

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: P1335921

Luminaire Tested: P3A02R40B2750DE010 E3A451WMH\_3000K

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1335921  
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 E3A451WMH\_3000K  
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R40 optic, 3000K CCT AND, 90CRI , E3A451WMH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

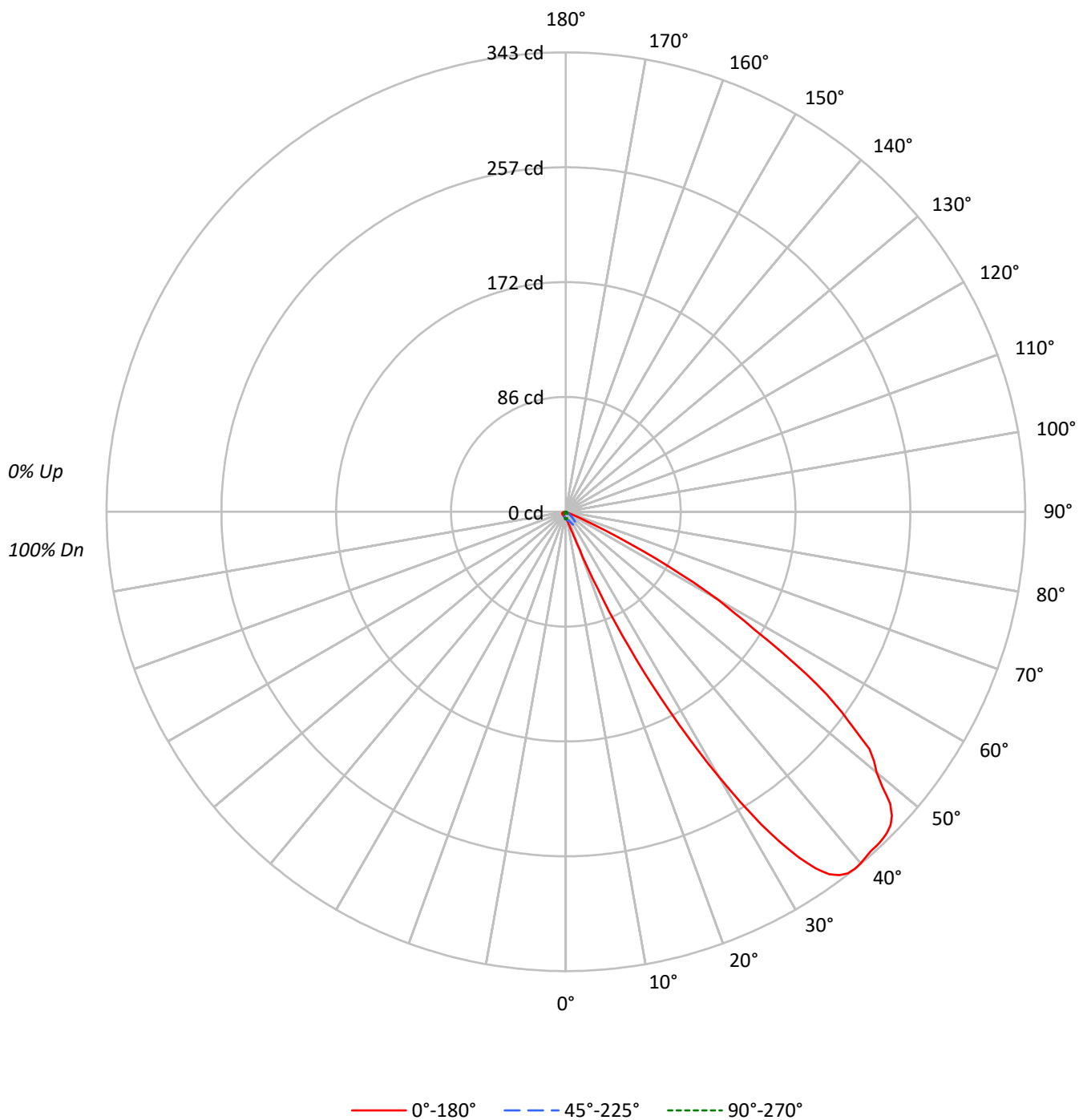
Lumens per Lamp: N/A  
Luminaire Lumens: 106.0 lumens  
Efficiency: N/A  
Efficacy: 36.6 lumens/watt  
Spacing Criteria (0/90/45): 3.98 / 0.73 / 1.54  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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: P1335921

