

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: P1345285

Luminaire Tested: P3A13R30W2N902750DE010 E3CA451MW\_4000K

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1345285  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-76)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A13R30W2N902750DE010 E3CA451MW\_4000K  
Description: 3in Adjustable Tunable White LED luminaire with, R30 optic, 4000K CCT AND, 90CRI ,  
E3CA451MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

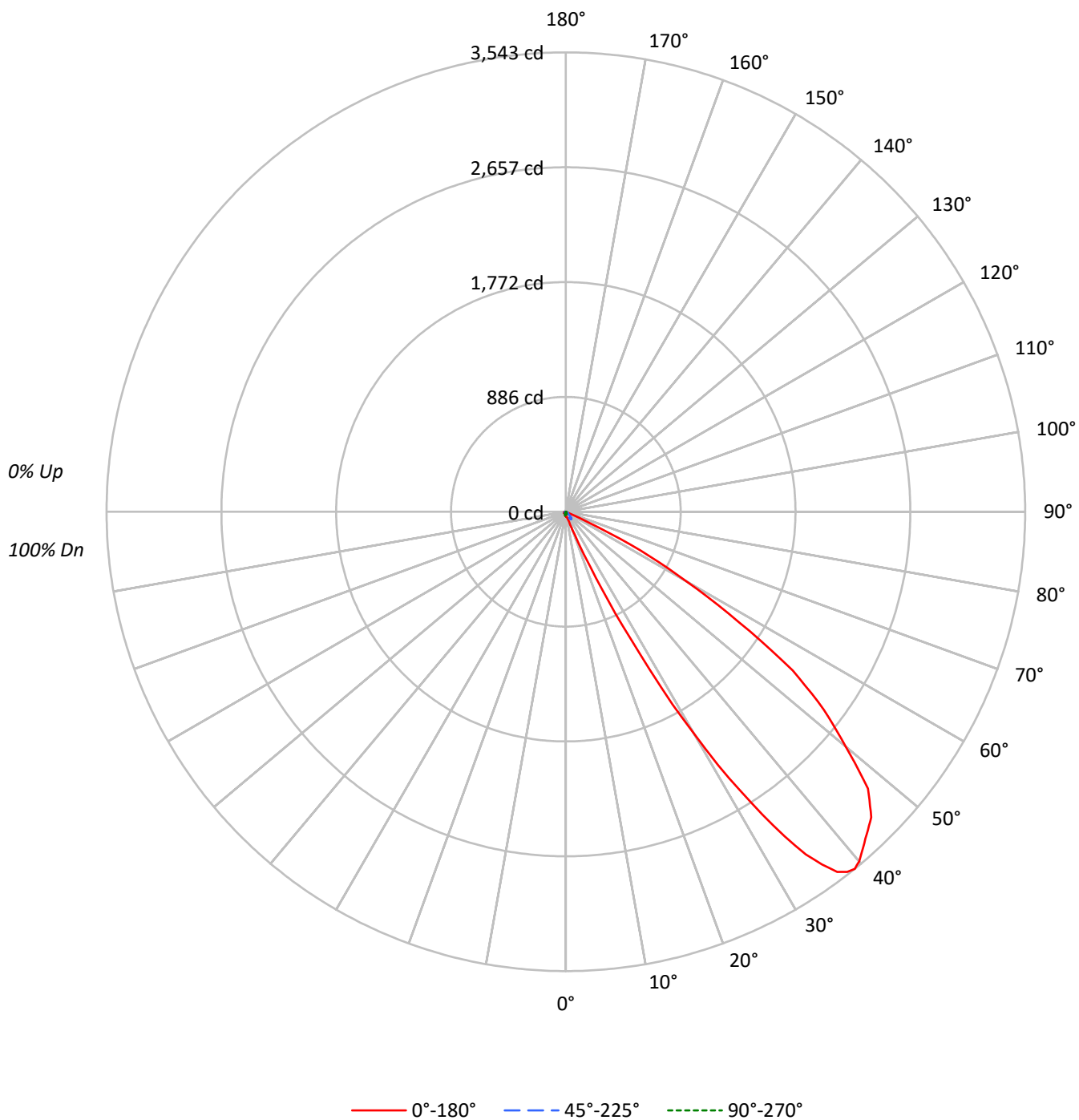
Lumens per Lamp: N/A  
Luminaire Lumens: 921.0 lumens  
Efficiency: N/A  
Efficacy: 74.9 lumens/watt  
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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: P1345285

