

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: P1334579

Luminaire Tested: P3A02R20B2750DE010 E3A451LI\_3500K

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1334579  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-74)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A02R20B2750DE010 E3A451LI\_3500K  
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R20 optic, 3500K CCT AND, 80CRI , E3A451LI TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

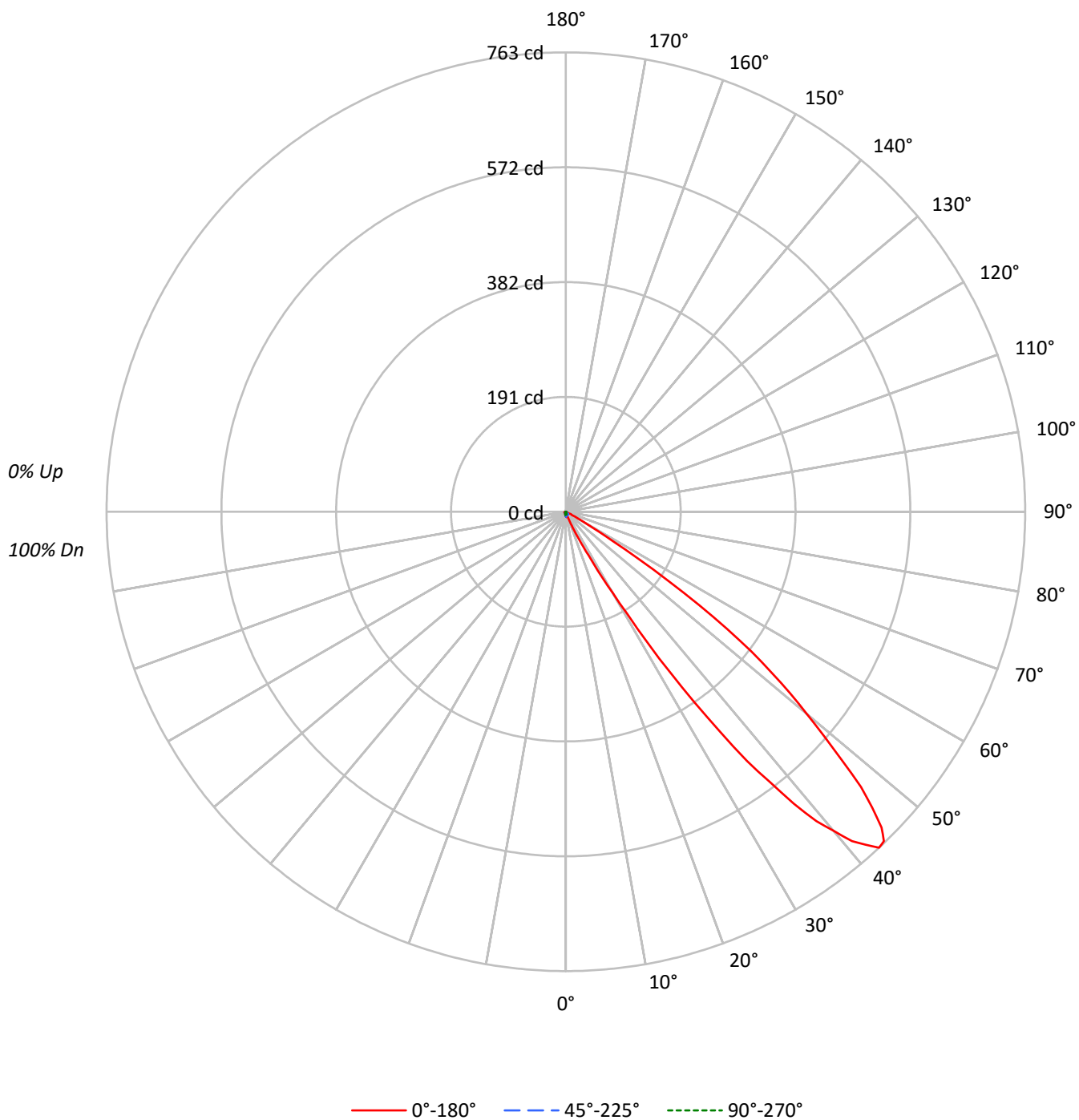
Lumens per Lamp: N/A  
Luminaire Lumens: 106.0 lumens  
Efficiency: N/A  
Efficacy: 36.6 lumens/watt  
Spacing Criteria (0/90/45): 3.39 / 0.51 / 1.13  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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: P1334579

