

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: P1309497

Luminaire Tested: LDSQA3D20R159030D010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309497
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-73)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D20R159030D010 3LSQCA45R 1MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 90CRI , 3LSQCA45R 1MMS TRII
Light Source: -
Ballast/Driver: -

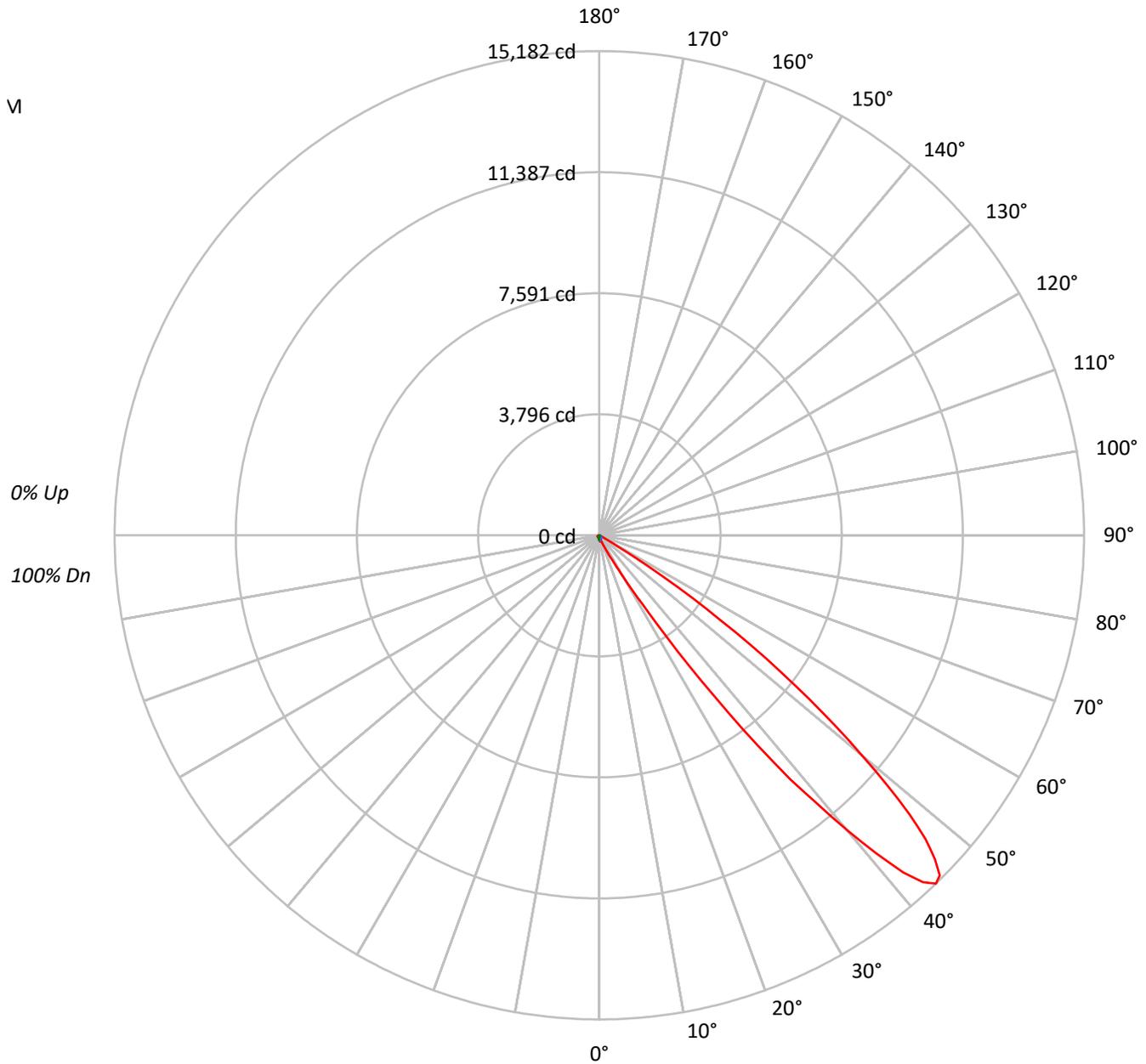
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1695.0 lumens
Efficiency: N/A
Efficacy: 58.9 lumens/watt
Spacing Criteria (0/90/45): 3.26 / 0.47 / 1.08
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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: P1309497
CATALOG NUMBER: LDSQA3D20R159030D010 3LSQCA45R 1MMS