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### Luminous Intensity Polar Plot



TEST NUMBER: P1345285

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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 | 100 | 97  | 100 | 97  | 94  | 96  | 93  | 91  | 92  | 90  | 89  | 87  |    |    |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 83  | 78  | 84  | 80  | 77  | 81  | 78  | 75  | 73  |    |    |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 63  | 61  |    |    |
| 4   | 83  | 71  | 62  | 55  | 80  | 69  | 61  | 55  | 67  | 60  | 54  | 64  | 58  | 53  | 62  | 57  | 52  | 50  |    |    |
| 5   | 75  | 62  | 52  | 46  | 73  | 60  | 52  | 45  | 58  | 51  | 45  | 56  | 50  | 44  | 54  | 49  | 44  | 42  |    |    |
| 6   | 68  | 54  | 45  | 38  | 66  | 53  | 44  | 38  | 51  | 43  | 37  | 49  | 42  | 37  | 48  | 42  | 37  | 35  |    |    |
| 7   | 62  | 48  | 38  | 32  | 60  | 47  | 38  | 32  | 45  | 37  | 31  | 44  | 36  | 31  | 42  | 36  | 31  | 29  |    |    |
| 8   | 56  | 42  | 33  | 27  | 55  | 41  | 33  | 27  | 40  | 32  | 26  | 39  | 32  | 26  | 37  | 31  | 26  | 24  |    |    |
| 9   | 52  | 37  | 29  | 23  | 50  | 37  | 28  | 23  | 36  | 28  | 22  | 34  | 27  | 22  | 33  | 27  | 22  | 20  |    |    |
| 10  | 48  | 33  | 25  | 19  | 46  | 33  | 25  | 19  | 32  | 24  | 19  | 31  | 24  | 19  | 30  | 24  | 19  | 17  |    |    |

