

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: P1344200

Luminaire Tested: P3A13R20W2N902750DE010 E3A301GPH\_3000K

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1344200  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A13R20W2N902750DE010 E3A301GPH\_3000K  
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 3000K CCT AND, 90CRI ,  
E3A301GPH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

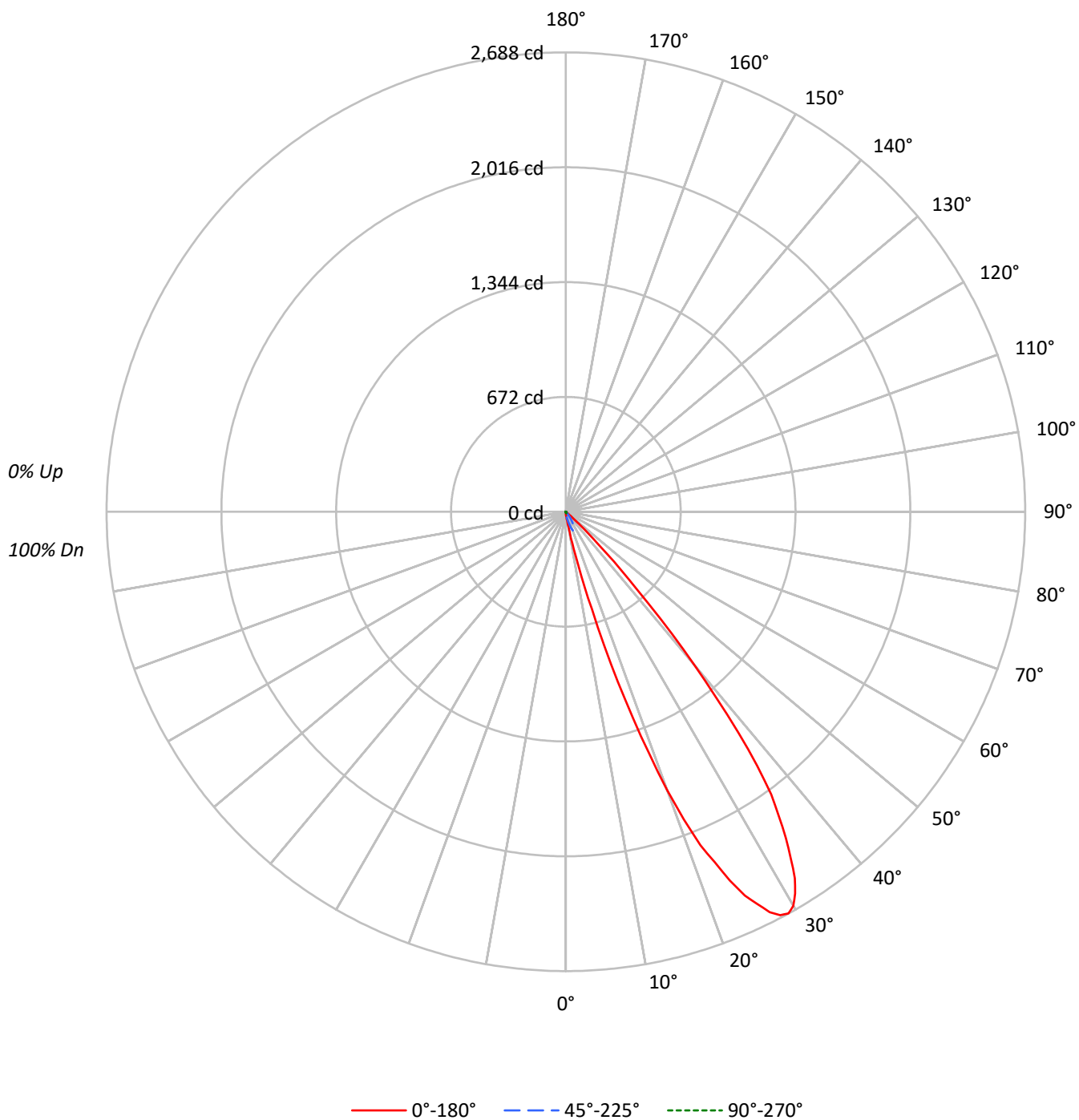
Lumens per Lamp: N/A  
Luminaire Lumens: 377.0 lumens  
Efficiency: N/A  
Efficacy: 30.6 lumens/watt  
Spacing Criteria (0/90/45): 2.29 / 0.54 / 1.19  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 12.3  
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: P1344200

