

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: P1344149

Luminaire Tested: P3A13R20B2750DE010 E3A451GPH\_2700K

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1344149  
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 E3A451GPH\_2700K  
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R20 optic, 2700K CCT AND, 90CRI , E3A451GPH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

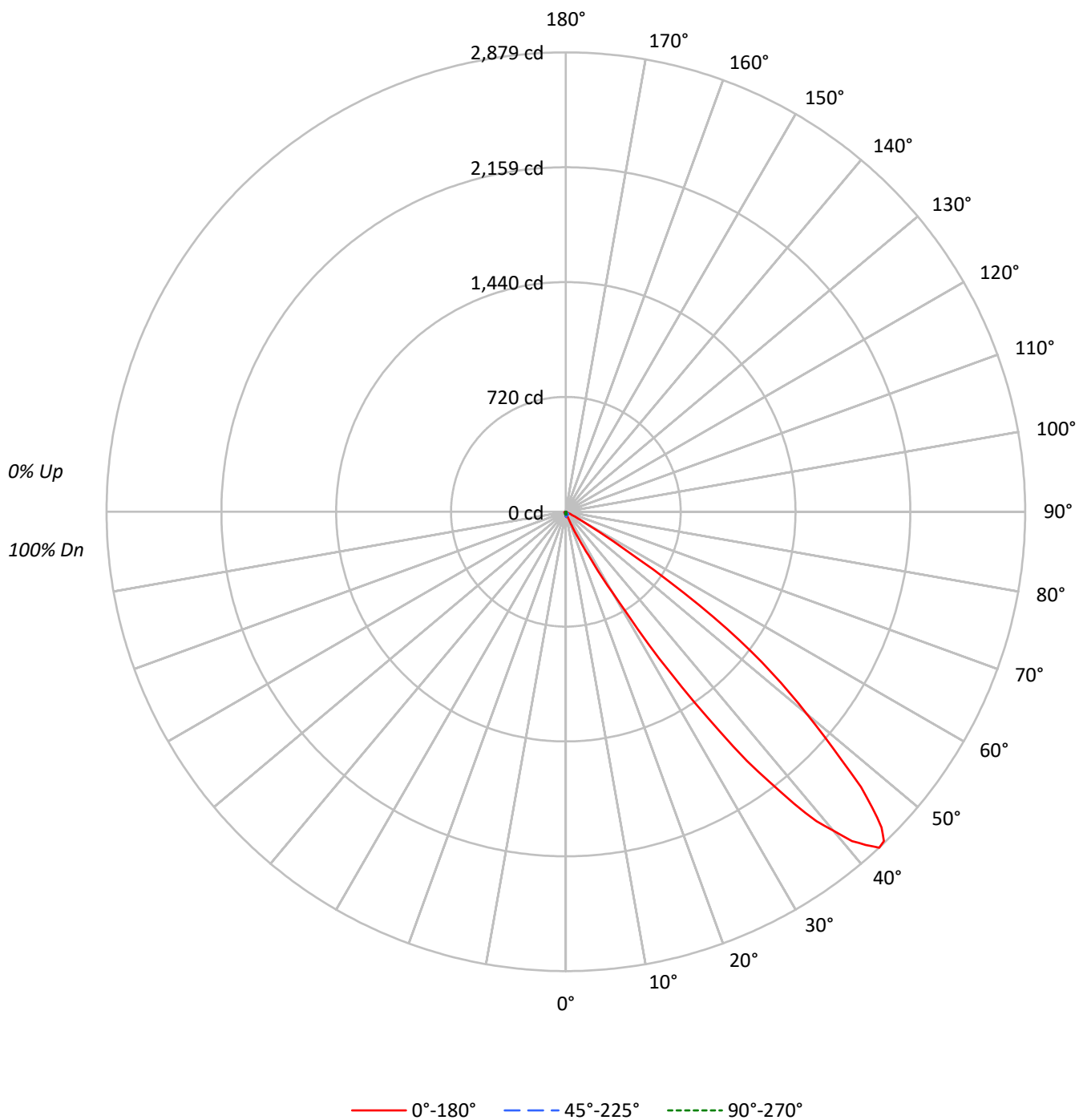
Lumens per Lamp: N/A  
Luminaire Lumens: 400.0 lumens  
Efficiency: N/A  
Efficacy: 20.9 lumens/watt  
Spacing Criteria (0/90/45): 3.39 / 0.51 / 1.14  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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: P1344149

