

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: P1335932

Luminaire Tested: P3A02R40B2750DE010 E3CA451MB\_3500K

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1335932  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-78)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A02R40B2750DE010 E3CA451MB\_3500K  
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R40 optic, 3500K CCT AND, 80CRI , E3CA451MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

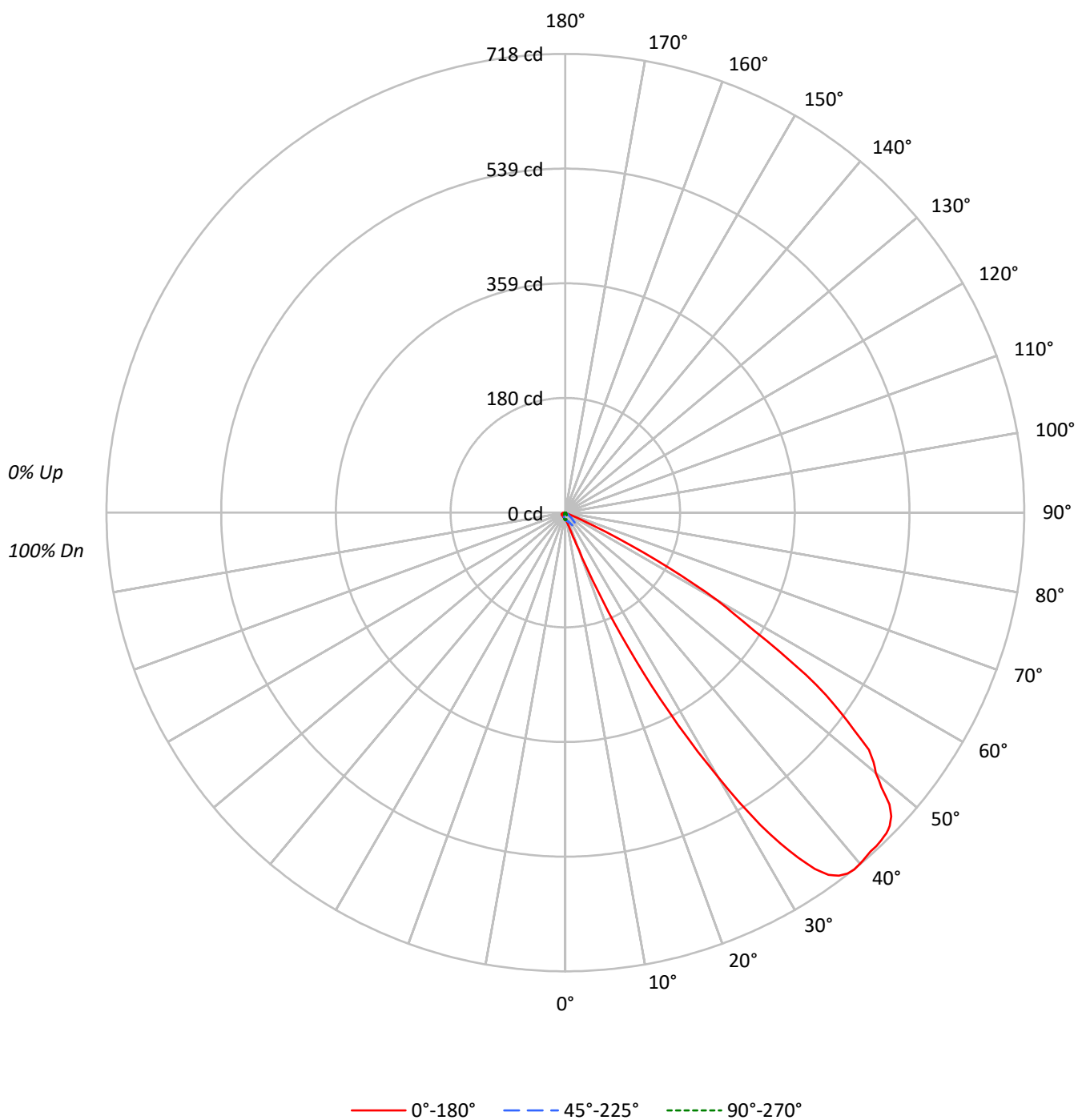
Lumens per Lamp: N/A  
Luminaire Lumens: 222.0 lumens  
Efficiency: N/A  
Efficacy: 76.5 lumens/watt  
Spacing Criteria (0/90/45): 3.99 / 0.73 / 1.55  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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: P1335932