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### 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 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |
| 1   | 113 | 109 | 107 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 95  | 93  | 92  |    |
| 2   | 106 | 100 | 96  | 92  | 104 | 99  | 94  | 91  | 95  | 92  | 89  | 92  | 89  | 87  | 89  | 87  | 85  | 83  |    |
| 3   | 99  | 92  | 86  | 81  | 97  | 90  | 85  | 81  | 88  | 83  | 79  | 85  | 81  | 78  | 83  | 80  | 77  | 75  |    |
| 4   | 93  | 84  | 78  | 73  | 91  | 83  | 77  | 72  | 81  | 76  | 71  | 79  | 74  | 71  | 77  | 73  | 70  | 68  |    |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 70  | 65  | 74  | 69  | 64  | 72  | 68  | 64  | 71  | 67  | 63  | 61  |    |
| 6   | 81  | 71  | 64  | 59  | 80  | 70  | 63  | 58  | 68  | 62  | 58  | 67  | 62  | 58  | 65  | 61  | 57  | 55  |    |
| 7   | 76  | 65  | 58  | 53  | 74  | 64  | 57  | 53  | 63  | 57  | 52  | 62  | 56  | 52  | 60  | 55  | 52  | 50  |    |
| 8   | 71  | 60  | 53  | 48  | 70  | 59  | 52  | 48  | 58  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 45  |    |
| 9   | 66  | 55  | 48  | 43  | 65  | 54  | 48  | 43  | 53  | 47  | 43  | 52  | 47  | 43  | 51  | 46  | 43  | 41  |    |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 44  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 48  | 42  | 39  | 37  |    |

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

|     | 0°     | 45°   | 90°  | 135° | 180° |
|-----|--------|-------|------|------|------|
| 0°  | 2851   | 2851  | 2851 | 2851 | 2851 |
| 5°  | 6560   | 4887  | 2707 | 1651 | 1431 |
| 10° | 20641  | 8528  | 2204 | 913  | 690  |
| 15° | 133712 | 15755 | 1635 | 318  | 68   |
| 20° | 403538 | 26976 | 1120 | 0    | 0    |
| 25° | 599309 | 27219 | 653  | 0    | 0    |
| 30° | 673952 | 20687 | 253  | 0    | 0    |
| 35° | 581481 | 12367 | 187  | 0    | 0    |
| 40° | 334827 | 4208  | 0    | 0    | 0    |
| 45° | 81683  | 1706  | 93   | 0    | 93   |
| 50° | 9791   | 478   | 102  | 102  | 341  |
| 55° | 1300   | 0     | 268  | 268  | 535  |
| 60° | 132    | 0     | 439  | 439  | 746  |
| 65° | 156    | 156   | 726  | 726  | 1090 |
| 70° | 192    | 192   | 898  | 898  | 1090 |
| 75° | 0      | 254   | 1186 | 847  | 1186 |
| 80° | 0      | 379   | 1263 | 884  | 1263 |
| 85° | 0      | 755   | 2516 | 755  | 755  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 82210 cd/sqm

TEST NUMBER: P1344200

CATALOG NUMBER: P3A13R20W2N902750DE010 E3A301GPH\_3000K

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.7    | 0.5       |
| 10°-20°   | 34.9   | 9.3       |
| 20°-30°   | 152.3  | 40.4      |
| 30°-40°   | 153.4  | 40.7      |
| 40°-50°   | 30.8   | 8.2       |
| 50°-60°   | 1.5    | 0.4       |
| 60°-70°   | 1.0    | 0.3       |
| 70°-80°   | 0.9    | 0.2       |
| 80°-90°   | 0.4    | 0.1       |
| 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°    | 189.0  | 50.1      |
| 0°-40°    | 342.3  | 90.8      |
| 0°-60°    | 374.6  | 99.4      |
| 0°-90°    | 377.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 377.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 13   | 13  | 13  | 13   | 13   |      |
| 5°  | 30   | 22  | 12  | 8    | 6    | 5    |
| 15° | 589  | 69  | 7   | 1    | 0    | 231  |
| 25° | 2477 | 112 | 3   | 0    | 0    | 1117 |
| 35° | 2172 | 46  | 1   | 0    | 0    | 1292 |
| 45° | 263  | 6   | 0   | 0    | 0    | 287  |
| 55° | 3    | 0   | 1   | 1    | 1    | 6    |
| 65° | 0    | 0   | 1   | 1    | 2    | 0    |
| 75° | 0    | 0   | 1   | 1    | 1    | 0    |
| 85° | 0    | 0   | 1   | 0    | 0    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1344200

