5°    | 11.0  | 11.0  | 11.0  | 11.0  | 10.9  | 10.9  | 10.9  | 10.8  | 10.8  | 10.7  | 9.8 |
| 7.5°  | 11.4  | 11.4  | 11.3  | 11.3  | 11.2  | 11.2  | 11.1  | 11.0  | 10.9  | 10.8  | 9.4 |
| 10°   | 10.7  | 10.7  | 10.7  | 10.6  | 10.6  | 10.5  | 10.4  | 10.3  | 10.2  | 10.0  | 8.3 |
| 12.5° | 9.5   | 9.5   | 9.6   | 9.5   | 9.4   | 9.3   | 9.1   | 9.0   | 8.9   | 8.7   | 6.9 |
| 15°   | 8.7   | 8.7   | 8.7   | 8.6   | 8.5   | 8.3   | 8.2   | 8.0   | 7.9   | 7.6   | 5.8 |
| 17.5° | 11.1  | 11.1  | 11.0  | 10.8  | 10.4  | 10.1  | 9.6   | 9.2   | 8.7   | 8.1   | 5.0 |
| 20°   | 14.7  | 14.7  | 14.5  | 14.3  | 13.8  | 13.3  | 12.5  | 11.8  | 11.0  | 10.3  | 4.5 |
| 22.5° | 21.2  | 21.5  | 20.9  | 20.2  | 19.5  | 18.3  | 17.2  | 16.2  | 14.8  | 13.6  | 4.6 |
| 25°   | 31.5  | 31.8  | 31.5  | 29.9  | 28.6  | 27.0  | 24.9  | 22.7  | 20.3  | 18.1  | 5.2 |
| 27.5° | 51.1  | 51.3  | 50.8  | 46.9  | 44.8  | 40.6  | 36.9  | 33.3  | 29.3  | 25.3  | 5.7 |
| 30°   | 90.0  | 90.1  | 86.9  | 79.2  | 72.3  | 63.1  | 55.3  | 47.9  | 41.6  | 35.2  | 6.1 |
| 31°   | 118.6 | 115.8 | 109.0 | 99.6  | 88.6  | 76.3  | 65.6  | 55.9  | 46.6  | 39.7  | 6.2 |
| 32°   | 150.6 | 150.2 | 138.9 | 122.6 | 108.0 | 92.5  | 76.5  | 64.1  | 53.3  | 44.0  | 6.3 |
| 33°   | 192.9 | 193.1 | 175.4 | 156.2 | 132.2 | 111.5 | 90.4  | 73.5  | 60.5  | 49.1  | 6.5 |
| 34°   | 259.1 | 243.6 | 222.8 | 196.8 | 164.1 | 132.9 | 105.6 | 84.4  | 67.0  | 53.9  | 6.5 |
| 35°   | 327.8 | 312.2 | 289.3 | 250.0 | 205.1 | 161.4 | 123.6 | 96.0  | 74.8  | 59.2  | 6.5 |
| 36°   | 404.8 | 391.6 | 356.9 | 306.7 | 249.5 | 188.4 | 142.8 | 109.5 | 82.5  | 64.0  | 6.4 |
| 37°   | 488.0 | 468.5 | 430.0 | 375.3 | 298.7 | 226.2 | 166.1 | 122.8 | 90.1  | 69.2  | 6.2 |
| 38°   | 572.4 | 554.9 | 506.3 | 440.0 | 357.6 | 266.2 | 189.4 | 135.7 | 97.2  | 73.1  | 5.9 |
| 39°   | 636.4 | 626.9 | 578.7 | 504.6 | 404.5 | 304.1 | 213.5 | 149.5 | 104.7 | 77.0  | 5.6 |
| 40°   | 711.6 | 696.2 | 650.5 | 558.9 | 460.1 | 342.7 | 237.0 | 161.6 | 110.9 | 80.1  | 5.3 |
| 41°   | 780.2 | 760.7 | 703.1 | 614.5 | 504.5 | 377.4 | 259.3 | 174.2 | 115.9 | 81.9  | 5.1 |
| 42°   | 839.1 | 816.3 | 756.1 | 662.2 | 541.7 | 405.1 | 277.2 | 183.2 | 120.5 | 83.4  | 4.8 |
| 43°   | 877.1 | 857.5 | 798.3 | 698.0 | 573.5 | 430.5 | 293.8 | 192.5 | 123.4 | 84.4  | 4.4 |
| 44°   | 895.7 | 875.8 | 818.5 | 720.4 | 593.1 | 445.8 | 304.6 | 199.0 | 126.6 | 85.7  | 4.1 |
| 45°   | 889.7 | 869.6 | 814.1 | 720.8 | 599.2 | 451.3 | 309.2 | 201.9 | 128.3 | 86.8  | 3.7 |
| 46°   | 862.3 | 848.1 | 792.3 | 702.1 | 587.6 | 445.4 | 306.6 | 199.7 | 127.7 | 86.8  | 3.3 |
| 47°   | 823.8 | 807.6 | 754.5 | 669.8 | 559.6 | 430.2 | 296.1 | 193.0 | 124.0 | 84.9  | 2.9 |
| 48°   | 771.4 | 757.6 | 701.8 | 618.7 | 516.6 | 397.2 | 272.5 | 182.2 | 118.3 | 81.0  | 2.5 |
