

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: PORTFOLIO

Report Number: P1320590

Luminaire Tested: LDSQA3D02R20B2750DE010 3LSQCA45R 1MMS\_2700K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1320590  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-74)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R20B2750DE010 3LSQCA45R 1MMS\_2700K  
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R20 optic, 2700K CCT AND, 90CRI , 3LSQCA45R 1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

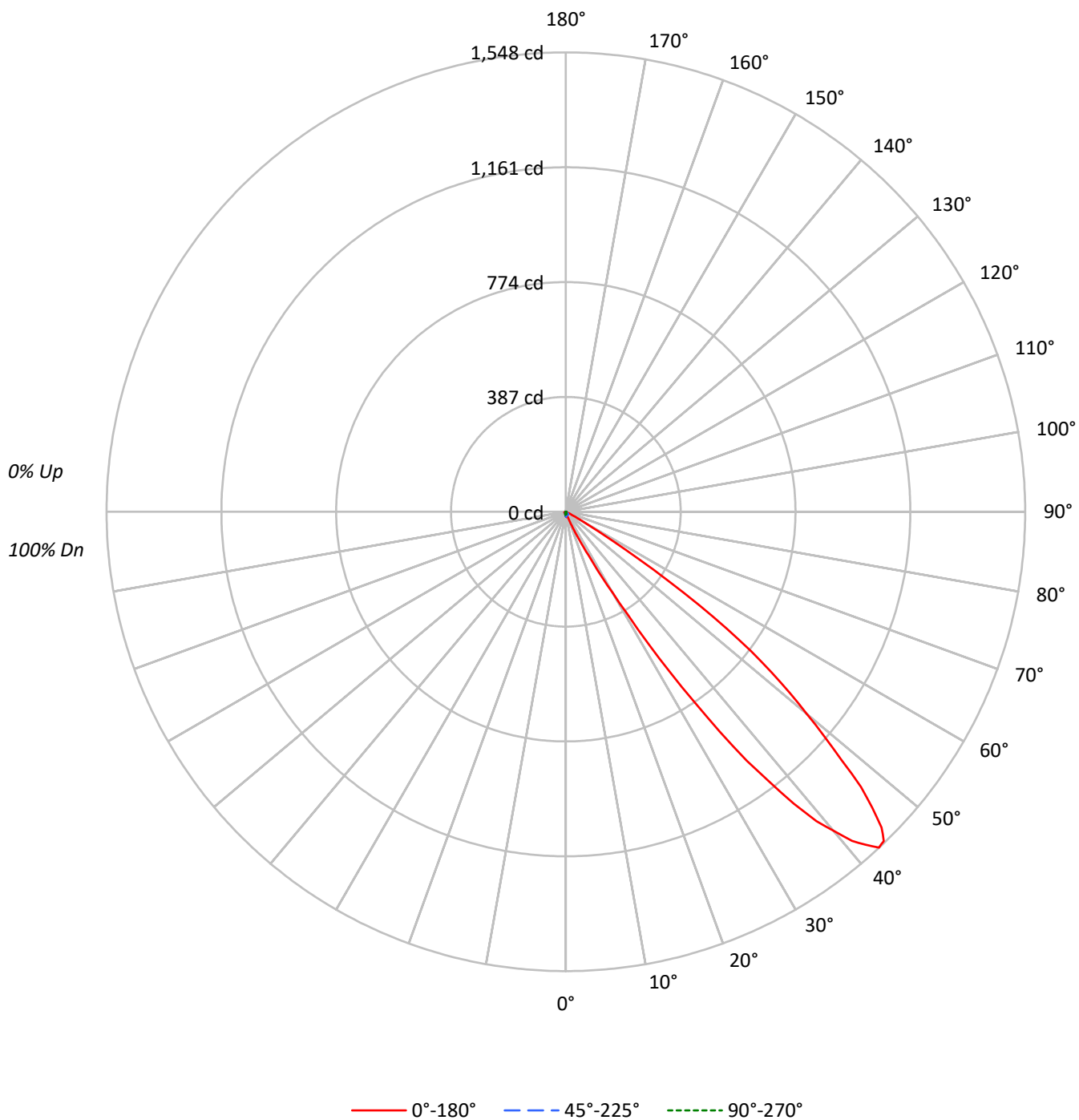
Lumens per Lamp: N/A  
Luminaire Lumens: 215.0 lumens  
Efficiency: N/A  
Efficacy: 74.1 lumens/watt  
Spacing Criteria (0/90/45): 3.39 / 0.51 / 1.13  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P1320590

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### Luminous Intensity Polar Plot



