

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: P1319634

Luminaire Tested: LDSQA3D02R209840DE010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1319634  
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: LDSQA3D02R209840DE010 3LSQCA45R 1MMS  
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 98CRI , 3LSQCA45R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

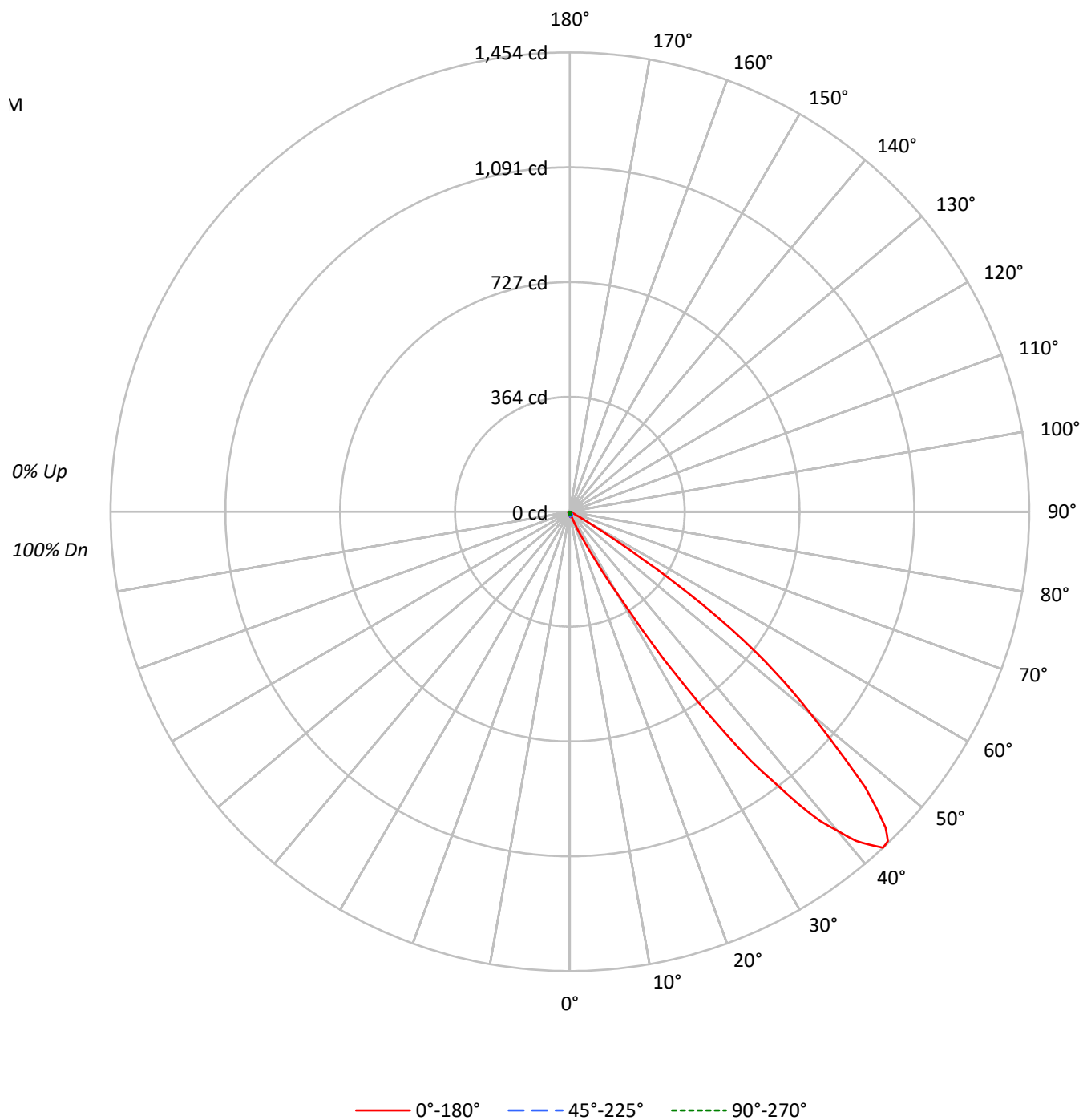
Lumens per Lamp: N/A  
Luminaire Lumens: 202.0 lumens  
Efficiency: N/A  
Efficacy: 56.1 lumens/watt  
Spacing Criteria (0/90/45): 3.39 / 0.51 / 1.14  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 3.6  
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: P1319634

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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   | 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°  | 2411   | 2411 | 2411 | 2411 | 2411 |
| 5°  | 2818   | 2628 | 2265 | 1971 | 1902 |
| 10° | 2781   | 2396 | 1801 | 1521 | 1486 |
| 15° | 2443   | 1836 | 1319 | 1212 | 1284 |
| 20° | 3611   | 1540 | 971  | 1045 | 1155 |
| 25° | 15582  | 1596 | 760  | 931  | 1121 |
| 30° | 58924  | 1929 | 636  | 915  | 1094 |
| 35° | 178645 | 2313 | 589  | 925  | 1156 |
| 40° | 296224 | 2316 | 517  | 989  | 1237 |
| 45° | 344320 | 1583 | 463  | 1023 | 1340 |
| 50° | 267288 | 857  | 455  | 1072 | 1527 |
| 55° | 154694 | 570  | 450  | 1201 | 1651 |
| 60° | 26143  | 138  | 379  | 1240 | 1826 |
| 65° | 1997   | 0    | 448  | 1386 | 2078 |
| 70° | 302    | 0    | 554  | 1511 | 2367 |
| 75° | 266    | 133  | 599  | 1797 | 2795 |
| 80° | 198    | 198  | 893  | 1884 | 3174 |
| 85° | 395    | 395  | 1581 | 1778 | 3359 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 344320 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.2    | 0.6       |
| 10°-20°   | 2.5    | 1.3       |
| 20°-30°   | 8.1    | 4.0       |
| 30°-40°   | 51.5   | 25.5      |
| 40°-50°   | 94.3   | 46.7      |
| 50°-60°   | 38.7   | 19.2      |
| 60°-70°   | 3.3    | 1.6       |
| 70°-80°   | 1.6    | 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°    | 11.8   | 5.8       |
