

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: P1344166

Luminaire Tested: P3A13R20B2750DE010 E3A451MW\_3500K

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1344166  
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: P3A13R20B2750DE010 E3A451MW\_3500K  
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R20 optic, 3500K CCT AND, 80CRI , E3A451MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

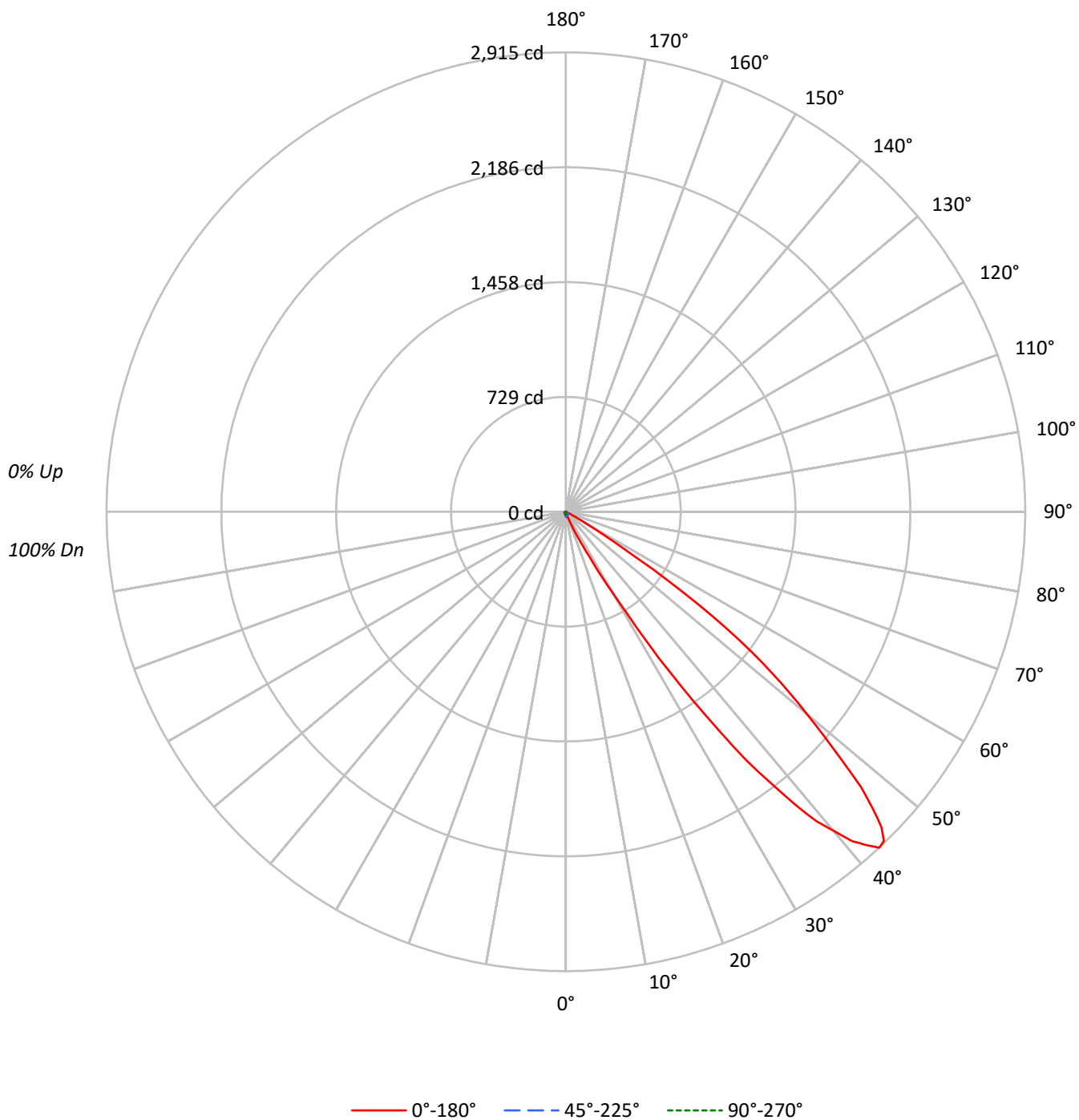
Lumens per Lamp: N/A  
Luminaire Lumens: 405.0 lumens  
Efficiency: N/A  
Efficacy: 21.2 lumens/watt  
Spacing Criteria (0/90/45): 3.39 / 0.51 / 1.13  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 19.1  
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: P1344166

