

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: P1334608

Luminaire Tested: P3A02R20B2750DE010 E3CA451MMS\_3000K

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1334608  
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 E3CA451MMS\_3000K  
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R20 optic, 3000K CCT AND, 90CRI , E3CA451MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

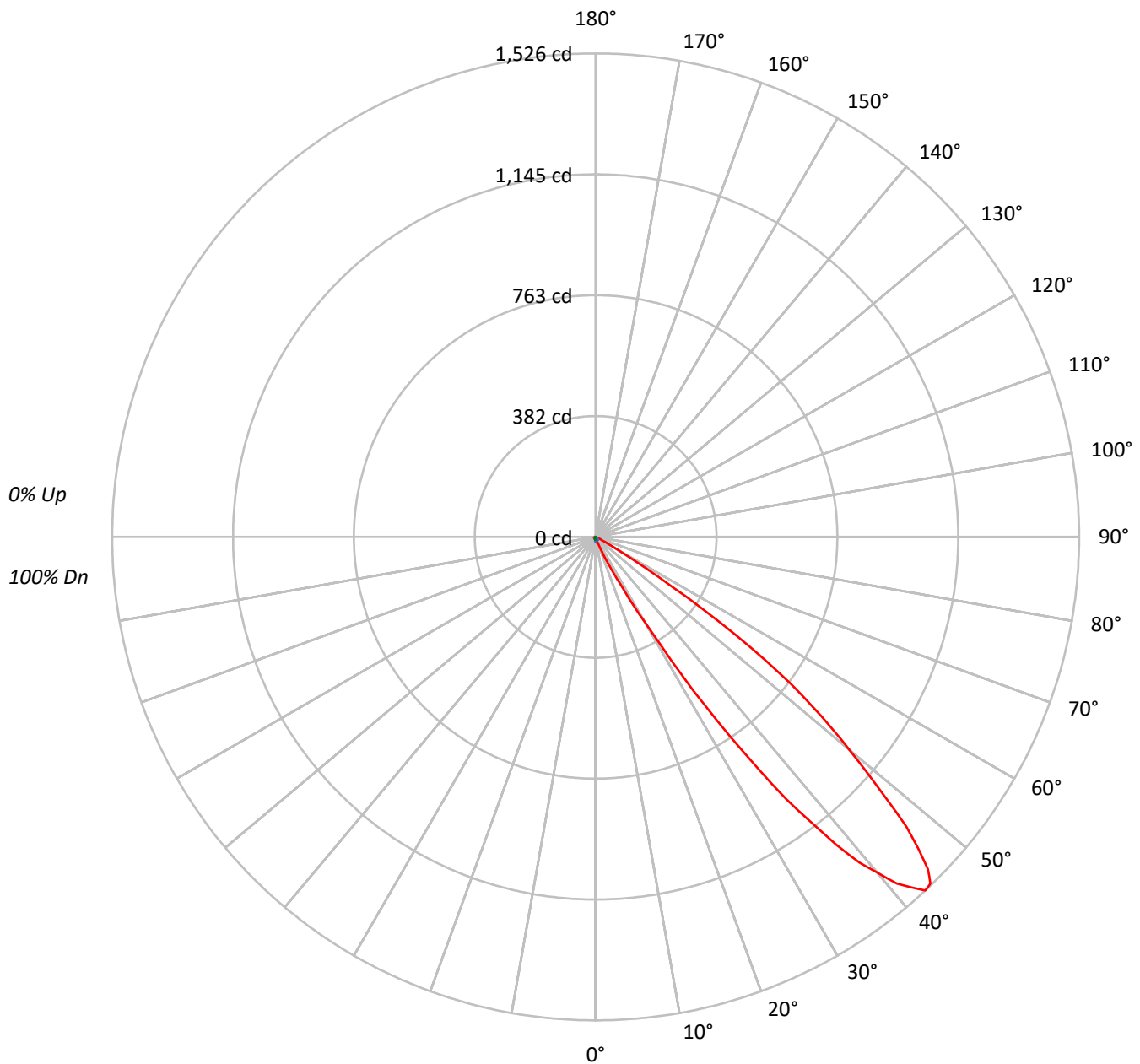
Lumens per Lamp: N/A  
Luminaire Lumens: 212.1 lumens  
Efficiency: N/A  
Efficacy: 73.1 lumens/watt  
Spacing Criteria (0/90/45): 3.39 / 0.52 / 1.14  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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

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### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - - - 90°-270°