| 0°-40°    | 63.3   | 31.3      |
| 0°-60°    | 196.3  | 97.2      |
| 0°-90°    | 202.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 202.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 14   | 14  | 14  | 14   | 14   |      |
| 5°  | 16   | 15  | 13  | 11   | 11   | 2    |
| 15° | 14   | 10  | 7   | 7    | 7    | 4    |
| 25° | 82   | 8   | 4   | 5    | 6    | 54   |
| 35° | 850  | 11  | 3   | 4    | 6    | 538  |
| 45° | 1414 | 6   | 2   | 4    | 6    | 1015 |
| 55° | 515  | 2   | 2   | 4    | 6    | 450  |
| 65° | 5    | 0   | 1   | 3    | 5    | 16   |
| 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°    | 14.0   | 14.0   | 14.0   | 14.0   | 14.0   | 14.0  | 14.0  | 14.0  | 14.0  | 14.0  | 14.0 |
| 2.5°  | 15.4   | 15.4   | 15.4   | 15.2   | 15.2   | 15.4  | 15.2  | 15.2  | 15.2  | 15.2  | 15.0 |
| 5°    | 16.3   | 16.3   | 16.3   | 16.3   | 16.3   | 16.3  | 16.3  | 16.1  | 16.1  | 15.9  | 15.2 |
| 7.5°  | 16.7   | 16.7   | 16.7   | 16.7   | 16.5   | 16.5  | 16.5  | 16.5  | 16.3  | 16.1  | 14.8 |
| 10°   | 15.9   | 15.9   | 15.9   | 15.8   | 15.8   | 15.8  | 15.6  | 15.6  | 15.4  | 15.2  | 13.7 |
| 12.5° | 14.4   | 14.4   | 14.4   | 14.4   | 14.2   | 14.2  | 14.0  | 14.0  | 13.9  | 13.7  | 12.0 |
| 15°   | 13.7   | 13.7   | 13.7   | 13.5   | 13.5   | 13.3  | 13.1  | 12.9  | 12.7  | 12.3  | 10.3 |
| 17.5° | 14.8   | 14.8   | 14.6   | 14.6   | 14.2   | 13.9  | 13.7  | 13.1  | 12.7  | 12.1  | 9.1  |
| 20°   | 19.7   | 19.9   | 19.2   | 18.6   | 18.2   | 17.1  | 16.5  | 15.6  | 14.8  | 13.9  | 8.4  |
| 22.5° | 39.9   | 39.1   | 37.8   | 35.7   | 33.2   | 31.1  | 27.3  | 24.3  | 22.2  | 19.4  | 8.2  |
| 25°   | 82.0   | 81.2   | 77.6   | 74.6   | 67.0   | 61.1  | 53.0  | 46.3  | 39.5  | 32.8  | 8.4  |
| 27.5° | 155.9  | 150.7  | 149.8  | 135.9  | 125.3  | 110.1 | 94.3  | 81.1  | 68.9  | 55.4  | 8.9  |
| 30°   | 296.3  | 290.4  | 269.8  | 248.9  | 220.2  | 187.7 | 156.8 | 127.9 | 103.8 | 82.0  | 9.7  |
| 31°   | 376.1  | 381.8  | 357.5  | 315.5  | 273.2  | 231.6 | 189.3 | 152.6 | 121.5 | 94.3  | 10.1 |
| 32°   | 494.3  | 469.5  | 443.8  | 400.7  | 339.2  | 286.1 | 232.9 | 180.2 | 139.1 | 107.6 | 10.4 |