CATALOG NUMBER: P3A02R40B2750DE010 E3A451WMH\_3000K

### 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  |
| 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 | 102 | 102 | 100 |
| 1   | 110 | 106 | 102 | 99  | 107 | 104 | 100 | 97  | 99  | 97  | 94  | 96  | 93  | 91  | 92  | 90  | 88  | 88  | 88  | 86  |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 82  | 78  | 84  | 80  | 76  | 81  | 78  | 75  | 75  | 75  | 72  |
| 3   | 91  | 81  | 73  | 66  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 73  | 68  | 64  | 71  | 66  | 62  | 62  | 62  | 60  |
| 4   | 82  | 70  | 62  | 55  | 80  | 69  | 61  | 54  | 67  | 59  | 54  | 64  | 58  | 53  | 62  | 57  | 52  | 52  | 52  | 50  |
| 5   | 75  | 62  | 52  | 46  | 73  | 60  | 52  | 45  | 58  | 51  | 45  | 56  | 50  | 44  | 54  | 49  | 44  | 44  | 44  | 42  |
| 6   | 68  | 54  | 45  | 38  | 66  | 53  | 44  | 38  | 51  | 43  | 38  | 50  | 43  | 37  | 48  | 42  | 37  | 37  | 37  | 35  |
| 7   | 62  | 48  | 39  | 32  | 60  | 47  | 38  | 32  | 45  | 37  | 32  | 44  | 37  | 31  | 42  | 36  | 31  | 31  | 31  | 29  |
| 8   | 57  | 42  | 33  | 27  | 55  | 42  | 33  | 27  | 40  | 32  | 27  | 39  | 32  | 27  | 38  | 31  | 26  | 26  | 26  | 24  |
| 9   | 52  | 38  | 29  | 23  | 51  | 37  | 29  | 23  | 36  | 28  | 23  | 35  | 28  | 23  | 34  | 27  | 23  | 23  | 23  | 21  |
| 10  | 48  | 34  | 25  | 20  | 47  | 33  | 25  | 20  | 32  | 25  | 20  | 31  | 24  | 20  | 30  | 24  | 19  | 19  | 19  | 18  |

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

|     | 0°     | 45°  | 90°  | 135° | 180° |
|-----|--------|------|------|------|------|
| 0°  | 1206   | 1206 | 1206 | 1206 | 1206 |
| 5°  | 1321   | 1277 | 1189 | 1079 | 1057 |
| 10° | 1603   | 1358 | 1091 | 980  | 957  |
| 15° | 2633   | 1476 | 931  | 863  | 885  |
| 20° | 6954   | 1750 | 770  | 770  | 840  |
| 25° | 26808  | 2178 | 605  | 702  | 823  |
| 30° | 57832  | 2887 | 481  | 684  | 810  |
| 35° | 87027  | 3426 | 428  | 669  | 830  |
| 40° | 98069  | 3435 | 372  | 687  | 887  |
| 45° | 105158 | 2667 | 341  | 713  | 961  |
| 50° | 103331 | 1672 | 307  | 751  | 1058 |
| 55° | 90912  | 803  | 306  | 841  | 1185 |
| 60° | 57539  | 175  | 351  | 921  | 1316 |
| 65° | 11778  | 52   | 363  | 986  | 1453 |
| 70° | 256    | 64   | 385  | 1154 | 1667 |
| 75° | 254    | 169  | 424  | 1271 | 1864 |
| 80° | 253    | 126  | 505  | 1389 | 2273 |
| 85° | 252    | 252  | 1006 | 1510 | 2516 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 47°