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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|
| RF  | 20  |     |     |     | 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 | 0  |
| 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°  | 3223   | 3223 | 3223 | 3223 | 3223 |
| 5°  | 3764   | 3500 | 3016 | 2641 | 2553 |
| 10° | 3718   | 3184 | 2405 | 2049 | 2004 |
| 15° | 3246   | 2452 | 1771 | 1635 | 1725 |
| 20° | 4830   | 2054 | 1307 | 1400 | 1540 |
| 25° | 20832  | 2129 | 1016 | 1258 | 1500 |
| 30° | 78746  | 2583 | 861  | 1215 | 1469 |
| 35° | 238728 | 3105 | 803  | 1231 | 1553 |
| 40° | 395856 | 3092 | 687  | 1317 | 1660 |
| 45° | 460110 | 2109 | 620  | 1364 | 1799 |
| 50° | 357174 | 1160 | 614  | 1433 | 2047 |
| 55° | 206712 | 765  | 612  | 1606 | 2217 |
| 60° | 34953  | 175  | 526  | 1667 | 2456 |
| 65° | 2698   | 0    | 623  | 1868 | 2802 |
| 70° | 385    | 0    | 769  | 2052 | 3206 |
| 75° | 339    | 169  | 847  | 2372 | 3728 |
| 80° | 253    | 253  | 1263 | 2526 | 4293 |
| 85° | 503    | 503  | 2013 | 2516 | 4529 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 460110 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.3    | 0.6       |
| 10°-20°   | 2.7    | 1.3       |
| 20°-30°   | 8.5    | 4.0       |
| 30°-40°   | 54.1   | 25.5      |
| 40°-50°   | 99.0   | 46.7      |
| 50°-60°   | 40.7   | 19.2      |
| 60°-70°   | 3.4    | 1.6       |
| 70°-80°   | 1.7    | 0.8       |
| 80°-90°   | 0.8    | 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       |
| 0°-30°    | 12.4   | 5.8       |
| 0°-40°    | 66.5   | 31.3      |
| 0°-60°    | 206.1  | 97.2      |
| 0°-90°    | 212.1  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 212.1  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 15   | 15  | 15  | 15   | 15   |      |
| 5°  | 17   | 16  | 14  | 12   | 12   | 2    |
| 15° | 14   | 11  | 8   | 7    | 8    | 5    |
| 25° | 86   | 9   | 4   | 5    | 6    | 57   |
| 35° | 892  | 12  | 3   | 5    | 6    | 564  |
| 45° | 1484 | 7   | 2   | 4    | 6    | 1065 |
| 55° | 541  | 2   | 2   | 4    | 6    | 473  |
| 65° | 5    | 0   | 1   | 4    | 5    | 17   |
| 75° | 0    | 0   | 1   | 3    | 4    | 0    |
| 85° | 0    | 0   | 1   | 1    | 2    | 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°    | 14.7   | 14.7   | 14.7   | 14.7   | 14.7   | 14.7  | 14.7  | 14.7  | 14.7  | 14.7  | 14.7 |
| 2.5°  | 16.1   | 16.1   | 16.1   | 15.9   | 15.9   | 16.1  | 15.9  | 15.9  | 15.9  | 15.9  | 15.7 |
| 5°    | 17.1   | 17.1   | 17.1   | 17.1   | 17.1   | 17.1  | 17.1  | 16.9  | 16.9  | 16.7  | 15.9 |
| 7.5°  | 17.5   | 17.5   | 17.5   | 17.5   | 17.3   | 17.3  | 17.3  | 17.3  | 17.1  | 16.9  | 15.5 |