TEST NUMBER: P1320590

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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°  | 2583   | 2583 | 2583 | 2583 | 2583 |
| 5°  | 3008   | 2801 | 2403 | 2092 | 2023 |
| 10° | 2973   | 2536 | 1906 | 1626 | 1591 |
| 15° | 2585   | 1943 | 1409 | 1302 | 1373 |
| 20° | 3849   | 1631 | 1045 | 1118 | 1228 |
| 25° | 16589  | 1691 | 798  | 1007 | 1197 |
| 30° | 62722  | 2048 | 676  | 955  | 1173 |
| 35° | 190146 | 2460 | 631  | 967  | 1240 |
| 40° | 315289 | 2451 | 540  | 1034 | 1326 |
| 45° | 366484 | 1681 | 487  | 1072 | 1437 |
| 50° | 284489 | 911  | 482  | 1125 | 1634 |
| 55° | 164663 | 601  | 480  | 1261 | 1772 |
| 60° | 27831  | 138  | 413  | 1309 | 1963 |
| 65° | 2160   | 0    | 489  | 1467 | 2241 |
| 70° | 302    | 0    | 604  | 1611 | 2568 |
| 75° | 266    | 133  | 665  | 1863 | 2928 |
| 80° | 198    | 198  | 992  | 1984 | 3372 |
| 85° | 395    | 395  | 1581 | 1976 | 3557 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 366484 cd/sqm

