

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: P1320153

Luminaire Tested: LDSQA3D13R509840DE010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320153
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: LDSQA3D13R509840DE010 3LSQCA30R 1MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MMS TRII
Light Source: -
Ballast/Driver: -

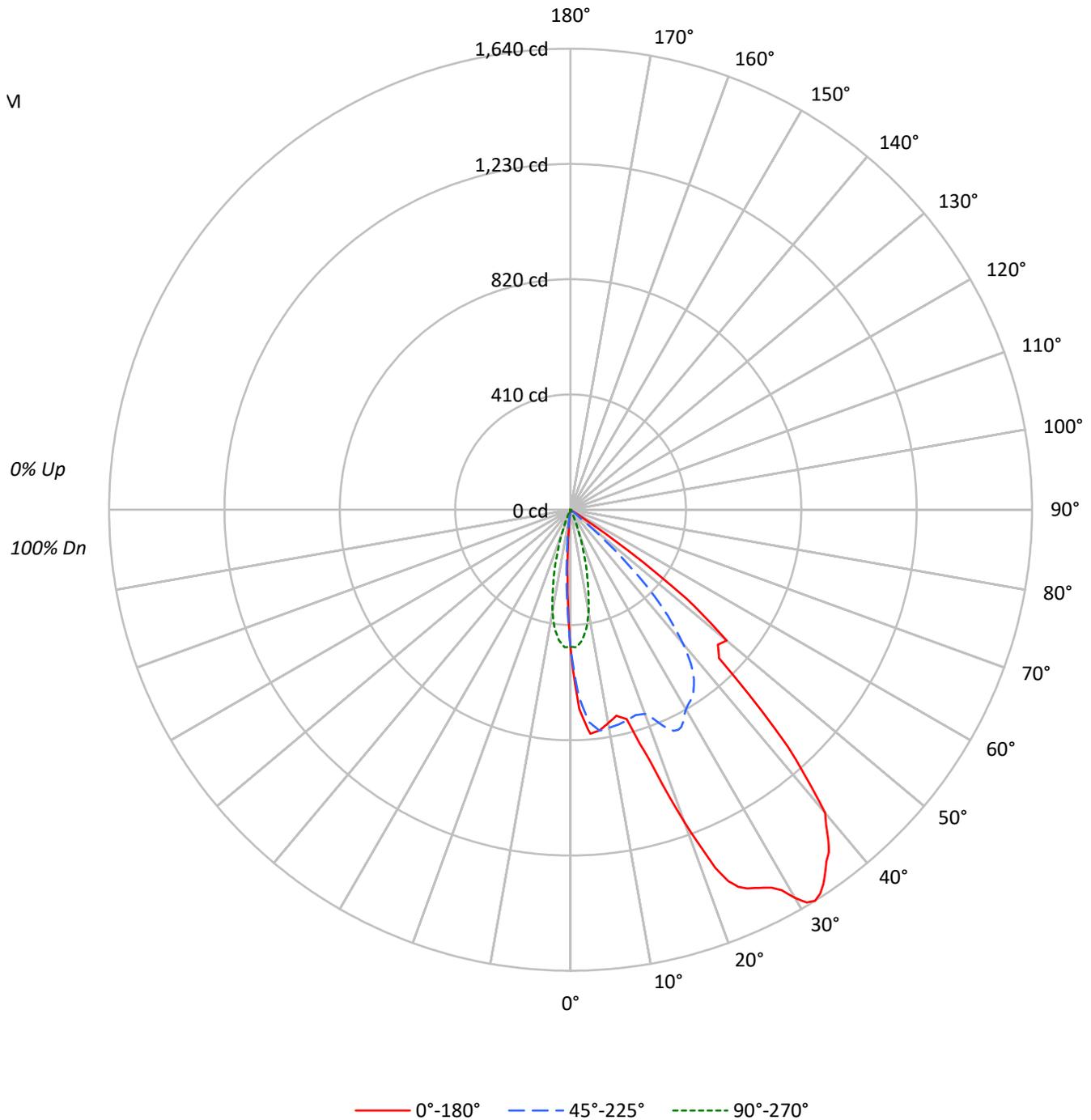
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 785.0 lumens
Efficiency: N/A
Efficacy: 54.1 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: P1320153
CATALOG NUMBER: LDSQA3D13R509840DE010 3LSQCA30R 1MMS