| 33°   | 606.1  | 591.5  | 552.4  | 498.7  | 424.8  | 350.2 | 281.3 | 212.6 | 160.8 | 123.8 | 10.6 |
| 34°   | 725.4  | 709.2  | 677.5  | 600.4  | 519.4  | 421.6 | 329.7 | 250.0 | 186.6 | 139.5 | 10.8 |
| 35°   | 849.7  | 842.9  | 781.7  | 714.9  | 615.2  | 497.4 | 388.0 | 291.0 | 211.9 | 154.0 | 11.0 |
| 36°   | 974.8  | 952.8  | 904.9  | 807.4  | 703.3  | 567.4 | 449.1 | 329.2 | 237.5 | 171.0 | 11.0 |
| 37°   | 1068.9 | 1064.0 | 1000.6 | 905.5  | 783.2  | 642.2 | 501.9 | 371.5 | 263.3 | 185.7 | 11.0 |
| 38°   | 1172.8 | 1153.2 | 1088.9 | 992.1  | 858.4  | 710.7 | 557.2 | 408.3 | 287.8 | 198.9 | 10.8 |
| 39°   | 1260.3 | 1231.3 | 1166.3 | 1070.7 | 924.1  | 762.7 | 601.0 | 444.0 | 309.4 | 210.0 | 10.6 |
| 40°   | 1317.6 | 1297.5 | 1229.7 | 1122.1 | 983.7  | 811.9 | 645.4 | 473.4 | 325.6 | 218.3 | 10.3 |
| 41°   | 1380.8 | 1347.4 | 1280.4 | 1172.2 | 1027.0 | 855.2 | 673.3 | 492.8 | 338.1 | 223.8 | 9.9  |
| 42°   | 1418.6 | 1391.3 | 1311.7 | 1205.8 | 1057.9 | 879.9 | 696.1 | 507.6 | 345.7 | 226.7 | 9.1  |
| 43°   | 1453.9 | 1416.7 | 1339.3 | 1225.4 | 1078.4 | 897.3 | 706.6 | 514.4 | 347.4 | 226.7 | 8.2  |
| 44°   | 1449.2 | 1413.9 | 1333.6 | 1228.0 | 1083.0 | 902.5 | 710.9 | 514.6 | 344.7 | 223.8 | 7.2  |
| 45°   | 1413.7 | 1378.6 | 1306.2 | 1204.9 | 1066.7 | 892.4 | 702.2 | 507.0 | 337.3 | 218.9 | 6.5  |
| 46°   | 1348.6 | 1313.6 | 1258.2 | 1166.1 | 1036.3 | 869.6 | 681.9 | 490.5 | 325.0 | 210.9 | 5.7  |
| 47°   | 1277.8 | 1243.8 | 1187.0 | 1103.7 | 984.5  | 829.0 | 652.5 | 467.4 | 307.7 | 199.3 | 5.1  |
| 48°   | 1175.1 | 1153.8 | 1096.9 | 1025.7 | 912.5  | 765.4 | 600.8 | 429.6 | 284.6 | 184.3 | 4.4  |
| 49°   | 1084.3 | 1061.9 | 1012.0 | 935.5  | 818.7  | 691.4 | 539.1 | 383.7 | 254.4 | 167.6 | 3.8  |
| 50°   | 997.6  | 978.0  | 931.9  | 845.5  | 734.1  | 602.0 | 455.8 | 325.8 | 216.4 | 146.9 | 3.2  |
| 51°   | 912.7  | 898.1  | 851.0  | 771.7  | 658.5  | 533.2 | 394.9 | 271.3 | 178.8 | 121.9 | 3.0  |
| 52°   | 827.5  | 825.8  | 774.7  | 694.4  | 585.1  | 464.7 | 335.6 | 228.9 | 151.7 | 102.3 | 2.8  |
| 53°   | 735.8  | 724.8  | 680.2  | 608.0  | 503.1  | 393.3 | 284.6 | 193.1 | 130.6 | 87.1  | 2.5  |