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

|     | 0°      | 45°   | 90°  | 135° | 180°  |
|-----|---------|-------|------|------|-------|
| 0°  | 7828    | 7828  | 7828 | 7828 | 7828  |
| 5°  | 8364    | 8188  | 7682 | 7000 | 6824  |
| 10° | 9151    | 8127  | 6747 | 6056 | 5878  |
| 15° | 13394   | 8104  | 5630 | 5108 | 5289  |
| 20° | 33673   | 8867  | 4340 | 4340 | 4877  |
| 25° | 156372  | 11081 | 3387 | 3944 | 4500  |
| 30° | 497773  | 15319 | 2557 | 3722 | 4507  |
| 35° | 863736  | 18685 | 2088 | 3534 | 4578  |
| 40° | 1007344 | 18664 | 1546 | 3550 | 4666  |
| 45° | 1033068 | 13242 | 1675 | 3845 | 5055  |
| 50° | 960719  | 7403  | 1330 | 3957 | 5833  |
| 55° | 816525  | 3861  | 1491 | 4435 | 6537  |
| 60° | 471585  | 1009  | 1710 | 4780 | 7149  |
| 65° | 96197   | 0     | 2024 | 5656 | 8042  |
| 70° | 1475    | 513   | 2500 | 6475 | 9425  |
| 75° | 1356    | 678   | 2626 | 6608 | 11184 |
| 80° | 1010    | 1010  | 3915 | 7829 | 12754 |
| 85° | 0       | 2013  | 7799 | 7799 | 15599 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1033068 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 3.2    | 0.4       |
| 10°-20°   | 9.3    | 1.0       |
| 20°-30°   | 53.1   | 5.8       |
| 30°-40°   | 248.1  | 26.9      |
| 40°-50°   | 350.8  | 38.1      |
| 50°-60°   | 215.8  | 23.4      |
| 60°-70°   | 32.9   | 3.6       |
| 70°-80°   | 5.2    | 0.6       |
| 80°-90°   | 2.6    | 0.3       |
| 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°    | 65.6   | 7.1       |
| 0°-40°    | 313.7  | 34.1      |
| 0°-60°    | 880.3  | 95.6      |
| 0°-90°    | 921.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 921.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 36   | 36  | 36  | 36   | 36   |      |
| 5°  | 38   | 37  | 35  | 32   | 31   | 4    |
| 15° | 59   | 36  | 25  | 22   | 23   | 21   |
| 25° | 646  | 46  | 14  | 16   | 19   | 398  |
| 35° | 3227 | 70  | 8   | 13   | 17   | 1936 |
| 45° | 3331 | 43  | 5   | 12   | 16   | 2526 |
| 55° | 2136 | 10  | 4   | 12   | 17   | 1817 |
| 65° | 185  | 0   | 4   | 11   | 16   | 336  |
| 75° | 2    | 1   | 3   | 8    | 13   | 2    |
| 85° | 0    | 1   | 3   | 3    | 6    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 45°  | 67.5° | 90°  | 112.5° | 135° |
|-------|--------|--------|--------|--------|--------|--------|------|-------|------|--------|------|
| 0°    | 35.7   | 35.7   | 35.7   | 35.7   | 35.7   | 35.7   | 35.7 | 35.7  | 35.7 | 35.7   | 35.7 |
| 2.5°  | 36.5   | 36.5   | 37.2   | 37.2   | 36.5   | 37.2   | 37.2 | 37.2  | 35.7 | 34.9   | 33.4 |
| 5°    | 38.0   | 38.0   | 38.0   | 38.8   | 38.0   | 38.0   | 37.2 | 36.5  | 34.9 | 32.6   | 31.8 |
| 7.5°  | 39.6   | 39.6   | 38.8   | 39.6   | 38.8   | 38.8   | 37.2 | 35.7  | 33.4 | 31.0   | 29.5 |
| 10°   | 41.1   | 41.1   | 40.3   | 40.3   | 39.6   | 39.6   | 36.5 | 34.1  | 30.3 | 27.9   | 27.2 |
| 12.5° | 45.8   | 45.8   | 45.0   | 44.2   | 42.7   | 41.9   | 35.7 | 31.8  | 27.2 | 24.8   | 24.1 |
| 15°   | 59.0   | 58.2   | 56.6   | 54.3   | 50.4   | 49.7   | 35.7 | 29.5  | 24.8 | 22.5   | 22.5 |
| 17.5° | 80.7   | 79.9   | 77.6   | 71.4   | 64.4   | 62.1   | 35.7 | 26.4  | 21.7 | 20.2   | 20.2 |
| 20°   | 144.3  | 138.1  | 126.5  | 110.9  | 94.6   | 86.1   | 38.0 | 23.3  | 18.6 | 17.8   | 18.6 |
| 21°   | 188.5  | 182.3  | 167.6  | 142.0  | 113.3  | 104.0  | 39.6 | 22.5  | 17.8 | 17.1   | 18.6 |
| 22°   | 256.8  | 249.8  | 219.6  | 184.6  | 143.5  | 127.2  | 40.3 | 20.9  | 16.3 | 16.3   | 17.8 |
| 23°   | 358.4  | 346.8  | 295.6  | 239.7  | 179.2  | 155.9  | 41.9 | 20.2  | 15.5 | 16.3   | 17.1 |
| 24°   | 469.4  | 459.3  | 401.1  | 317.3  | 228.9  | 195.5  | 43.4 | 19.4  | 14.7 | 14.7   | 16.3 |
| 25°   | 646.3  | 634.6  | 531.4  | 400.3  | 290.2  | 235.1  | 45.8 | 17.8  | 14.0 | 14.0   | 16.3 |
