

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: P1315938

Luminaire Tested: LDSQA3D20R359735D010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315938
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D20R359735D010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R35 optic, 3500K CCT AND, 97CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

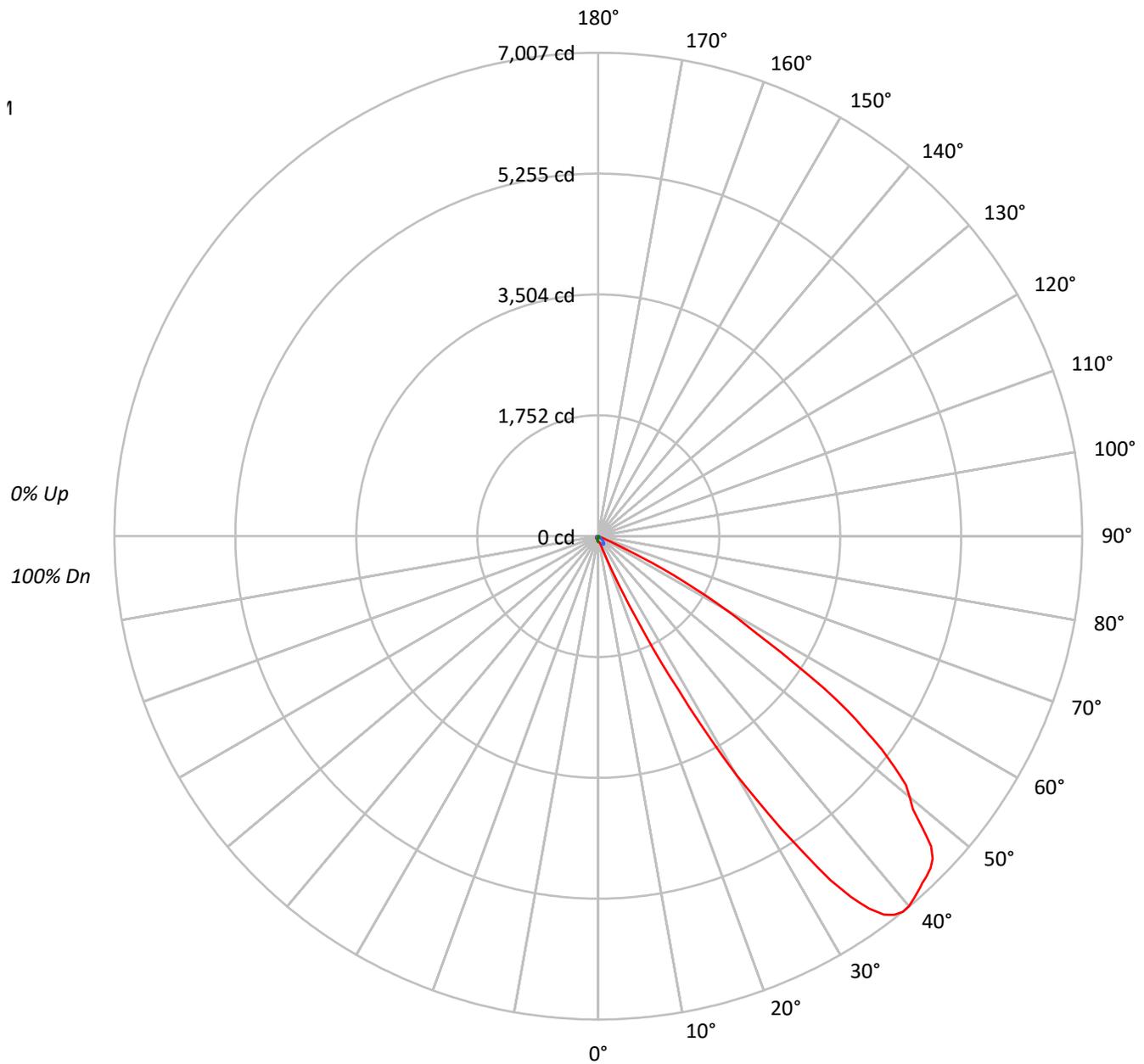
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1745.1 lumens
Efficiency: N/A
Efficacy: 60.6 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
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 (A_{in}): 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: P1315938
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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270°