Luminance: 107036 cd/sqm

TEST NUMBER: P1335921

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 0.5    | 0.5       |
| 10°-20°   | 1.7    | 1.6       |
| 20°-30°   | 8.2    | 7.8       |
| 30°-40°   | 26.8   | 25.3      |
| 40°-50°   | 36.9   | 34.8      |
| 50°-60°   | 25.7   | 24.3      |
| 60°-70°   | 4.9    | 4.6       |
| 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°    | 10.4   | 9.8       |
| 0°-40°    | 37.2   | 35.1      |
| 0°-60°    | 99.8   | 94.2      |
| 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°  | 6   | 6   | 6   | 6    | 6    |      |
| 5°  | 6   | 6   | 5   | 5    | 5    | 1    |
| 15° | 12  | 6   | 4   | 4    | 4    | 4    |
| 25° | 111 | 9   | 2   | 3    | 3    | 57   |
| 35° | 325 | 13  | 2   | 2    | 3    | 196  |
| 45° | 339 | 9   | 1   | 2    | 3    | 258  |
| 55° | 238 | 2   | 1   | 2    | 3    | 203  |
| 65° | 23  | 0   | 1   | 2    | 3    | 40   |
| 75° | 0   | 0   | 0   | 2    | 2    | 0    |
| 85° | 0   | 0   | 0   | 1    | 1    | 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°    | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   | 5.5  | 5.5  | 5.5  | 5.5   | 5.5 |
| 2.5°  | 5.6   | 5.6   | 5.6   | 5.6   | 5.6   | 5.6   | 5.6  | 5.6  | 5.6  | 5.5   | 5.5 |
| 5°    | 6.0   | 6.0   | 6.0   | 6.0   | 5.9   | 5.9   | 5.9  | 5.8  | 5.8  | 5.6   | 5.4 |
| 7.5°  | 6.4   | 6.4   | 6.4   | 6.4   | 6.3   | 6.2   | 6.1  | 6.1  | 6.0  | 5.5   | 5.2 |
| 10°   | 7.2   | 7.2   | 7.1   | 7.0   | 6.9   | 6.7   | 6.6  | 6.4  | 6.1  | 5.5   | 4.9 |
| 12.5° | 8.8   | 8.6   | 8.5   | 8.3   | 8.0   | 7.6   | 7.2  | 6.9  | 6.2  | 5.3   | 4.6 |
| 15°   | 11.6  | 11.4  | 11.0  | 10.4  | 9.8   | 9.1   | 8.4  | 7.7  | 6.5  | 5.0   | 4.1 |
| 17.5° | 16.5  | 16.0  | 15.4  | 14.4  | 12.9  | 11.6  | 10.1 | 8.9  | 6.9  | 4.7   | 3.7 |
| 20°   | 29.8  | 29.4  | 25.9  | 23.2  | 18.8  | 15.7  | 12.8 | 10.6 | 7.5  | 4.4   | 3.3 |
| 22.5° | 61.4  | 57.3  | 51.6  | 42.2  | 32.9  | 24.2  | 17.6 | 13.3 | 8.1  | 4.0   | 2.9 |
| 25°   | 110.8 | 104.4 | 92.0  | 74.0  | 54.6  | 38.6  | 25.5 | 17.4 | 9.0  | 3.6   | 2.5 |
| 27.5° | 167.7 | 161.2 | 142.0 | 117.2 | 85.6  | 58.3  | 36.4 | 23.1 | 10.1 | 3.2   | 2.2 |
| 30°   | 228.4 | 222.8 | 198.5 | 164.1 | 120.6 | 81.7  | 48.8 | 28.8 | 11.4 | 2.8   | 1.9 |
| 31°   | 252.8 | 245.7 | 219.4 | 182.8 | 137.1 | 91.3  | 53.7 | 31.2 | 11.9 | 2.7   | 1.8 |
| 32°   | 275.3 | 267.2 | 240.0 | 200.7 | 150.4 | 101.7 | 59.2 | 33.4 | 12.3 | 2.5   | 1.8 |
| 33°   | 294.7 | 285.2 | 258.9 | 217.7 | 165.1 | 111.5 | 64.8 | 35.4 | 12.6 | 2.3   | 1.7 |
| 34°   | 311.1 | 302.9 | 274.7 | 234.7 | 178.1 | 120.8 | 70.4 | 37.5 | 12.8 | 2.2   | 1.6 |
| 35°   | 325.1 | 317.7 | 289.8 | 247.6 | 190.9 | 129.9 | 75.4 | 39.4 | 12.8 | 2.0   | 1.6 |
| 36°   | 334.6 | 328.2 | 302.8 | 260.9 | 201.6 | 137.6 | 79.7 | 41.2 | 12.8 | 1.8   | 1.5 |
| 37°   | 339.7 | 333.5 | 311.4 | 271.8 | 212.1 | 145.1 | 83.6 | 42.5 | 12.7 | 1.8   | 1.4 |
| 38°   | 342.4 | 336.9 | 317.7 | 280.6 | 219.4 | 150.6 | 87.0 | 43.6 | 12.6 | 1.6   | 1.4 |
| 39°   | 343.0 | 338.5 | 321.7 | 287.1 | 226.5 | 156.0 | 89.5 | 44.2 | 12.3 | 1.5   | 1.3 |