TEST NUMBER: P1320590

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.3    | 0.6       |
| 10°-20°   | 2.7    | 1.3       |
| 20°-30°   | 8.6    | 4.0       |
| 30°-40°   | 54.8   | 25.5      |
| 40°-50°   | 100.4  | 46.7      |
| 50°-60°   | 41.2   | 19.2      |
| 60°-70°   | 3.5    | 1.6       |
| 70°-80°   | 1.7    | 0.8       |
| 80°-90°   | 0.8    | 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°    | 12.6   | 5.8       |
| 0°-40°    | 67.4   | 31.3      |
| 0°-60°    | 209.0  | 97.2      |
| 0°-90°    | 215.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 215.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 15   | 15  | 15  | 15   | 15   |      |
| 5°  | 17   | 16  | 14  | 12   | 12   | 2    |
| 15° | 14   | 11  | 8   | 7    | 8    | 5    |
| 25° | 87   | 9   | 4   | 5    | 6    | 57   |
| 35° | 904  | 12  | 3   | 5    | 6    | 572  |
| 45° | 1505 | 7   | 2   | 4    | 6    | 1080 |
| 55° | 548  | 2   | 2   | 4    | 6    | 479  |
| 65° | 5    | 0   | 1   | 4    | 6    | 17   |
| 75° | 0    | 0   | 1   | 3    | 4    | 0    |
| 85° | 0    | 0   | 1   | 1    | 2    | 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°    | 15.0   | 15.0   | 15.0   | 15.0   | 15.0   | 15.0  | 15.0  | 15.0  | 15.0  | 15.0  | 15.0 |
| 2.5°  | 16.4   | 16.4   | 16.4   | 16.2   | 16.2   | 16.4  | 16.2  | 16.2  | 16.2  | 16.2  | 16.0 |
| 5°    | 17.4   | 17.4   | 17.4   | 17.4   | 17.4   | 17.4  | 17.4  | 17.2  | 17.2  | 17.0  | 16.2 |
| 7.5°  | 17.8   | 17.8   | 17.8   | 17.8   | 17.6   | 17.6  | 17.6  | 17.6  | 17.4  | 17.2  | 15.8 |
| 10°   | 17.0   | 17.0   | 17.0   | 16.8   | 16.8   | 16.8  | 16.6  | 16.6  | 16.4  | 16.2  | 14.5 |
| 12.5° | 15.4   | 15.4   | 15.4   | 15.4   | 15.2   | 15.2  | 15.0  | 15.0  | 14.7  | 14.5  | 12.7 |
| 15°   | 14.5   | 14.5   | 14.5   | 14.3   | 14.3   | 14.1  | 13.9  | 13.7  | 13.5  | 13.1  | 10.9 |
| 17.5° | 15.8   | 15.8   | 15.6   | 15.6   | 15.2   | 14.7  | 14.5  | 13.9  | 13.5  | 12.9  | 9.7  |
| 20°   | 21.0   | 21.2   | 20.4   | 19.8   | 19.4   | 18.2  | 17.6  | 16.6  | 15.8  | 14.7  | 8.9  |
| 22.5° | 42.4   | 41.6   | 40.2   | 38.0   | 35.4   | 33.1  | 29.1  | 25.9  | 23.6  | 20.6  | 8.7  |
| 25°   | 87.3   | 86.5   | 82.6   | 79.4   | 71.3   | 65.1  | 56.4  | 49.3  | 42.0  | 35.0  | 8.9  |
| 27.5° | 165.9  | 160.4  | 159.4  | 144.7  | 133.4  | 117.2 | 100.4 | 86.3  | 73.3  | 59.0  | 9.5  |
| 30°   | 315.4  | 309.1  | 287.1  | 264.9  | 234.4  | 199.8 | 166.9 | 136.2 | 110.5 | 87.3  | 10.3 |
| 31°   | 400.3  | 406.3  | 380.5  | 335.8  | 290.7  | 246.5 | 201.4 | 162.4 | 129.3 | 100.4 | 10.7 |
| 32°   | 526.1  | 499.7  | 472.4  | 426.5  | 361.1  | 304.5 | 247.9 | 191.7 | 148.1 | 114.6 | 11.1 |
| 33°   | 645.1  | 629.6  | 588.0  | 530.8  | 452.2  | 372.8 | 299.4 | 226.3 | 171.1 | 131.7 | 11.3 |
| 34°   | 772.0  | 754.9  | 721.1  | 639.1  | 552.8  | 448.8 | 351.0 | 266.1 | 198.6 | 148.5 | 11.5 |
| 35°   | 904.4  | 897.1  | 832.0  | 760.9  | 654.8  | 529.4 | 413.0 | 309.7 | 225.5 | 163.9 | 11.7 |
| 36°   | 1037.5 | 1014.1 | 963.2  | 859.3  | 748.6  | 603.9 | 478.0 | 350.4 | 252.8 | 182.0 | 11.7 |
| 37°   | 1137.7 | 1132.5 | 1065.0 | 963.8  | 833.7  | 683.5 | 534.2 | 395.4 | 280.2 | 197.6 | 11.7 |
| 38°   | 1248.3 | 1227.5 | 1159.0 | 1055.9 | 913.7  | 756.5 | 593.0 | 434.6 | 306.3 | 211.7 | 11.5 |