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### Luminous Intensity Polar Plot



TEST NUMBER: P1344149

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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 | 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°  | 6096   | 6096 | 6096 | 6096 | 6096 |
| 5°  | 7110   | 6626 | 5701 | 4975 | 4799 |
| 10° | 7036   | 6034 | 4520 | 3852 | 3763 |
| 15° | 6152   | 4608 | 3337 | 3065 | 3246 |
| 20° | 9124   | 3850 | 2450 | 2637 | 2894 |
| 25° | 39293  | 3992 | 1911 | 2371 | 2831 |
| 30° | 148580 | 4862 | 1621 | 2279 | 2760 |
| 35° | 450419 | 5836 | 1499 | 2302 | 2918 |
| 40° | 746885 | 5811 | 1288 | 2462 | 3120 |
| 45° | 868121 | 3969 | 1178 | 2574 | 3380 |
| 50° | 673888 | 2183 | 1160 | 2695 | 3855 |
| 55° | 390027 | 1453 | 1147 | 3020 | 4167 |
| 60° | 65960  | 351  | 1009 | 3114 | 4605 |
| 65° | 5085   | 0    | 1193 | 3528 | 5241 |
| 70° | 705    | 0    | 1475 | 3847 | 6027 |
| 75° | 678    | 339  | 1610 | 4490 | 7032 |
| 80° | 505    | 505  | 2399 | 4799 | 8082 |
| 85° | 1006   | 1006 | 3774 | 4780 | 8554 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 868121 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2.4    | 0.6       |
| 10°-20°   | 5.0    | 1.3       |
| 20°-30°   | 16.0   | 4.0       |
| 30°-40°   | 102.0  | 25.5      |
| 40°-50°   | 186.7  | 46.7      |
| 50°-60°   | 76.7   | 19.2      |
| 60°-70°   | 6.5    | 1.6       |
| 70°-80°   | 3.2    | 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°    | 23.4   | 5.8       |
| 0°-40°    | 125.4  | 31.3      |
| 0°-60°    | 388.8  | 97.2      |
| 0°-90°    | 400.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 400.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 28   | 28  | 28  | 28   | 28   |      |
| 5°  | 32   | 30  | 26  | 23   | 22   | 3    |
| 15° | 27   | 20  | 15  | 14   | 14   | 9    |
| 25° | 162  | 16  | 8   | 10   | 12   | 107  |
| 35° | 1683 | 22  | 6   | 9    | 11   | 1065 |
| 45° | 2799 | 13  | 4   | 8    | 11   | 2010 |
| 55° | 1020 | 4   | 3   | 8    | 11   | 892  |
| 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    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 2.5°   | 5°     | 7.5°   | 10°    | 12.5°  | 15°    | 17.5°  | 20°   | 22.5° | 45°  |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|------|
| 0°    | 27.8   | 27.8   | 27.8   | 27.8   | 27.8   | 27.8   | 27.8   | 27.8   | 27.8  | 27.8  | 27.8 |