| 40°   | 342.6 | 338.6 | 323.9 | 292.8 | 232.0 | 160.3 | 91.2 | 44.4 | 12.0 | 1.3   | 1.3 |
| 41°   | 341.6 | 338.5 | 325.4 | 296.8 | 236.4 | 163.1 | 91.9 | 44.0 | 11.6 | 1.1   | 1.2 |
| 42°   | 340.7 | 337.3 | 326.1 | 299.5 | 239.4 | 164.4 | 91.8 | 43.2 | 11.0 | 1.0   | 1.2 |
| 43°   | 340.7 | 336.8 | 326.2 | 301.3 | 240.8 | 164.5 | 90.6 | 41.8 | 10.2 | 0.9   | 1.1 |
| 44°   | 340.1 | 336.5 | 326.7 | 302.5 | 241.2 | 163.6 | 88.8 | 40.2 | 9.3  | 0.8   | 1.1 |
| 45°   | 339.1 | 335.3 | 326.6 | 302.6 | 240.5 | 161.5 | 85.8 | 38.2 | 8.6  | 0.6   | 1.1 |
| 46°   | 337.0 | 333.6 | 325.7 | 301.9 | 238.5 | 158.4 | 82.2 | 36.1 | 7.7  | 0.5   | 1.0 |
| 47°   | 332.9 | 330.3 | 323.4 | 299.5 | 235.4 | 153.8 | 77.9 | 33.8 | 7.0  | 0.4   | 1.0 |
| 48°   | 325.9 | 324.1 | 319.4 | 294.4 | 229.4 | 148.2 | 73.3 | 31.2 | 6.3  | 0.4   | 1.0 |
| 49°   | 313.1 | 311.6 | 308.9 | 286.1 | 221.9 | 141.2 | 68.3 | 28.4 | 5.6  | 0.3   | 1.0 |
| 50°   | 302.9 | 301.4 | 295.8 | 272.2 | 210.9 | 132.5 | 62.9 | 25.6 | 4.9  | 0.2   | 0.9 |
| 51°   | 296.2 | 293.7 | 284.9 | 256.0 | 195.1 | 120.8 | 56.9 | 22.8 | 4.1  | 0.2   | 0.9 |
| 52°   | 287.8 | 284.0 | 273.1 | 241.5 | 180.6 | 109.1 | 50.5 | 20.0 | 3.6  | 0.2   | 0.9 |
| 53°   | 270.0 | 268.7 | 257.9 | 225.9 | 166.1 | 97.9  | 43.9 | 17.6 | 3.1  | 0.2   | 0.9 |
| 54°   | 254.6 | 252.5 | 237.8 | 204.3 | 150.3 | 85.5  | 37.1 | 15.6 | 2.6  | 0.2   | 0.9 |
| 55°   | 237.8 | 233.8 | 220.8 | 186.1 | 131.8 | 74.0  | 30.6 | 13.4 | 2.1  | 0.2   | 0.8 |
| 56°   | 216.7 | 213.2 | 199.2 | 166.7 | 114.8 | 62.3  | 25.6 | 11.0 | 1.7  | 0.2   | 0.8 |
| 57°   | 191.0 | 187.8 | 177.0 | 142.7 | 97.1  | 50.9  | 20.8 | 8.9  | 1.3  | 0.2   | 0.8 |
| 58°   | 166.2 | 162.6 | 150.2 | 119.7 | 78.4  | 40.4  | 17.4 | 7.2  | 1.0  | 0.2   | 0.8 |
| 59°   | 147.1 | 142.2 | 126.3 | 100.6 | 61.3  | 30.7  | 13.8 | 5.7  | 0.7  | 0.2   | 0.8 |
| 60°   | 131.2 | 127.2 | 110.7 | 83.7  | 48.1  | 22.6  | 10.2 | 4.4  | 0.4  | 0.2   | 0.8 |
| 62.5° | 76.0  | 75.0  | 60.1  | 43.1  | 22.7  | 10.5  | 5.1  | 2.0  | 0.2  | 0.3   | 0.8 |
| 65°   | 22.7  | 19.8  | 15.4  | 9.2   | 5.8   | 3.5   | 1.8  | 0.7  | 0.1  | 0.3   | 0.7 |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 5°  | 10° | 15° | 20° | 25° | 30° | 35° | 45° | 67.5° | 90° |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|
| 67.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.4 | 0.2 | 0.1 | 0.3   | 0.7 |
| 70°   | 0.4 | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.1 | 0.1 | 0.3   | 0.6 |
| 72.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.3   | 0.5 |
| 75°   | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.2 | 0.3   | 0.5 |
| 77.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.3   | 0.5 |
| 80°   | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.3   | 0.4 |
| 82.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.3   | 0.4 |
| 85°   | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.3   | 0.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.3   | 0.3 |
| 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: P1335921