TEST NUMBER: P1315938

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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 | 100 | | | 100 | |
| 1 | 110 | 106 | 102 | 99 | 107 | 104 | 100 | 97 | 100 | 97 | 94 | 96 | 93 | 91 | 92 | 90 | 89 | 87 | | | 87 | |
| 2 | 100 | 93 | 86 | 81 | 98 | 91 | 85 | 80 | 87 | 83 | 78 | 84 | 80 | 77 | 81 | 78 | 75 | 73 | | | 73 | |
| 3 | 91 | 81 | 73 | 67 | 89 | 79 | 72 | 66 | 76 | 70 | 65 | 74 | 68 | 64 | 71 | 67 | 63 | 61 | | | 61 | |
| 4 | 83 | 71 | 62 | 55 | 80 | 69 | 61 | 55 | 67 | 60 | 54 | 64 | 58 | 53 | 62 | 57 | 52 | 50 | | | 50 | |
| 5 | 75 | 62 | 52 | 46 | 73 | 61 | 52 | 45 | 58 | 51 | 45 | 56 | 50 | 44 | 55 | 49 | 44 | 42 | | | 42 | |
| 6 | 68 | 54 | 45 | 38 | 66 | 53 | 44 | 38 | 51 | 43 | 38 | 50 | 43 | 37 | 48 | 42 | 37 | 35 | | | 35 | |
| 7 | 62 | 48 | 38 | 32 | 60 | 47 | 38 | 32 | 45 | 37 | 32 | 44 | 37 | 31 | 42 | 36 | 31 | 29 | | | 29 | |
| 8 | 57 | 42 | 33 | 27 | 55 | 41 | 33 | 27 | 40 | 32 | 27 | 39 | 32 | 26 | 38 | 31 | 26 | 24 | | | 24 | |
| 9 | 52 | 38 | 29 | 23 | 50 | 37 | 29 | 23 | 36 | 28 | 23 | 35 | 28 | 22 | 34 | 27 | 22 | 20 | | | 20 | |
| 10 | 48 | 34 | 25 | 19 | 46 | 33 | 25 | 19 | 32 | 25 | 19 | 31 | 24 | 19 | 30 | 24 | 19 | 17 | | | 17 | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|---------|-------|-------|-------|-------|
| 0° | 13829 | 13829 | 13829 | 13829 | 13829 |
| 5° | 14971 | 14712 | 13623 | 12257 | 11981 |
| 10° | 15704 | 14323 | 12119 | 10475 | 10475 |
| 15° | 22466 | 14050 | 9824 | 8986 | 9271 |
| 20° | 56302 | 15010 | 7789 | 7789 | 8669 |
| 25° | 261325 | 19155 | 5986 | 7183 | 8076 |
| 30° | 794428 | 25992 | 4693 | 6582 | 8153 |
| 35° | 1342625 | 30128 | 3974 | 6286 | 7947 |
| 40° | 1573812 | 29744 | 3192 | 6385 | 8498 |
| 45° | 1657423 | 21092 | 2679 | 6917 | 9207 |
| 50° | 1577631 | 12673 | 2545 | 7181 | 10128 |
| 55° | 1321989 | 5195 | 2852 | 8047 | 11830 |
| 60° | 740075 | 1102 | 3272 | 9231 | 13020 |
| 65° | 127755 | 652 | 3219 | 10269 | 14752 |
| 70° | 2367 | 806 | 3978 | 11128 | 16667 |
| 75° | 2129 | 1065 | 5257 | 12576 | 18898 |
| 80° | 1587 | 1587 | 6248 | 14083 | 21919 |
| 85° | 0 | 3162 | 12449 | 15611 | 24898 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 46°
 Luminance: 1669175 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 7.2 | 0.4 |
| 10°-20° | 20.6 | 1.2 |
| 20°-30° | 107.1 | 6.1 |
| 30°-40° | 462.4 | 26.5 |
| 40°-50° | 659.6 | 37.8 |
| 50°-60° | 408.5 | 23.4 |
| 60°-70° | 62.2 | 3.6 |
| 70°-80° | 11.6 | 0.7 |
| 80°-90° | 5.8 | 0.3 |
| 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° | 134.9 | 7.7 |
| 0°-40° | 597.3 | 34.2 |
| 0°-60° | 1665.4 | 95.4 |
| 0°-90° | 1745.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1745.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 80 | 80 | 80 | 80 | 80 | |
| 5° | 87 | 85 | 79 | 71 | 69 | 8 |
| 15° | 126 | 79 | 55 | 50 | 52 | 45 |
| 25° | 1375 | 101 | 32 | 38 | 42 | 823 |
| 35° | 6386 | 143 | 19 | 30 | 38 | 3834 |
| 45° | 6805 | 87 | 11 | 28 | 38 | 5141 |
| 55° | 4403 | 17 | 10 | 27 | 39 | 3750 |
| 65° | 314 | 2 | 8 | 25 | 36 | 640 |
| 75° | 3 | 2 | 8 | 19 | 28 | 3 |
| 85° | 0 | 2 | 6 | 8 | 13 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1315938
 CATALOG NUMBER: LDSQA3D20R359735D010 3LSQCA45R 1MW