Luminous Intensity Polar Plot





TEST NUMBER: P1320153

CATALOG NUMBER: LDSQA3D13R509840DE010 3LSQCA30R 1MMS

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|---|--|--|--|--|
| RF | 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 | 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 | 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° | 83941 | 83941 | 83941 | 83941 | 83941 |
| 5° | 138304 | 131251 | 80666 | 23961 | 11981 |
| 10° | 134780 | 137753 | 64635 | 1207 | 1609 |
| 15° | 137414 | 138252 | 38708 | 1230 | 410 |
| 20° | 216613 | 141544 | 15945 | 0 | 0 |
| 25° | 282380 | 164905 | 3801 | 0 | 0 |
| 30° | 316952 | 163070 | 159 | 0 | 0 |
| 35° | 331704 | 160585 | 0 | 0 | 0 |
| 40° | 316435 | 139524 | 0 | 0 | 0 |
| 45° | 181720 | 92090 | 0 | 0 | 0 |
| 50° | 193928 | 10530 | 0 | 0 | 0 |
| 55° | 55248 | 0 | 0 | 0 | 0 |
| 60° | 0 | 0 | 276 | 0 | 0 |
| 65° | 0 | 326 | 326 | 0 | 0 |
| 70° | 0 | 403 | 403 | 0 | 0 |
| 75° | 0 | 532 | 532 | 0 | 0 |
| 80° | 0 | 793 | 1488 | 793 | 0 |
| 85° | 0 | 1581 | 2964 | 1581 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 45°
 Luminance: 200669 cd/sqm



