

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: P1334599

Luminaire Tested: P3A02R20B2750DE010 E3CA301MW\_3500K

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1334599  
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: P3A02R20B2750DE010 E3CA301MW\_3500K  
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R20 optic, 3500K CCT AND, 80CRI , E3CA301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

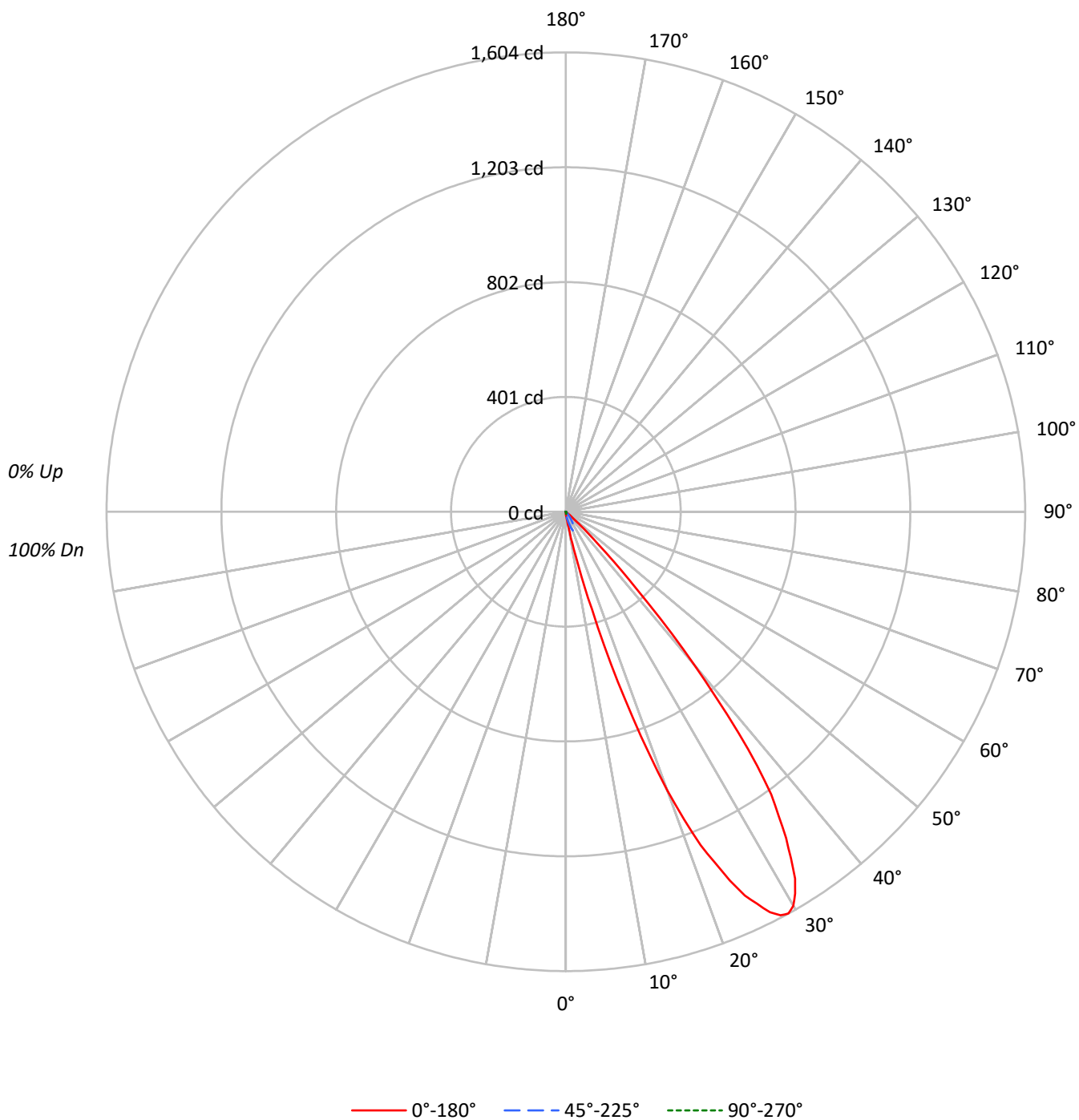
Lumens per Lamp: N/A  
Luminaire Lumens: 225.0 lumens  
Efficiency: N/A  
Efficacy: 77.6 lumens/watt  
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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