CATALOG NUMBER: P3A13R20B2750DE010 E3A451MW\_3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P1344166

CATALOG NUMBER: P3A13R20B2750DE010 E3A451MW\_3500K

### 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  | 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°  | 6184   | 6184 | 6184 | 6184 | 6184 |
| 5°  | 7198   | 6692 | 5789 | 5019 | 4865 |
| 10° | 7125   | 6101 | 4587 | 3897 | 3808 |
| 15° | 6220   | 4677 | 3360 | 3110 | 3292 |
| 20° | 9241   | 3897 | 2497 | 2660 | 2940 |
| 25° | 39776  | 4041 | 1936 | 2395 | 2855 |
| 30° | 150428 | 4912 | 1646 | 2304 | 2785 |
| 35° | 456041 | 5916 | 1526 | 2356 | 2945 |
| 40° | 756217 | 5897 | 1317 | 2519 | 3149 |
| 45° | 878975 | 4000 | 1178 | 2605 | 3411 |
| 50° | 682314 | 2217 | 1160 | 2729 | 3889 |
| 55° | 394920 | 1453 | 1147 | 3058 | 4205 |
| 60° | 66749  | 351  | 1009 | 3158 | 4693 |
| 65° | 5137   | 0    | 1193 | 3580 | 5344 |
| 70° | 705    | 0    | 1475 | 3911 | 6091 |
| 75° | 678    | 339  | 1610 | 4490 | 7117 |
| 80° | 505    | 505  | 2399 | 4799 | 8208 |
| 85° | 1006   | 1006 | 3774 | 4780 | 8554 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle:  $0^\circ$ 

Vertical Angle:  $45^\circ$

Luminance: 878975 cd/sqm

TEST NUMBER: P1344166

CATALOG NUMBER: P3A13R20B2750DE010 E3A451MW\_3500K

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2.4    | 0.6       |
| 10°-20°   | 5.1    | 1.3       |
| 20°-30°   | 16.2   | 4.0       |
| 30°-40°   | 103.3  | 25.5      |
| 40°-50°   | 189.0  | 46.7      |
| 50°-60°   | 77.7   | 19.2      |
| 60°-70°   | 6.6    | 1.6       |
| 70°-80°   | 3.3    | 0.8       |
| 80°-90°   | 1.5    | 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°    | 23.7   | 5.8       |
| 0°-40°    | 126.9  | 31.3      |
| 0°-60°    | 393.7  | 97.2      |
| 0°-90°    | 405.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 405.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 28   | 28  | 28  | 28   | 28   |      |
| 5°  | 33   | 30  | 26  | 23   | 22   | 3    |
| 15° | 27   | 21  | 15  | 14   | 14   | 9    |
| 25° | 164  | 17  | 8   | 10   | 12   | 108  |
| 35° | 1704 | 22  | 6   | 9    | 11   | 1078 |
| 45° | 2834 | 13  | 4   | 8    | 11   | 2035 |
| 55° | 1033 | 4   | 3   | 8    | 11   | 903  |
| 65° | 10   | 0   | 2   | 7    | 10   | 32   |
| 75° | 1    | 0   | 2   | 5    | 8    | 1    |
| 85° | 0    | 0   | 2   | 2    | 3    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1344166