| 10°   | 16.7   | 16.7   | 16.7   | 16.5   | 16.5   | 16.5  | 16.3  | 16.3  | 16.1  | 15.9  | 14.3 |
| 12.5° | 15.1   | 15.1   | 15.1   | 15.1   | 14.9   | 14.9  | 14.7  | 14.7  | 14.5  | 14.3  | 12.6 |
| 15°   | 14.3   | 14.3   | 14.3   | 14.1   | 14.1   | 13.9  | 13.7  | 13.5  | 13.3  | 12.9  | 10.8 |
| 17.5° | 15.5   | 15.5   | 15.3   | 15.3   | 14.9   | 14.5  | 14.3  | 13.7  | 13.3  | 12.8  | 9.6  |
| 20°   | 20.7   | 20.9   | 20.1   | 19.5   | 19.1   | 17.9  | 17.3  | 16.3  | 15.5  | 14.5  | 8.8  |
| 22.5° | 41.8   | 41.0   | 39.6   | 37.5   | 34.9   | 32.7  | 28.7  | 25.5  | 23.3  | 20.3  | 8.6  |
| 25°   | 86.1   | 85.3   | 81.5   | 78.3   | 70.3   | 64.2  | 55.6  | 48.6  | 41.4  | 34.5  | 8.8  |
| 27.5° | 163.6  | 158.2  | 157.2  | 142.6  | 131.5  | 115.6 | 99.0  | 85.1  | 72.3  | 58.2  | 9.4  |
| 30°   | 311.0  | 304.8  | 283.1  | 261.2  | 231.1  | 197.0 | 164.6 | 134.3 | 109.0 | 86.1  | 10.2 |
| 31°   | 394.7  | 400.7  | 375.2  | 331.1  | 286.7  | 243.1 | 198.6 | 160.2 | 127.5 | 99.0  | 10.6 |
| 32°   | 518.8  | 492.7  | 465.8  | 420.6  | 356.0  | 300.2 | 244.5 | 189.1 | 146.0 | 113.0 | 11.0 |
| 33°   | 636.1  | 620.8  | 579.8  | 523.4  | 445.9  | 367.6 | 295.3 | 223.1 | 168.7 | 129.9 | 11.2 |
| 34°   | 761.3  | 744.3  | 711.1  | 630.2  | 545.1  | 442.5 | 346.1 | 262.4 | 195.8 | 146.4 | 11.4 |
| 35°   | 891.8  | 884.6  | 820.4  | 750.3  | 645.7  | 522.0 | 407.2 | 305.4 | 222.3 | 161.6 | 11.6 |
| 36°   | 1023.0 | 999.9  | 949.7  | 847.3  | 738.1  | 595.5 | 471.4 | 345.5 | 249.2 | 179.5 | 11.6 |
| 37°   | 1121.9 | 1116.7 | 1050.1 | 950.3  | 822.0  | 674.0 | 526.8 | 389.9 | 276.3 | 194.8 | 11.6 |
| 38°   | 1230.8 | 1210.3 | 1142.8 | 1041.2 | 900.9  | 745.9 | 584.7 | 428.5 | 302.0 | 208.8 | 11.4 |
| 39°   | 1322.7 | 1292.2 | 1224.1 | 1123.7 | 969.9  | 800.5 | 630.8 | 466.0 | 324.7 | 220.3 | 11.2 |
| 40°   | 1382.9 | 1361.7 | 1290.6 | 1177.6 | 1032.4 | 852.1 | 677.4 | 496.9 | 341.7 | 229.1 | 10.8 |
| 41°   | 1449.2 | 1414.1 | 1343.8 | 1230.2 | 1077.8 | 897.5 | 706.7 | 517.2 | 354.8 | 234.9 | 10.4 |
| 42°   | 1488.8 | 1460.2 | 1376.7 | 1265.5 | 1110.3 | 923.4 | 730.6 | 532.7 | 362.8 | 237.9 | 9.6  |
| 43°   | 1525.9 | 1486.9 | 1405.6 | 1286.0 | 1131.8 | 941.8 | 741.5 | 539.9 | 364.6 | 237.9 | 8.6  |
| 44°   | 1520.9 | 1483.9 | 1399.6 | 1288.8 | 1136.6 | 947.1 | 746.1 | 540.1 | 361.8 | 234.9 | 7.6  |
| 45°   | 1483.7 | 1446.8 | 1370.9 | 1264.5 | 1119.5 | 936.6 | 737.0 | 532.1 | 354.0 | 229.7 | 6.8  |
| 46°   | 1415.3 | 1378.7 | 1320.5 | 1223.9 | 1087.6 | 912.7 | 715.6 | 514.8 | 341.1 | 221.3 | 6.0  |
| 47°   | 1341.0 | 1305.4 | 1245.8 | 1158.3 | 1033.2 | 870.0 | 684.8 | 490.5 | 323.0 | 209.2 | 5.4  |
| 48°   | 1233.2 | 1210.9 | 1151.2 | 1076.4 | 957.7  | 803.3 | 630.6 | 450.9 | 298.6 | 193.5 | 4.6  |