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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 | 10 |
| 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°  | 1710   | 1710  | 1710 | 1710 | 1710 |
| 5°  | 3918   | 2928  | 1607 | 991  | 858  |
| 10° | 12313  | 5099  | 1314 | 534  | 401  |
| 15° | 79796  | 9398  | 976  | 182  | 45   |
| 20° | 240844 | 16101 | 677  | 0    | 0    |
| 25° | 357674 | 16259 | 387  | 0    | 0    |
| 30° | 402214 | 12356 | 152  | 0    | 0    |
| 35° | 347036 | 7388  | 107  | 0    | 0    |
| 40° | 199832 | 2519  | 0    | 0    | 0    |
| 45° | 48749  | 1023  | 62   | 0    | 62   |
| 50° | 5833   | 273   | 68   | 68   | 205  |
| 55° | 765    | 0     | 153  | 153  | 306  |
| 60° | 88     | 0     | 263  | 263  | 439  |
| 65° | 104    | 104   | 415  | 415  | 623  |
| 70° | 128    | 128   | 513  | 513  | 641  |
| 75° | 0      | 169   | 678  | 508  | 678  |
| 80° | 0      | 253   | 758  | 505  | 758  |
| 85° | 0      | 503   | 1510 | 503  | 503  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 49059 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.0    | 0.5       |
| 10°-20°   | 20.8   | 9.3       |
| 20°-30°   | 90.9   | 40.4      |
| 30°-40°   | 91.5   | 40.7      |
| 40°-50°   | 18.4   | 8.2       |
| 50°-60°   | 0.9    | 0.4       |
| 60°-70°   | 0.6    | 0.3       |
| 70°-80°   | 0.5    | 0.2       |
| 80°-90°   | 0.3    | 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°    | 112.8  | 50.1      |
| 0°-40°    | 204.3  | 90.8      |
| 0°-60°    | 223.6  | 99.4      |
| 0°-90°    | 225.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 225.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 8    | 8   | 8   | 8    | 8    |      |
| 5°  | 18   | 13  | 7   | 4    | 4    | 3    |
| 15° | 352  | 41  | 4   | 1    | 0    | 138  |
| 25° | 1478 | 67  | 2   | 0    | 0    | 667  |
| 35° | 1296 | 28  | 0   | 0    | 0    | 771  |
| 45° | 157  | 3   | 0   | 0    | 0    | 171  |
| 55° | 2    | 0   | 0   | 0    | 1    | 4    |
| 65° | 0    | 0   | 1   | 1    | 1    | 0    |
| 75° | 0    | 0   | 1   | 1    | 1    | 0    |
| 85° | 0    | 0   | 1   | 0    | 0    | 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°    | 7.8    | 7.8    | 7.8    | 7.8    | 7.8    | 7.8    | 7.8    | 7.8    | 7.8   | 7.8   | 7.8  |
| 2.5°  | 11.6   | 11.6   | 11.4   | 11.4   | 11.2   | 11.4   | 11.0   | 11.2   | 11.2  | 11.0  | 10.0 |
| 5°    | 17.8   | 18.2   | 18.0   | 18.0   | 17.8   | 18.0   | 17.6   | 17.1   | 16.7  | 16.7  | 13.3 |
| 7.5°  | 29.2   | 29.0   | 28.6   | 28.8   | 28.2   | 27.8   | 27.4   | 27.1   | 25.9  | 25.3  | 17.4 |
| 10°   | 55.3   | 56.5   | 55.5   | 55.3   | 51.6   | 51.4   | 49.0   | 45.5   | 42.5  | 40.8  | 22.9 |
| 12.5° | 152.3  | 158.8  | 148.6  | 143.7  | 140.8  | 129.8  | 125.1  | 113.1  | 101.5 | 92.7  | 29.0 |
| 15°   | 351.5  | 367.6  | 347.0  | 348.4  | 331.3  | 299.9  | 272.3  | 248.6  | 220.7 | 192.5 | 41.4 |
| 17.5° | 688.7  | 675.7  | 664.4  | 645.5  | 610.5  | 564.4  | 505.0  | 444.8  | 392.7 | 338.2 | 57.8 |
| 20°   | 1032.1 | 1020.4 | 994.9  | 953.5  | 909.0  | 840.6  | 770.0  | 679.5  | 592.0 | 509.9 | 69.0 |
| 21°   | 1150.3 | 1146.4 | 1104.5 | 1079.0 | 1010.4 | 945.1  | 863.7  | 766.9  | 668.3 | 571.2 | 70.8 |
| 22°   | 1255.8 | 1232.5 | 1210.1 | 1172.3 | 1104.1 | 1033.1 | 942.5  | 840.6  | 733.6 | 625.7 | 71.0 |