| 2.5°  | 30.4   | 30.4   | 30.4   | 30.1   | 30.1   | 30.4   | 30.1   | 30.1   | 30.1  | 30.1  | 29.7 |
| 5°    | 32.3   | 32.3   | 32.3   | 32.3   | 32.3   | 32.3   | 32.3   | 32.0   | 32.0  | 31.6  | 30.1 |
| 7.5°  | 33.1   | 33.1   | 33.1   | 33.1   | 32.7   | 32.7   | 32.7   | 32.7   | 32.3  | 32.0  | 29.3 |
| 10°   | 31.6   | 31.6   | 31.6   | 31.2   | 31.2   | 31.2   | 30.8   | 30.8   | 30.4  | 30.1  | 27.1 |
| 12.5° | 28.6   | 28.6   | 28.6   | 28.6   | 28.2   | 28.2   | 27.8   | 27.8   | 27.4  | 27.1  | 23.7 |
| 15°   | 27.1   | 27.1   | 27.1   | 26.7   | 26.7   | 26.3   | 25.9   | 25.6   | 25.2  | 24.4  | 20.3 |
| 17.5° | 29.3   | 29.3   | 28.9   | 28.9   | 28.2   | 27.4   | 27.1   | 25.9   | 25.2  | 24.1  | 18.0 |
| 20°   | 39.1   | 39.5   | 38.0   | 36.8   | 36.1   | 33.8   | 32.7   | 30.8   | 29.3  | 27.4  | 16.5 |
| 22.5° | 78.9   | 77.4   | 74.8   | 70.7   | 65.8   | 61.6   | 54.1   | 48.1   | 44.0  | 38.3  | 16.2 |
| 25°   | 162.4  | 160.9  | 153.7  | 147.7  | 132.7  | 121.0  | 104.9  | 91.7   | 78.2  | 65.0  | 16.5 |
| 27.5° | 308.6  | 298.5  | 296.6  | 269.1  | 248.1  | 218.0  | 186.8  | 160.5  | 136.5 | 109.8 | 17.7 |
| 30°   | 586.8  | 575.1  | 534.2  | 492.8  | 436.1  | 371.8  | 310.5  | 253.4  | 205.6 | 162.4 | 19.2 |
| 31°   | 744.7  | 755.9  | 707.8  | 624.8  | 540.9  | 458.6  | 374.8  | 302.2  | 240.6 | 186.8 | 19.9 |
| 32°   | 978.9  | 929.6  | 878.9  | 793.5  | 671.7  | 566.5  | 461.2  | 356.7  | 275.5 | 213.1 | 20.7 |
| 33°   | 1200.3 | 1171.3 | 1093.9 | 987.5  | 841.3  | 693.5  | 557.1  | 421.0  | 318.4 | 245.1 | 21.1 |
| 34°   | 1436.3 | 1404.4 | 1341.6 | 1189.0 | 1028.5 | 834.9  | 652.9  | 495.1  | 369.5 | 276.3 | 21.4 |
| 35°   | 1682.6 | 1669.0 | 1548.0 | 1415.7 | 1218.3 | 984.9  | 768.4  | 576.3  | 419.5 | 304.9 | 21.8 |
| 36°   | 1930.3 | 1886.7 | 1791.9 | 1598.7 | 1392.7 | 1123.6 | 889.4  | 651.8  | 470.3 | 338.7 | 21.8 |
| 37°   | 2116.7 | 2107.0 | 1981.4 | 1793.1 | 1551.0 | 1271.7 | 993.9  | 735.6  | 521.4 | 367.6 | 21.8 |
| 38°   | 2322.3 | 2283.6 | 2156.2 | 1964.5 | 1699.8 | 1407.4 | 1103.3 | 808.6  | 569.9 | 393.9 | 21.4 |
| 39°   | 2495.6 | 2438.1 | 2309.6 | 2120.1 | 1829.9 | 1510.4 | 1190.1 | 879.2  | 612.7 | 415.8 | 21.1 |
| 40°   | 2609.2 | 2569.3 | 2435.1 | 2222.0 | 1947.9 | 1607.8 | 1278.1 | 937.5  | 644.7 | 432.3 | 20.3 |
| 41°   | 2734.3 | 2668.2 | 2535.5 | 2321.2 | 2033.7 | 1693.5 | 1333.3 | 975.9  | 669.5 | 443.2 | 19.5 |
