

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: P1335898

Luminaire Tested: P3A02R40B2750DE010 E3A451GPH\_4000K

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1335898  
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 E3A451GPH\_4000K  
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R40 optic, 4000K CCT AND, 80CRI , E3A451GPH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

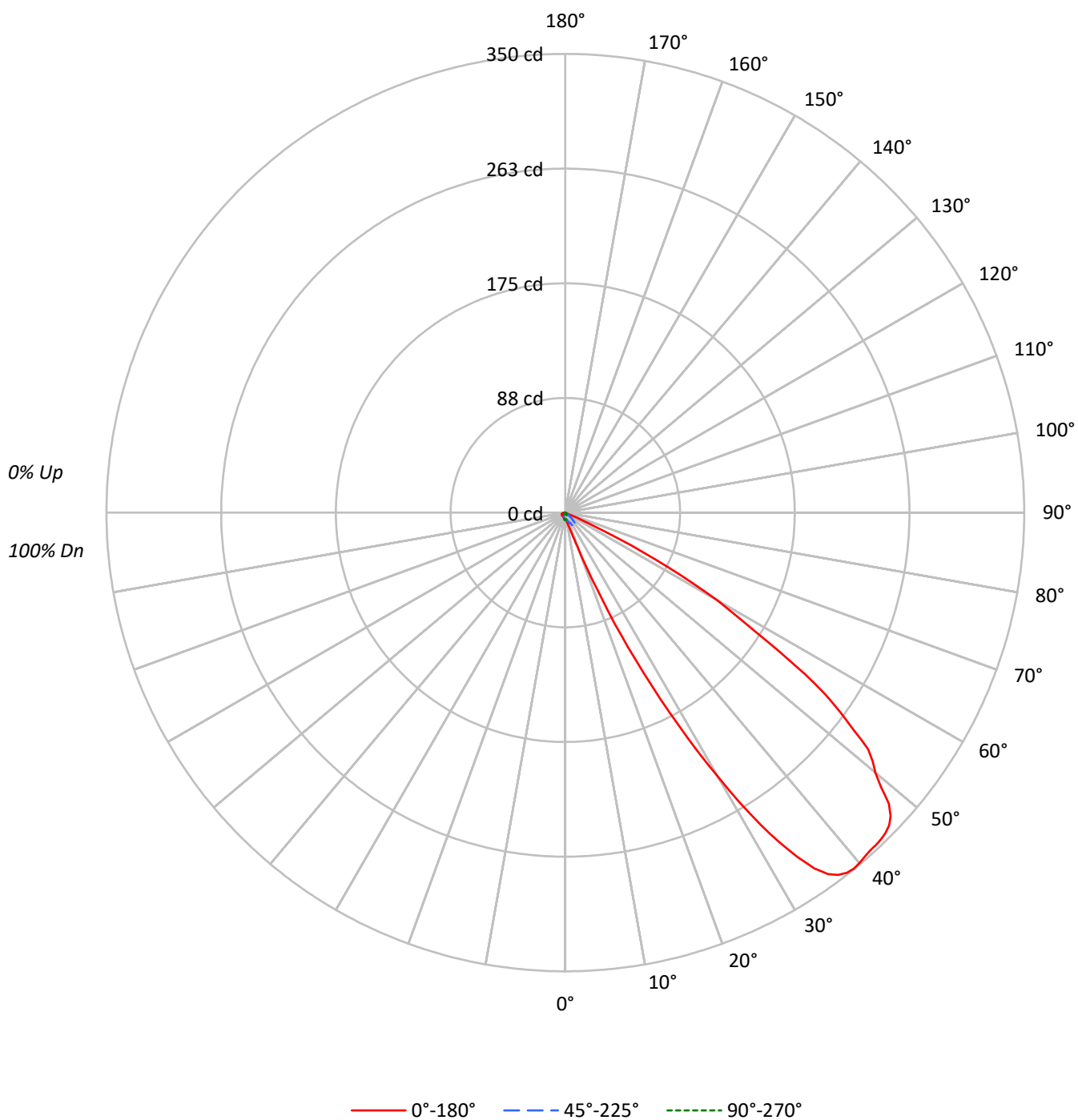
Lumens per Lamp: N/A  
Luminaire Lumens: 108.1 lumens  
Efficiency: N/A  
Efficacy: 37.3 lumens/watt  
Spacing Criteria (0/90/45): 3.98 / 0.73 / 1.54  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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: P1335898

