

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: P1317525

Luminaire Tested: LDSQA3D13R509827DE010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1317525  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-53)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R509827DE010 3LSQCA30R 1MMS  
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 98CRI , 3LSQCA30R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

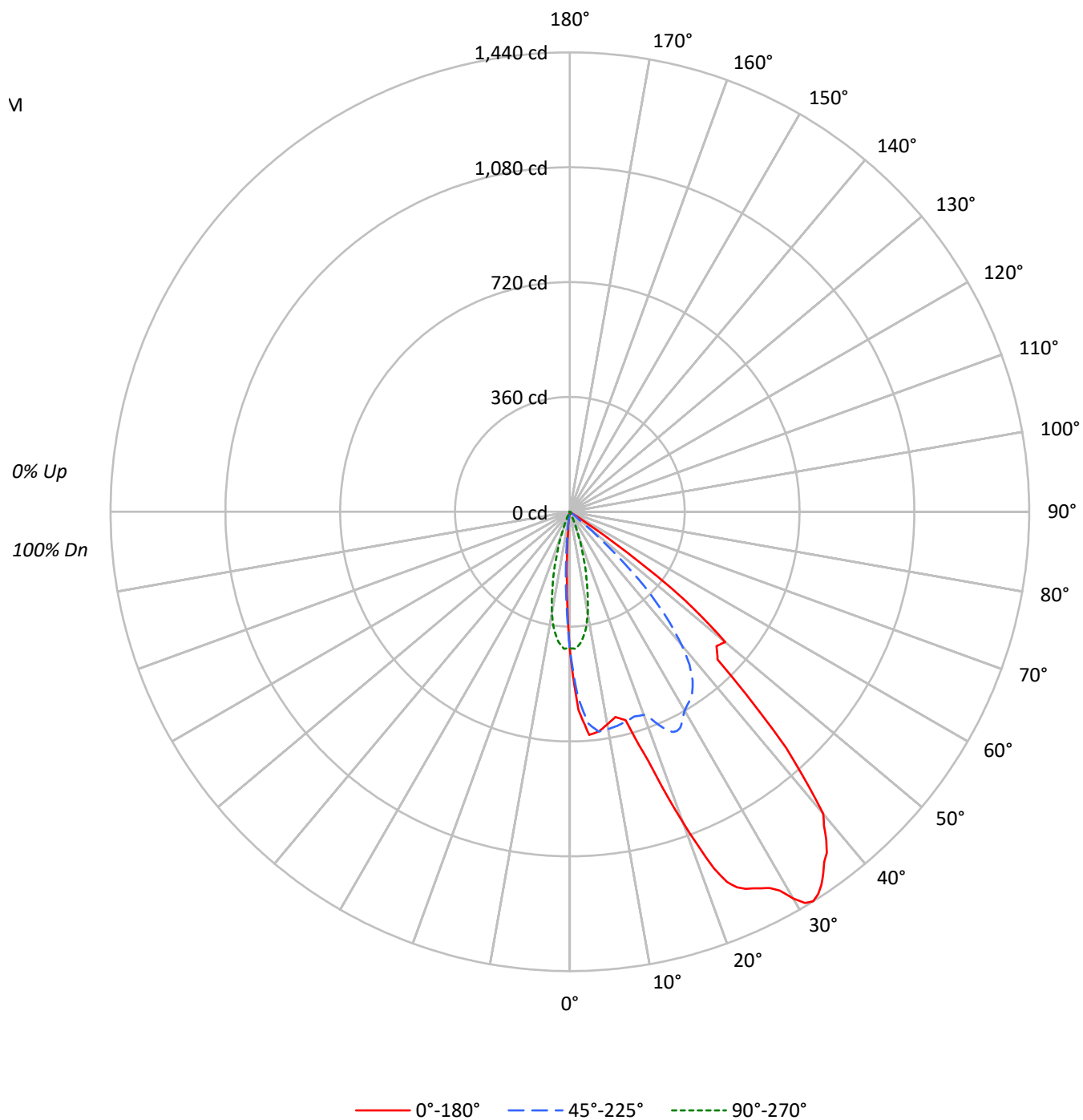
Lumens per Lamp: N/A  
Luminaire Lumens: 689.0 lumens  
Efficiency: N/A  
Efficacy: 47.5 lumens/watt  
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.5  
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: P1317525