TEST NUMBER: P1320153

CATALOG NUMBER: LDSQA3D13R509840DE010 3LSQCA30R 1MMS

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 40.9 | 5.2 |
| 10°-20° | 103.1 | 13.1 |
| 20°-30° | 198.1 | 25.2 |
| 30°-40° | 230.6 | 29.4 |
| 40°-50° | 165.0 | 21.0 |
| 50°-60° | 45.9 | 5.9 |
| 60°-70° | 0.3 | 0.0 |
| 70°-80° | 0.5 | 0.1 |
| 80°-90° | 0.6 | 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° | 342.2 | 43.6 |
| 0°-40° | 572.7 | 73.0 |
| 0°-60° | 783.7 | 99.8 |
| 0°-90° | 785.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 785.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 487 | 487 | 487 | 487 | 487 | |
| 5° | 800 | 759 | 467 | 139 | 69 | 73 |
| 15° | 771 | 775 | 217 | 7 | 2 | 249 |
| 25° | 1486 | 868 | 20 | 0 | 0 | 676 |
| 35° | 1578 | 764 | 0 | 0 | 0 | 976 |
| 45° | 746 | 378 | 0 | 0 | 0 | 702 |
| 55° | 184 | 0 | 0 | 0 | 0 | 232 |
| 65° | 0 | 1 | 1 | 0 | 0 | 0 |
| 75° | 0 | 1 | 1 | 0 | 0 | 0 |
| 85° | 0 | 1 | 2 | 1 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1320153
 CATALOG NUMBER: LDSQA3D13R509840DE010 3LSQCA30R 1MMS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 0° | 487.4 | 487.4 | 487.4 | 487.4 | 487.4 | 487.4 | 487.4 | 487.4 | 487.4 | 487.4 | 487.4 |
| 2.5° | 708.4 | 712.2 | 713.0 | 703.8 | 705.3 | 692.2 | 693.0 | 683.7 | 661.4 | 583.6 | 489.7 |
| 5° | 800.0 | 797.7 | 800.0 | 796.9 | 800.0 | 792.3 | 787.7 | 783.8 | 759.2 | 649.1 | 466.6 |
| 7.5° | 791.5 | 788.5 | 793.1 | 794.6 | 800.0 | 797.7 | 798.5 | 800.8 | 792.3 | 684.5 | 427.3 |
| 10° | 770.7 | 770.0 | 772.3 | 772.3 | 778.4 | 779.2 | 782.3 | 786.9 | 787.7 | 696.8 | 369.6 |
| 12.5° | 750.7 | 748.4 | 748.4 | 747.6 | 750.7 | 750.0 | 757.7 | 768.4 | 783.1 | 689.1 | 290.3 |
| 15° | 770.7 | 768.4 | 765.4 | 756.9 | 750.7 | 743.8 | 744.6 | 751.5 | 775.4 | 669.1 | 217.1 |
| 17.5° | 932.4 | 920.1 | 904.7 | 877.8 | 849.3 | 800.0 | 770.7 | 752.3 | 766.1 | 638.3 | 144.8 |
| 20° | 1181.9 | 1176.5 | 1151.9 | 1108.0 | 1061.8 | 989.4 | 899.3 | 827.0 | 772.3 | 599.8 | 87.0 |
| 21° | 1276.6 | 1273.5 | 1247.4 | 1206.5 | 1154.2 | 1066.4 | 974.0 | 887.0 | 784.6 | 583.6 | 68.5 |
| 22° | 1373.6 | 1362.1 | 1341.3 | 1295.9 | 1241.2 | 1153.4 | 1050.2 | 954.0 | 809.2 | 562.8 | 52.4 |
| 23° | 1436.0 | 1429.1 | 1406.7 | 1370.6 | 1318.2 | 1232.7 | 1127.2 | 1022.5 | 833.1 | 539.8 | 39.3 |
| 24° | 1468.3 | 1466.0 | 1448.3 | 1422.9 | 1378.3 | 1291.2 | 1191.1 | 1083.4 | 853.1 | 512.8 | 28.5 |
| 25° | 1486.0 | 1478.3 | 1467.6 | 1449.1 | 1415.2 | 1339.8 | 1250.4 | 1136.5 | 867.8 | 485.9 | 20.0 |
| 26° | 1496.8 | 1492.2 | 1475.3 | 1459.1 | 1426.8 | 1365.2 | 1288.9 | 1168.8 | 871.6 | 452.7 | 13.9 |
| 27° | 1509.1 | 1498.4 | 1482.2 | 1462.9 | 1426.8 | 1372.9 | 1303.6 | 1182.7 | 867.0 | 418.9 | 9.2 |
| 28° | 1522.2 | 1514.5 | 1492.2 | 1467.6 | 1424.4 | 1372.9 | 1298.2 | 1164.2 | 853.1 | 386.5 | 5.4 |
| 29° | 1547.6 | 1537.6 | 1509.9 | 1473.7 | 1425.2 | 1371.3 | 1277.4 | 1125.7 | 834.6 | 350.3 | 3.1 |
| 30° | 1593.8 | 1573.1 | 1539.2 | 1488.4 | 1430.6 | 1368.2 | 1242.7 | 1068.0 | 820.0 | 309.5 | 0.8 |
| 31° | 1630.0 | 1618.5 | 1579.2 | 1515.3 | 1446.0 | 1359.8 | 1201.9 | 1011.0 | 810.0 | 274.1 | 0.0 |
| 32° | 1640.0 | 1631.6 | 1603.1 | 1543.0 | 1472.2 | 1352.8 | 1155.7 | 955.5 | 802.3 | 234.8 | 0.0 |
| 33° | 1628.5 | 1623.1 | 1593.1 | 1538.4 | 1479.1 | 1343.6 | 1102.6 | 900.9 | 793.8 | 199.4 | 0.0 |
| 34° | 1606.9 | 1600.0 | 1573.8 | 1518.4 | 1461.4 | 1303.6 | 1051.8 | 859.3 | 781.5 | 166.3 | 0.0 |
| 35° | 1577.7 | 1572.3 | 1545.3 | 1490.7 | 1429.1 | 1241.2 | 1001.0 | 831.6 | 763.8 | 133.2 | 0.0 |
| 36° | 1546.1 | 1544.6 | 1509.9 | 1456.0 | 1387.5 | 1181.1 | 939.4 | 810.8 | 746.1 | 105.5 | 0.0 |
| 37° | 1525.3 | 1517.6 | 1479.9 | 1426.8 | 1338.2 | 1111.1 | 890.1 | 803.9 | 721.5 | 81.6 | 0.0 |
| 38° | 1487.6 | 1489.1 | 1446.0 | 1397.5 | 1288.2 | 1050.2 | 850.0 | 798.5 | 693.7 | 59.3 | 0.0 |
| 39° | 1442.9 | 1443.7 | 1399.0 | 1357.5 | 1228.9 | 986.3 | 816.9 | 793.1 | 659.1 | 37.7 | 0.0 |
| 40° | 1407.5 | 1406.7 | 1355.9 | 1311.3 | 1165.0 | 926.3 | 799.2 | 785.4 | 620.6 | 21.6 | 0.0 |
| 42.5° | 1144.2 | 1148.8 | 1155.0 | 1173.4 | 1014.8 | 820.8 | 782.3 | 742.3 | 511.3 | 0.0 | 0.0 |
| 45° | 746.1 | 763.8 | 768.4 | 823.9 | 823.1 | 777.7 | 742.3 | 665.3 | 378.1 | 0.0 | 0.0 |
| 47.5° | 709.9 | 715.3 | 725.3 | 746.9 | 758.4 | 736.1 | 663.7 | 555.9 | 206.4 | 0.0 | 0.0 |
| 50° | 723.8 | 723.0 | 725.3 | 725.3 | 704.5 | 646.8 | 544.4 | 410.4 | 39.3 | 0.0 | 0.0 |
| 52.5° | 519.7 | 539.0 | 559.8 | 569.0 | 542.1 | 481.2 | 397.3 | 241.0 | 0.0 | 0.0 | 0.0 |
| 55° | 184.0 | 177.9 | 173.2 | 189.4 | 185.6 | 208.7 | 172.5 | 56.2 | 0.0 | 0.0 | 0.0 |
| 57.5° | 0.0 | 0.0 | 0.0 | 0.8 | 3.1 | 6.9 | 9.2 | 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 | 0.8 | 0.8 |
| 62.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 0.8 |
| 65° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 0.8 | 0.8 |
| 67.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 0.8 | 0.8 | 0.8 |
| 70° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 0.8 | 0.8 | 0.8 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 0.8 | 0.8 | 0.8 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 0.8 | 0.8 | 0.8 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 0.8 | 0.8 | 0.8 | 1.5 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 0.8 | 0.8 | 0.8 | 1.5 |