CATALOG NUMBER: P3A02R40B2750DE010 E3CA451MB\_3500K

### 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  | 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  | 107 | 104 | 100 | 97  | 99  | 97  | 94  |  | 96  | 93  | 91  |  | 92  | 90  | 88  | 86  |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 82  | 78  |  | 84  | 80  | 76  |  | 81  | 78  | 75  | 72  |
| 3   | 91  | 81  | 73  | 66  | 89  | 79  | 72  | 66  | 76  | 70  | 65  |  | 73  | 68  | 64  |  | 71  | 66  | 62  | 60  |
| 4   | 82  | 70  | 62  | 55  | 80  | 69  | 61  | 54  | 67  | 59  | 54  |  | 64  | 58  | 53  |  | 62  | 57  | 52  | 50  |
| 5   | 75  | 62  | 52  | 46  | 73  | 60  | 52  | 45  | 58  | 51  | 45  |  | 56  | 50  | 44  |  | 54  | 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  | 39  | 32  | 60  | 47  | 38  | 32  | 45  | 37  | 32  |  | 44  | 37  | 31  |  | 42  | 36  | 31  | 29  |
| 8   | 57  | 42  | 33  | 27  | 55  | 42  | 33  | 27  | 40  | 32  | 27  |  | 39  | 32  | 27  |  | 38  | 31  | 26  | 24  |
| 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  | 20  |  | 31  | 24  | 20  |  | 30  | 24  | 19  | 18  |

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

|     | 0°     | 45°  | 90°  | 135° | 180° |
|-----|--------|------|------|------|------|
| 0°  | 2500   | 2500 | 2500 | 2500 | 2500 |
| 5°  | 2773   | 2685 | 2465 | 2245 | 2201 |
| 10° | 3362   | 2850 | 2271 | 2049 | 2004 |
| 15° | 5516   | 3110 | 1952 | 1816 | 1862 |
| 20° | 14561  | 3664 | 1610 | 1610 | 1750 |
| 25° | 56132  | 4549 | 1282 | 1476 | 1718 |
| 30° | 121107 | 6052 | 1038 | 1443 | 1696 |
| 35° | 182272 | 7147 | 883  | 1419 | 1740 |
| 40° | 205356 | 7185 | 773  | 1460 | 1861 |
| 45° | 220209 | 5551 | 682  | 1520 | 2016 |
| 50° | 216453 | 3480 | 614  | 1603 | 2217 |
| 55° | 190426 | 1720 | 612  | 1797 | 2485 |
| 60° | 120517 | 351  | 702  | 1974 | 2763 |
| 65° | 24646  | 104  | 726  | 2127 | 3061 |
| 70° | 513    | 128  | 769  | 2372 | 3526 |
| 75° | 508    | 339  | 847  | 2626 | 3982 |
| 80° | 505    | 253  | 1010 | 2778 | 4672 |
| 85° | 503    | 503  | 2013 | 3019 | 5032 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 47°