| 54°   | 631.4  | 619.0  | 571.2  | 506.1  | 411.0  | 322.1 | 229.3 | 156.0 | 108.8 | 73.7  | 2.3  |
| 55°   | 515.2  | 494.1  | 459.4  | 392.6  | 321.0  | 245.8 | 177.1 | 123.6 | 86.9  | 61.3  | 1.9  |
| 56°   | 390.9  | 369.8  | 350.2  | 301.1  | 235.6  | 183.4 | 131.9 | 94.7  | 68.0  | 48.4  | 1.7  |
| 57°   | 271.8  | 270.7  | 238.6  | 200.8  | 157.6  | 124.9 | 90.4  | 66.8  | 48.0  | 37.6  | 1.3  |
| 58°   | 176.4  | 170.5  | 150.0  | 128.1  | 103.1  | 78.0  | 58.1  | 45.4  | 32.7  | 25.6  | 1.1  |
| 59°   | 123.6  | 111.8  | 100.8  | 85.4   | 64.9   | 49.2  | 37.4  | 29.0  | 22.6  | 17.8  | 0.8  |
| 60°   | 75.9   | 73.5   | 66.1   | 52.0   | 42.1   | 34.7  | 27.9  | 21.5  | 16.5  | 12.7  | 0.4  |
| 62.5° | 21.6   | 22.0   | 19.9   | 17.7   | 15.2   | 13.1  | 11.8  | 10.1  | 8.4   | 6.6   | 0.0  |
| 65°   | 4.9    | 4.7    | 5.1    | 4.7    | 4.4    | 4.4   | 3.8   | 3.4   | 3.0   | 2.8   | 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° | 1.5 | 1.5  | 1.3 | 1.3  | 1.3 | 1.1   | 1.1 | 0.9   | 0.9 | 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°    | 14.0  | 14.0 | 14.0   | 14.0 | 14.0   | 14.0 |
| 2.5°  | 14.6  | 13.9 | 13.3   | 12.7 | 12.5   | 12.5 |
| 5°    | 14.2  | 13.1 | 12.0   | 11.4 | 11.0   | 11.0 |
| 7.5°  | 13.1  | 11.8 | 10.6   | 10.1 | 9.9    | 9.9  |
| 10°   | 11.8  | 10.3 | 9.1    | 8.7  | 8.7    | 8.5  |
| 12.5° | 10.3  | 8.7  | 8.0    | 7.8  | 7.8    | 7.8  |
| 15°   | 8.5   | 7.4  | 6.8    | 6.8  | 7.0    | 7.2  |
| 17.5° | 7.2   | 6.1  | 5.9    | 6.3  | 6.6    | 6.6  |
| 20°   | 6.1   | 5.3  | 5.3    | 5.7  | 6.1    | 6.3  |
| 22.5° | 5.1   | 4.6  | 4.7    | 5.3  | 5.9    | 6.1  |
| 25°   | 4.6   | 4.0  | 4.4    | 4.9  | 5.5    | 5.9  |
| 27.5° | 3.8   | 3.6  | 4.0    | 4.7  | 5.5    | 5.7  |
| 30°   | 3.2   | 3.2  | 3.8    | 4.6  | 5.3    | 5.5  |
| 31°   | 3.0   | 3.0  | 3.8    | 4.6  | 5.3    | 5.5  |
| 32°   | 2.8   | 3.0  | 3.6    | 4.6  | 5.3    | 5.5  |
| 33°   | 2.7   | 2.8  | 3.6    | 4.4  | 5.3    | 5.5  |
| 34°   | 2.5   | 2.8  | 3.6    | 4.4  | 5.3    | 5.5  |
| 35°   | 2.3   | 2.8  | 3.6    | 4.4  | 5.3    | 5.5  |
| 36°   | 2.1   | 2.7  | 3.4    | 4.4  | 5.3    | 5.5  |