CATALOG NUMBER: LDSQA3D13R509827DE010 3LSQCA30R 1MMS

### Luminous Intensity Polar Plot



TEST NUMBER: P1317525

CATALOG NUMBER: LDSQA3D13R509827DE010 3LSQCA30R 1MMS

**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   | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 97  | 96  | 96  | 94  | 93  | 91  |    |    |
| 2   | 105 | 99  | 95  | 91  | 103 | 98  | 93  | 90  | 94  | 91  | 88  | 91  | 88  | 86  | 89  | 86  | 84  | 82  |    |    |
| 3   | 98  | 91  | 85  | 80  | 96  | 89  | 84  | 79  | 86  | 82  | 78  | 84  | 80  | 77  | 82  | 78  | 75  | 74  |    |    |
| 4   | 92  | 83  | 76  | 71  | 90  | 81  | 75  | 70  | 79  | 74  | 70  | 77  | 72  | 69  | 75  | 71  | 68  | 66  |    |    |
| 5   | 86  | 76  | 68  | 63  | 84  | 75  | 68  | 63  | 73  | 67  | 62  | 71  | 66  | 62  | 69  | 65  | 61  | 59  |    |    |
| 6   | 80  | 69  | 62  | 57  | 78  | 68  | 62  | 57  | 67  | 61  | 56  | 65  | 60  | 56  | 64  | 59  | 55  | 54  |    |    |
| 7   | 75  | 64  | 56  | 51  | 73  | 63  | 56  | 51  | 61  | 55  | 51  | 60  | 55  | 50  | 59  | 54  | 50  | 48  |    |    |
| 8   | 70  | 59  | 51  | 46  | 69  | 58  | 51  | 46  | 57  | 50  | 46  | 56  | 50  | 46  | 55  | 49  | 46  | 44  |    |    |
| 9   | 66  | 54  | 47  | 42  | 64  | 54  | 47  | 42  | 53  | 46  | 42  | 52  | 46  | 42  | 51  | 45  | 42  | 40  |    |    |
| 10  | 62  | 50  | 43  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 37  |    |    |

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 73677  | 73677  | 73677 | 73677 | 73677 |
| 5°  | 121397 | 115190 | 70795 | 21022 | 10511 |
| 10° | 118306 | 120912 | 56731 | 1067  | 1417  |
| 15° | 120619 | 121332 | 33984 | 1088  | 357   |
| 20° | 190130 | 124224 | 14002 | 0     | 0     |
| 25° | 247852 | 144724 | 3344  | 0     | 0     |
| 30° | 278193 | 143124 | 139   | 0     | 0     |
| 35° | 291126 | 140948 | 0     | 0     | 0     |
| 40° | 277743 | 122460 | 0     | 0     | 0     |
| 45° | 159507 | 80813  | 0     | 0     | 0     |
| 50° | 170216 | 9244   | 0     | 0     | 0     |
| 55° | 48492  | 0      | 0     | 0     | 0     |
| 60° | 0      | 0      | 241   | 0     | 0     |
| 65° | 0      | 285    | 285   | 0     | 0     |
| 70° | 0      | 352    | 352   | 0     | 0     |
| 75° | 0      | 466    | 466   | 0     | 0     |
| 80° | 0      | 694    | 1389  | 694   | 0     |
| 85° | 0      | 1383   | 2766  | 1383  | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 176118 cd/sqm