| 49°   | 705.5 | 686.4 | 634.5 | 553.3 | 460.6 | 350.4 | 241.5 | 163.8 | 109.0 | 75.5  | 2.2 |
| 50°   | 634.2 | 610.5 | 570.4 | 487.8 | 402.6 | 300.4 | 200.7 | 138.5 | 95.9  | 68.3  | 2.0 |
| 51°   | 564.3 | 540.2 | 502.0 | 431.7 | 340.8 | 249.3 | 161.9 | 110.6 | 79.0  | 58.4  | 1.7 |
| 52°   | 491.8 | 471.6 | 428.9 | 373.6 | 291.7 | 202.0 | 134.9 | 93.5  | 65.6  | 49.1  | 1.4 |
| 53°   | 419.6 | 405.8 | 365.1 | 309.2 | 234.4 | 165.0 | 110.2 | 80.1  | 57.2  | 42.0  | 1.1 |
| 54°   | 347.3 | 332.2 | 301.3 | 251.5 | 188.9 | 130.2 | 93.4  | 67.0  | 49.7  | 36.6  | 1.0 |
| 55°   | 271.6 | 263.8 | 235.3 | 191.7 | 143.2 | 103.9 | 75.8  | 57.6  | 41.6  | 30.6  | 0.8 |
| 56°   | 209.2 | 200.4 | 174.4 | 139.1 | 106.4 | 81.4  | 61.3  | 47.1  | 35.2  | 25.6  | 0.6 |
| 57°   | 137.0 | 128.0 | 110.8 | 97.1  | 77.5  | 59.3  | 46.9  | 37.1  | 28.6  | 21.2  | 0.5 |
| 58°   | 81.0  | 72.8  | 70.1  | 59.8  | 51.6  | 40.3  | 34.6  | 27.6  | 21.1  | 16.8  | 0.3 |
| 59°   | 37.2  | 37.8  | 33.6  | 31.5  | 28.6  | 25.6  | 21.0  | 18.4  | 14.5  | 12.1  | 0.2 |
| 60°   | 21.6  | 20.4  | 19.9  | 17.8  | 15.9  | 14.1  | 12.7  | 11.2  | 9.1   | 7.8   | 0.1 |
| 62.5° | 7.4   | 7.1   | 7.3   | 6.6   | 6.2   | 6.0   | 5.5   | 4.7   | 3.9   | 3.2   | 0.0 |
| 65°   | 2.0   | 2.0   | 1.9   | 1.8   | 1.7   | 1.6   | 1.5   | 1.3   | 1.2   | 1.0   | 0.0 |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 2.5° | 5°  | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 45° |
|-------|-----|------|-----|------|-----|-------|-----|-------|-----|-------|-----|
| 67.5° | 0.7 | 0.7  | 0.6 | 0.6  | 0.5 | 0.5   | 0.4 | 0.4   | 0.3 | 0.3   | 0.0 |
| 70°   | 0.4 | 0.4  | 0.4 | 0.3  | 0.3 | 0.3   | 0.2 | 0.2   | 0.2 | 0.1   | 0.0 |
| 72.5° | 0.3 | 0.3  | 0.3 | 0.3  | 0.3 | 0.3   | 0.2 | 0.2   | 0.2 | 0.1   | 0.1 |
| 75°   | 0.3 | 0.3  | 0.3 | 0.2  | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2   | 0.1 |
| 77.5° | 0.2 | 0.2  | 0.2 | 0.2  | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 |
| 80°   | 0.2 | 0.2  | 0.2 | 0.2  | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.1   | 0.2 |
| 82.5° | 0.1 | 0.1  | 0.1 | 0.1  | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1   | 0.2 |
| 85°   | 0.1 | 0.1  | 0.1 | 0.1  | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.1 |
| 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):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 0°    | 8.9   | 8.9 | 8.9    | 8.9  | 8.9    | 8.9  |
| 2.5°  | 9.2   | 8.8 | 8.3    | 8.0  | 7.9    | 7.8  |
| 5°    | 8.8   | 8.0 | 7.4    | 7.0  | 6.9    | 6.9  |
| 7.5°  | 7.9   | 7.0 | 6.4    | 6.2  | 6.1    | 6.1  |
| 10°   | 6.9   | 6.1 | 5.6    | 5.4  | 5.5    | 5.5  |
| 12.5° | 5.8   | 5.1 | 4.9    | 4.9  | 5.0    | 5.1  |
| 15°   | 4.7   | 4.3 | 4.3    | 4.4  | 4.6    | 4.7  |
