

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: P1307829

Luminaire Tested: LDSQA3D05R409027DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

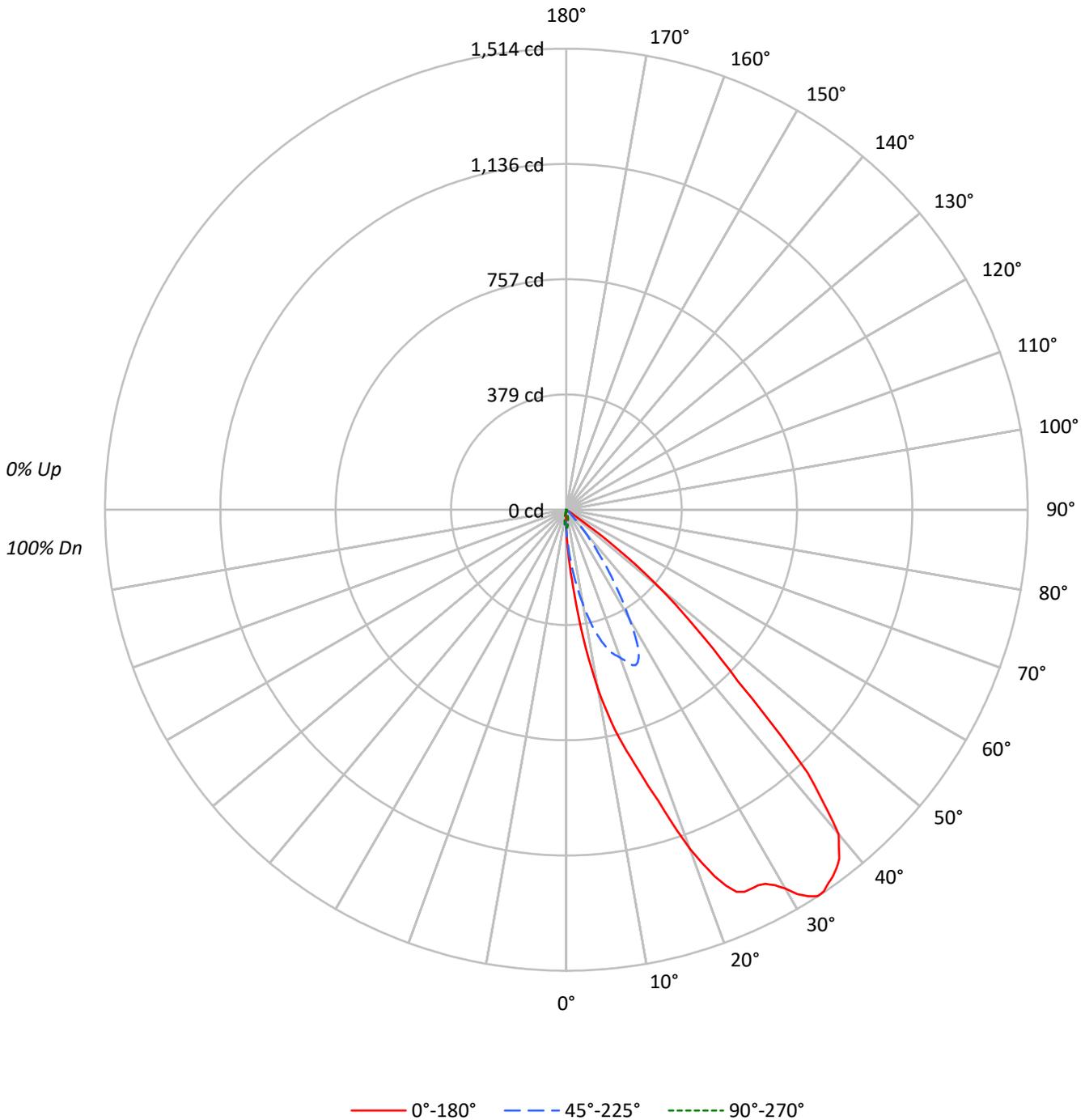
Test Method: LM-79-2019  
Report Number: P1307829  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-52)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R409027DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 508.0 lumens  
Efficiency: N/A  
Efficacy: 70.6 lumens/watt  
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 7.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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  |     |     |     | 20  |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |     | 30  |     |     |     | 10  |     |     |     | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 102 | 100 |
| 1   | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 94  | 93  | 96  | 94  | 93  | 91  |
| 2   | 106 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  | 92  | 89  | 86  | 89  | 86  | 84  | 89  | 86  | 84  | 83  |
| 3   | 99  | 91  | 85  | 80  | 97  | 90  | 84  | 80  | 87  | 82  | 78  | 84  | 81  | 77  | 82  | 79  | 76  | 82  | 79  | 76  | 74  |
| 4   | 92  | 83  | 77  | 72  | 90  | 82  | 76  | 71  | 80  | 74  | 70  | 78  | 73  | 69  | 76  | 72  | 68  | 76  | 72  | 68  | 67  |
| 5   | 86  | 76  | 69  | 64  | 84  | 75  | 68  | 64  | 73  | 67  | 63  | 71  | 66  | 62  | 70  | 65  | 62  | 70  | 65  | 62  | 60  |
| 6   | 80  | 70  | 62  | 57  | 79  | 69  | 62  | 57  | 67  | 61  | 57  | 66  | 60  | 56  | 64  | 59  | 56  | 64  | 59  | 56  | 54  |
| 7   | 75  | 64  | 57  | 52  | 74  | 63  | 56  | 51  | 62  | 56  | 51  | 60  | 55  | 51  | 59  | 54  | 50  | 59  | 54  | 50  | 49  |
| 8   | 70  | 59  | 51  | 47  | 69  | 58  | 51  | 46  | 57  | 51  | 46  | 56  | 50  | 46  | 55  | 50  | 46  | 55  | 50  | 46  | 44  |
| 9   | 66  | 54  | 47  | 42  | 64  | 54  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 51  | 45  | 42  | 51  | 45  | 42  | 40  |
| 10  | 62  | 50  | 43  | 38  | 60  | 49  | 43  | 38  | 49  | 42  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 47  | 42  | 38  | 36  |