TEST NUMBER: P1317525

CATALOG NUMBER: LDSQA3D13R509827DE010 3LSQCA30R 1MMS

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 35.9   | 5.2       |
| 10°-20°   | 90.5   | 13.1      |
| 20°-30°   | 173.9  | 25.2      |
| 30°-40°   | 202.4  | 29.4      |
| 40°-50°   | 144.8  | 21.0      |
| 50°-60°   | 40.3   | 5.9       |
| 60°-70°   | 0.3    | 0.0       |
| 70°-80°   | 0.4    | 0.1       |
| 80°-90°   | 0.5    | 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       |
| 0°-30°    | 300.3  | 43.6      |
| 0°-40°    | 502.7  | 73.0      |
| 0°-60°    | 687.8  | 99.8      |
| 0°-90°    | 689.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 689.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 428  | 428 | 428 | 428  | 428  |      |
| 5°  | 702  | 666 | 410 | 122  | 61   | 64   |
| 15° | 676  | 680 | 191 | 6    | 2    | 218  |
| 25° | 1304 | 762 | 18  | 0    | 0    | 593  |
| 35° | 1385 | 670 | 0   | 0    | 0    | 857  |
| 45° | 655  | 332 | 0   | 0    | 0    | 616  |
| 55° | 162  | 0   | 0   | 0    | 0    | 203  |
| 65° | 0    | 1   | 1   | 0    | 0    | 0    |
| 75° | 0    | 1   | 1   | 0    | 0    | 0    |
| 85° | 0    | 1   | 1   | 1    | 0    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1317525