CATALOG NUMBER: P3A13R20W2N902750DE010 E3A301GPH\_3000K

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 2.5°   | 5°     | 7.5°   | 10°    | 12.5°  | 15°    | 17.5°  | 20°    | 22.5°  | 45°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 0°    | 13.0   | 13.0   | 13.0   | 13.0   | 13.0   | 13.0   | 13.0   | 13.0   | 13.0   | 13.0   | 13.0  |
| 2.5°  | 19.5   | 19.5   | 19.2   | 19.2   | 18.8   | 19.2   | 18.5   | 18.8   | 18.8   | 18.5   | 16.8  |
| 5°    | 29.8   | 30.4   | 30.1   | 30.1   | 29.8   | 30.1   | 29.4   | 28.7   | 28.0   | 28.0   | 22.2  |
| 7.5°  | 48.9   | 48.6   | 47.9   | 48.2   | 47.2   | 46.5   | 45.8   | 45.5   | 43.4   | 42.4   | 29.1  |
| 10°   | 92.7   | 94.7   | 93.0   | 92.7   | 86.5   | 86.2   | 82.1   | 76.3   | 71.1   | 68.4   | 38.3  |
| 12.5° | 255.2  | 266.1  | 249.0  | 240.8  | 236.0  | 217.5  | 209.7  | 189.5  | 170.0  | 155.3  | 48.6  |
| 15°   | 589.0  | 616.0  | 581.4  | 583.8  | 555.1  | 502.4  | 456.3  | 416.6  | 369.7  | 322.5  | 69.4  |
| 17.5° | 1154.0 | 1132.1 | 1113.3 | 1081.5 | 1023.0 | 945.7  | 846.2  | 745.3  | 658.1  | 566.7  | 96.8  |
| 20°   | 1729.3 | 1709.8 | 1667.0 | 1597.6 | 1523.1 | 1408.5 | 1290.1 | 1138.6 | 991.9  | 854.4  | 115.6 |
| 21°   | 1927.3 | 1920.8 | 1850.7 | 1808.0 | 1693.0 | 1583.6 | 1447.1 | 1285.0 | 1119.8 | 957.0  | 118.7 |
| 22°   | 2104.2 | 2065.2 | 2027.5 | 1964.3 | 1850.0 | 1731.0 | 1579.1 | 1408.5 | 1229.2 | 1048.3 | 119.0 |
| 23°   | 2226.6 | 2208.8 | 2173.2 | 2101.8 | 1988.2 | 1848.3 | 1688.3 | 1509.7 | 1320.9 | 1113.0 | 118.0 |
| 24°   | 2362.0 | 2339.5 | 2287.5 | 2204.0 | 2089.5 | 1951.3 | 1768.6 | 1591.5 | 1386.2 | 1167.3 | 115.3 |
| 25°   | 2477.0 | 2441.7 | 2380.2 | 2290.2 | 2165.0 | 2022.4 | 1838.7 | 1644.1 | 1431.7 | 1203.9 | 112.5 |
| 26°   | 2551.5 | 2532.4 | 2453.4 | 2355.5 | 2221.5 | 2074.4 | 1887.0 | 1684.5 | 1461.1 | 1220.7 | 108.1 |
| 27°   | 2629.2 | 2593.9 | 2516.3 | 2403.8 | 2258.4 | 2108.3 | 1914.3 | 1704.0 | 1471.4 | 1221.4 | 102.6 |
| 28°   | 2673.6 | 2635.3 | 2547.4 | 2429.1 | 2282.4 | 2127.1 | 1930.1 | 1710.1 | 1469.4 | 1210.8 | 96.1  |
| 29°   | 2687.7 | 2639.4 | 2553.6 | 2433.2 | 2288.2 | 2128.4 | 1927.7 | 1701.2 | 1451.2 | 1184.8 | 88.6  |
| 30°   | 2661.7 | 2612.4 | 2531.0 | 2413.7 | 2269.7 | 2111.3 | 1905.4 | 1671.8 | 1419.1 | 1147.5 | 81.7  |
| 31°   | 2604.9 | 2563.2 | 2484.5 | 2366.8 | 2228.7 | 2071.3 | 1855.2 | 1623.6 | 1364.4 | 1097.6 | 73.9  |