CATALOG NUMBER: P3A13R20B2750DE010 E3A451MW\_3500K

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 2.5°   | 5°     | 7.5°   | 10°    | 12.5°  | 15°    | 17.5°  | 20°   | 22.5° | 45°  |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|------|
| 0°    | 28.2   | 28.2   | 28.2   | 28.2   | 28.2   | 28.2   | 28.2   | 28.2   | 28.2  | 28.2  | 28.2 |
| 2.5°  | 30.8   | 30.8   | 30.8   | 30.4   | 30.4   | 30.8   | 30.4   | 30.4   | 30.4  | 30.4  | 30.1 |
| 5°    | 32.7   | 32.7   | 32.7   | 32.7   | 32.7   | 32.7   | 32.7   | 32.4   | 32.4  | 32.0  | 30.4 |
| 7.5°  | 33.5   | 33.5   | 33.5   | 33.5   | 33.1   | 33.1   | 33.1   | 33.1   | 32.7  | 32.4  | 29.7 |
| 10°   | 32.0   | 32.0   | 32.0   | 31.6   | 31.6   | 31.6   | 31.2   | 31.2   | 30.8  | 30.4  | 27.4 |
| 12.5° | 28.9   | 28.9   | 28.9   | 28.9   | 28.5   | 28.5   | 28.2   | 28.2   | 27.8  | 27.4  | 24.0 |
| 15°   | 27.4   | 27.4   | 27.4   | 27.0   | 27.0   | 26.6   | 26.3   | 25.9   | 25.5  | 24.7  | 20.6 |
| 17.5° | 29.7   | 29.7   | 29.3   | 29.3   | 28.5   | 27.8   | 27.4   | 26.3   | 25.5  | 24.4  | 18.3 |
| 20°   | 39.6   | 40.0   | 38.4   | 37.3   | 36.5   | 34.3   | 33.1   | 31.2   | 29.7  | 27.8  | 16.7 |
| 22.5° | 79.9   | 78.4   | 75.7   | 71.6   | 66.6   | 62.4   | 54.8   | 48.7   | 44.5  | 38.8  | 16.4 |
| 25°   | 164.4  | 162.9  | 155.7  | 149.6  | 134.4  | 122.6  | 106.2  | 92.9   | 79.2  | 65.8  | 16.7 |
| 27.5° | 312.5  | 302.2  | 300.3  | 272.5  | 251.2  | 220.8  | 189.2  | 162.5  | 138.2 | 111.1 | 17.9 |
| 30°   | 594.1  | 582.3  | 540.8  | 499.0  | 441.5  | 376.4  | 314.4  | 256.5  | 208.2 | 164.4 | 19.4 |
| 31°   | 754.0  | 765.4  | 716.7  | 632.6  | 547.7  | 464.3  | 379.5  | 306.0  | 243.6 | 189.2 | 20.2 |
| 32°   | 991.1  | 941.2  | 889.9  | 803.5  | 680.1  | 573.6  | 467.0  | 361.2  | 279.0 | 215.8 | 20.9 |
| 33°   | 1215.3 | 1186.0 | 1107.6 | 999.8  | 851.8  | 702.2  | 564.1  | 426.3  | 322.4 | 248.2 | 21.3 |
| 34°   | 1454.3 | 1421.9 | 1358.4 | 1203.9 | 1041.3 | 845.3  | 661.1  | 501.3  | 374.1 | 279.7 | 21.7 |
| 35°   | 1703.6 | 1689.9 | 1567.3 | 1433.4 | 1233.5 | 997.2  | 778.0  | 583.5  | 424.8 | 308.7 | 22.1 |
| 36°   | 1954.4 | 1910.3 | 1814.3 | 1618.7 | 1410.1 | 1137.6 | 900.5  | 660.0  | 476.1 | 342.9 | 22.1 |
| 37°   | 2143.2 | 2133.3 | 2006.2 | 1815.5 | 1570.4 | 1287.6 | 1006.3 | 744.8  | 527.9 | 372.2 | 22.1 |
| 38°   | 2351.4 | 2312.2 | 2183.1 | 1989.0 | 1721.1 | 1425.0 | 1117.1 | 818.7  | 577.0 | 398.9 | 21.7 |