Luminous Intensity Polar Plot



— 0°-180° - - - 45°-225° ····· 90°-270°



TEST NUMBER: P1309497

CATALOG NUMBER: LDSQA3D20R159030D010 3LSQCA45R 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 | 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 | 110 | 106 | 102 | 99 | 107 | 104 | 100 | 97 | 100 | 97 | 94 | 96 | 93 | 91 | 92 | 90 | 89 | 89 | 89 | 89 | 87 |
| 2 | 101 | 93 | 87 | 81 | 98 | 91 | 85 | 80 | 87 | 83 | 78 | 84 | 80 | 77 | 81 | 78 | 75 | 75 | 75 | 75 | 73 |
| 3 | 91 | 81 | 73 | 67 | 89 | 79 | 72 | 66 | 76 | 70 | 65 | 74 | 68 | 64 | 71 | 67 | 63 | 63 | 63 | 63 | 61 |
| 4 | 83 | 71 | 62 | 55 | 80 | 69 | 61 | 55 | 67 | 60 | 54 | 64 | 58 | 53 | 62 | 57 | 53 | 53 | 53 | 53 | 50 |
| 5 | 75 | 62 | 52 | 46 | 73 | 61 | 52 | 45 | 58 | 51 | 45 | 56 | 50 | 44 | 55 | 49 | 44 | 44 | 44 | 44 | 42 |
| 6 | 68 | 54 | 45 | 38 | 66 | 53 | 44 | 38 | 51 | 43 | 37 | 49 | 42 | 37 | 48 | 42 | 37 | 37 | 37 | 37 | 35 |
| 7 | 62 | 47 | 38 | 32 | 60 | 47 | 38 | 32 | 45 | 37 | 31 | 44 | 36 | 31 | 42 | 36 | 31 | 31 | 31 | 31 | 29 |
| 8 | 56 | 42 | 33 | 27 | 55 | 41 | 33 | 27 | 40 | 32 | 26 | 39 | 31 | 26 | 37 | 31 | 26 | 26 | 26 | 26 | 24 |
| 9 | 52 | 37 | 28 | 22 | 50 | 37 | 28 | 22 | 35 | 28 | 22 | 34 | 27 | 22 | 33 | 27 | 22 | 22 | 22 | 22 | 20 |
| 10 | 48 | 33 | 25 | 19 | 46 | 33 | 25 | 19 | 32 | 24 | 19 | 31 | 24 | 19 | 30 | 23 | 19 | 19 | 19 | 19 | 17 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|---------|-------|-------|-------|-------|
| 0° | 25902 | 25902 | 25902 | 25902 | 25902 |
| 5° | 32138 | 28629 | 23373 | 20452 | 20158 |
| 10° | 31618 | 24536 | 18030 | 15966 | 16264 |
| 15° | 26210 | 17473 | 12962 | 13265 | 14157 |
| 20° | 45526 | 13947 | 9915 | 11455 | 13013 |
| 25° | 101493 | 16703 | 8038 | 10603 | 12200 |
| 30° | 303489 | 20503 | 7060 | 10421 | 12767 |
| 35° | 1168332 | 23106 | 6391 | 10659 | 13498 |
| 40° | 2711810 | 20144 | 6070 | 11016 | 14433 |
| 45° | 3673000 | 15222 | 5358 | 11934 | 15637 |
| 50° | 2879962 | 9056 | 5439 | 12673 | 17201 |
| 55° | 1382342 | 4054 | 5074 | 13692 | 18766 |
| 60° | 126308 | 586 | 4650 | 14570 | 20942 |
| 65° | 13774 | 0 | 4116 | 15160 | 22739 |
| 70° | 3424 | 0 | 5086 | 16164 | 24674 |
| 75° | 3394 | 1131 | 6721 | 17966 | 28147 |
| 80° | 3372 | 3372 | 8430 | 18447 | 30150 |
| 85° | 3359 | 3359 | 13437 | 16796 | 33395 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3673000 cd/sqm