| 26°   | 875.1  | 821.6  | 684.3  | 515.9  | 357.6  | 294.8  | 48.1 | 17.1  | 13.2 | 14.0   | 15.5 |
| 27°   | 1092.3 | 1048.1 | 893.7  | 661.8  | 442.2  | 362.3  | 51.2 | 16.3  | 12.4 | 13.2   | 15.5 |
| 28°   | 1377.8 | 1315.8 | 1121.0 | 837.1  | 557.0  | 438.3  | 54.3 | 15.5  | 11.6 | 13.2   | 14.7 |
| 29°   | 1697.5 | 1610.6 | 1375.5 | 1034.2 | 686.6  | 523.7  | 57.4 | 14.7  | 10.9 | 12.4   | 14.7 |
| 30°   | 1965.9 | 1884.4 | 1649.4 | 1267.7 | 835.5  | 636.2  | 60.5 | 14.0  | 10.1 | 12.4   | 14.7 |
| 31°   | 2280.9 | 2157.5 | 1872.8 | 1465.5 | 963.6  | 748.7  | 63.6 | 12.4  | 9.3  | 11.6   | 14.0 |
| 32°   | 2536.1 | 2450.0 | 2147.4 | 1688.9 | 1131.9 | 872.8  | 65.9 | 11.6  | 9.3  | 11.6   | 14.0 |
| 33°   | 2782.8 | 2667.2 | 2374.8 | 1903.1 | 1284.0 | 1000.0 | 68.3 | 10.9  | 8.5  | 10.9   | 14.0 |
| 34°   | 3018.7 | 2912.4 | 2589.7 | 2076.1 | 1427.5 | 1121.0 | 69.8 | 9.3   | 8.5  | 10.9   | 13.2 |
| 35°   | 3226.6 | 3103.2 | 2779.0 | 2245.2 | 1574.9 | 1231.2 | 69.8 | 8.5   | 7.8  | 10.1   | 13.2 |
| 36°   | 3361.6 | 3273.1 | 2943.4 | 2412.0 | 1708.3 | 1335.9 | 69.8 | 7.8   | 7.0  | 10.1   | 12.4 |
| 37°   | 3477.2 | 3374.0 | 3075.3 | 2540.0 | 1806.9 | 1419.7 | 69.8 | 7.0   | 7.0  | 10.1   | 12.4 |
| 38°   | 3524.5 | 3436.1 | 3166.1 | 2653.3 | 1899.2 | 1505.1 | 69.0 | 6.2   | 6.2  | 9.3    | 12.4 |
| 39°   | 3543.1 | 3464.0 | 3234.4 | 2734.7 | 1967.5 | 1562.5 | 67.5 | 5.4   | 6.2  | 9.3    | 12.4 |
| 40°   | 3519.1 | 3459.3 | 3269.3 | 2787.5 | 2021.8 | 1604.4 | 65.2 | 4.7   | 5.4  | 9.3    | 12.4 |
| 42.5° | 3419.8 | 3380.2 | 3261.5 | 2840.2 | 2068.3 | 1635.4 | 56.6 | 3.1   | 5.4  | 8.5    | 12.4 |
| 45°   | 3331.3 | 3287.9 | 3183.2 | 2785.2 | 2007.8 | 1574.1 | 42.7 | 1.6   | 5.4  | 8.5    | 12.4 |
| 47.5° | 3159.9 | 3132.7 | 3050.5 | 2644.7 | 1875.1 | 1436.0 | 30.3 | 0.8   | 4.7  | 7.8    | 11.6 |
| 50°   | 2816.2 | 2790.6 | 2682.0 | 2296.4 | 1612.9 | 1214.1 | 21.7 | 0.8   | 3.9  | 7.8    | 11.6 |
| 52.5° | 2508.2 | 2481.0 | 2325.1 | 1909.3 | 1239.0 | 889.9  | 14.0 | 0.8   | 3.9  | 7.8    | 11.6 |
| 55°   | 2135.8 | 2088.5 | 1883.7 | 1449.2 | 878.2  | 596.6  | 10.1 | 0.8   | 3.9  | 7.0    | 11.6 |
| 57.5° | 1581.1 | 1512.1 | 1329.0 | 988.4  | 505.8  | 323.5  | 5.4  | 0.8   | 3.9  | 7.0    | 11.6 |
| 60°   | 1075.3 | 1034.2 | 831.7  | 521.3  | 215.7  | 136.5  | 2.3  | 0.8   | 3.9  | 7.0    | 10.9 |
| 62.5° | 651.7  | 599.7  | 418.2  | 221.9  | 93.1   | 62.1   | 0.0  | 1.6   | 3.9  | 7.0    | 10.9 |
| 65°   | 185.4  | 164.5  | 109.4  | 50.4   | 26.4   | 20.2   | 0.0  | 1.6   | 3.9  | 7.0    | 10.9 |
| 67.5° | 6.2    | 6.2    | 6.2    | 5.4    | 3.9    | 3.9    | 0.8  | 1.6   | 3.9  | 7.0    | 10.1 |
| 70°   | 2.3    | 2.3    | 2.3    | 1.6    | 1.6    | 0.8    | 0.8  | 1.6   | 3.9  | 6.2    | 10.1 |
| 72.5° | 1.6    | 1.6    | 1.6    | 1.6    | 0.8    | 0.8    | 0.8  | 1.6   | 3.1  | 5.4    | 9.3  |
| 75°   | 1.6    | 1.6    | 1.6    | 0.8    | 0.8    | 0.8    | 0.8  | 2.3   | 3.1  | 5.4    | 7.8  |
| 77.5° | 1.6    | 1.6    | 1.6    | 0.8    | 0.8    | 0.8    | 0.8  | 2.3   | 3.1  | 4.7    | 7.8  |
| 80°   | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8  | 2.3   | 3.1  | 4.7    | 6.2  |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 5°  | 10° | 15° | 20° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° |
|-------|-----|-----|-----|-----|-----|-------|-----|-------|-----|--------|------|
| 82.5° | 0.8 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0   | 0.8 | 2.3   | 3.1 | 3.1    | 4.7  |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.8 | 2.3   | 3.1 | 2.3    | 3.1  |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.8 | 2.3   | 2.3 | 2.3    | 1.6  |
| 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):**