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### Luminous Intensity Polar Plot



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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 |
| 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  | 108 | 104 | 101 | 97  | 100 | 97  | 94  | 96  | 94  | 92  | 92  | 91  | 89  | 87  |    |    |
| 2   | 101 | 93  | 87  | 82  | 98  | 91  | 86  | 81  | 88  | 83  | 79  | 85  | 81  | 77  | 82  | 78  | 75  | 73  |    |    |
| 3   | 92  | 81  | 74  | 67  | 89  | 80  | 73  | 67  | 77  | 71  | 66  | 74  | 69  | 65  | 72  | 67  | 63  | 61  |    |    |
| 4   | 83  | 71  | 62  | 56  | 81  | 70  | 62  | 55  | 67  | 60  | 55  | 65  | 59  | 54  | 63  | 58  | 53  | 51  |    |    |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 53  | 46  | 59  | 51  | 46  | 57  | 50  | 45  | 55  | 49  | 45  | 42  |    |    |
| 6   | 68  | 55  | 45  | 39  | 66  | 54  | 45  | 38  | 52  | 44  | 38  | 50  | 43  | 38  | 48  | 42  | 37  | 35  |    |    |
| 7   | 62  | 48  | 39  | 32  | 60  | 47  | 38  | 32  | 46  | 38  | 32  | 44  | 37  | 32  | 43  | 36  | 31  | 29  |    |    |
| 8   | 57  | 42  | 33  | 27  | 55  | 42  | 33  | 27  | 40  | 33  | 27  | 39  | 32  | 27  | 38  | 31  | 27  | 25  |    |    |
| 9   | 52  | 38  | 29  | 23  | 51  | 37  | 29  | 23  | 36  | 28  | 23  | 35  | 28  | 23  | 34  | 27  | 23  | 21  |    |    |
| 10  | 48  | 34  | 25  | 20  | 47  | 33  | 25  | 20  | 32  | 25  | 19  | 31  | 24  | 19  | 30  | 24  | 19  | 17  |    |    |