CATALOG NUMBER: P3A02R40B2750DE010 E3A451GPH\_4000K

### Luminous Intensity Polar Plot



TEST NUMBER: P1335898

CATALOG NUMBER: P3A02R40B2750DE010 E3A451GPH\_4000K

**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°  | 1228   | 1228 | 1228 | 1228 | 1228 |
| 5°  | 1343   | 1321 | 1211 | 1101 | 1079 |
| 10° | 1625   | 1381 | 1113 | 1002 | 980  |
| 15° | 2679   | 1498 | 953  | 885  | 908  |
| 20° | 7071   | 1773 | 793  | 793  | 863  |
| 25° | 27316  | 2202 | 629  | 726  | 847  |
| 30° | 58920  | 2937 | 506  | 709  | 836  |
| 35° | 88686  | 3480 | 428  | 696  | 857  |
| 40° | 99901  | 3492 | 372  | 716  | 916  |
| 45° | 107143 | 2698 | 341  | 744  | 992  |
| 50° | 105310 | 1706 | 307  | 785  | 1092 |
| 55° | 92632  | 841  | 306  | 879  | 1223 |
| 60° | 58636  | 175  | 351  | 965  | 1360 |
| 65° | 11986  | 52   | 363  | 1038 | 1505 |
| 70° | 256    | 64   | 385  | 1154 | 1731 |
| 75° | 254    | 169  | 424  | 1271 | 1949 |
| 80° | 253    | 126  | 505  | 1389 | 2273 |
| 85° | 252    | 252  | 1006 | 1510 | 2516 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 47°

Luminance: 109062 cd/sqm

TEST NUMBER: P1335898

CATALOG NUMBER: P3A02R40B2750DE010 E3A451GPH\_4000K

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 0.5    | 0.5       |
| 10°-20°   | 1.7    | 1.6       |
| 20°-30°   | 8.4    | 7.8       |
| 30°-40°   | 27.3   | 25.3      |
| 40°-50°   | 37.6   | 34.8      |
| 50°-60°   | 26.2   | 24.3      |
| 60°-70°   | 5.0    | 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°    | 10.6   | 9.8       |
| 0°-40°    | 37.9   | 35.1      |
| 0°-60°    | 101.8  | 94.2      |
| 0°-90°    | 108.1  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 108.1  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 6   | 6   | 6   | 6    | 6    |      |
| 5°  | 6   | 6   | 6   | 5    | 5    | 1    |
| 15° | 12  | 7   | 4   | 4    | 4    | 4    |
| 25° | 113 | 9   | 3   | 3    | 4    | 58   |
| 35° | 331 | 13  | 2   | 3    | 3    | 200  |
| 45° | 346 | 9   | 1   | 2    | 3    | 263  |
| 55° | 242 | 2   | 1   | 2    | 3    | 207  |
| 65° | 23  | 0   | 1   | 2    | 3    | 41   |
| 75° | 0   | 0   | 0   | 2    | 2    | 0    |
| 85° | 0   | 0   | 0   | 1    | 1    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1335898