| 17.5° | 3.9   | 3.7 | 3.8    | 4.0  | 4.2    | 4.4  |
| 20°   | 3.2   | 3.2 | 3.4    | 3.7  | 4.0    | 4.2  |
| 22.5° | 2.7   | 2.8 | 3.1    | 3.4  | 3.8    | 4.0  |
| 25°   | 2.3   | 2.5 | 2.8    | 3.3  | 3.7    | 3.8  |
| 27.5° | 2.0   | 2.3 | 2.7    | 3.2  | 3.6    | 3.8  |
| 30°   | 1.7   | 2.1 | 2.6    | 3.1  | 3.6    | 3.8  |
| 31°   | 1.6   | 2.0 | 2.5    | 3.1  | 3.6    | 3.8  |
| 32°   | 1.5   | 2.0 | 2.5    | 3.1  | 3.6    | 3.8  |
| 33°   | 1.4   | 1.9 | 2.5    | 3.0  | 3.6    | 3.8  |
| 34°   | 1.3   | 1.9 | 2.5    | 3.1  | 3.6    | 3.8  |
| 35°   | 1.2   | 1.8 | 2.4    | 3.0  | 3.5    | 3.8  |
| 36°   | 1.1   | 1.8 | 2.4    | 3.0  | 3.6    | 3.8  |
| 37°   | 1.0   | 1.8 | 2.4    | 3.0  | 3.5    | 3.8  |
| 38°   | 1.0   | 1.7 | 2.3    | 3.0  | 3.5    | 3.8  |
| 39°   | 0.9   | 1.6 | 2.3    | 3.0  | 3.5    | 3.8  |
| 40°   | 0.8   | 1.6 | 2.2    | 2.9  | 3.5    | 3.8  |
| 41°   | 0.7   | 1.5 | 2.2    | 2.9  | 3.5    | 3.8  |
| 42°   | 0.6   | 1.5 | 2.2    | 2.9  | 3.5    | 3.8  |
| 43°   | 0.5   | 1.4 | 2.1    | 2.9  | 3.5    | 3.8  |
| 44°   | 0.5   | 1.4 | 2.1    | 2.9  | 3.5    | 3.8  |
| 45°   | 0.4   | 1.3 | 2.0    | 2.9  | 3.5    | 3.8  |
| 46°   | 0.4   | 1.3 | 2.0    | 2.8  | 3.5    | 3.8  |
| 47°   | 0.3   | 1.3 | 2.0    | 2.8  | 3.5    | 3.8  |
| 48°   | 0.3   | 1.2 | 2.0    | 2.8  | 3.5    | 3.8  |
| 49°   | 0.2   | 1.2 | 2.0    | 2.8  | 3.5    | 3.8  |
| 50°   | 0.2   | 1.2 | 1.9    | 2.8  | 3.5    | 3.8  |
| 51°   | 0.2   | 1.2 | 1.9    | 2.8  | 3.5    | 3.8  |
| 52°   | 0.2   | 1.1 | 1.9    | 2.8  | 3.5    | 3.8  |
| 53°   | 0.2   | 1.1 | 1.9    | 2.8  | 3.5    | 3.8  |
| 54°   | 0.2   | 1.1 | 1.8    | 2.8  | 3.5    | 3.8  |
| 55°   | 0.2   | 1.0 | 1.8    | 2.7  | 3.5    | 3.7  |
| 56°   | 0.2   | 1.0 | 1.8    | 2.7  | 3.5    | 3.7  |
| 57°   | 0.2   | 1.0 | 1.7    | 2.7  | 3.5    | 3.7  |
| 58°   | 0.2   | 0.9 | 1.7    | 2.6  | 3.4    | 3.7  |
| 59°   | 0.2   | 0.9 | 1.6    | 2.6  | 3.4    | 3.6  |
| 60°   | 0.2   | 0.8 | 1.6    | 2.5  | 3.3    | 3.6  |
| 62.5° | 0.2   | 0.7 | 1.4    | 2.4  | 3.2    | 3.4  |
| 65°   | 0.2   | 0.6 | 1.3    | 2.2  | 3.1    | 3.3  |



TEST NUMBER: P1334265

CATALOG NUMBER: P3A02R15B2750DE010 E3A451WH\_3500K

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 0.2   | 0.6 | 1.2    | 2.1  | 2.9    | 3.2  |
| 70°   | 0.2   | 0.6 | 1.1    | 1.9  | 2.8    | 2.9  |
| 72.5° | 0.3   | 0.6 | 1.0    | 1.8  | 2.6    | 2.7  |
| 75°   | 0.4   | 0.6 | 0.9    | 1.6  | 2.4    | 2.5  |
| 77.5° | 0.4   | 0.6 | 0.8    | 1.4  | 2.1    | 2.2  |
| 80°   | 0.4   | 0.5 | 0.7    | 1.1  | 1.7    | 1.8  |
| 82.5° | 0.4   | 0.5 | 0.5    | 0.9  | 1.3    | 1.4  |
| 85°   | 0.3   | 0.4 | 0.4    | 0.5  | 0.9    | 1.0  |
| 87.5° | 0.3   | 0.4 | 0.2    | 0.3  | 0.4    | 0.4  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)