Luminance: 224201 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.1    | 0.5       |
| 10°-20°   | 3.5    | 1.6       |
| 20°-30°   | 17.2   | 7.8       |
| 30°-40°   | 56.1   | 25.3      |
| 40°-50°   | 77.3   | 34.8      |
| 50°-60°   | 53.9   | 24.3      |
| 60°-70°   | 10.2   | 4.6       |
| 70°-80°   | 1.8    | 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°    | 21.8   | 9.8       |
| 0°-40°    | 77.9   | 35.1      |
| 0°-60°    | 209.1  | 94.2      |
| 0°-90°    | 222.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 222.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 11  | 11  | 11  | 11   | 11   |      |
| 5°  | 13  | 12  | 11  | 10   | 10   | 1    |
| 15° | 24  | 14  | 9   | 8    | 8    | 9    |
| 25° | 232 | 19  | 5   | 6    | 7    | 119  |
| 35° | 681 | 27  | 3   | 5    | 6    | 411  |
| 45° | 710 | 18  | 2   | 5    | 6    | 540  |
| 55° | 498 | 4   | 2   | 5    | 6    | 426  |
| 65° | 48  | 0   | 1   | 4    | 6    | 84   |
| 75° | 1   | 0   | 1   | 3    | 5    | 1    |
| 85° | 0   | 0   | 1   | 1    | 2    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°  | 45°  | 67.5° | 90°  |
|-------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|------|
| 0°    | 11.4  | 11.4  | 11.4  | 11.4  | 11.4  | 11.4  | 11.4  | 11.4 | 11.4 | 11.4  | 11.4 |
| 2.5°  | 11.8  | 11.8  | 11.8  | 11.8  | 11.8  | 11.8  | 11.8  | 11.8 | 11.8 | 11.6  | 11.4 |
| 5°    | 12.6  | 12.6  | 12.6  | 12.6  | 12.4  | 12.4  | 12.4  | 12.2 | 12.2 | 11.8  | 11.2 |
| 7.5°  | 13.5  | 13.5  | 13.5  | 13.5  | 13.3  | 13.0  | 12.8  | 12.8 | 12.6 | 11.6  | 10.8 |
| 10°   | 15.1  | 15.1  | 14.9  | 14.7  | 14.5  | 14.1  | 13.9  | 13.5 | 12.8 | 11.4  | 10.2 |
| 12.5° | 18.3  | 17.9  | 17.7  | 17.3  | 16.7  | 15.9  | 15.1  | 14.5 | 13.0 | 11.0  | 9.6  |
| 15°   | 24.3  | 23.9  | 23.0  | 21.8  | 20.6  | 19.0  | 17.5  | 16.1 | 13.7 | 10.4  | 8.6  |
| 17.5° | 34.7  | 33.4  | 32.2  | 30.2  | 27.1  | 24.3  | 21.2  | 18.6 | 14.5 | 9.8   | 7.7  |
| 20°   | 62.4  | 61.6  | 54.2  | 48.5  | 39.3  | 32.8  | 26.7  | 22.2 | 15.7 | 9.2   | 6.9  |
| 22.5° | 128.6 | 120.1 | 108.1 | 88.5  | 68.9  | 50.8  | 36.9  | 27.9 | 16.9 | 8.4   | 6.1  |
| 25°   | 232.0 | 218.6 | 192.7 | 154.9 | 114.4 | 80.9  | 53.4  | 36.5 | 18.8 | 7.5   | 5.3  |
| 27.5° | 351.3 | 337.6 | 297.5 | 245.5 | 179.2 | 122.1 | 76.2  | 48.3 | 21.2 | 6.7   | 4.7  |
| 30°   | 478.3 | 466.7 | 415.7 | 343.7 | 252.6 | 171.1 | 102.1 | 60.3 | 23.9 | 5.9   | 4.1  |
| 31°   | 529.5 | 514.6 | 459.5 | 382.9 | 287.1 | 191.2 | 112.5 | 65.4 | 24.9 | 5.7   | 3.9  |
| 32°   | 576.6 | 559.6 | 502.6 | 420.4 | 315.0 | 213.1 | 124.0 | 69.9 | 25.7 | 5.3   | 3.7  |
| 33°   | 617.1 | 597.4 | 542.3 | 455.9 | 345.8 | 233.4 | 135.8 | 74.2 | 26.3 | 4.9   | 3.5  |
| 34°   | 651.6 | 634.5 | 575.3 | 491.5 | 373.1 | 253.0 | 147.4 | 78.5 | 26.7 | 4.7   | 3.3  |
| 35°   | 680.9 | 665.5 | 606.9 | 518.7 | 399.8 | 272.0 | 158.0 | 82.6 | 26.7 | 4.3   | 3.3  |
| 36°   | 700.7 | 687.3 | 634.3 | 546.4 | 422.2 | 288.1 | 167.0 | 86.2 | 26.7 | 3.9   | 3.1  |
| 37°   | 711.5 | 698.5 | 652.2 | 569.2 | 444.2 | 304.0 | 175.1 | 89.1 | 26.5 | 3.7   | 2.9  |
| 38°   | 717.0 | 705.6 | 665.5 | 587.8 | 459.5 | 315.4 | 182.3 | 91.3 | 26.3 | 3.3   | 2.9  |