| 23°   | 1328.9 | 1318.3 | 1297.0 | 1254.4 | 1186.6 | 1103.1 | 1007.6 | 901.0  | 788.3 | 664.2 | 70.4 |
| 24°   | 1409.7 | 1396.2 | 1365.2 | 1315.4 | 1247.0 | 1164.6 | 1055.5 | 949.8  | 827.3 | 696.7 | 68.8 |
| 25°   | 1478.3 | 1457.3 | 1420.5 | 1366.8 | 1292.1 | 1207.0 | 1097.4 | 981.2  | 854.5 | 718.5 | 67.2 |
| 26°   | 1522.8 | 1511.4 | 1464.2 | 1405.8 | 1325.8 | 1238.0 | 1126.2 | 1005.3 | 872.0 | 728.5 | 64.5 |
| 27°   | 1569.1 | 1548.1 | 1501.8 | 1434.6 | 1347.9 | 1258.2 | 1142.5 | 1017.0 | 878.2 | 728.9 | 61.2 |
| 28°   | 1595.7 | 1572.8 | 1520.3 | 1449.7 | 1362.1 | 1269.5 | 1151.9 | 1020.6 | 876.9 | 722.6 | 57.4 |
| 29°   | 1604.0 | 1575.3 | 1524.0 | 1452.2 | 1365.6 | 1270.3 | 1150.5 | 1015.3 | 866.1 | 707.1 | 52.9 |
| 30°   | 1588.5 | 1559.1 | 1510.5 | 1440.5 | 1354.6 | 1260.1 | 1137.2 | 997.8  | 846.9 | 684.9 | 48.8 |
| 31°   | 1554.6 | 1529.7 | 1482.8 | 1412.6 | 1330.1 | 1236.2 | 1107.2 | 969.0  | 814.3 | 655.0 | 44.1 |
| 32°   | 1509.9 | 1485.4 | 1439.3 | 1375.8 | 1291.9 | 1197.2 | 1066.2 | 924.1  | 775.9 | 610.5 | 39.4 |
| 33°   | 1442.8 | 1428.7 | 1387.3 | 1326.6 | 1242.7 | 1141.5 | 1011.0 | 870.4  | 721.2 | 561.1 | 35.3 |
| 34°   | 1374.8 | 1357.0 | 1328.1 | 1261.7 | 1171.5 | 1070.4 | 939.2  | 796.3  | 654.4 | 505.8 | 31.4 |
| 35°   | 1296.4 | 1285.8 | 1240.3 | 1187.2 | 1096.6 | 993.3  | 862.9  | 724.2  | 576.7 | 444.2 | 27.6 |
| 36°   | 1220.5 | 1204.2 | 1152.3 | 1096.2 | 1008.2 | 896.5  | 767.7  | 637.5  | 509.5 | 386.4 | 23.5 |
| 37°   | 1110.3 | 1085.4 | 1048.4 | 989.2  | 886.3  | 791.2  | 673.6  | 552.8  | 426.8 | 324.0 | 19.0 |
| 38°   | 980.6  | 969.0  | 917.8  | 858.2  | 773.0  | 682.8  | 566.5  | 464.0  | 352.1 | 270.5 | 14.5 |
| 39°   | 827.7  | 827.5  | 778.5  | 735.5  | 652.2  | 570.9  | 466.0  | 376.6  | 290.7 | 217.8 | 11.2 |
| 40°   | 698.1  | 674.0  | 643.8  | 589.7  | 525.8  | 456.8  | 365.0  | 294.8  | 225.6 | 175.6 | 8.8  |
| 42.5° | 366.0  | 364.0  | 346.2  | 305.6  | 269.9  | 229.2  | 182.3  | 151.9  | 118.8 | 96.8  | 5.5  |
| 45°   | 157.2  | 158.2  | 146.0  | 139.8  | 125.9  | 109.0  | 92.1   | 76.8   | 65.7  | 53.3  | 3.3  |
| 47.5° | 39.8   | 38.2   | 37.8   | 39.2   | 39.2   | 38.0   | 34.1   | 32.0   | 29.6  | 27.1  | 1.8  |
| 50°   | 17.1   | 16.7   | 16.3   | 16.3   | 15.3   | 14.7   | 13.7   | 12.5   | 11.4  | 10.2  | 0.8  |
| 52.5° | 6.3    | 6.5    | 6.7    | 6.5    | 6.5    | 6.3    | 6.3    | 6.1    | 5.5   | 4.9   | 0.4  |
| 55°   | 2.0    | 2.0    | 2.0    | 2.2    | 2.2    | 2.4    | 2.4    | 2.4    | 2.4   | 2.2   | 0.0  |
| 57.5° | 0.4    | 0.4    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.8   | 0.8   | 0.0  |
| 60°   | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.0    | 0.0   | 0.0   | 0.0  |
| 62.5° | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2   | 0.2   | 0.2  |
| 65°   | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2   | 0.2   | 0.2  |
| 67.5° | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2   | 0.2   | 0.2  |
| 70°   | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2   | 0.2   | 0.2  |
| 72.5° | 0.2    | 0.0    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2   | 0.2   | 0.2  |
| 75°   | 0.0    | 0.0    | 0.0    | 0.2    | 0.0    | 0.2    | 0.2    | 0.0    | 0.2   | 0.2   | 0.2  |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.2   | 0.2  |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.2  |