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 10230  | 10230  | 10230 | 10230 | 10230 |
| 5°  | 43428  | 29597  | 8972  | 1625  | 813   |
| 10° | 104403 | 55070  | 5561  | 157   | 0     |
| 15° | 153657 | 80002  | 2336  | 0     | 0     |
| 20° | 217181 | 94827  | 861   | 0     | 0     |
| 25° | 263054 | 105256 | 0     | 0     | 0     |
| 30° | 285631 | 82330  | 0     | 0     | 0     |
| 35° | 314947 | 48188  | 0     | 0     | 0     |
| 40° | 312591 | 19559  | 0     | 0     | 0     |
| 45° | 193606 | 5699   | 0     | 0     | 0     |
| 50° | 107789 | 134    | 0     | 0     | 0     |
| 55° | 10539  | 0      | 0     | 0     | 0     |
| 60° | 0      | 0      | 172   | 0     | 0     |
| 65° | 0      | 0      | 204   | 0     | 0     |
| 70° | 0      | 252    | 453   | 0     | 0     |
| 75° | 0      | 333    | 599   | 0     | 0     |
| 80° | 0      | 496    | 893   | 0     | 0     |
| 85° | 0      | 988    | 1778  | 0     | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°  
 Vertical Angle: 45°  
 Luminance: 194507 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 11.1   | 2.2       |
| 10°-20°   | 65.5   | 12.9      |
| 20°-30°   | 149.5  | 29.4      |
| 30°-40°   | 176.5  | 34.7      |
| 40°-50°   | 94.3   | 18.6      |
| 50°-60°   | 10.2   | 2.0       |
| 60°-70°   | 0.2    | 0.0       |
| 70°-80°   | 0.4    | 0.1       |
| 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       |
| 0°-30°    | 226.1  | 44.5      |
| 0°-40°    | 402.6  | 79.2      |
| 0°-60°    | 507.1  | 99.8      |
| 0°-90°    | 508.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 508.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 59   | 59  | 59  | 59   | 59   |      |
| 5°  | 251  | 171 | 52  | 9    | 5    | 35   |
| 15° | 862  | 449 | 13  | 0    | 0    | 256  |
| 25° | 1384 | 554 | 0   | 0    | 0    | 629  |
| 35° | 1498 | 229 | 0   | 0    | 0    | 925  |
| 45° | 795  | 23  | 0   | 0    | 0    | 655  |
| 55° | 35   | 0   | 0   | 0    | 0    | 98   |
| 65° | 0    | 0   | 0   | 0    | 0    | 0    |
| 75° | 0    | 0   | 1   | 0    | 0    | 0    |
| 85° | 0    | 0   | 1   | 0    | 0    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 45°   | 67.5° | 90°  |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|------|
| 0°    | 59.4   | 59.4   | 59.4   | 59.4   | 59.4   | 59.4   | 59.4   | 59.4   | 59.4  | 59.4  | 59.4 |
| 2.5°  | 138.5  | 135.7  | 137.5  | 133.8  | 133.8  | 125.4  | 125.8  | 118.8  | 108.5 | 82.8  | 58.9 |
| 5°    | 251.2  | 262.5  | 253.6  | 241.9  | 235.3  | 226.9  | 215.7  | 204.0  | 171.2 | 103.4 | 51.9 |
| 7.5°  | 420.6  | 419.7  | 404.7  | 392.0  | 377.5  | 355.1  | 334.0  | 305.5  | 243.7 | 118.4 | 43.0 |
| 10°   | 597.0  | 593.7  | 576.8  | 566.1  | 538.5  | 506.2  | 463.2  | 417.3  | 314.9 | 123.5 | 31.8 |
| 12.5° | 743.9  | 739.7  | 725.6  | 707.4  | 677.0  | 636.3  | 589.9  | 529.6  | 389.7 | 117.9 | 20.6 |
| 15°   | 861.8  | 860.8  | 847.3  | 822.5  | 790.6  | 750.9  | 698.5  | 626.0  | 448.7 | 103.4 | 13.1 |
| 17.5° | 1001.6 | 1007.3 | 982.9  | 956.3  | 910.4  | 854.7  | 790.6  | 707.8  | 492.2 | 85.6  | 8.4  |
| 20°   | 1185.0 | 1177.1 | 1154.6 | 1115.8 | 1071.8 | 1004.9 | 914.2  | 795.8  | 517.4 | 66.4  | 4.7  |
| 21°   | 1241.2 | 1237.9 | 1214.5 | 1178.5 | 1129.8 | 1062.0 | 968.4  | 840.7  | 529.1 | 59.4  | 3.7  |