|       | 157.5° | 180° |
|-------|--------|------|
| 0°    | 35.7   | 35.7 |
| 2.5°  | 33.4   | 33.4 |
| 5°    | 31.0   | 31.0 |
| 7.5°  | 28.7   | 28.7 |
| 10°   | 26.4   | 26.4 |
| 12.5° | 24.8   | 24.8 |
| 15°   | 22.5   | 23.3 |
| 17.5° | 20.9   | 21.7 |
| 20°   | 20.2   | 20.9 |
| 21°   | 20.2   | 20.9 |
| 22°   | 19.4   | 20.2 |
| 23°   | 19.4   | 20.2 |
| 24°   | 18.6   | 19.4 |
| 25°   | 17.8   | 18.6 |
| 26°   | 17.8   | 18.6 |
| 27°   | 17.8   | 18.6 |
| 28°   | 17.1   | 18.6 |
| 29°   | 17.1   | 17.8 |
| 30°   | 17.1   | 17.8 |
| 31°   | 16.3   | 17.8 |
| 32°   | 16.3   | 17.8 |
| 33°   | 16.3   | 17.1 |
| 34°   | 15.5   | 17.1 |
| 35°   | 15.5   | 17.1 |
| 36°   | 15.5   | 17.1 |
| 37°   | 15.5   | 16.3 |
| 38°   | 15.5   | 17.1 |
| 39°   | 15.5   | 16.3 |
| 40°   | 15.5   | 16.3 |
| 42.5° | 15.5   | 16.3 |
| 45°   | 15.5   | 16.3 |
| 47.5° | 15.5   | 17.1 |
| 50°   | 15.5   | 17.1 |
| 52.5° | 15.5   | 17.1 |
| 55°   | 15.5   | 17.1 |
| 57.5° | 15.5   | 16.3 |
| 60°   | 15.5   | 16.3 |
| 62.5° | 14.7   | 16.3 |
| 65°   | 14.7   | 15.5 |
| 67.5° | 14.7   | 15.5 |
| 70°   | 14.0   | 14.7 |
| 72.5° | 13.2   | 14.0 |
| 75°   | 11.6   | 13.2 |
| 77.5° | 10.9   | 11.6 |
| 80°   | 9.3    | 10.1 |



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CATALOG NUMBER: P3A13R30W2N902750DE010 E3CA451MW\_4000K

**CANDELA DISTRIBUTION (continued):**

|       | 157.5° | 180° |
|-------|--------|------|
| 82.5° | 7.8    | 7.8  |
| 85°   | 5.4    | 6.2  |
| 87.5° | 3.1    | 3.1  |
| 90°   | 0.0    | 0.0  |

(END OF REPORT)