| 49°   | 1138.0 | 1114.5 | 1062.1 | 981.8  | 859.3  | 725.6 | 565.8 | 402.6 | 267.0 | 175.9 | 4.0  |
| 50°   | 1047.0 | 1026.4 | 978.0  | 887.4  | 770.4  | 631.8 | 478.4 | 341.9 | 227.1 | 154.2 | 3.4  |
| 51°   | 957.9  | 942.6  | 893.1  | 809.9  | 691.1  | 559.6 | 414.4 | 284.7 | 187.7 | 127.9 | 3.2  |
| 52°   | 868.4  | 866.7  | 813.1  | 728.8  | 614.0  | 487.7 | 352.2 | 240.3 | 159.2 | 107.4 | 3.0  |
| 53°   | 772.2  | 760.7  | 713.8  | 638.1  | 528.0  | 412.8 | 298.6 | 202.6 | 137.1 | 91.4  | 2.6  |
| 54°   | 662.6  | 649.7  | 599.5  | 531.1  | 431.3  | 338.1 | 240.7 | 163.8 | 114.2 | 77.3  | 2.4  |
| 55°   | 540.7  | 518.6  | 482.1  | 412.0  | 336.9  | 258.0 | 185.9 | 129.7 | 91.2  | 64.4  | 2.0  |
| 56°   | 410.2  | 388.1  | 367.6  | 316.0  | 247.2  | 192.5 | 138.5 | 99.4  | 71.3  | 50.8  | 1.8  |
| 57°   | 285.3  | 284.1  | 250.4  | 210.8  | 165.4  | 131.1 | 94.8  | 70.1  | 50.4  | 39.4  | 1.4  |
| 58°   | 185.1  | 178.9  | 157.4  | 134.5  | 108.2  | 81.9  | 61.0  | 47.6  | 34.3  | 26.9  | 1.2  |
| 59°   | 129.7  | 117.3  | 105.8  | 89.7   | 68.1   | 51.6  | 39.2  | 30.5  | 23.7  | 18.7  | 0.8  |
| 60°   | 79.7   | 77.1   | 69.3   | 54.6   | 44.2   | 36.5  | 29.3  | 22.5  | 17.3  | 13.3  | 0.4  |
| 62.5° | 22.7   | 23.1   | 20.9   | 18.5   | 15.9   | 13.7  | 12.4  | 10.6  | 8.8   | 7.0   | 0.0  |
| 65°   | 5.2    | 5.0    | 5.4    | 5.0    | 4.6    | 4.6   | 4.0   | 3.6   | 3.2   | 3.0   | 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° | 1.6 | 1.6  | 1.4 | 1.4  | 1.4 | 1.2   | 1.2 | 1.0   | 1.0 | 0.8   | 0.0 |
| 70°   | 0.6 | 0.6  | 0.6 | 0.6  | 0.6 | 0.4   | 0.4 | 0.4   | 0.2 | 0.2   | 0.0 |
| 72.5° | 0.6 | 0.6  | 0.6 | 0.4  | 0.4 | 0.4   | 0.4 | 0.4   | 0.2 | 0.2   | 0.2 |
| 75°   | 0.4 | 0.4  | 0.4 | 0.4  | 0.4 | 0.4   | 0.4 | 0.2   | 0.2 | 0.2   | 0.2 |
| 77.5° | 0.4 | 0.4  | 0.4 | 0.4  | 0.4 | 0.2   | 0.4 | 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 | 0.2   | 0.2 |
| 82.5° | 0.2 | 0.2  | 0.2 | 0.2  | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 |
| 85°   | 0.2 | 0.2  | 0.2 | 0.2  | 0.0 | 0.0   | 0.2 | 0.2   | 0.2 | 0.0   | 0.2 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.2 |
| 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°    | 14.7  | 14.7 | 14.7   | 14.7 | 14.7   | 14.7 |
| 2.5°  | 15.3  | 14.5 | 13.9   | 13.3 | 13.1   | 13.1 |
| 5°    | 14.9  | 13.7 | 12.6   | 12.0 | 11.6   | 11.6 |
| 7.5°  | 13.7  | 12.4 | 11.2   | 10.6 | 10.4   | 10.4 |
| 10°   | 12.4  | 10.8 | 9.6    | 9.2  | 9.2    | 9.0  |
| 12.5° | 10.8  | 9.2  | 8.4    | 8.2  | 8.2    | 8.2  |
| 15°   | 9.0   | 7.8  | 7.2    | 7.2  | 7.4    | 7.6  |
| 17.5° | 7.6   | 6.4  | 6.2    | 6.6  | 7.0    | 7.0  |
| 20°   | 6.4   | 5.6  | 5.6    | 6.0  | 6.4    | 6.6  |