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

|     | 0°     | 45°  | 90°  | 135° | 180° |
|-----|--------|------|------|------|------|
| 0°  | 1623   | 1623 | 1623 | 1623 | 1623 |
| 5°  | 1893   | 1761 | 1519 | 1321 | 1277 |
| 10° | 1870   | 1603 | 1202 | 1024 | 1002 |
| 15° | 1635   | 1226 | 885  | 817  | 863  |
| 20° | 2427   | 1027 | 653  | 700  | 770  |
| 25° | 10404  | 1065 | 508  | 629  | 750  |
| 30° | 39373  | 1291 | 430  | 608  | 734  |
| 35° | 119364 | 1553 | 402  | 616  | 776  |
| 40° | 197914 | 1546 | 344  | 658  | 830  |
| 45° | 230039 | 1054 | 310  | 682  | 899  |
| 50° | 178587 | 580  | 307  | 716  | 1023 |
| 55° | 103375 | 382  | 306  | 803  | 1109 |
| 60° | 17455  | 88   | 263  | 833  | 1228 |
| 65° | 1349   | 0    | 311  | 934  | 1401 |
| 70° | 192    | 0    | 385  | 1026 | 1603 |
| 75° | 169    | 85   | 424  | 1186 | 1864 |
| 80° | 126    | 126  | 631  | 1263 | 2147 |
| 85° | 252    | 252  | 1006 | 1258 | 2264 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 230039 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 0.6    | 0.6       |
| 10°-20°   | 1.3    | 1.3       |
| 20°-30°   | 4.2    | 4.0       |
| 30°-40°   | 27.0   | 25.5      |
| 40°-50°   | 49.5   | 46.7      |
| 50°-60°   | 20.3   | 19.2      |
| 60°-70°   | 1.7    | 1.6       |
| 70°-80°   | 0.9    | 0.8       |
| 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°    | 6.2    | 5.9       |
| 0°-40°    | 33.2   | 31.3      |
| 0°-60°    | 103.1  | 97.2      |
| 0°-90°    | 106.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 106.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 7   | 7   | 7   | 7    | 7    |      |
| 5°  | 9   | 8   | 7   | 6    | 6    | 1    |
| 15° | 7   | 5   | 4   | 4    | 4    | 2    |
| 25° | 43  | 4   | 2   | 3    | 3    | 28   |
| 35° | 446 | 6   | 2   | 2    | 3    | 282  |
| 45° | 742 | 3   | 1   | 2    | 3    | 533  |
| 55° | 270 | 1   | 1   | 2    | 3    | 236  |
| 65° | 3   | 0   | 1   | 2    | 3    | 8    |
| 75° | 0   | 0   | 0   | 1    | 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°    | 7.4   | 7.4   | 7.4   | 7.4   | 7.4   | 7.4   | 7.4   | 7.4   | 7.4   | 7.4   | 7.4 |
| 2.5°  | 8.1   | 8.1   | 8.1   | 8.0   | 8.0   | 8.1   | 8.0   | 8.0   | 8.0   | 8.0   | 7.9 |
| 5°    | 8.6   | 8.6   | 8.6   | 8.6   | 8.6   | 8.6   | 8.6   | 8.5   | 8.5   | 8.4   | 8.0 |
| 7.5°  | 8.8   | 8.8   | 8.8   | 8.8   | 8.7   | 8.7   | 8.7   | 8.7   | 8.6   | 8.5   | 7.8 |
| 10°   | 8.4   | 8.4   | 8.4   | 8.3   | 8.3   | 8.3   | 8.2   | 8.2   | 8.1   | 8.0   | 7.2 |