TEST NUMBER: P1309497

CATALOG NUMBER: LDSQA3D20R159030D010 3LSQCA45R 1MMS

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 12.8 | 0.8 |
| 10°-20° | 26.7 | 1.6 |
| 20°-30° | 64.0 | 3.8 |
| 30°-40° | 350.6 | 20.7 |
| 40°-50° | 849.0 | 50.1 |
| 50°-60° | 338.7 | 20.0 |
| 60°-70° | 29.3 | 1.7 |
| 70°-80° | 16.5 | 1.0 |
| 80°-90° | 7.3 | 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° | 103.6 | 6.1 |
| 0°-40° | 454.2 | 26.8 |
| 0°-60° | 1641.9 | 96.9 |
| 0°-90° | 1695.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1695.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-------|-----|-----|------|------|-------|
| 0° | 150 | 150 | 150 | 150 | 150 | |
| 5° | 186 | 166 | 135 | 118 | 117 | 18 |
| 15° | 147 | 98 | 73 | 74 | 79 | 51 |
| 25° | 534 | 88 | 42 | 56 | 64 | 322 |
| 35° | 5557 | 110 | 30 | 51 | 64 | 3927 |
| 45° | 15080 | 62 | 22 | 49 | 64 | 10638 |
| 55° | 4604 | 14 | 17 | 46 | 62 | 4289 |
| 65° | 34 | 0 | 10 | 37 | 56 | 87 |
| 75° | 5 | 2 | 10 | 27 | 42 | 5 |
| 85° | 2 | 2 | 7 | 8 | 17 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1309497

CATALOG NUMBER: LDSQA3D20R159030D010 3LSQCA45R 1MMS

CANDELA DISTRIBUTION (FULL):