CATALOG NUMBER: P3A02R40B2750DE010 E3A451WMH\_3000K

**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 0°    | 5.5    | 5.5  | 5.5    | 5.5  |
| 2.5°  | 5.3    | 5.2  | 5.1    | 5.1  |
| 5°    | 5.1    | 4.9  | 4.9    | 4.8  |
| 7.5°  | 4.8    | 4.6  | 4.6    | 4.6  |
| 10°   | 4.5    | 4.4  | 4.4    | 4.3  |
| 12.5° | 4.1    | 4.1  | 4.1    | 4.1  |
| 15°   | 3.8    | 3.8  | 3.9    | 3.9  |
| 17.5° | 3.4    | 3.5  | 3.7    | 3.8  |
| 20°   | 3.1    | 3.3  | 3.5    | 3.6  |
| 22.5° | 2.9    | 3.1  | 3.4    | 3.5  |
| 25°   | 2.6    | 2.9  | 3.3    | 3.4  |
| 27.5° | 2.4    | 2.8  | 3.1    | 3.3  |
| 30°   | 2.2    | 2.7  | 3.0    | 3.2  |
| 31°   | 2.2    | 2.6  | 3.0    | 3.2  |
| 32°   | 2.1    | 2.5  | 3.0    | 3.1  |
| 33°   | 2.1    | 2.5  | 3.0    | 3.1  |
| 34°   | 2.0    | 2.5  | 2.9    | 3.1  |
| 35°   | 2.0    | 2.5  | 2.9    | 3.1  |
| 36°   | 1.9    | 2.4  | 2.9    | 3.1  |
| 37°   | 1.9    | 2.4  | 2.9    | 3.1  |
| 38°   | 1.8    | 2.4  | 2.9    | 3.1  |
| 39°   | 1.8    | 2.4  | 2.9    | 3.1  |
| 40°   | 1.8    | 2.4  | 2.9    | 3.1  |
| 41°   | 1.8    | 2.4  | 2.9    | 3.1  |
| 42°   | 1.8    | 2.4  | 2.9    | 3.1  |
| 43°   | 1.8    | 2.3  | 2.9    | 3.1  |
| 44°   | 1.8    | 2.3  | 2.9    | 3.1  |
| 45°   | 1.7    | 2.3  | 2.9    | 3.1  |
| 46°   | 1.7    | 2.3  | 2.9    | 3.1  |
| 47°   | 1.7    | 2.3  | 2.9    | 3.1  |
| 48°   | 1.7    | 2.3  | 2.9    | 3.1  |
| 49°   | 1.7    | 2.3  | 2.9    | 3.1  |
| 50°   | 1.6    | 2.2  | 2.9    | 3.1  |
| 51°   | 1.6    | 2.2  | 2.9    | 3.1  |
| 52°   | 1.6    | 2.2  | 2.9    | 3.1  |
| 53°   | 1.6    | 2.2  | 2.9    | 3.1  |
| 54°   | 1.5    | 2.2  | 2.9    | 3.1  |
| 55°   | 1.5    | 2.2  | 2.9    | 3.1  |
| 56°   | 1.5    | 2.2  | 2.9    | 3.0  |
| 57°   | 1.5    | 2.2  | 2.8    | 3.0  |
| 58°   | 1.5    | 2.1  | 2.8    | 3.0  |
| 59°   | 1.5    | 2.1  | 2.8    | 3.0  |
| 60°   | 1.5    | 2.1  | 2.8    | 3.0  |
| 62.5° | 1.4    | 2.1  | 2.7    | 2.9  |
| 65°   | 1.3    | 1.9  | 2.7    | 2.8  |





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CATALOG NUMBER: P3A02R40B2750DE010 E3A451WMH\_3000K

**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 67.5° | 1.3    | 1.8  | 2.5    | 2.7  |
| 70°   | 1.2    | 1.8  | 2.4    | 2.6  |
| 72.5° | 1.0    | 1.7  | 2.2    | 2.4  |
| 75°   | 0.9    | 1.5  | 2.0    | 2.2  |
| 77.5° | 0.8    | 1.3  | 1.8    | 1.9  |
| 80°   | 0.7    | 1.1  | 1.6    | 1.8  |
| 82.5° | 0.5    | 0.8  | 1.3    | 1.4  |
| 85°   | 0.4    | 0.6  | 0.9    | 1.0  |
| 87.5° | 0.3    | 0.3  | 0.5    | 0.5  |
| 90°   | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)