| 39°   | 2526.8 | 2468.6 | 2338.4 | 2146.6 | 1852.8 | 1529.3 | 1205.0 | 890.2  | 620.4 | 420.9 | 21.3 |
| 40°   | 2641.8 | 2601.4 | 2465.6 | 2249.8 | 1972.3 | 1627.8 | 1294.1 | 949.2  | 652.7 | 437.7 | 20.6 |
| 41°   | 2768.5 | 2701.5 | 2567.2 | 2350.2 | 2059.1 | 1714.6 | 1350.0 | 988.1  | 677.9 | 448.7 | 19.8 |
| 42°   | 2844.3 | 2789.5 | 2630.0 | 2417.6 | 2121.1 | 1764.1 | 1395.7 | 1017.7 | 693.1 | 454.4 | 18.3 |
| 43°   | 2915.1 | 2840.5 | 2685.2 | 2456.8 | 2162.2 | 1799.1 | 1416.6 | 1031.4 | 696.5 | 454.4 | 16.4 |
| 44°   | 2905.5 | 2834.7 | 2673.7 | 2462.1 | 2171.4 | 1809.4 | 1425.4 | 1031.8 | 691.2 | 448.7 | 14.5 |
| 45°   | 2834.4 | 2764.0 | 2618.9 | 2415.7 | 2138.6 | 1789.2 | 1407.9 | 1016.6 | 676.3 | 438.8 | 12.9 |
| 46°   | 2703.8 | 2633.8 | 2522.6 | 2338.1 | 2077.7 | 1743.6 | 1367.1 | 983.5  | 651.6 | 422.9 | 11.4 |
| 47°   | 2561.9 | 2493.7 | 2379.9 | 2212.8 | 1973.8 | 1662.1 | 1308.1 | 937.0  | 617.0 | 399.6 | 10.3 |
| 48°   | 2355.9 | 2313.3 | 2199.1 | 2056.4 | 1829.6 | 1534.6 | 1204.6 | 861.3  | 570.5 | 369.6 | 8.8  |
| 49°   | 2174.0 | 2129.1 | 2029.0 | 1875.6 | 1641.5 | 1386.2 | 1080.9 | 769.2  | 510.0 | 336.1 | 7.6  |
| 50°   | 2000.1 | 1960.9 | 1868.4 | 1695.2 | 1471.8 | 1206.9 | 913.8  | 653.1  | 433.9 | 294.6 | 6.5  |
| 51°   | 1829.9 | 1800.6 | 1706.3 | 1547.2 | 1320.3 | 1069.1 | 791.7  | 543.9  | 358.5 | 244.3 | 6.1  |
| 52°   | 1659.1 | 1655.6 | 1553.2 | 1392.3 | 1173.0 | 931.7  | 672.9  | 459.0  | 304.1 | 205.1 | 5.7  |
| 53°   | 1475.2 | 1453.1 | 1363.7 | 1219.1 | 1008.6 | 788.6  | 570.5  | 387.1  | 261.9 | 174.7 | 4.9  |
| 54°   | 1265.9 | 1241.2 | 1145.2 | 1014.7 | 824.0  | 645.9  | 459.8  | 312.9  | 218.1 | 147.7 | 4.6  |
| 55°   | 1033.0 | 990.7  | 921.1  | 787.1  | 643.6  | 492.9  | 355.1  | 247.8  | 174.3 | 122.9 | 3.8  |
| 56°   | 783.7  | 741.4  | 702.2  | 603.6  | 472.3  | 367.7  | 264.5  | 189.9  | 136.3 | 97.1  | 3.4  |
| 57°   | 545.0  | 542.7  | 478.4  | 402.7  | 315.9  | 250.4  | 181.2  | 134.0  | 96.3  | 75.4  | 2.7  |
| 58°   | 353.6  | 341.8  | 300.7  | 256.9  | 206.7  | 156.4  | 116.5  | 91.0   | 65.5  | 51.4  | 2.3  |
| 59°   | 247.8  | 224.2  | 202.1  | 171.3  | 130.2  | 98.6   | 75.0   | 58.2   | 45.3  | 35.8  | 1.5  |
| 60°   | 152.2  | 147.3  | 132.5  | 104.3  | 84.5   | 69.7   | 55.9   | 43.0   | 33.1  | 25.5  | 0.8  |
| 62.5° | 43.4   | 44.2   | 40.0   | 35.4   | 30.4   | 26.3   | 23.6   | 20.2   | 16.7  | 13.3  | 0.0  |
| 65°   | 9.9    | 9.5    | 10.3   | 9.5    | 8.8    | 8.8    | 7.6    | 6.9    | 6.1   | 5.7   | 0.0  |