| | 0° | 2.5° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 45° |
|-------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|-------|
| 0° | 150.4 | 150.4 | 150.4 | 150.4 | 150.4 | 150.4 | 150.4 | 150.4 | 150.4 | 150.4 | 150.4 |
| 2.5° | 169.0 | 169.0 | 170.7 | 169.0 | 169.0 | 169.0 | 169.0 | 167.3 | 167.3 | 167.3 | 162.2 |
| 5° | 185.9 | 185.9 | 185.9 | 185.9 | 184.2 | 184.2 | 184.2 | 182.5 | 182.5 | 180.8 | 165.6 |
| 7.5° | 192.7 | 192.7 | 191.0 | 191.0 | 189.3 | 189.3 | 187.6 | 185.9 | 184.2 | 182.5 | 158.9 |
| 10° | 180.8 | 180.8 | 180.8 | 179.1 | 179.1 | 177.5 | 175.8 | 174.1 | 172.4 | 169.0 | 140.3 |
| 12.5° | 160.6 | 160.6 | 162.2 | 160.6 | 158.9 | 157.2 | 153.8 | 152.1 | 150.4 | 147.0 | 116.6 |
| 15° | 147.0 | 147.0 | 147.0 | 145.3 | 143.7 | 140.3 | 138.6 | 135.2 | 133.5 | 128.4 | 98.0 |
| 17.5° | 187.6 | 187.6 | 185.9 | 182.5 | 175.8 | 170.7 | 162.2 | 155.5 | 147.0 | 136.9 | 84.5 |
| 20° | 248.4 | 248.4 | 245.1 | 241.7 | 233.2 | 224.8 | 211.3 | 199.4 | 185.9 | 174.1 | 76.1 |
| 22.5° | 360.0 | 365.1 | 354.9 | 343.1 | 331.3 | 311.0 | 292.4 | 273.8 | 250.1 | 229.9 | 77.7 |
| 25° | 534.1 | 539.1 | 534.1 | 507.0 | 485.1 | 458.0 | 422.5 | 385.3 | 344.8 | 307.6 | 87.9 |
| 27.5° | 865.3 | 868.7 | 860.2 | 794.3 | 758.8 | 687.9 | 625.3 | 564.5 | 496.9 | 429.3 | 96.3 |
| 30° | 1526.1 | 1527.8 | 1473.7 | 1341.9 | 1225.3 | 1069.8 | 938.0 | 811.2 | 704.8 | 596.6 | 103.1 |
| 31° | 2009.5 | 1962.2 | 1847.3 | 1688.4 | 1502.5 | 1292.9 | 1112.1 | 948.1 | 789.3 | 672.6 | 104.8 |
| 32° | 2552.0 | 2545.3 | 2354.3 | 2078.8 | 1830.4 | 1568.4 | 1296.3 | 1086.7 | 904.2 | 745.3 | 106.5 |
| 33° | 3270.3 | 3273.7 | 2972.8 | 2648.3 | 2241.0 | 1889.5 | 1532.9 | 1245.6 | 1025.9 | 831.5 | 109.9 |
| 34° | 4392.5 | 4128.9 | 3775.6 | 3336.2 | 2781.9 | 2252.9 | 1789.8 | 1429.8 | 1135.7 | 914.3 | 109.9 |
| 35° | 5557.0 | 5291.6 | 4902.9 | 4237.0 | 3476.5 | 2736.2 | 2095.7 | 1627.5 | 1267.6 | 1003.9 | 109.9 |
| 36° | 6861.7 | 6636.9 | 6048.8 | 5198.7 | 4228.6 | 3192.6 | 2420.2 | 1855.7 | 1397.7 | 1085.0 | 108.2 |
| 37° | 8271.2 | 7941.7 | 7289.3 | 6361.4 | 5063.5 | 3834.8 | 2815.7 | 2082.2 | 1527.8 | 1172.9 | 104.8 |
| 38° | 9702.7 | 9405.3 | 8582.2 | 7458.3 | 6060.6 | 4512.5 | 3211.1 | 2300.2 | 1647.8 | 1238.8 | 99.7 |
| 39° | 10787.7 | 10625.5 | 9809.2 | 8553.5 | 6856.6 | 5154.7 | 3618.4 | 2533.4 | 1774.6 | 1304.7 | 94.6 |