| 22.5° | 5.4   | 4.8  | 5.0    | 5.6  | 6.2    | 6.4  |
| 25°   | 4.8   | 4.2  | 4.6    | 5.2  | 5.8    | 6.2  |
| 27.5° | 4.0   | 3.8  | 4.2    | 5.0  | 5.8    | 6.0  |
| 30°   | 3.4   | 3.4  | 4.0    | 4.8  | 5.6    | 5.8  |
| 31°   | 3.2   | 3.2  | 4.0    | 4.8  | 5.6    | 5.8  |
| 32°   | 3.0   | 3.2  | 3.8    | 4.8  | 5.6    | 5.8  |
| 33°   | 2.8   | 3.0  | 3.8    | 4.6  | 5.6    | 5.8  |
| 34°   | 2.6   | 3.0  | 3.8    | 4.6  | 5.6    | 5.8  |
| 35°   | 2.4   | 3.0  | 3.8    | 4.6  | 5.6    | 5.8  |
| 36°   | 2.2   | 2.8  | 3.6    | 4.6  | 5.6    | 5.8  |
| 37°   | 2.0   | 2.8  | 3.6    | 4.6  | 5.6    | 5.8  |
| 38°   | 1.8   | 2.6  | 3.6    | 4.6  | 5.6    | 5.8  |
| 39°   | 1.8   | 2.6  | 3.4    | 4.6  | 5.4    | 5.8  |
| 40°   | 1.6   | 2.4  | 3.4    | 4.6  | 5.4    | 5.8  |
| 41°   | 1.4   | 2.4  | 3.4    | 4.4  | 5.4    | 5.8  |
| 42°   | 1.2   | 2.2  | 3.2    | 4.4  | 5.4    | 5.8  |
| 43°   | 1.0   | 2.2  | 3.2    | 4.4  | 5.4    | 5.8  |
| 44°   | 1.0   | 2.0  | 3.2    | 4.4  | 5.4    | 5.8  |
| 45°   | 0.8   | 2.0  | 3.2    | 4.4  | 5.4    | 5.8  |
| 46°   | 0.6   | 2.0  | 3.2    | 4.4  | 5.4    | 5.8  |
| 47°   | 0.6   | 1.8  | 3.0    | 4.4  | 5.4    | 5.8  |
| 48°   | 0.4   | 1.8  | 3.0    | 4.4  | 5.4    | 5.8  |
| 49°   | 0.4   | 1.8  | 3.0    | 4.4  | 5.4    | 6.0  |
| 50°   | 0.4   | 1.8  | 3.0    | 4.2  | 5.4    | 6.0  |
| 51°   | 0.2   | 1.8  | 3.0    | 4.2  | 5.4    | 6.0  |
| 52°   | 0.2   | 1.8  | 2.8    | 4.2  | 5.6    | 6.0  |
| 53°   | 0.2   | 1.6  | 2.8    | 4.2  | 5.6    | 6.0  |
| 54°   | 0.2   | 1.6  | 2.8    | 4.2  | 5.6    | 5.8  |
| 55°   | 0.2   | 1.6  | 2.8    | 4.2  | 5.4    | 5.8  |
| 56°   | 0.2   | 1.4  | 2.8    | 4.2  | 5.4    | 5.8  |
| 57°   | 0.2   | 1.4  | 2.6    | 4.0  | 5.4    | 5.6  |
| 58°   | 0.2   | 1.4  | 2.6    | 4.0  | 5.4    | 5.6  |
| 59°   | 0.2   | 1.4  | 2.6    | 4.0  | 5.2    | 5.6  |
| 60°   | 0.4   | 1.2  | 2.4    | 3.8  | 5.2    | 5.6  |
| 62.5° | 0.4   | 1.2  | 2.4    | 3.8  | 5.0    | 5.4  |
| 65°   | 0.4   | 1.2  | 2.2    | 3.6  | 5.0    | 5.4  |



TEST NUMBER: P1334608

CATALOG NUMBER: P3A02R20B2750DE010 E3CA451MMS\_3000K

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 0.4   | 1.0 | 2.0    | 3.4  | 4.8    | 5.2  |
| 70°   | 0.4   | 1.2 | 2.0    | 3.2  | 4.6    | 5.0  |
| 72.5° | 0.6   | 1.0 | 1.8    | 3.0  | 4.4    | 4.8  |
| 75°   | 0.6   | 1.0 | 1.8    | 2.8  | 4.2    | 4.4  |
| 77.5° | 0.8   | 1.0 | 1.6    | 2.4  | 3.8    | 4.0  |
| 80°   | 0.8   | 1.0 | 1.4    | 2.0  | 3.2    | 3.4  |
| 82.5° | 0.8   | 1.0 | 1.0    | 1.6  | 2.4    | 2.6  |
| 85°   | 0.6   | 0.8 | 0.8    | 1.0  | 1.6    | 1.8  |
| 87.5° | 0.6   | 0.8 | 0.6    | 0.4  | 0.8    | 0.8  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)