| 12.5° | 7.6   | 7.6   | 7.6   | 7.6   | 7.5   | 7.5   | 7.4   | 7.4   | 7.3   | 7.2   | 6.3 |
| 15°   | 7.2   | 7.2   | 7.2   | 7.1   | 7.1   | 7.0   | 6.9   | 6.8   | 6.7   | 6.5   | 5.4 |
| 17.5° | 7.8   | 7.8   | 7.7   | 7.7   | 7.5   | 7.3   | 7.2   | 6.9   | 6.7   | 6.4   | 4.8 |
| 20°   | 10.4  | 10.5  | 10.1  | 9.8   | 9.6   | 9.0   | 8.7   | 8.2   | 7.8   | 7.3   | 4.4 |
| 22.5° | 20.9  | 20.5  | 19.8  | 18.7  | 17.4  | 16.3  | 14.3  | 12.8  | 11.7  | 10.2  | 4.3 |
| 25°   | 43.0  | 42.6  | 40.7  | 39.1  | 35.2  | 32.1  | 27.8  | 24.3  | 20.7  | 17.2  | 4.4 |
| 27.5° | 81.8  | 79.1  | 78.6  | 71.3  | 65.7  | 57.8  | 49.5  | 42.5  | 36.2  | 29.1  | 4.7 |
| 30°   | 155.5 | 152.4 | 141.6 | 130.6 | 115.6 | 98.5  | 82.3  | 67.1  | 54.5  | 43.0  | 5.1 |
| 31°   | 197.3 | 200.3 | 187.6 | 165.6 | 143.3 | 121.5 | 99.3  | 80.1  | 63.8  | 49.5  | 5.3 |
| 32°   | 259.4 | 246.3 | 232.9 | 210.3 | 178.0 | 150.1 | 122.2 | 94.5  | 73.0  | 56.5  | 5.5 |
| 33°   | 318.1 | 310.4 | 289.9 | 261.7 | 222.9 | 183.8 | 147.6 | 111.6 | 84.4  | 64.9  | 5.6 |
| 34°   | 380.6 | 372.2 | 355.5 | 315.1 | 272.5 | 221.2 | 173.0 | 131.2 | 97.9  | 73.2  | 5.7 |
| 35°   | 445.9 | 442.3 | 410.2 | 375.2 | 322.9 | 261.0 | 203.6 | 152.7 | 111.2 | 80.8  | 5.8 |
| 36°   | 511.5 | 500.0 | 474.9 | 423.7 | 369.1 | 297.7 | 235.7 | 172.7 | 124.6 | 89.8  | 5.8 |
| 37°   | 560.9 | 558.3 | 525.1 | 475.2 | 411.0 | 337.0 | 263.4 | 194.9 | 138.2 | 97.4  | 5.8 |
| 38°   | 615.4 | 605.2 | 571.4 | 520.6 | 450.5 | 373.0 | 292.4 | 214.3 | 151.0 | 104.4 | 5.7 |
| 39°   | 661.3 | 646.1 | 612.0 | 561.8 | 484.9 | 400.3 | 315.4 | 233.0 | 162.4 | 110.2 | 5.6 |
| 40°   | 691.4 | 680.9 | 645.3 | 588.8 | 516.2 | 426.1 | 338.7 | 248.4 | 170.8 | 114.6 | 5.4 |
| 41°   | 724.6 | 707.1 | 671.9 | 615.1 | 538.9 | 448.8 | 353.3 | 258.6 | 177.4 | 117.4 | 5.2 |
| 42°   | 744.4 | 730.1 | 688.3 | 632.8 | 555.2 | 461.7 | 365.3 | 266.4 | 181.4 | 118.9 | 4.8 |
| 43°   | 763.0 | 743.4 | 702.8 | 643.0 | 565.9 | 470.9 | 370.8 | 270.0 | 182.3 | 118.9 | 4.3 |
| 44°   | 760.5 | 741.9 | 699.8 | 644.4 | 568.3 | 473.6 | 373.1 | 270.1 | 180.9 | 117.4 | 3.8 |
| 45°   | 741.8 | 723.4 | 685.5 | 632.3 | 559.7 | 468.3 | 368.5 | 266.1 | 177.0 | 114.9 | 3.4 |
| 46°   | 707.7 | 689.3 | 660.2 | 611.9 | 543.8 | 456.3 | 357.8 | 257.4 | 170.5 | 110.7 | 3.0 |
| 47°   | 670.5 | 652.7 | 622.9 | 579.2 | 516.6 | 435.0 | 342.4 | 245.3 | 161.5 | 104.6 | 2.7 |
| 48°   | 616.6 | 605.5 | 575.6 | 538.2 | 478.8 | 401.6 | 315.3 | 225.4 | 149.3 | 96.7  | 2.3 |
| 49°   | 569.0 | 557.2 | 531.0 | 490.9 | 429.6 | 362.8 | 282.9 | 201.3 | 133.5 | 88.0  | 2.0 |