| 42°   | 2809.1 | 2755.0 | 2597.5 | 2387.8 | 2094.9 | 1742.3 | 1378.4 | 1005.2 | 684.5 | 448.8 | 18.0 |
| 43°   | 2879.1 | 2805.4 | 2652.0 | 2426.5 | 2135.5 | 1776.9 | 1399.1 | 1018.7 | 687.9 | 448.8 | 16.2 |
| 44°   | 2869.7 | 2799.7 | 2640.7 | 2431.7 | 2144.5 | 1787.1 | 1407.8 | 1019.1 | 682.6 | 443.2 | 14.3 |
| 45°   | 2799.4 | 2729.8 | 2586.6 | 2385.9 | 2112.2 | 1767.1 | 1390.5 | 1004.0 | 668.0 | 433.4 | 12.8 |
| 46°   | 2670.4 | 2601.3 | 2491.5 | 2309.2 | 2052.1 | 1722.0 | 1350.3 | 971.3  | 643.6 | 417.6 | 11.3 |
| 47°   | 2530.2 | 2462.9 | 2350.5 | 2185.5 | 1949.4 | 1641.6 | 1292.0 | 925.5  | 609.3 | 394.7 | 10.1 |
| 48°   | 2326.9 | 2284.8 | 2172.0 | 2031.0 | 1807.0 | 1515.7 | 1189.7 | 850.7  | 563.5 | 365.0 | 8.6  |
| 49°   | 2147.2 | 2102.8 | 2004.0 | 1852.5 | 1621.3 | 1369.1 | 1067.6 | 759.7  | 503.7 | 331.9 | 7.5  |
| 50°   | 1975.4 | 1936.7 | 1845.3 | 1674.3 | 1453.6 | 1192.0 | 902.6  | 645.1  | 428.5 | 291.0 | 6.4  |
| 51°   | 1807.4 | 1778.4 | 1685.2 | 1528.1 | 1304.0 | 1055.9 | 781.9  | 537.2  | 354.1 | 241.3 | 6.0  |
| 52°   | 1638.6 | 1635.2 | 1534.1 | 1375.1 | 1158.5 | 920.2  | 664.6  | 453.3  | 300.3 | 202.6 | 5.6  |
| 53°   | 1457.0 | 1435.2 | 1346.9 | 1204.0 | 996.2  | 778.9  | 563.5  | 382.3  | 258.6 | 172.5 | 4.9  |
| 54°   | 1250.3 | 1225.8 | 1131.1 | 1002.2 | 813.8  | 637.9  | 454.1  | 309.0  | 215.4 | 145.9 | 4.5  |
| 55°   | 1020.2 | 978.5  | 909.7  | 777.4  | 635.7  | 486.8  | 350.7  | 244.7  | 172.2 | 121.4 | 3.8  |
| 56°   | 774.0  | 732.3  | 693.5  | 596.2  | 466.5  | 363.1  | 261.3  | 187.6  | 134.6 | 95.9  | 3.4  |
| 57°   | 538.3  | 536.0  | 472.5  | 397.7  | 312.0  | 247.3  | 178.9  | 132.3  | 95.1  | 74.4  | 2.6  |
| 58°   | 349.2  | 337.6  | 297.0  | 253.7  | 204.1  | 154.5  | 115.0  | 89.8   | 64.7  | 50.7  | 2.3  |
| 59°   | 244.7  | 221.4  | 199.6  | 169.2  | 128.6  | 97.4   | 74.1   | 57.5   | 44.7  | 35.3  | 1.5  |
| 60°   | 150.4  | 145.5  | 130.8  | 103.0  | 83.5   | 68.8   | 55.3   | 42.5   | 32.7  | 25.2  | 0.8  |
| 62.5° | 42.9   | 43.6   | 39.5   | 35.0   | 30.1   | 25.9   | 23.3   | 19.9   | 16.5  | 13.2  | 0.0  |
| 65°   | 9.8    | 9.4    | 10.1   | 9.4    | 8.6    | 8.6    | 7.5    | 6.8    | 6.0   | 5.6   | 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° | 3.0 | 3.0  | 2.6 | 2.6  | 2.6 | 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 |