CATALOG NUMBER: LDSQA3D13R509827DE010 3LSQCA30R 1MMS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 45°   | 67.5° | 90°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 0°    | 427.8  | 427.8  | 427.8  | 427.8  | 427.8  | 427.8  | 427.8  | 427.8  | 427.8 | 427.8 | 427.8 |
| 2.5°  | 621.7  | 625.1  | 625.8  | 617.7  | 619.0  | 607.6  | 608.2  | 600.1  | 580.5 | 512.3 | 429.8 |
| 5°    | 702.2  | 700.1  | 702.2  | 699.5  | 702.2  | 695.4  | 691.4  | 688.0  | 666.3 | 569.7 | 409.5 |
| 7.5°  | 694.7  | 692.0  | 696.1  | 697.4  | 702.2  | 700.1  | 700.8  | 702.8  | 695.4 | 600.8 | 375.1 |
| 10°   | 676.5  | 675.8  | 677.8  | 677.8  | 683.2  | 683.9  | 686.6  | 690.7  | 691.4 | 611.6 | 324.4 |
| 12.5° | 658.9  | 656.9  | 656.9  | 656.2  | 658.9  | 658.2  | 665.0  | 674.5  | 687.3 | 604.8 | 254.8 |
| 15°   | 676.5  | 674.5  | 671.8  | 664.3  | 658.9  | 652.8  | 653.5  | 659.6  | 680.5 | 587.3 | 190.6 |
| 17.5° | 818.4  | 807.6  | 794.1  | 770.4  | 745.4  | 702.2  | 676.5  | 660.3  | 672.4 | 560.2 | 127.1 |
| 20°   | 1037.4 | 1032.6 | 1011.0 | 972.5  | 931.9  | 868.4  | 789.3  | 725.8  | 677.8 | 526.5 | 76.4  |
| 21°   | 1120.5 | 1117.8 | 1094.8 | 1059.0 | 1013.0 | 936.0  | 854.9  | 778.5  | 688.7 | 512.3 | 60.1  |
| 22°   | 1205.6 | 1195.5 | 1177.3 | 1137.4 | 1089.4 | 1012.4 | 921.8  | 837.3  | 710.3 | 494.0 | 46.0  |
| 23°   | 1260.4 | 1254.3 | 1234.7 | 1202.9 | 1157.0 | 1082.0 | 989.4  | 897.5  | 731.2 | 473.7 | 34.5  |
| 24°   | 1288.8 | 1286.7 | 1271.2 | 1248.9 | 1209.7 | 1133.3 | 1045.5 | 950.9  | 748.8 | 450.1 | 25.0  |
| 25°   | 1304.3 | 1297.6 | 1288.1 | 1271.9 | 1242.1 | 1175.9 | 1097.5 | 997.5  | 761.6 | 426.4 | 17.6  |
| 26°   | 1313.8 | 1309.7 | 1294.9 | 1280.7 | 1252.3 | 1198.2 | 1131.3 | 1025.9 | 765.0 | 397.4 | 12.2  |
| 27°   | 1324.6 | 1315.1 | 1300.9 | 1284.0 | 1252.3 | 1205.0 | 1144.1 | 1038.0 | 761.0 | 367.6 | 8.1   |
| 28°   | 1336.1 | 1329.3 | 1309.7 | 1288.1 | 1250.2 | 1205.0 | 1139.4 | 1021.8 | 748.8 | 339.3 | 4.7   |
| 29°   | 1358.4 | 1349.6 | 1325.3 | 1293.5 | 1250.9 | 1203.6 | 1121.2 | 988.0  | 732.6 | 307.5 | 2.7   |
| 30°   | 1398.9 | 1380.7 | 1350.9 | 1306.3 | 1255.7 | 1200.9 | 1090.8 | 937.3  | 719.7 | 271.7 | 0.7   |
| 31°   | 1430.7 | 1420.6 | 1386.1 | 1330.0 | 1269.2 | 1193.5 | 1054.9 | 887.3  | 711.0 | 240.6 | 0.0   |
| 32°   | 1439.5 | 1432.0 | 1407.0 | 1354.3 | 1292.1 | 1187.4 | 1014.4 | 838.7  | 704.2 | 206.1 | 0.0   |
| 33°   | 1429.3 | 1424.6 | 1398.3 | 1350.3 | 1298.2 | 1179.3 | 967.8  | 790.7  | 696.8 | 175.0 | 0.0   |
| 34°   | 1410.4 | 1404.3 | 1381.4 | 1332.7 | 1282.7 | 1144.1 | 923.2  | 754.2  | 685.9 | 146.0 | 0.0   |
| 35°   | 1384.7 | 1380.0 | 1356.4 | 1308.4 | 1254.3 | 1089.4 | 878.6  | 729.9  | 670.4 | 116.9 | 0.0   |
| 36°   | 1357.0 | 1355.7 | 1325.3 | 1278.0 | 1217.8 | 1036.7 | 824.5  | 711.6  | 654.9 | 92.6  | 0.0   |
| 37°   | 1338.8 | 1332.0 | 1298.9 | 1252.3 | 1174.6 | 975.2  | 781.2  | 705.5  | 633.2 | 71.6  | 0.0   |
| 38°   | 1305.7 | 1307.0 | 1269.2 | 1226.6 | 1130.6 | 921.8  | 746.1  | 700.8  | 608.9 | 52.0  | 0.0   |
| 39°   | 1266.5 | 1267.1 | 1227.9 | 1191.5 | 1078.6 | 865.7  | 717.0  | 696.1  | 578.5 | 33.1  | 0.0   |
| 40°   | 1235.4 | 1234.7 | 1190.1 | 1150.9 | 1022.5 | 813.0  | 701.5  | 689.3  | 544.7 | 18.9  | 0.0   |
| 42.5° | 1004.3 | 1008.3 | 1013.7 | 1029.9 | 890.7  | 720.4  | 686.6  | 651.5  | 448.7 | 0.0   | 0.0   |
| 45°   | 654.9  | 670.4  | 674.5  | 723.1  | 722.4  | 682.6  | 651.5  | 583.9  | 331.8 | 0.0   | 0.0   |
| 47.5° | 623.1  | 627.8  | 636.6  | 655.5  | 665.7  | 646.1  | 582.5  | 487.9  | 181.1 | 0.0   | 0.0   |
| 50°   | 635.3  | 634.6  | 636.6  | 636.6  | 618.4  | 567.7  | 477.8  | 360.2  | 34.5  | 0.0   | 0.0   |
| 52.5° | 456.2  | 473.1  | 491.3  | 499.4  | 475.8  | 422.4  | 348.7  | 211.5  | 0.0   | 0.0   | 0.0   |
| 55°   | 161.5  | 156.1  | 152.1  | 166.2  | 162.9  | 183.1  | 151.4  | 49.3   | 0.0   | 0.0   | 0.0   |
| 57.5° | 0.0    | 0.0    | 0.0    | 0.7    | 2.7    | 6.1    | 8.1    | 0.0    | 0.0   | 0.0   | 0.0   |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.7   | 0.7   |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.7   | 0.7   |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7   | 0.7   | 0.7   |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7    | 0.7   | 0.7   | 0.7   |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7    | 0.7   | 0.7   | 0.7   |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7    | 0.7   | 0.7   | 0.7   |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7    | 0.7   | 0.7   | 0.7   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7    | 0.7    | 0.7   | 0.7   | 1.4   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7    | 0.7    | 0.7   | 0.7   | 1.4   |