| 39°   | 718.5 | 708.9 | 673.8 | 601.2 | 474.4 | 326.8 | 187.4 | 92.6 | 25.7 | 3.1   | 2.7  |
| 40°   | 717.4 | 709.1 | 678.3 | 613.3 | 485.8 | 335.8 | 191.0 | 93.0 | 25.1 | 2.7   | 2.7  |
| 41°   | 715.4 | 708.9 | 681.6 | 621.6 | 495.0 | 341.5 | 192.5 | 92.2 | 24.3 | 2.2   | 2.4  |
| 42°   | 713.6 | 706.4 | 683.0 | 627.3 | 501.3 | 344.3 | 192.3 | 90.5 | 23.0 | 2.0   | 2.4  |
| 43°   | 713.6 | 705.4 | 683.2 | 631.0 | 504.4 | 344.6 | 189.8 | 87.5 | 21.4 | 1.8   | 2.2  |
| 44°   | 712.3 | 704.8 | 684.2 | 633.4 | 505.2 | 342.7 | 185.9 | 84.2 | 19.6 | 1.6   | 2.2  |
| 45°   | 710.1 | 702.1 | 684.0 | 633.6 | 503.8 | 338.2 | 179.6 | 79.9 | 17.9 | 1.2   | 2.2  |
| 46°   | 705.8 | 698.7 | 682.2 | 632.2 | 499.5 | 331.7 | 172.1 | 75.6 | 16.1 | 1.0   | 2.0  |
| 47°   | 697.3 | 691.8 | 677.3 | 627.3 | 493.0 | 322.1 | 163.1 | 70.7 | 14.7 | 0.8   | 2.0  |
| 48°   | 682.6 | 678.7 | 668.9 | 616.5 | 480.5 | 310.3 | 153.5 | 65.4 | 13.3 | 0.8   | 2.0  |
| 49°   | 655.7 | 652.6 | 646.9 | 599.2 | 464.6 | 295.8 | 143.1 | 59.5 | 11.8 | 0.6   | 2.0  |
| 50°   | 634.5 | 631.2 | 619.6 | 570.0 | 441.8 | 277.5 | 131.7 | 53.6 | 10.2 | 0.4   | 1.8  |
| 51°   | 620.4 | 615.1 | 596.7 | 536.2 | 408.6 | 253.0 | 119.3 | 47.7 | 8.6  | 0.4   | 1.8  |
| 52°   | 602.7 | 594.7 | 571.9 | 505.8 | 378.2 | 228.5 | 105.8 | 41.8 | 7.5  | 0.4   | 1.8  |
| 53°   | 565.6 | 562.7 | 540.1 | 473.2 | 347.8 | 205.1 | 91.9  | 36.9 | 6.5  | 0.4   | 1.8  |
| 54°   | 533.1 | 528.9 | 498.1 | 427.9 | 314.8 | 179.0 | 77.7  | 32.6 | 5.5  | 0.4   | 1.8  |
| 55°   | 498.1 | 489.7 | 462.4 | 389.8 | 276.0 | 154.9 | 64.0  | 28.1 | 4.5  | 0.4   | 1.6  |
| 56°   | 453.8 | 446.5 | 417.1 | 349.0 | 240.4 | 130.5 | 53.6  | 23.0 | 3.5  | 0.4   | 1.6  |
| 57°   | 400.0 | 393.3 | 370.6 | 298.9 | 203.3 | 106.6 | 43.6  | 18.6 | 2.7  | 0.4   | 1.6  |
| 58°   | 348.0 | 340.5 | 314.6 | 250.8 | 164.1 | 84.6  | 36.5  | 15.1 | 2.0  | 0.4   | 1.6  |
| 59°   | 308.1 | 297.9 | 264.4 | 210.6 | 128.4 | 64.2  | 29.0  | 12.0 | 1.4  | 0.4   | 1.6  |
| 60°   | 274.8 | 266.5 | 231.8 | 175.3 | 100.7 | 47.3  | 21.4  | 9.2  | 0.8  | 0.4   | 1.6  |
| 62.5° | 159.2 | 157.0 | 125.8 | 90.3  | 47.5  | 22.0  | 10.6  | 4.3  | 0.4  | 0.6   | 1.6  |
| 65°   | 47.5  | 41.4  | 32.2  | 19.2  | 12.2  | 7.3   | 3.9   | 1.4  | 0.2  | 0.6   | 1.4  |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 5°  | 10° | 15° | 20° | 25° | 30° | 35° | 45° | 67.5° | 90° |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|
| 67.5° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 0.8 | 0.4 | 0.2 | 0.6   | 1.4 |
| 70°   | 0.8 | 0.6 | 0.6 | 0.6 | 0.6 | 0.4 | 0.4 | 0.2 | 0.2 | 0.6   | 1.2 |
| 72.5° | 0.6 | 0.6 | 0.6 | 0.6 | 0.4 | 0.4 | 0.4 | 0.2 | 0.4 | 0.6   | 1.0 |
| 75°   | 0.6 | 0.4 | 0.4 | 0.4 | 0.4 | 0.2 | 0.2 | 0.2 | 0.4 | 0.6   | 1.0 |
| 77.5° | 0.4 | 0.4 | 0.4 | 0.4 | 0.2 | 0.2 | 0.2 | 0.2 | 0.4 | 0.6   | 1.0 |
| 80°   | 0.4 | 0.4 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.6   | 0.8 |
| 82.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.6   | 0.8 |
| 85°   | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.6   | 0.8 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.6   | 0.6 |
| 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: P1335932