| 39°   | 1341.4 | 1310.5 | 1241.4 | 1139.6 | 983.6  | 811.8 | 639.7 | 472.6 | 329.3 | 223.5 | 11.3 |
| 40°   | 1402.4 | 1381.0 | 1308.9 | 1194.3 | 1047.0 | 864.2 | 687.0 | 503.9 | 346.5 | 232.4 | 10.9 |
| 41°   | 1469.7 | 1434.1 | 1362.8 | 1247.7 | 1093.1 | 910.2 | 716.7 | 524.5 | 359.9 | 238.2 | 10.5 |
| 42°   | 1509.9 | 1480.8 | 1396.2 | 1283.4 | 1126.0 | 936.5 | 740.9 | 540.3 | 367.9 | 241.2 | 9.7  |
| 43°   | 1547.5 | 1507.9 | 1425.5 | 1304.2 | 1147.8 | 955.1 | 752.0 | 547.6 | 369.8 | 241.2 | 8.7  |
| 44°   | 1542.4 | 1504.9 | 1419.4 | 1307.1 | 1152.7 | 960.5 | 756.7 | 547.8 | 366.9 | 238.2 | 7.7  |
| 45°   | 1504.7 | 1467.3 | 1390.3 | 1282.4 | 1135.3 | 949.8 | 747.4 | 539.7 | 359.0 | 233.0 | 6.9  |
| 46°   | 1435.4 | 1398.2 | 1339.2 | 1241.2 | 1103.0 | 925.6 | 725.8 | 522.1 | 345.9 | 224.5 | 6.1  |
| 47°   | 1360.0 | 1323.8 | 1263.4 | 1174.7 | 1047.8 | 882.4 | 694.4 | 497.4 | 327.5 | 212.2 | 5.5  |
| 48°   | 1250.7 | 1228.1 | 1167.4 | 1091.7 | 971.3  | 814.7 | 639.5 | 457.2 | 302.9 | 196.2 | 4.6  |
| 49°   | 1154.1 | 1130.3 | 1077.1 | 995.7  | 871.4  | 735.9 | 573.8 | 408.3 | 270.7 | 178.4 | 4.0  |
| 50°   | 1061.8 | 1041.0 | 991.9  | 899.9  | 781.3  | 640.7 | 485.1 | 346.7 | 230.3 | 156.4 | 3.4  |
| 51°   | 971.5  | 955.9  | 905.8  | 821.3  | 700.9  | 567.6 | 420.3 | 288.7 | 190.3 | 129.7 | 3.2  |
| 52°   | 880.7  | 878.9  | 824.6  | 739.1  | 622.7  | 494.6 | 357.2 | 243.7 | 161.4 | 108.9 | 3.0  |
| 53°   | 783.1  | 771.4  | 723.9  | 647.2  | 535.4  | 418.6 | 302.9 | 205.5 | 139.0 | 92.7  | 2.6  |
| 54°   | 672.0  | 658.9  | 608.0  | 538.7  | 437.4  | 342.9 | 244.1 | 166.1 | 115.8 | 78.4  | 2.4  |
| 55°   | 548.4  | 525.9  | 489.0  | 417.8  | 341.7  | 261.7 | 188.5 | 131.5 | 92.5  | 65.3  | 2.0  |
| 56°   | 416.0  | 393.6  | 372.8  | 320.5  | 250.7  | 195.2 | 140.4 | 100.8 | 72.3  | 51.5  | 1.8  |
| 57°   | 289.3  | 288.1  | 254.0  | 213.8  | 167.7  | 132.9 | 96.2  | 71.1  | 51.1  | 40.0  | 1.4  |
| 58°   | 187.7  | 181.4  | 159.6  | 136.4  | 109.7  | 83.0  | 61.8  | 48.3  | 34.8  | 27.3  | 1.2  |
| 59°   | 131.5  | 119.0  | 107.3  | 90.9   | 69.1   | 52.3  | 39.8  | 30.9  | 24.0  | 19.0  | 0.8  |
| 60°   | 80.8   | 78.2   | 70.3   | 55.4   | 44.9   | 37.0  | 29.7  | 22.8  | 17.6  | 13.5  | 0.4  |
| 62.5° | 23.0   | 23.4   | 21.2   | 18.8   | 16.2   | 13.9  | 12.5  | 10.7  | 8.9   | 7.1   | 0.0  |
| 65°   | 5.3    | 5.1    | 5.5    | 5.1    | 4.6    | 4.6   | 4.0   | 3.6   | 3.2   | 3.0   | 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° | 1.6 | 1.6  | 1.4 | 1.4  | 1.4 | 1.2   | 1.2 | 1.0   | 1.0 | 0.8   | 0.0 |
| 70°   | 0.6 | 0.6  | 0.6 | 0.6  | 0.6 | 0.4   | 0.4 | 0.4   | 0.2 | 0.2   | 0.0 |
| 72.5° | 0.6 | 0.6  | 0.6 | 0.4  | 0.4 | 0.4   | 0.4 | 0.4   | 0.2 | 0.2   | 0.2 |
| 75°   | 0.4 | 0.4  | 0.4 | 0.4  | 0.4 | 0.4   | 0.4 | 0.2   | 0.2 | 0.2   | 0.2 |
| 77.5° | 0.4 | 0.4  | 0.4 | 0.4  | 0.4 | 0.2   | 0.4 | 0.2   | 0.2 | 0.2   | 0.2 |
| 80°   | 0.2 | 0.2  | 0.2 | 0.2  | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 |
| 82.5° | 0.2 | 0.2  | 0.2 | 0.2  | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 |
| 85°   | 0.2 | 0.2  | 0.2 | 0.2  | 0.0 | 0.0   | 0.2 | 0.2   | 0.2 | 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°    | 15.0  | 15.0 | 15.0   | 15.0 | 15.0   | 15.0 |