TEST NUMBER: P1317525

CATALOG NUMBER: LDSQA3D13R509827DE010 3LSQCA30R 1MMS

**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 5°  | 10° | 15° | 20° | 25° | 30° | 35° | 45° | 67.5° | 90° |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.7 | 0.7   | 1.4 |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.7 | 0.7 | 0.7   | 1.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.7 | 0.7   | 1.4 |
| 90°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 |

TEST NUMBER: P1317525

CATALOG NUMBER: LDSQA3D13R509827DE010 3LSQCA30R 1MMS

**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135°  | 157.5° | 180°  |
|-------|--------|-------|--------|-------|
| 0°    | 427.8  | 427.8 | 427.8  | 427.8 |
| 2.5°  | 342.6  | 262.9 | 212.9  | 216.3 |
| 5°    | 240.6  | 121.6 | 75.0   | 60.8  |
| 7.5°  | 143.9  | 37.2  | 7.4    | 6.1   |
| 10°   | 67.6   | 6.1   | 6.8    | 8.1   |
| 12.5° | 20.3   | 5.4   | 7.4    | 6.8   |
| 15°   | 5.4    | 6.1   | 3.4    | 2.0   |
| 17.5° | 2.0    | 2.7   | 0.0    | 0.0   |
| 20°   | 1.4    | 0.0   | 0.0    | 0.0   |
| 21°   | 1.4    | 0.0   | 0.0    | 0.0   |
| 22°   | 0.7    | 0.0   | 0.0    | 0.0   |
| 23°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 24°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 25°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 26°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 27°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 28°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 29°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 31°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 32°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 33°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 34°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 35°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 36°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 37°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 38°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 39°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 40°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 42.5° | 0.0    | 0.0   | 0.0    | 0.0   |
| 45°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 47.5° | 0.0    | 0.0   | 0.0    | 0.0   |
| 50°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 52.5° | 0.0    | 0.0   | 0.0    | 0.0   |
| 55°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 57.5° | 0.0    | 0.0   | 0.0    | 0.0   |
| 60°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 62.5° | 0.0    | 0.0   | 0.0    | 0.0   |
| 65°   | 0.7    | 0.0   | 0.0    | 0.0   |
| 67.5° | 0.7    | 0.0   | 0.0    | 0.0   |
| 70°   | 0.7    | 0.0   | 0.0    | 0.0   |
| 72.5° | 0.7    | 0.0   | 0.0    | 0.0   |
| 75°   | 0.7    | 0.0   | 0.0    | 0.0   |
| 77.5° | 0.7    | 0.0   | 0.0    | 0.0   |
| 80°   | 0.7    | 0.7   | 0.0    | 0.0   |

TEST NUMBER: P1317525

CATALOG NUMBER: LDSQA3D13R509827DE010 3LSQCA30R 1MMS

**CANDELA DISTRIBUTION (continued):**

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

(END OF REPORT)