TEST NUMBER: P1320153

CATALOG NUMBER: LDSQA3D13R509840DE010 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 | 0.8 | 0.8 | 0.8 | 1.5 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 0.8 | 0.8 | 0.8 | 1.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 0.8 | 0.8 | 1.5 |
| 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: P1320153
 CATALOG NUMBER: LDSQA3D13R509840DE010 3LSQCA30R 1MMS

CANDELA DISTRIBUTION (continued):

| | 112.5° | 135° | 157.5° | 180° |
|-------|--------|-------|--------|-------|
| 0° | 487.4 | 487.4 | 487.4 | 487.4 |
| 2.5° | 390.4 | 299.5 | 242.5 | 246.4 |
| 5° | 274.1 | 138.6 | 85.5 | 69.3 |
| 7.5° | 164.0 | 42.3 | 8.5 | 6.9 |
| 10° | 77.0 | 6.9 | 7.7 | 9.2 |
| 12.5° | 23.1 | 6.2 | 8.5 | 7.7 |
| 15° | 6.2 | 6.9 | 3.8 | 2.3 |
| 17.5° | 2.3 | 3.1 | 0.0 | 0.0 |
| 20° | 1.5 | 0.0 | 0.0 | 0.0 |
| 21° | 1.5 | 0.0 | 0.0 | 0.0 |
| 22° | 0.8 | 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° | 0.8 | 0.0 | 0.0 | 0.0 |
| 67.5° | 0.8 | 0.0 | 0.0 | 0.0 |
| 70° | 0.8 | 0.0 | 0.0 | 0.0 |
| 72.5° | 0.8 | 0.0 | 0.0 | 0.0 |
| 75° | 0.8 | 0.0 | 0.0 | 0.0 |
| 77.5° | 0.8 | 0.0 | 0.0 | 0.0 |
| 80° | 0.8 | 0.8 | 0.0 | 0.0 |



TEST NUMBER: P1320153
CATALOG NUMBER: LDSQA3D13R509840DE010 3LSQCA30R 1MMS

CANDELA DISTRIBUTION (continued):

| | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 82.5° | 0.8 | 0.8 | 0.0 | 0.0 |
| 85° | 0.8 | 0.8 | 0.0 | 0.0 |
| 87.5° | 0.8 | 0.8 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)