| 40° | 12062.1 | 11800.1 | 11026.0 | 9472.9 | 7798.0 | 5808.8 | 4017.3 | 2739.6 | 1879.4 | 1357.1 | 89.6 |
| 41° | 13224.8 | 12893.6 | 11916.7 | 10415.9 | 8551.8 | 6396.9 | 4395.9 | 2952.6 | 1963.9 | 1387.6 | 86.2 |
| 42° | 14222.0 | 13836.6 | 12815.8 | 11223.8 | 9182.2 | 6866.8 | 4698.4 | 3104.7 | 2043.3 | 1412.9 | 81.1 |
| 43° | 14867.6 | 14534.6 | 13530.7 | 11830.5 | 9721.3 | 7297.7 | 4980.6 | 3263.5 | 2092.3 | 1429.8 | 74.4 |
| 44° | 15181.9 | 14845.6 | 13873.8 | 12210.8 | 10052.6 | 7556.3 | 5163.2 | 3373.4 | 2146.4 | 1451.8 | 69.3 |
| 45° | 15080.5 | 14739.1 | 13799.5 | 12217.5 | 10155.7 | 7649.3 | 5240.9 | 3422.4 | 2175.1 | 1472.1 | 62.5 |
| 46° | 14615.8 | 14375.8 | 13429.3 | 11899.8 | 9959.6 | 7549.6 | 5197.0 | 3385.2 | 2165.0 | 1472.1 | 55.8 |
| 47° | 13963.4 | 13689.6 | 12788.8 | 11353.9 | 9484.7 | 7292.7 | 5019.5 | 3272.0 | 2102.5 | 1438.3 | 49.0 |
| 48° | 13074.4 | 12841.2 | 11894.7 | 10486.9 | 8756.3 | 6733.3 | 4619.0 | 3087.8 | 2004.4 | 1372.3 | 42.3 |
| 49° | 11959.0 | 11634.5 | 10753.9 | 9378.2 | 7806.5 | 5938.9 | 4093.4 | 2776.8 | 1847.3 | 1279.4 | 37.2 |
| 50° | 10748.9 | 10348.3 | 9668.9 | 8267.8 | 6824.5 | 5092.2 | 3402.1 | 2347.5 | 1625.9 | 1157.7 | 33.8 |
| 51° | 9564.1 | 9156.8 | 8509.5 | 7318.0 | 5776.7 | 4225.2 | 2744.7 | 1874.3 | 1338.5 | 990.4 | 28.7 |
| 52° | 8335.4 | 7994.1 | 7269.0 | 6332.7 | 4945.2 | 3424.1 | 2286.7 | 1585.3 | 1112.1 | 831.5 | 23.7 |
| 53° | 7111.8 | 6878.6 | 6189.1 | 5240.9 | 3973.4 | 2797.1 | 1867.5 | 1357.1 | 970.1 | 711.5 | 18.6 |
| 54° | 5886.5 | 5631.3 | 5107.4 | 4262.4 | 3202.7 | 2207.2 | 1583.6 | 1135.7 | 841.7 | 620.3 | 16.9 |
| 55° | 4603.8 | 4471.9 | 3988.6 | 3250.0 | 2426.9 | 1761.1 | 1284.5 | 976.9 | 704.8 | 518.9 | 13.5 |
| 56° | 3545.8 | 3397.0 | 2955.9 | 2357.7 | 1803.3 | 1379.1 | 1039.4 | 797.7 | 596.6 | 434.3 | 10.1 |
| 57° | 2322.2 | 2170.1 | 1877.7 | 1646.1 | 1313.2 | 1005.6 | 794.3 | 628.7 | 485.1 | 360.0 | 8.5 |
| 58° | 1372.3 | 1233.8 | 1188.1 | 1014.0 | 875.5 | 682.8 | 586.5 | 468.2 | 358.3 | 283.9 | 5.1 |
| 59° | 630.4 | 640.5 | 569.6 | 534.1 | 485.1 | 434.3 | 356.6 | 312.7 | 245.1 | 204.5 | 3.4 |
| 60° | 366.7 | 346.5 | 338.0 | 302.5 | 268.7 | 238.3 | 214.6 | 189.3 | 153.8 | 131.8 | 1.7 |
| 62.5° | 125.1 | 120.0 | 123.4 | 111.5 | 104.8 | 101.4 | 93.0 | 79.4 | 65.9 | 54.1 | 0.0 |
| 65° | 33.8 | 33.8 | 32.1 | 30.4 | 28.7 | 27.0 | 25.4 | 22.0 | 20.3 | 16.9 | 0.0 |