| 22°   | 1298.3 | 1292.6 | 1274.4 | 1239.3 | 1193.5 | 1116.7 | 1013.8 | 887.0  | 544.1 | 51.9  | 2.3  |
| 23°   | 1340.8 | 1338.5 | 1324.5 | 1289.8 | 1242.6 | 1168.2 | 1062.9 | 930.1  | 554.4 | 44.9  | 1.4  |
| 24°   | 1373.6 | 1370.8 | 1356.7 | 1330.5 | 1289.8 | 1212.2 | 1112.5 | 976.4  | 558.6 | 38.8  | 0.5  |
| 25°   | 1384.3 | 1385.7 | 1377.3 | 1356.7 | 1322.6 | 1244.9 | 1149.5 | 1012.9 | 553.9 | 33.2  | 0.0  |
| 26°   | 1384.8 | 1389.0 | 1382.9 | 1371.2 | 1343.2 | 1271.1 | 1184.1 | 1034.4 | 541.8 | 28.1  | 0.0  |
| 27°   | 1384.8 | 1389.0 | 1382.9 | 1374.0 | 1346.4 | 1286.1 | 1202.8 | 1036.7 | 523.0 | 23.9  | 0.0  |
| 28°   | 1391.4 | 1393.7 | 1385.7 | 1375.0 | 1345.0 | 1290.8 | 1208.0 | 1022.7 | 493.1 | 20.6  | 0.0  |
| 29°   | 1409.6 | 1407.3 | 1394.2 | 1379.7 | 1343.6 | 1290.8 | 1192.5 | 996.0  | 455.7 | 17.3  | 0.0  |
| 30°   | 1436.3 | 1436.3 | 1415.7 | 1392.8 | 1350.2 | 1290.3 | 1167.7 | 947.8  | 414.0 | 14.0  | 0.0  |
| 31°   | 1472.3 | 1469.0 | 1448.4 | 1414.3 | 1364.2 | 1290.3 | 1131.2 | 894.5  | 375.7 | 12.2  | 0.0  |
| 32°   | 1496.6 | 1494.7 | 1475.1 | 1434.9 | 1387.1 | 1290.3 | 1091.9 | 835.6  | 334.0 | 9.8   | 0.0  |
| 33°   | 1513.5 | 1509.7 | 1487.3 | 1445.6 | 1401.2 | 1283.8 | 1048.0 | 772.4  | 296.6 | 8.0   | 0.0  |
| 34°   | 1511.1 | 1510.2 | 1486.8 | 1443.8 | 1398.4 | 1256.6 | 997.0  | 702.2  | 262.0 | 6.5   | 0.0  |
| 35°   | 1498.0 | 1498.0 | 1469.5 | 1425.0 | 1378.3 | 1216.8 | 946.4  | 642.3  | 229.2 | 4.7   | 0.0  |
| 36°   | 1488.2 | 1484.5 | 1452.2 | 1402.6 | 1344.6 | 1154.2 | 871.6  | 582.0  | 194.2 | 3.7   | 0.0  |
| 37°   | 1473.7 | 1466.7 | 1430.7 | 1377.3 | 1296.9 | 1086.3 | 793.0  | 528.2  | 164.2 | 2.3   | 0.0  |
| 38°   | 1455.0 | 1444.2 | 1400.2 | 1347.8 | 1244.5 | 1008.2 | 713.0  | 467.8  | 136.6 | 1.4   | 0.0  |
| 39°   | 1420.8 | 1411.9 | 1366.6 | 1309.9 | 1181.8 | 925.9  | 635.3  | 411.2  | 110.4 | 0.5   | 0.0  |
| 40°   | 1390.4 | 1375.0 | 1323.5 | 1258.5 | 1108.3 | 832.8  | 558.1  | 355.6  | 87.0  | 0.0   | 0.0  |
| 42.5° | 1172.4 | 1156.0 | 1144.3 | 1079.8 | 882.8  | 597.9  | 389.7  | 227.8  | 45.4  | 0.0   | 0.0  |
| 45°   | 794.9  | 798.6  | 762.1  | 718.6  | 582.5  | 389.7  | 243.7  | 126.8  | 23.4  | 0.0   | 0.0  |
| 47.5° | 579.7  | 569.8  | 520.2  | 437.9  | 341.5  | 227.8  | 127.3  | 61.3   | 9.4   | 0.0   | 0.0  |
| 50°   | 402.3  | 383.6  | 338.7  | 277.0  | 185.7  | 108.5  | 56.1   | 28.5   | 0.5   | 0.0   | 0.0  |
| 52.5° | 218.5  | 205.4  | 174.0  | 126.3  | 77.2   | 41.6   | 22.5   | 11.7   | 0.0   | 0.0   | 0.0  |
| 55°   | 35.1   | 24.3   | 25.3   | 21.5   | 16.8   | 12.2   | 7.0    | 1.4    | 0.0   | 0.0   | 0.0  |
| 57.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5    | 0.0    | 0.0    | 0.0   | 0.5   | 0.5  |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.5   | 0.5  |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.5   | 0.5  |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.5   | 0.5  |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.9   | 0.9  |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5   | 0.9   | 0.9  |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5   | 0.9   | 0.9  |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5    | 0.5   | 0.9   | 0.9  |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5   | 0.9   | 0.9  |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5    | 0.5   | 0.9   | 0.9  |