CATALOG NUMBER: P3A02R40B2750DE010 E3A451GPH\_4000K

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°  | 35°  | 45°  | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|-------|------|------|------|-------|-----|
| 0°    | 5.6   | 5.6   | 5.6   | 5.6   | 5.6   | 5.6   | 5.6  | 5.6  | 5.6  | 5.6   | 5.6 |
| 2.5°  | 5.8   | 5.8   | 5.8   | 5.8   | 5.8   | 5.8   | 5.8  | 5.8  | 5.8  | 5.7   | 5.6 |
| 5°    | 6.1   | 6.1   | 6.1   | 6.1   | 6.1   | 6.1   | 6.1  | 6.0  | 6.0  | 5.8   | 5.5 |
| 7.5°  | 6.5   | 6.5   | 6.5   | 6.5   | 6.4   | 6.3   | 6.2  | 6.2  | 6.1  | 5.7   | 5.3 |
| 10°   | 7.3   | 7.3   | 7.2   | 7.1   | 7.0   | 6.8   | 6.7  | 6.5  | 6.2  | 5.6   | 5.0 |
| 12.5° | 8.9   | 8.7   | 8.6   | 8.4   | 8.1   | 7.7   | 7.3  | 7.0  | 6.3  | 5.4   | 4.7 |
| 15°   | 11.8  | 11.6  | 11.2  | 10.6  | 10.0  | 9.2   | 8.5  | 7.8  | 6.6  | 5.1   | 4.2 |
| 17.5° | 16.9  | 16.3  | 15.7  | 14.7  | 13.2  | 11.8  | 10.3 | 9.0  | 7.0  | 4.8   | 3.8 |
| 20°   | 30.3  | 30.0  | 26.4  | 23.6  | 19.1  | 16.0  | 13.0 | 10.8 | 7.6  | 4.5   | 3.4 |
| 22.5° | 62.6  | 58.4  | 52.6  | 43.0  | 33.5  | 24.7  | 18.0 | 13.6 | 8.2  | 4.1   | 3.0 |
| 25°   | 112.9 | 106.3 | 93.7  | 75.4  | 55.6  | 39.4  | 26.0 | 17.8 | 9.1  | 3.7   | 2.6 |
| 27.5° | 170.9 | 164.2 | 144.7 | 119.4 | 87.2  | 59.4  | 37.1 | 23.5 | 10.3 | 3.3   | 2.3 |
| 30°   | 232.7 | 227.0 | 202.2 | 167.2 | 122.9 | 83.2  | 49.7 | 29.4 | 11.6 | 2.9   | 2.0 |
| 31°   | 257.6 | 250.3 | 223.6 | 186.3 | 139.6 | 93.0  | 54.7 | 31.8 | 12.1 | 2.8   | 1.9 |
| 32°   | 280.5 | 272.3 | 244.5 | 204.5 | 153.2 | 103.6 | 60.3 | 34.0 | 12.5 | 2.6   | 1.8 |
| 33°   | 300.2 | 290.6 | 263.8 | 221.8 | 168.2 | 113.6 | 66.1 | 36.1 | 12.8 | 2.4   | 1.7 |
| 34°   | 317.0 | 308.7 | 279.9 | 239.1 | 181.5 | 123.1 | 71.7 | 38.2 | 13.0 | 2.3   | 1.6 |
| 35°   | 331.3 | 323.7 | 295.3 | 252.3 | 194.5 | 132.3 | 76.9 | 40.2 | 13.0 | 2.1   | 1.6 |
| 36°   | 340.9 | 334.3 | 308.6 | 265.8 | 205.4 | 140.1 | 81.2 | 42.0 | 13.0 | 1.9   | 1.5 |
| 37°   | 346.1 | 339.8 | 317.3 | 276.9 | 216.1 | 147.9 | 85.2 | 43.3 | 12.9 | 1.8   | 1.4 |
| 38°   | 348.8 | 343.3 | 323.7 | 285.9 | 223.6 | 153.4 | 88.7 | 44.4 | 12.8 | 1.6   | 1.4 |