TEST NUMBER: P1344166

CATALOG NUMBER: P3A13R20B2750DE010 E3A451MW\_3500K

**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 2.5° | 5°  | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 45° |
|-------|-----|------|-----|------|-----|-------|-----|-------|-----|-------|-----|
| 67.5° | 3.0 | 3.0  | 2.7 | 2.7  | 2.7 | 2.3   | 2.3 | 1.9   | 1.9 | 1.5   | 0.0 |
| 70°   | 1.1 | 1.1  | 1.1 | 1.1  | 1.1 | 0.8   | 0.8 | 0.8   | 0.4 | 0.4   | 0.0 |
| 72.5° | 1.1 | 1.1  | 1.1 | 0.8  | 0.8 | 0.8   | 0.8 | 0.8   | 0.4 | 0.4   | 0.4 |
| 75°   | 0.8 | 0.8  | 0.8 | 0.8  | 0.8 | 0.8   | 0.8 | 0.4   | 0.4 | 0.4   | 0.4 |
| 77.5° | 0.8 | 0.8  | 0.8 | 0.8  | 0.8 | 0.4   | 0.8 | 0.4   | 0.4 | 0.4   | 0.4 |
| 80°   | 0.4 | 0.4  | 0.4 | 0.4  | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 |
| 82.5° | 0.4 | 0.4  | 0.4 | 0.4  | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 |
| 85°   | 0.4 | 0.4  | 0.4 | 0.4  | 0.0 | 0.0   | 0.4 | 0.4   | 0.4 | 0.0   | 0.4 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.4 |
| 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: P1344166