| 37°   | 1.9   | 2.7  | 3.4    | 4.4  | 5.3    | 5.5  |
| 38°   | 1.7   | 2.5  | 3.4    | 4.4  | 5.3    | 5.5  |
| 39°   | 1.7   | 2.5  | 3.2    | 4.4  | 5.1    | 5.5  |
| 40°   | 1.5   | 2.3  | 3.2    | 4.4  | 5.1    | 5.5  |
| 41°   | 1.3   | 2.3  | 3.2    | 4.2  | 5.1    | 5.5  |
| 42°   | 1.1   | 2.1  | 3.0    | 4.2  | 5.1    | 5.5  |
| 43°   | 0.9   | 2.1  | 3.0    | 4.2  | 5.1    | 5.5  |
| 44°   | 0.9   | 1.9  | 3.0    | 4.2  | 5.1    | 5.5  |
| 45°   | 0.8   | 1.9  | 3.0    | 4.2  | 5.1    | 5.5  |
| 46°   | 0.6   | 1.9  | 3.0    | 4.2  | 5.1    | 5.5  |
| 47°   | 0.6   | 1.7  | 2.8    | 4.2  | 5.1    | 5.5  |
| 48°   | 0.4   | 1.7  | 2.8    | 4.2  | 5.1    | 5.5  |
| 49°   | 0.4   | 1.7  | 2.8    | 4.2  | 5.1    | 5.7  |
| 50°   | 0.4   | 1.7  | 2.8    | 4.0  | 5.1    | 5.7  |
| 51°   | 0.2   | 1.7  | 2.8    | 4.0  | 5.1    | 5.7  |
| 52°   | 0.2   | 1.7  | 2.7    | 4.0  | 5.3    | 5.7  |
| 53°   | 0.2   | 1.5  | 2.7    | 4.0  | 5.3    | 5.7  |
| 54°   | 0.2   | 1.5  | 2.7    | 4.0  | 5.3    | 5.5  |
| 55°   | 0.2   | 1.5  | 2.7    | 4.0  | 5.1    | 5.5  |
| 56°   | 0.2   | 1.3  | 2.7    | 4.0  | 5.1    | 5.5  |
| 57°   | 0.2   | 1.3  | 2.5    | 3.8  | 5.1    | 5.3  |
| 58°   | 0.2   | 1.3  | 2.5    | 3.8  | 5.1    | 5.3  |
| 59°   | 0.2   | 1.3  | 2.5    | 3.8  | 4.9    | 5.3  |
| 60°   | 0.4   | 1.1  | 2.3    | 3.6  | 4.9    | 5.3  |
| 62.5° | 0.4   | 1.1  | 2.3    | 3.6  | 4.7    | 5.1  |
| 65°   | 0.4   | 1.1  | 2.1    | 3.4  | 4.7    | 5.1  |





TEST NUMBER: P1319634

CATALOG NUMBER: LDSQA3D02R209840DE010 3LSQCA45R 1MMS

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 0.4   | 0.9 | 1.9    | 3.2  | 4.6    | 4.9  |
| 70°   | 0.4   | 1.1 | 1.9    | 3.0  | 4.4    | 4.7  |
| 72.5° | 0.6   | 0.9 | 1.7    | 2.8  | 4.2    | 4.6  |
| 75°   | 0.6   | 0.9 | 1.7    | 2.7  | 4.0    | 4.2  |
| 77.5° | 0.8   | 0.9 | 1.5    | 2.3  | 3.6    | 3.8  |
| 80°   | 0.8   | 0.9 | 1.3    | 1.9  | 3.0    | 3.2  |
| 82.5° | 0.8   | 0.9 | 0.9    | 1.5  | 2.3    | 2.5  |
| 85°   | 0.6   | 0.8 | 0.8    | 0.9  | 1.5    | 1.7  |
| 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)