| 39°   | 349.5 | 344.9 | 327.8 | 292.5 | 230.8 | 159.0 | 91.1 | 45.0 | 12.5 | 1.5   | 1.3 |
| 40°   | 349.0 | 345.0 | 330.0 | 298.3 | 236.4 | 163.4 | 92.9 | 45.2 | 12.2 | 1.3   | 1.3 |
| 41°   | 348.0 | 344.9 | 331.6 | 302.4 | 240.8 | 166.1 | 93.6 | 44.8 | 11.8 | 1.1   | 1.2 |
| 42°   | 347.1 | 343.7 | 332.3 | 305.2 | 243.9 | 167.5 | 93.5 | 44.0 | 11.2 | 1.0   | 1.2 |
| 43°   | 347.1 | 343.2 | 332.4 | 307.0 | 245.4 | 167.6 | 92.3 | 42.5 | 10.4 | 0.9   | 1.1 |
| 44°   | 346.5 | 342.9 | 332.9 | 308.2 | 245.8 | 166.7 | 90.5 | 41.0 | 9.5  | 0.8   | 1.1 |
| 45°   | 345.5 | 341.6 | 332.8 | 308.3 | 245.1 | 164.5 | 87.4 | 38.9 | 8.7  | 0.6   | 1.1 |
| 46°   | 343.4 | 339.9 | 331.9 | 307.6 | 243.0 | 161.4 | 83.7 | 36.8 | 7.8  | 0.5   | 1.0 |
| 47°   | 339.2 | 336.5 | 329.5 | 305.2 | 239.8 | 156.7 | 79.3 | 34.4 | 7.1  | 0.4   | 1.0 |
| 48°   | 332.1 | 330.2 | 325.4 | 299.9 | 233.8 | 151.0 | 74.7 | 31.8 | 6.4  | 0.4   | 1.0 |
| 49°   | 319.0 | 317.5 | 314.7 | 291.5 | 226.0 | 143.9 | 69.6 | 29.0 | 5.8  | 0.3   | 1.0 |
| 50°   | 308.7 | 307.1 | 301.4 | 277.3 | 214.9 | 135.0 | 64.1 | 26.1 | 5.0  | 0.2   | 0.9 |
| 51°   | 301.8 | 299.2 | 290.3 | 260.9 | 198.8 | 123.1 | 58.0 | 23.2 | 4.2  | 0.2   | 0.9 |
| 52°   | 293.2 | 289.3 | 278.2 | 246.1 | 184.0 | 111.2 | 51.5 | 20.3 | 3.7  | 0.2   | 0.9 |
| 53°   | 275.1 | 273.7 | 262.7 | 230.2 | 169.2 | 99.8  | 44.7 | 18.0 | 3.2  | 0.2   | 0.9 |
| 54°   | 259.4 | 257.3 | 242.3 | 208.2 | 153.1 | 87.1  | 37.8 | 15.9 | 2.7  | 0.2   | 0.9 |
| 55°   | 242.3 | 238.2 | 224.9 | 189.6 | 134.3 | 75.4  | 31.1 | 13.7 | 2.2  | 0.2   | 0.8 |
| 56°   | 220.8 | 217.2 | 202.9 | 169.8 | 116.9 | 63.5  | 26.1 | 11.2 | 1.7  | 0.2   | 0.8 |
| 57°   | 194.6 | 191.3 | 180.3 | 145.4 | 98.9  | 51.9  | 21.2 | 9.0  | 1.3  | 0.2   | 0.8 |
| 58°   | 169.3 | 165.6 | 153.0 | 122.0 | 79.8  | 41.2  | 17.8 | 7.3  | 1.0  | 0.2   | 0.8 |
| 59°   | 149.9 | 144.9 | 128.6 | 102.5 | 62.5  | 31.2  | 14.1 | 5.9  | 0.7  | 0.2   | 0.8 |
| 60°   | 133.7 | 129.6 | 112.8 | 85.3  | 49.0  | 23.0  | 10.4 | 4.5  | 0.4  | 0.2   | 0.8 |
| 62.5° | 77.5  | 76.4  | 61.2  | 43.9  | 23.1  | 10.7  | 5.2  | 2.1  | 0.2  | 0.3   | 0.8 |
| 65°   | 23.1  | 20.1  | 15.7  | 9.3   | 6.0   | 3.6   | 1.9  | 0.7  | 0.1  | 0.3   | 0.7 |