TEST NUMBER: P1309497

CATALOG NUMBER: LDSQA3D20R159030D010 3LSQCA45R 1MMS

CANDELA DISTRIBUTION (continued):

| | 0° | 2.5° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 45° |
|-------|------|------|------|------|-----|-------|-----|-------|-----|-------|-----|
| 67.5° | 11.8 | 11.8 | 10.1 | 10.1 | 8.5 | 8.5 | 6.8 | 6.8 | 5.1 | 5.1 | 0.0 |
| 70° | 6.8 | 6.8 | 6.8 | 5.1 | 5.1 | 5.1 | 3.4 | 3.4 | 3.4 | 1.7 | 0.0 |
| 72.5° | 5.1 | 5.1 | 5.1 | 5.1 | 5.1 | 5.1 | 3.4 | 3.4 | 3.4 | 1.7 | 1.7 |
| 75° | 5.1 | 5.1 | 5.1 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 1.7 |
| 77.5° | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| 80° | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 1.7 | 3.4 |
| 82.5° | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 3.4 |
| 85° | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 |
| 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: P1309497

CATALOG NUMBER: LDSQA3D20R159030D010 3LSQCA45R 1MMS

CANDELA DISTRIBUTION (continued):

| | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-------|--------|-------|--------|-------|
| 0° | 150.4 | 150.4 | 150.4 | 150.4 | 150.4 | 150.4 |
| 2.5° | 155.5 | 148.7 | 140.3 | 135.2 | 133.5 | 131.8 |
| 5° | 148.7 | 135.2 | 125.1 | 118.3 | 116.6 | 116.6 |
| 7.5° | 133.5 | 118.3 | 108.2 | 104.8 | 103.1 | 103.1 |
| 10° | 116.6 | 103.1 | 94.6 | 91.3 | 93.0 | 93.0 |
| 12.5° | 98.0 | 86.2 | 82.8 | 82.8 | 84.5 | 86.2 |
| 15° | 79.4 | 72.7 | 72.7 | 74.4 | 77.7 | 79.4 |
| 17.5° | 65.9 | 62.5 | 64.2 | 67.6 | 71.0 | 74.4 |
| 20° | 54.1 | 54.1 | 57.5 | 62.5 | 67.6 | 71.0 |
| 22.5° | 45.6 | 47.3 | 52.4 | 57.5 | 64.2 | 67.6 |
| 25° | 38.9 | 42.3 | 47.3 | 55.8 | 62.5 | 64.2 |
| 27.5° | 33.8 | 38.9 | 45.6 | 54.1 | 60.8 | 64.2 |
| 30° | 28.7 | 35.5 | 43.9 | 52.4 | 60.8 | 64.2 |
| 31° | 27.0 | 33.8 | 42.3 | 52.4 | 60.8 | 64.2 |
| 32° | 25.4 | 33.8 | 42.3 | 52.4 | 60.8 | 64.2 |
| 33° | 23.7 | 32.1 | 42.3 | 50.7 | 60.8 | 64.2 |
| 34° | 22.0 | 32.1 | 42.3 | 52.4 | 60.8 | 64.2 |
| 35° | 20.3 | 30.4 | 40.6 | 50.7 | 59.2 | 64.2 |
| 36° | 18.6 | 30.4 | 40.6 | 50.7 | 60.8 | 64.2 |
| 37° | 16.9 | 30.4 | 40.6 | 50.7 | 59.2 | 64.2 |
| 38° | 16.9 | 28.7 | 38.9 | 50.7 | 59.2 | 64.2 |
| 39° | 15.2 | 27.0 | 38.9 | 50.7 | 59.2 | 64.2 |
| 40° | 13.5 | 27.0 | 37.2 | 49.0 | 59.2 | 64.2 |
| 41° | 11.8 | 25.4 | 37.2 | 49.0 | 59.2 | 64.2 |
| 42° | 10.1 | 25.4 | 37.2 | 49.0 | 59.2 | 64.2 |
| 43° | 8.5 | 23.7 | 35.5 | 49.0 | 59.2 | 64.2 |
| 44° | 8.5 | 23.7 | 35.5 | 49.0 | 59.2 | 64.2 |
| 45° | 6.8 | 22.0 | 33.8 | 49.0 | 59.2 | 64.2 |
| 46° | 6.8 | 22.0 | 33.8 | 47.3 | 59.2 | 64.2 |
| 47° | 5.1 | 22.0 | 33.8 | 47.3 | 59.2 | 64.2 |
| 48° | 5.1 | 20.3 | 33.8 | 47.3 | 59.2 | 64.2 |
| 49° | 3.4 | 20.3 | 33.8 | 47.3 | 59.2 | 64.2 |
| 50° | 3.4 | 20.3 | 32.1 | 47.3 | 59.2 | 64.2 |
| 51° | 3.4 | 20.3 | 32.1 | 47.3 | 59.2 | 64.2 |
| 52° | 3.4 | 18.6 | 32.1 | 47.3 | 59.2 | 64.2 |
| 53° | 3.4 | 18.6 | 32.1 | 47.3 | 59.2 | 64.2 |
| 54° | 3.4 | 18.6 | 30.4 | 47.3 | 59.2 | 64.2 |
| 55° | 3.4 | 16.9 | 30.4 | 45.6 | 59.2 | 62.5 |
| 56° | 3.4 | 16.9 | 30.4 | 45.6 | 59.2 | 62.5 |
| 57° | 3.4 | 16.9 | 28.7 | 45.6 | 59.2 | 62.5 |
| 58° | 3.4 | 15.2 | 28.7 | 43.9 | 57.5 | 62.5 |
| 59° | 3.4 | 15.2 | 27.0 | 43.9 | 57.5 | 60.8 |
| 60° | 3.4 | 13.5 | 27.0 | 42.3 | 55.8 | 60.8 |
| 62.5° | 3.4 | 11.8 | 23.7 | 40.6 | 54.1 | 57.5 |
| 65° | 3.4 | 10.1 | 22.0 | 37.2 | 52.4 | 55.8 |



TEST NUMBER: P1309497

CATALOG NUMBER: LDSQA3D20R159030D010 3LSQCA45R 1MMS

CANDELA DISTRIBUTION (continued):

| | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|------|--------|------|--------|------|
| 67.5° | 3.4 | 10.1 | 20.3 | 35.5 | 49.0 | 54.1 |
| 70° | 3.4 | 10.1 | 18.6 | 32.1 | 47.3 | 49.0 |
| 72.5° | 5.1 | 10.1 | 16.9 | 30.4 | 43.9 | 45.6 |
| 75° | 6.8 | 10.1 | 15.2 | 27.0 | 40.6 | 42.3 |
| 77.5° | 6.8 | 10.1 | 13.5 | 23.7 | 35.5 | 37.2 |
| 80° | 6.8 | 8.5 | 11.8 | 18.6 | 28.7 | 30.4 |
| 82.5° | 6.8 | 8.5 | 8.5 | 15.2 | 22.0 | 23.7 |
| 85° | 5.1 | 6.8 | 6.8 | 8.5 | 15.2 | 16.9 |
| 87.5° | 5.1 | 6.8 | 3.4 | 5.1 | 6.8 | 6.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)