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**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   | 0.2 |
| 85°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.2 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.2 |
| 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°    | 7.8   | 7.8 | 7.8    | 7.8  | 7.8    | 7.8  |
| 2.5°  | 9.0   | 8.0 | 6.7    | 5.7  | 5.5    | 5.3  |
| 5°    | 10.0  | 7.3 | 5.5    | 4.5  | 4.1    | 3.9  |
| 7.5°  | 10.8  | 6.7 | 4.5    | 3.3  | 2.9    | 2.7  |
| 10°   | 11.2  | 5.9 | 3.7    | 2.4  | 1.8    | 1.8  |
| 12.5° | 11.4  | 5.1 | 2.7    | 1.6  | 1.0    | 1.0  |
| 15°   | 11.2  | 4.3 | 2.0    | 0.8  | 0.2    | 0.2  |
| 17.5° | 10.2  | 3.5 | 1.2    | 0.2  | 0.0    | 0.0  |
| 20°   | 8.8   | 2.9 | 0.8    | 0.0  | 0.0    | 0.0  |
| 21°   | 8.4   | 2.4 | 0.6    | 0.0  | 0.0    | 0.0  |
| 22°   | 7.8   | 2.2 | 0.4    | 0.0  | 0.0    | 0.0  |
| 23°   | 7.1   | 2.0 | 0.4    | 0.0  | 0.0    | 0.0  |
| 24°   | 6.5   | 1.8 | 0.2    | 0.0  | 0.0    | 0.0  |
| 25°   | 6.1   | 1.6 | 0.2    | 0.0  | 0.0    | 0.0  |
| 26°   | 5.7   | 1.4 | 0.2    | 0.0  | 0.0    | 0.0  |
| 27°   | 5.1   | 1.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 28°   | 4.7   | 1.0 | 0.0    | 0.0  | 0.0    | 0.0  |
| 29°   | 4.1   | 0.8 | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 3.5   | 0.6 | 0.0    | 0.0  | 0.0    | 0.0  |
| 31°   | 2.9   | 0.6 | 0.0    | 0.0  | 0.0    | 0.0  |
| 32°   | 2.4   | 0.4 | 0.0    | 0.0  | 0.0    | 0.0  |
| 33°   | 2.0   | 0.4 | 0.0    | 0.0  | 0.0    | 0.0  |
| 34°   | 1.8   | 0.4 | 0.0    | 0.0  | 0.0    | 0.0  |
| 35°   | 1.6   | 0.4 | 0.0    | 0.0  | 0.0    | 0.0  |
| 36°   | 1.2   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 37°   | 1.0   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 38°   | 0.8   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 39°   | 0.6   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |
| 40°   | 0.6   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |
| 42.5° | 0.2   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |
| 45°   | 0.0   | 0.2 | 0.0    | 0.0  | 0.2    | 0.2  |
| 47.5° | 0.0   | 0.2 | 0.0    | 0.0  | 0.2    | 0.4  |
| 50°   | 0.0   | 0.2 | 0.2    | 0.2  | 0.4    | 0.6  |
| 52.5° | 0.0   | 0.4 | 0.2    | 0.2  | 0.6    | 0.6  |
| 55°   | 0.2   | 0.4 | 0.2    | 0.4  | 0.8    | 0.8  |
| 57.5° | 0.2   | 0.4 | 0.4    | 0.6  | 0.8    | 1.0  |
| 60°   | 0.4   | 0.6 | 0.6    | 0.6  | 1.0    | 1.0  |
| 62.5° | 0.4   | 0.6 | 0.8    | 0.8  | 1.0    | 1.2  |
| 65°   | 0.4   | 0.8 | 0.8    | 0.8  | 1.0    | 1.2  |
| 67.5° | 0.6   | 0.8 | 0.8    | 0.8  | 1.0    | 1.2  |
| 70°   | 0.6   | 0.8 | 0.8    | 0.8  | 1.0    | 1.0  |
| 72.5° | 0.6   | 0.8 | 0.6    | 0.8  | 0.8    | 1.0  |
| 75°   | 0.6   | 0.8 | 0.6    | 0.6  | 0.8    | 0.8  |
| 77.5° | 0.4   | 0.6 | 0.6    | 0.4  | 0.6    | 0.6  |
| 80°   | 0.4   | 0.6 | 0.4    | 0.4  | 0.6    | 0.6  |



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CATALOG NUMBER: P3A02R20B2750DE010 E3CA301MW\_3500K

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 82.5° | 0.4   | 0.6 | 0.4    | 0.2  | 0.4    | 0.4  |
| 85°   | 0.4   | 0.6 | 0.4    | 0.2  | 0.2    | 0.2  |
| 87.5° | 0.4   | 0.6 | 0.4    | 0.2  | 0.0    | 0.2  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)