TEST NUMBER: P1335898

CATALOG NUMBER: P3A02R40B2750DE010 E3A451GPH\_4000K

**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: P1335898

CATALOG NUMBER: P3A02R40B2750DE010 E3A451GPH\_4000K

**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 0°    | 5.6    | 5.6  | 5.6    | 5.6  |
| 2.5°  | 5.4    | 5.3  | 5.2    | 5.2  |
| 5°    | 5.2    | 5.0  | 5.0    | 4.9  |
| 7.5°  | 4.9    | 4.7  | 4.7    | 4.7  |
| 10°   | 4.6    | 4.5  | 4.5    | 4.4  |
| 12.5° | 4.2    | 4.2  | 4.2    | 4.2  |
| 15°   | 3.9    | 3.9  | 4.0    | 4.0  |
| 17.5° | 3.5    | 3.6  | 3.8    | 3.9  |
| 20°   | 3.2    | 3.4  | 3.6    | 3.7  |
| 22.5° | 3.0    | 3.2  | 3.5    | 3.6  |
| 25°   | 2.7    | 3.0  | 3.4    | 3.5  |
| 27.5° | 2.5    | 2.9  | 3.2    | 3.4  |
| 30°   | 2.3    | 2.8  | 3.1    | 3.3  |
| 31°   | 2.3    | 2.7  | 3.1    | 3.3  |
| 32°   | 2.2    | 2.6  | 3.1    | 3.2  |
| 33°   | 2.2    | 2.6  | 3.1    | 3.2  |
| 34°   | 2.1    | 2.6  | 3.0    | 3.2  |
| 35°   | 2.1    | 2.6  | 3.0    | 3.2  |
| 36°   | 2.0    | 2.5  | 3.0    | 3.2  |
| 37°   | 2.0    | 2.5  | 3.0    | 3.2  |
| 38°   | 1.9    | 2.5  | 3.0    | 3.2  |
| 39°   | 1.9    | 2.5  | 3.0    | 3.2  |
| 40°   | 1.9    | 2.5  | 3.0    | 3.2  |
| 41°   | 1.8    | 2.5  | 3.0    | 3.2  |
| 42°   | 1.8    | 2.5  | 3.0    | 3.2  |
| 43°   | 1.8    | 2.4  | 3.0    | 3.2  |
| 44°   | 1.8    | 2.4  | 3.0    | 3.2  |
| 45°   | 1.7    | 2.4  | 3.0    | 3.2  |
| 46°   | 1.7    | 2.4  | 3.0    | 3.2  |
| 47°   | 1.7    | 2.4  | 3.0    | 3.2  |
| 48°   | 1.7    | 2.4  | 3.0    | 3.2  |
| 49°   | 1.7    | 2.4  | 3.0    | 3.2  |
| 50°   | 1.6    | 2.3  | 3.0    | 3.2  |
| 51°   | 1.6    | 2.3  | 3.0    | 3.2  |
| 52°   | 1.6    | 2.3  | 3.0    | 3.2  |
| 53°   | 1.6    | 2.3  | 3.0    | 3.2  |
| 54°   | 1.5    | 2.3  | 3.0    | 3.2  |
| 55°   | 1.5    | 2.3  | 3.0    | 3.2  |
| 56°   | 1.5    | 2.3  | 3.0    | 3.1  |
| 57°   | 1.5    | 2.3  | 2.9    | 3.1  |
| 58°   | 1.5    | 2.2  | 2.9    | 3.1  |
| 59°   | 1.5    | 2.2  | 2.9    | 3.1  |
| 60°   | 1.5    | 2.2  | 2.9    | 3.1  |
| 62.5° | 1.4    | 2.2  | 2.8    | 3.0  |
| 65°   | 1.3    | 2.0  | 2.8    | 2.9  |



TEST NUMBER: P1335898

CATALOG NUMBER: P3A02R40B2750DE010 E3A451GPH\_4000K

**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 67.5° | 1.3    | 1.9  | 2.6    | 2.8  |
| 70°   | 1.2    | 1.8  | 2.5    | 2.7  |
| 72.5° | 1.0    | 1.7  | 2.3    | 2.5  |
| 75°   | 0.9    | 1.5  | 2.1    | 2.3  |
| 77.5° | 0.8    | 1.3  | 1.9    | 2.0  |
| 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)