| 32°   | 2530.0 | 2488.9 | 2411.6 | 2305.3 | 2164.7 | 2006.0 | 1786.4 | 1548.4 | 1300.0 | 1023.0 | 66.0  |
| 33°   | 2417.5 | 2393.9 | 2324.4 | 2222.8 | 2082.3 | 1912.6 | 1694.1 | 1458.4 | 1208.4 | 940.2  | 59.2  |
| 34°   | 2303.6 | 2273.8 | 2225.2 | 2114.1 | 1962.9 | 1793.6 | 1573.7 | 1334.3 | 1096.5 | 847.5  | 52.7  |
| 35°   | 2172.2 | 2154.4 | 2078.2 | 1989.2 | 1837.4 | 1664.3 | 1445.8 | 1213.5 | 966.2  | 744.3  | 46.2  |
| 36°   | 2045.0 | 2017.6 | 1930.8 | 1836.7 | 1689.3 | 1502.2 | 1286.4 | 1068.2 | 853.7  | 647.5  | 39.3  |
| 37°   | 1860.3 | 1818.6 | 1756.7 | 1657.5 | 1485.1 | 1325.7 | 1128.7 | 926.2  | 715.2  | 542.8  | 31.8  |
| 38°   | 1643.1 | 1623.6 | 1537.8 | 1437.9 | 1295.3 | 1144.1 | 949.1  | 777.4  | 590.0  | 453.2  | 24.3  |
| 39°   | 1386.9 | 1386.6 | 1304.5 | 1232.3 | 1092.8 | 956.7  | 780.9  | 631.0  | 487.0  | 364.9  | 18.8  |
| 40°   | 1169.7 | 1129.4 | 1078.8 | 988.1  | 881.1  | 765.5  | 611.5  | 493.9  | 377.9  | 294.1  | 14.7  |
| 42.5° | 613.3  | 609.8  | 580.1  | 512.0  | 452.2  | 384.1  | 305.4  | 254.5  | 199.1  | 162.1  | 9.2   |
| 45°   | 263.4  | 265.1  | 244.6  | 234.3  | 211.0  | 182.6  | 154.3  | 128.6  | 110.1  | 89.3   | 5.5   |
| 47.5° | 66.7   | 64.0   | 63.3   | 65.7   | 65.7   | 63.6   | 57.1   | 53.7   | 49.6   | 45.5   | 3.1   |
| 50°   | 28.7   | 28.0   | 27.4   | 27.4   | 25.7   | 24.6   | 22.9   | 20.9   | 19.2   | 17.1   | 1.4   |
| 52.5° | 10.6   | 10.9   | 11.3   | 10.9   | 10.9   | 10.6   | 10.6   | 10.3   | 9.2    | 8.2    | 0.7   |
| 55°   | 3.4    | 3.4    | 3.4    | 3.8    | 3.8    | 4.1    | 4.1    | 4.1    | 4.1    | 3.8    | 0.0   |
| 57.5° | 0.7    | 0.7    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.4    | 1.4    | 0.0   |
| 60°   | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.0    | 0.0    | 0.0    | 0.0   |
| 62.5° | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3   |
| 65°   | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3   |
| 67.5° | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3   |
| 70°   | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3   |
| 72.5° | 0.3    | 0.0    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3   |
| 75°   | 0.0    | 0.0    | 0.0    | 0.3    | 0.0    | 0.3    | 0.3    | 0.0    | 0.3    | 0.3    | 0.3   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.3    | 0.3   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.3   |