CATALOG NUMBER: P3A13R20B2750DE010 E3A451MW\_3500K

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|-------|------|--------|------|--------|------|
| 0°    | 28.2  | 28.2 | 28.2   | 28.2 | 28.2   | 28.2 |
| 2.5°  | 29.3  | 27.8 | 26.6   | 25.5 | 25.1   | 25.1 |
| 5°    | 28.5  | 26.3 | 24.0   | 22.8 | 22.1   | 22.1 |
| 7.5°  | 26.3  | 23.6 | 21.3   | 20.2 | 19.8   | 19.8 |
| 10°   | 23.6  | 20.6 | 18.3   | 17.5 | 17.5   | 17.1 |
| 12.5° | 20.6  | 17.5 | 16.0   | 15.6 | 15.6   | 15.6 |
| 15°   | 17.1  | 14.8 | 13.7   | 13.7 | 14.1   | 14.5 |
| 17.5° | 14.5  | 12.2 | 11.8   | 12.6 | 13.3   | 13.3 |
| 20°   | 12.2  | 10.7 | 10.7   | 11.4 | 12.2   | 12.6 |
| 22.5° | 10.3  | 9.1  | 9.5    | 10.7 | 11.8   | 12.2 |
| 25°   | 9.1   | 8.0  | 8.8    | 9.9  | 11.0   | 11.8 |
| 27.5° | 7.6   | 7.2  | 8.0    | 9.5  | 11.0   | 11.4 |
| 30°   | 6.5   | 6.5  | 7.6    | 9.1  | 10.7   | 11.0 |
| 31°   | 6.1   | 6.1  | 7.6    | 9.1  | 10.7   | 11.0 |
| 32°   | 5.7   | 6.1  | 7.2    | 9.1  | 10.7   | 11.0 |
| 33°   | 5.3   | 5.7  | 7.2    | 8.8  | 10.7   | 11.0 |
| 34°   | 4.9   | 5.7  | 7.2    | 8.8  | 10.7   | 11.0 |
| 35°   | 4.6   | 5.7  | 7.2    | 8.8  | 10.7   | 11.0 |
| 36°   | 4.2   | 5.3  | 6.9    | 8.8  | 10.7   | 11.0 |
| 37°   | 3.8   | 5.3  | 6.9    | 8.8  | 10.7   | 11.0 |
| 38°   | 3.4   | 4.9  | 6.9    | 8.8  | 10.7   | 11.0 |
| 39°   | 3.4   | 4.9  | 6.5    | 8.8  | 10.3   | 11.0 |
| 40°   | 3.0   | 4.6  | 6.5    | 8.8  | 10.3   | 11.0 |
| 41°   | 2.7   | 4.6  | 6.5    | 8.4  | 10.3   | 11.0 |
| 42°   | 2.3   | 4.2  | 6.1    | 8.4  | 10.3   | 11.0 |
| 43°   | 1.9   | 4.2  | 6.1    | 8.4  | 10.3   | 11.0 |
| 44°   | 1.9   | 3.8  | 6.1    | 8.4  | 10.3   | 11.0 |
| 45°   | 1.5   | 3.8  | 6.1    | 8.4  | 10.3   | 11.0 |
| 46°   | 1.1   | 3.8  | 6.1    | 8.4  | 10.3   | 11.0 |
| 47°   | 1.1   | 3.4  | 5.7    | 8.4  | 10.3   | 11.0 |
| 48°   | 0.8   | 3.4  | 5.7    | 8.4  | 10.3   | 11.0 |
| 49°   | 0.8   | 3.4  | 5.7    | 8.4  | 10.3   | 11.4 |
| 50°   | 0.8   | 3.4  | 5.7    | 8.0  | 10.3   | 11.4 |
| 51°   | 0.4   | 3.4  | 5.7    | 8.0  | 10.3   | 11.4 |
| 52°   | 0.4   | 3.4  | 5.3    | 8.0  | 10.7   | 11.4 |
| 53°   | 0.4   | 3.0  | 5.3    | 8.0  | 10.7   | 11.4 |
| 54°   | 0.4   | 3.0  | 5.3    | 8.0  | 10.7   | 11.0 |
| 55°   | 0.4   | 3.0  | 5.3    | 8.0  | 10.3   | 11.0 |
| 56°   | 0.4   | 2.7  | 5.3    | 8.0  | 10.3   | 11.0 |
| 57°   | 0.4   | 2.7  | 4.9    | 7.6  | 10.3   | 10.7 |
| 58°   | 0.4   | 2.7  | 4.9    | 7.6  | 10.3   | 10.7 |
| 59°   | 0.4   | 2.7  | 4.9    | 7.6  | 9.9    | 10.7 |
| 60°   | 0.8   | 2.3  | 4.6    | 7.2  | 9.9    | 10.7 |
| 62.5° | 0.8   | 2.3  | 4.6    | 7.2  | 9.5    | 10.3 |
| 65°   | 0.8   | 2.3  | 4.2    | 6.9  | 9.5    | 10.3 |



TEST NUMBER: P1344166

CATALOG NUMBER: P3A13R20B2750DE010 E3A451MW\_3500K

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 0.8   | 1.9 | 3.8    | 6.5  | 9.1    | 9.9  |
| 70°   | 0.8   | 2.3 | 3.8    | 6.1  | 8.8    | 9.5  |
| 72.5° | 1.1   | 1.9 | 3.4    | 5.7  | 8.4    | 9.1  |
| 75°   | 1.1   | 1.9 | 3.4    | 5.3  | 8.0    | 8.4  |
| 77.5° | 1.5   | 1.9 | 3.0    | 4.6  | 7.2    | 7.6  |
| 80°   | 1.5   | 1.9 | 2.7    | 3.8  | 6.1    | 6.5  |
| 82.5° | 1.5   | 1.9 | 1.9    | 3.0  | 4.6    | 4.9  |
| 85°   | 1.1   | 1.5 | 1.5    | 1.9  | 3.0    | 3.4  |
| 87.5° | 1.1   | 1.5 | 1.1    | 0.8  | 1.5    | 1.5  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)