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**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 | 0.5 | 0.5 | 0.9   | 0.9 |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.9   | 0.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 0.9   | 0.9 |
| 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: P1307829

CATALOG NUMBER: LDSQA3D05R409027DE010 3LSQCA30R 1MB

**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 0°    | 59.4   | 59.4 | 59.4   | 59.4 |
| 2.5°  | 39.8   | 27.1 | 20.6   | 17.8 |
| 5°    | 22.9   | 9.4  | 5.1    | 4.7  |
| 7.5°  | 11.2   | 3.3  | 1.9    | 1.9  |
| 10°   | 4.7    | 0.9  | 0.0    | 0.0  |
| 12.5° | 1.4    | 0.0  | 0.0    | 0.0  |
| 15°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 17.5° | 0.0    | 0.0  | 0.0    | 0.0  |
| 20°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 21°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 22°   | 0.0    | 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°   | 0.5    | 0.0  | 0.0    | 0.0  |
| 67.5° | 0.5    | 0.0  | 0.0    | 0.0  |
| 70°   | 0.5    | 0.0  | 0.0    | 0.0  |
| 72.5° | 0.5    | 0.0  | 0.0    | 0.0  |
| 75°   | 0.5    | 0.0  | 0.0    | 0.0  |
| 77.5° | 0.5    | 0.0  | 0.0    | 0.0  |
| 80°   | 0.5    | 0.0  | 0.0    | 0.0  |



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**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 82.5° | 0.5    | 0.0  | 0.0    | 0.0  |
| 85°   | 0.5    | 0.0  | 0.0    | 0.0  |
| 87.5° | 0.5    | 0.0  | 0.0    | 0.0  |
| 90°   | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)