| 50°   | 523.5 | 513.2 | 489.0 | 443.7 | 385.2 | 315.9 | 239.2 | 170.9 | 113.6 | 77.1  | 1.7 |
| 51°   | 478.9 | 471.3 | 446.6 | 404.9 | 345.6 | 279.8 | 207.2 | 142.4 | 93.8  | 64.0  | 1.6 |
| 52°   | 434.2 | 433.3 | 406.5 | 364.4 | 307.0 | 243.9 | 176.1 | 120.1 | 79.6  | 53.7  | 1.5 |
| 53°   | 386.1 | 380.3 | 356.9 | 319.1 | 264.0 | 206.4 | 149.3 | 101.3 | 68.5  | 45.7  | 1.3 |
| 54°   | 331.3 | 324.8 | 299.7 | 265.6 | 215.7 | 169.0 | 120.3 | 81.9  | 57.1  | 38.7  | 1.2 |
| 55°   | 270.4 | 259.3 | 241.1 | 206.0 | 168.4 | 129.0 | 92.9  | 64.8  | 45.6  | 32.2  | 1.0 |
| 56°   | 205.1 | 194.1 | 183.8 | 158.0 | 123.6 | 96.2  | 69.2  | 49.7  | 35.7  | 25.4  | 0.9 |
| 57°   | 142.6 | 142.1 | 125.2 | 105.4 | 82.7  | 65.5  | 47.4  | 35.1  | 25.2  | 19.7  | 0.7 |
| 58°   | 92.5  | 89.5  | 78.7  | 67.2  | 54.1  | 40.9  | 30.5  | 23.8  | 17.1  | 13.4  | 0.6 |
| 59°   | 64.8  | 58.7  | 52.9  | 44.8  | 34.1  | 25.8  | 19.6  | 15.2  | 11.9  | 9.4   | 0.4 |
| 60°   | 39.8  | 38.6  | 34.7  | 27.3  | 22.1  | 18.2  | 14.6  | 11.3  | 8.7   | 6.7   | 0.2 |
| 62.5° | 11.4  | 11.6  | 10.5  | 9.3   | 8.0   | 6.9   | 6.2   | 5.3   | 4.4   | 3.5   | 0.0 |
| 65°   | 2.6   | 2.5   | 2.7   | 2.5   | 2.3   | 2.3   | 2.0   | 1.8   | 1.6   | 1.5   | 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° | 0.8 | 0.8  | 0.7 | 0.7  | 0.7 | 0.6   | 0.6 | 0.5   | 0.5 | 0.4   | 0.0 |
| 70°   | 0.3 | 0.3  | 0.3 | 0.3  | 0.3 | 0.2   | 0.2 | 0.2   | 0.1 | 0.1   | 0.0 |
| 72.5° | 0.3 | 0.3  | 0.3 | 0.2  | 0.2 | 0.2   | 0.2 | 0.2   | 0.1 | 0.1   | 0.1 |
| 75°   | 0.2 | 0.2  | 0.2 | 0.2  | 0.2 | 0.2   | 0.2 | 0.1   | 0.1 | 0.1   | 0.1 |
| 77.5° | 0.2 | 0.2  | 0.2 | 0.2  | 0.2 | 0.1   | 0.2 | 0.1   | 0.1 | 0.1   | 0.1 |
| 80°   | 0.1 | 0.1  | 0.1 | 0.1  | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 |
| 82.5° | 0.1 | 0.1  | 0.1 | 0.1  | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 |
| 85°   | 0.1 | 0.1  | 0.1 | 0.1  | 0.0 | 0.0   | 0.1 | 0.1   | 0.1 | 0.0   | 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°    | 7.4   | 7.4 | 7.4    | 7.4  | 7.4    | 7.4  |
| 2.5°  | 7.7   | 7.3 | 7.0    | 6.7  | 6.6    | 6.6  |
| 5°    | 7.5   | 6.9 | 6.3    | 6.0  | 5.8    | 5.8  |
| 7.5°  | 6.9   | 6.2 | 5.6    | 5.3  | 5.2    | 5.2  |
| 10°   | 6.2   | 5.4 | 4.8    | 4.6  | 4.6    | 4.5  |
| 12.5° | 5.4   | 4.6 | 4.2    | 4.1  | 4.1    | 4.1  |
| 15°   | 4.5   | 3.9 | 3.6    | 3.6  | 3.7    | 3.8  |
| 17.5° | 3.8   | 3.2 | 3.1    | 3.3  | 3.5    | 3.5  |
| 20°   | 3.2   | 2.8 | 2.8    | 3.0  | 3.2    | 3.3  |
| 22.5° | 2.7   | 2.4 | 2.5    | 2.8  | 3.1    | 3.2  |
| 25°   | 2.4   | 2.1 | 2.3    | 2.6  | 2.9    | 3.1  |