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**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|-------|------|--------|------|--------|------|
| 0°    | 27.8  | 27.8 | 27.8   | 27.8 | 27.8   | 27.8 |
| 2.5°  | 28.9  | 27.4 | 26.3   | 25.2 | 24.8   | 24.8 |
| 5°    | 28.2  | 25.9 | 23.7   | 22.6 | 21.8   | 21.8 |
| 7.5°  | 25.9  | 23.3 | 21.1   | 19.9 | 19.5   | 19.5 |
| 10°   | 23.3  | 20.3 | 18.0   | 17.3 | 17.3   | 16.9 |
| 12.5° | 20.3  | 17.3 | 15.8   | 15.4 | 15.4   | 15.4 |
| 15°   | 16.9  | 14.7 | 13.5   | 13.5 | 13.9   | 14.3 |
| 17.5° | 14.3  | 12.0 | 11.7   | 12.4 | 13.2   | 13.2 |
| 20°   | 12.0  | 10.5 | 10.5   | 11.3 | 12.0   | 12.4 |
| 22.5° | 10.1  | 9.0  | 9.4    | 10.5 | 11.7   | 12.0 |
| 25°   | 9.0   | 7.9  | 8.6    | 9.8  | 10.9   | 11.7 |
| 27.5° | 7.5   | 7.1  | 7.9    | 9.4  | 10.9   | 11.3 |
| 30°   | 6.4   | 6.4  | 7.5    | 9.0  | 10.5   | 10.9 |
| 31°   | 6.0   | 6.0  | 7.5    | 9.0  | 10.5   | 10.9 |
| 32°   | 5.6   | 6.0  | 7.1    | 9.0  | 10.5   | 10.9 |
| 33°   | 5.3   | 5.6  | 7.1    | 8.6  | 10.5   | 10.9 |
| 34°   | 4.9   | 5.6  | 7.1    | 8.6  | 10.5   | 10.9 |
| 35°   | 4.5   | 5.6  | 7.1    | 8.6  | 10.5   | 10.9 |
| 36°   | 4.1   | 5.3  | 6.8    | 8.6  | 10.5   | 10.9 |
| 37°   | 3.8   | 5.3  | 6.8    | 8.6  | 10.5   | 10.9 |
| 38°   | 3.4   | 4.9  | 6.8    | 8.6  | 10.5   | 10.9 |
| 39°   | 3.4   | 4.9  | 6.4    | 8.6  | 10.1   | 10.9 |
| 40°   | 3.0   | 4.5  | 6.4    | 8.6  | 10.1   | 10.9 |
| 41°   | 2.6   | 4.5  | 6.4    | 8.3  | 10.1   | 10.9 |
| 42°   | 2.3   | 4.1  | 6.0    | 8.3  | 10.1   | 10.9 |
| 43°   | 1.9   | 4.1  | 6.0    | 8.3  | 10.1   | 10.9 |
| 44°   | 1.9   | 3.8  | 6.0    | 8.3  | 10.1   | 10.9 |
| 45°   | 1.5   | 3.8  | 6.0    | 8.3  | 10.1   | 10.9 |
| 46°   | 1.1   | 3.8  | 6.0    | 8.3  | 10.1   | 10.9 |
| 47°   | 1.1   | 3.4  | 5.6    | 8.3  | 10.1   | 10.9 |
| 48°   | 0.8   | 3.4  | 5.6    | 8.3  | 10.1   | 10.9 |
| 49°   | 0.8   | 3.4  | 5.6    | 8.3  | 10.1   | 11.3 |
| 50°   | 0.8   | 3.4  | 5.6    | 7.9  | 10.1   | 11.3 |
| 51°   | 0.4   | 3.4  | 5.6    | 7.9  | 10.1   | 11.3 |
| 52°   | 0.4   | 3.4  | 5.3    | 7.9  | 10.5   | 11.3 |
| 53°   | 0.4   | 3.0  | 5.3    | 7.9  | 10.5   | 11.3 |
| 54°   | 0.4   | 3.0  | 5.3    | 7.9  | 10.5   | 10.9 |
| 55°   | 0.4   | 3.0  | 5.3    | 7.9  | 10.1   | 10.9 |
| 56°   | 0.4   | 2.6  | 5.3    | 7.9  | 10.1   | 10.9 |
| 57°   | 0.4   | 2.6  | 4.9    | 7.5  | 10.1   | 10.5 |
| 58°   | 0.4   | 2.6  | 4.9    | 7.5  | 10.1   | 10.5 |
| 59°   | 0.4   | 2.6  | 4.9    | 7.5  | 9.8    | 10.5 |
| 60°   | 0.8   | 2.3  | 4.5    | 7.1  | 9.8    | 10.5 |
| 62.5° | 0.8   | 2.3  | 4.5    | 7.1  | 9.4    | 10.1 |
| 65°   | 0.8   | 2.3  | 4.1    | 6.8  | 9.4    | 10.1 |



TEST NUMBER: P1344149

CATALOG NUMBER: P3A13R20B2750DE010 E3A451GPH\_2700K

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 0.8   | 1.9 | 3.8    | 6.4  | 9.0    | 9.8  |
| 70°   | 0.8   | 2.3 | 3.8    | 6.0  | 8.6    | 9.4  |
| 72.5° | 1.1   | 1.9 | 3.4    | 5.6  | 8.3    | 9.0  |
| 75°   | 1.1   | 1.9 | 3.4    | 5.3  | 7.9    | 8.3  |
| 77.5° | 1.5   | 1.9 | 3.0    | 4.5  | 7.1    | 7.5  |
| 80°   | 1.5   | 1.9 | 2.6    | 3.8  | 6.0    | 6.4  |
| 82.5° | 1.5   | 1.9 | 1.9    | 3.0  | 4.5    | 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)