CATALOG NUMBER: P3A02R40B2750DE010 E3CA451MB\_3500K

**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 0°    | 11.4   | 11.4 | 11.4   | 11.4 |
| 2.5°  | 11.0   | 10.8 | 10.6   | 10.6 |
| 5°    | 10.6   | 10.2 | 10.2   | 10.0 |
| 7.5°  | 10.0   | 9.6  | 9.6    | 9.6  |
| 10°   | 9.4    | 9.2  | 9.2    | 9.0  |
| 12.5° | 8.6    | 8.6  | 8.6    | 8.6  |
| 15°   | 8.0    | 8.0  | 8.2    | 8.2  |
| 17.5° | 7.1    | 7.3  | 7.7    | 8.0  |
| 20°   | 6.5    | 6.9  | 7.3    | 7.5  |
| 22.5° | 6.1    | 6.5  | 7.1    | 7.3  |
| 25°   | 5.5    | 6.1  | 6.9    | 7.1  |
| 27.5° | 5.1    | 5.9  | 6.5    | 6.9  |
| 30°   | 4.7    | 5.7  | 6.3    | 6.7  |
| 31°   | 4.7    | 5.5  | 6.3    | 6.7  |
| 32°   | 4.5    | 5.3  | 6.3    | 6.5  |
| 33°   | 4.5    | 5.3  | 6.3    | 6.5  |
| 34°   | 4.3    | 5.3  | 6.1    | 6.5  |
| 35°   | 4.3    | 5.3  | 6.1    | 6.5  |
| 36°   | 4.1    | 5.1  | 6.1    | 6.5  |
| 37°   | 4.1    | 5.1  | 6.1    | 6.5  |
| 38°   | 3.9    | 5.1  | 6.1    | 6.5  |
| 39°   | 3.9    | 5.1  | 6.1    | 6.5  |
| 40°   | 3.9    | 5.1  | 6.1    | 6.5  |
| 41°   | 3.7    | 5.1  | 6.1    | 6.5  |
| 42°   | 3.7    | 5.1  | 6.1    | 6.5  |
| 43°   | 3.7    | 4.9  | 6.1    | 6.5  |
| 44°   | 3.7    | 4.9  | 6.1    | 6.5  |
| 45°   | 3.5    | 4.9  | 6.1    | 6.5  |
| 46°   | 3.5    | 4.9  | 6.1    | 6.5  |
| 47°   | 3.5    | 4.9  | 6.1    | 6.5  |
| 48°   | 3.5    | 4.9  | 6.1    | 6.5  |
| 49°   | 3.5    | 4.9  | 6.1    | 6.5  |
| 50°   | 3.3    | 4.7  | 6.1    | 6.5  |
| 51°   | 3.3    | 4.7  | 6.1    | 6.5  |
| 52°   | 3.3    | 4.7  | 6.1    | 6.5  |
| 53°   | 3.3    | 4.7  | 6.1    | 6.5  |
| 54°   | 3.1    | 4.7  | 6.1    | 6.5  |
| 55°   | 3.1    | 4.7  | 6.1    | 6.5  |
| 56°   | 3.1    | 4.7  | 6.1    | 6.3  |
| 57°   | 3.1    | 4.7  | 5.9    | 6.3  |
| 58°   | 3.1    | 4.5  | 5.9    | 6.3  |
| 59°   | 3.1    | 4.5  | 5.9    | 6.3  |
| 60°   | 3.1    | 4.5  | 5.9    | 6.3  |
| 62.5° | 2.9    | 4.5  | 5.7    | 6.1  |
| 65°   | 2.7    | 4.1  | 5.7    | 5.9  |



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CATALOG NUMBER: P3A02R40B2750DE010 E3CA451MB\_3500K

**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 67.5° | 2.7    | 3.9  | 5.3    | 5.7  |
| 70°   | 2.4    | 3.7  | 5.1    | 5.5  |
| 72.5° | 2.0    | 3.5  | 4.7    | 5.1  |
| 75°   | 1.8    | 3.1  | 4.3    | 4.7  |
| 77.5° | 1.6    | 2.7  | 3.9    | 4.1  |
| 80°   | 1.4    | 2.2  | 3.3    | 3.7  |
| 82.5° | 1.0    | 1.6  | 2.7    | 2.9  |
| 85°   | 0.8    | 1.2  | 1.8    | 2.0  |
| 87.5° | 0.6    | 0.6  | 1.0    | 1.0  |
| 90°   | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)