| 27.5° | 2.0   | 1.9 | 2.1    | 2.5  | 2.9    | 3.0  |
| 30°   | 1.7   | 1.7 | 2.0    | 2.4  | 2.8    | 2.9  |
| 31°   | 1.6   | 1.6 | 2.0    | 2.4  | 2.8    | 2.9  |
| 32°   | 1.5   | 1.6 | 1.9    | 2.4  | 2.8    | 2.9  |
| 33°   | 1.4   | 1.5 | 1.9    | 2.3  | 2.8    | 2.9  |
| 34°   | 1.3   | 1.5 | 1.9    | 2.3  | 2.8    | 2.9  |
| 35°   | 1.2   | 1.5 | 1.9    | 2.3  | 2.8    | 2.9  |
| 36°   | 1.1   | 1.4 | 1.8    | 2.3  | 2.8    | 2.9  |
| 37°   | 1.0   | 1.4 | 1.8    | 2.3  | 2.8    | 2.9  |
| 38°   | 0.9   | 1.3 | 1.8    | 2.3  | 2.8    | 2.9  |
| 39°   | 0.9   | 1.3 | 1.7    | 2.3  | 2.7    | 2.9  |
| 40°   | 0.8   | 1.2 | 1.7    | 2.3  | 2.7    | 2.9  |
| 41°   | 0.7   | 1.2 | 1.7    | 2.2  | 2.7    | 2.9  |
| 42°   | 0.6   | 1.1 | 1.6    | 2.2  | 2.7    | 2.9  |
| 43°   | 0.5   | 1.1 | 1.6    | 2.2  | 2.7    | 2.9  |
| 44°   | 0.5   | 1.0 | 1.6    | 2.2  | 2.7    | 2.9  |
| 45°   | 0.4   | 1.0 | 1.6    | 2.2  | 2.7    | 2.9  |
| 46°   | 0.3   | 1.0 | 1.6    | 2.2  | 2.7    | 2.9  |
| 47°   | 0.3   | 0.9 | 1.5    | 2.2  | 2.7    | 2.9  |
| 48°   | 0.2   | 0.9 | 1.5    | 2.2  | 2.7    | 2.9  |
| 49°   | 0.2   | 0.9 | 1.5    | 2.2  | 2.7    | 3.0  |
| 50°   | 0.2   | 0.9 | 1.5    | 2.1  | 2.7    | 3.0  |
| 51°   | 0.1   | 0.9 | 1.5    | 2.1  | 2.7    | 3.0  |
| 52°   | 0.1   | 0.9 | 1.4    | 2.1  | 2.8    | 3.0  |
| 53°   | 0.1   | 0.8 | 1.4    | 2.1  | 2.8    | 3.0  |
| 54°   | 0.1   | 0.8 | 1.4    | 2.1  | 2.8    | 2.9  |
| 55°   | 0.1   | 0.8 | 1.4    | 2.1  | 2.7    | 2.9  |
| 56°   | 0.1   | 0.7 | 1.4    | 2.1  | 2.7    | 2.9  |
| 57°   | 0.1   | 0.7 | 1.3    | 2.0  | 2.7    | 2.8  |
| 58°   | 0.1   | 0.7 | 1.3    | 2.0  | 2.7    | 2.8  |
| 59°   | 0.1   | 0.7 | 1.3    | 2.0  | 2.6    | 2.8  |
| 60°   | 0.2   | 0.6 | 1.2    | 1.9  | 2.6    | 2.8  |
| 62.5° | 0.2   | 0.6 | 1.2    | 1.9  | 2.5    | 2.7  |
| 65°   | 0.2   | 0.6 | 1.1    | 1.8  | 2.5    | 2.7  |



TEST NUMBER: P1334579

CATALOG NUMBER: P3A02R20B2750DE010 E3A451LI\_3500K

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 0.2   | 0.5 | 1.0    | 1.7  | 2.4    | 2.6  |
| 70°   | 0.2   | 0.6 | 1.0    | 1.6  | 2.3    | 2.5  |
| 72.5° | 0.3   | 0.5 | 0.9    | 1.5  | 2.2    | 2.4  |
| 75°   | 0.3   | 0.5 | 0.9    | 1.4  | 2.1    | 2.2  |
| 77.5° | 0.4   | 0.5 | 0.8    | 1.2  | 1.9    | 2.0  |
| 80°   | 0.4   | 0.5 | 0.7    | 1.0  | 1.6    | 1.7  |
| 82.5° | 0.4   | 0.5 | 0.5    | 0.8  | 1.2    | 1.3  |
| 85°   | 0.3   | 0.4 | 0.4    | 0.5  | 0.8    | 0.9  |
| 87.5° | 0.3   | 0.4 | 0.3    | 0.2  | 0.4    | 0.4  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)