| 2.5°  | 15.6  | 14.7 | 14.1   | 13.5 | 13.3   | 13.3 |
| 5°    | 15.2  | 13.9 | 12.7   | 12.1 | 11.7   | 11.7 |
| 7.5°  | 13.9  | 12.5 | 11.3   | 10.7 | 10.5   | 10.5 |
| 10°   | 12.5  | 10.9 | 9.7    | 9.3  | 9.3    | 9.1  |
| 12.5° | 10.9  | 9.3  | 8.5    | 8.3  | 8.3    | 8.3  |
| 15°   | 9.1   | 7.9  | 7.3    | 7.3  | 7.5    | 7.7  |
| 17.5° | 7.7   | 6.5  | 6.3    | 6.7  | 7.1    | 7.1  |
| 20°   | 6.5   | 5.7  | 5.7    | 6.1  | 6.5    | 6.7  |
| 22.5° | 5.5   | 4.8  | 5.1    | 5.7  | 6.3    | 6.5  |
| 25°   | 4.8   | 4.2  | 4.6    | 5.3  | 5.9    | 6.3  |
| 27.5° | 4.0   | 3.8  | 4.2    | 5.1  | 5.9    | 6.1  |
| 30°   | 3.4   | 3.4  | 4.0    | 4.8  | 5.7    | 5.9  |
| 31°   | 3.2   | 3.2  | 4.0    | 4.8  | 5.7    | 5.9  |
| 32°   | 3.0   | 3.2  | 3.8    | 4.8  | 5.7    | 5.9  |
| 33°   | 2.8   | 3.0  | 3.8    | 4.6  | 5.7    | 5.9  |
| 34°   | 2.6   | 3.0  | 3.8    | 4.6  | 5.7    | 5.9  |
| 35°   | 2.4   | 3.0  | 3.8    | 4.6  | 5.7    | 5.9  |
| 36°   | 2.2   | 2.8  | 3.6    | 4.6  | 5.7    | 5.9  |
| 37°   | 2.0   | 2.8  | 3.6    | 4.6  | 5.7    | 5.9  |
| 38°   | 1.8   | 2.6  | 3.6    | 4.6  | 5.7    | 5.9  |
| 39°   | 1.8   | 2.6  | 3.4    | 4.6  | 5.5    | 5.9  |
| 40°   | 1.6   | 2.4  | 3.4    | 4.6  | 5.5    | 5.9  |
| 41°   | 1.4   | 2.4  | 3.4    | 4.4  | 5.5    | 5.9  |
| 42°   | 1.2   | 2.2  | 3.2    | 4.4  | 5.5    | 5.9  |
| 43°   | 1.0   | 2.2  | 3.2    | 4.4  | 5.5    | 5.9  |
| 44°   | 1.0   | 2.0  | 3.2    | 4.4  | 5.5    | 5.9  |
| 45°   | 0.8   | 2.0  | 3.2    | 4.4  | 5.5    | 5.9  |
| 46°   | 0.6   | 2.0  | 3.2    | 4.4  | 5.5    | 5.9  |
| 47°   | 0.6   | 1.8  | 3.0    | 4.4  | 5.5    | 5.9  |
| 48°   | 0.4   | 1.8  | 3.0    | 4.4  | 5.5    | 5.9  |
| 49°   | 0.4   | 1.8  | 3.0    | 4.4  | 5.5    | 6.1  |
| 50°   | 0.4   | 1.8  | 3.0    | 4.2  | 5.5    | 6.1  |
| 51°   | 0.2   | 1.8  | 3.0    | 4.2  | 5.5    | 6.1  |
| 52°   | 0.2   | 1.8  | 2.8    | 4.2  | 5.7    | 6.1  |
| 53°   | 0.2   | 1.6  | 2.8    | 4.2  | 5.7    | 6.1  |
| 54°   | 0.2   | 1.6  | 2.8    | 4.2  | 5.7    | 5.9  |
| 55°   | 0.2   | 1.6  | 2.8    | 4.2  | 5.5    | 5.9  |
| 56°   | 0.2   | 1.4  | 2.8    | 4.2  | 5.5    | 5.9  |
| 57°   | 0.2   | 1.4  | 2.6    | 4.0  | 5.5    | 5.7  |
| 58°   | 0.2   | 1.4  | 2.6    | 4.0  | 5.5    | 5.7  |
| 59°   | 0.2   | 1.4  | 2.6    | 4.0  | 5.3    | 5.7  |
| 60°   | 0.4   | 1.2  | 2.4    | 3.8  | 5.3    | 5.7  |
| 62.5° | 0.4   | 1.2  | 2.4    | 3.8  | 5.1    | 5.5  |
| 65°   | 0.4   | 1.2  | 2.2    | 3.6  | 5.1    | 5.5  |



TEST NUMBER: P1320590

CATALOG NUMBER: LDSQA3D02R20B2750DE010 3LSQCA45R 1MMS\_2700K

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 0.4   | 1.0 | 2.0    | 3.4  | 4.8    | 5.3  |
| 70°   | 0.4   | 1.2 | 2.0    | 3.2  | 4.6    | 5.1  |
| 72.5° | 0.6   | 1.0 | 1.8    | 3.0  | 4.4    | 4.8  |
| 75°   | 0.6   | 1.0 | 1.8    | 2.8  | 4.2    | 4.4  |
| 77.5° | 0.8   | 1.0 | 1.6    | 2.4  | 3.8    | 4.0  |
| 80°   | 0.8   | 1.0 | 1.4    | 2.0  | 3.2    | 3.4  |
| 82.5° | 0.8   | 1.0 | 1.0    | 1.6  | 2.4    | 2.6  |
| 85°   | 0.6   | 0.8 | 0.8    | 1.0  | 1.6    | 1.8  |
| 87.5° | 0.6   | 0.8 | 0.6    | 0.4  | 0.8    | 0.8  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)