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CATALOG NUMBER: P3A13R20W2N902750DE010 E3A301GPH\_3000K

**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 2.5° | 5°  | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 45° |
|-------|-----|------|-----|------|-----|-------|-----|-------|-----|-------|-----|
| 82.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.3 |
| 85°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.3 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 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 |

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CATALOG NUMBER: P3A13R20W2N902750DE010 E3A301GPH\_3000K

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|-------|------|--------|------|--------|------|
| 0°    | 13.0  | 13.0 | 13.0   | 13.0 | 13.0   | 13.0 |
| 2.5°  | 15.0  | 13.3 | 11.3   | 9.6  | 9.2    | 8.9  |
| 5°    | 16.8  | 12.3 | 9.2    | 7.5  | 6.8    | 6.5  |
| 7.5°  | 18.1  | 11.3 | 7.5    | 5.5  | 4.8    | 4.4  |
| 10°   | 18.8  | 9.9  | 6.2    | 4.1  | 3.1    | 3.1  |
| 12.5° | 19.2  | 8.6  | 4.4    | 2.7  | 1.7    | 1.7  |
| 15°   | 18.8  | 7.2  | 3.4    | 1.4  | 0.3    | 0.3  |
| 17.5° | 17.1  | 5.8  | 2.1    | 0.3  | 0.0    | 0.0  |
| 20°   | 14.7  | 4.8  | 1.4    | 0.0  | 0.0    | 0.0  |
| 21°   | 14.0  | 4.1  | 1.0    | 0.0  | 0.0    | 0.0  |
| 22°   | 13.0  | 3.8  | 0.7    | 0.0  | 0.0    | 0.0  |
| 23°   | 12.0  | 3.4  | 0.7    | 0.0  | 0.0    | 0.0  |
| 24°   | 10.9  | 3.1  | 0.3    | 0.0  | 0.0    | 0.0  |
| 25°   | 10.3  | 2.7  | 0.3    | 0.0  | 0.0    | 0.0  |
| 26°   | 9.6   | 2.4  | 0.3    | 0.0  | 0.0    | 0.0  |
| 27°   | 8.6   | 2.1  | 0.0    | 0.0  | 0.0    | 0.0  |
| 28°   | 7.9   | 1.7  | 0.0    | 0.0  | 0.0    | 0.0  |
| 29°   | 6.8   | 1.4  | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 5.8   | 1.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 31°   | 4.8   | 1.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 32°   | 4.1   | 0.7  | 0.0    | 0.0  | 0.0    | 0.0  |
| 33°   | 3.4   | 0.7  | 0.0    | 0.0  | 0.0    | 0.0  |
| 34°   | 3.1   | 0.7  | 0.0    | 0.0  | 0.0    | 0.0  |
| 35°   | 2.7   | 0.7  | 0.0    | 0.0  | 0.0    | 0.0  |
| 36°   | 2.1   | 0.3  | 0.0    | 0.0  | 0.0    | 0.0  |
| 37°   | 1.7   | 0.3  | 0.0    | 0.0  | 0.0    | 0.0  |
| 38°   | 1.4   | 0.3  | 0.0    | 0.0  | 0.0    | 0.0  |
| 39°   | 1.0   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 40°   | 1.0   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 42.5° | 0.3   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 45°   | 0.0   | 0.3  | 0.0    | 0.0  | 0.3    | 0.3  |
| 47.5° | 0.0   | 0.3  | 0.0    | 0.0  | 0.3    | 0.7  |
| 50°   | 0.0   | 0.3  | 0.3    | 0.3  | 0.7    | 1.0  |
| 52.5° | 0.0   | 0.7  | 0.3    | 0.3  | 1.0    | 1.0  |
| 55°   | 0.3   | 0.7  | 0.3    | 0.7  | 1.4    | 1.4  |
| 57.5° | 0.3   | 0.7  | 0.7    | 1.0  | 1.4    | 1.7  |
| 60°   | 0.7   | 1.0  | 1.0    | 1.0  | 1.7    | 1.7  |
| 62.5° | 0.7   | 1.0  | 1.4    | 1.4  | 1.7    | 2.1  |
| 65°   | 0.7   | 1.4  | 1.4    | 1.4  | 1.7    | 2.1  |
| 67.5° | 1.0   | 1.4  | 1.4    | 1.4  | 1.7    | 2.1  |
| 70°   | 1.0   | 1.4  | 1.4    | 1.4  | 1.7    | 1.7  |
| 72.5° | 1.0   | 1.4  | 1.0    | 1.4  | 1.4    | 1.7  |
| 75°   | 1.0   | 1.4  | 1.0    | 1.0  | 1.4    | 1.4  |
| 77.5° | 0.7   | 1.0  | 1.0    | 0.7  | 1.0    | 1.0  |
| 80°   | 0.7   | 1.0  | 0.7    | 0.7  | 1.0    | 1.0  |



TEST NUMBER: P1344200

CATALOG NUMBER: P3A13R20W2N902750DE010 E3A301GPH\_3000K

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 82.5° | 0.7   | 1.0 | 0.7    | 0.3  | 0.7    | 0.7  |
| 85°   | 0.7   | 1.0 | 0.7    | 0.3  | 0.3    | 0.3  |
| 87.5° | 0.7   | 1.0 | 0.7    | 0.3  | 0.0    | 0.3  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)