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 45° | 67.5° | 90° | 112.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|------|--------|
| 0° | 80.3 | 80.3 | 80.3 | 80.3 | 80.3 | 80.3 | 80.3 | 80.3 | 80.3 | 80.3 | 80.3 |
| 2.5° | 83.5 | 83.5 | 83.5 | 83.5 | 83.5 | 83.5 | 83.5 | 83.5 | 83.5 | 80.3 | 78.8 |
| 5° | 86.6 | 86.6 | 85.1 | 85.1 | 85.1 | 85.1 | 85.1 | 85.1 | 81.9 | 78.8 | 74.0 |
| 7.5° | 88.2 | 88.2 | 86.6 | 86.6 | 86.6 | 86.6 | 85.1 | 83.5 | 80.3 | 74.0 | 69.3 |
| 10° | 89.8 | 89.8 | 89.8 | 89.8 | 88.2 | 86.6 | 85.1 | 81.9 | 77.2 | 69.3 | 64.6 |
| 12.5° | 100.8 | 100.8 | 99.2 | 96.1 | 92.9 | 89.8 | 86.6 | 80.3 | 70.9 | 63.0 | 58.3 |
| 15° | 126.0 | 124.4 | 121.3 | 116.6 | 110.3 | 102.4 | 96.1 | 78.8 | 64.6 | 55.1 | 52.0 |
| 17.5° | 176.4 | 173.3 | 168.6 | 152.8 | 138.6 | 124.4 | 111.8 | 78.8 | 58.3 | 48.8 | 45.7 |
| 20° | 307.2 | 308.7 | 275.7 | 237.9 | 206.4 | 171.7 | 140.2 | 81.9 | 52.0 | 42.5 | 41.0 |
| 22.5° | 641.1 | 615.9 | 537.2 | 445.8 | 340.3 | 263.1 | 198.5 | 89.8 | 45.7 | 36.2 | 36.2 |
| 25° | 1375.2 | 1279.1 | 1088.5 | 822.3 | 579.7 | 411.1 | 288.3 | 100.8 | 41.0 | 31.5 | 33.1 |
| 27.5° | 2510.9 | 2424.3 | 2041.5 | 1537.4 | 1020.8 | 620.6 | 390.7 | 115.0 | 36.2 | 26.8 | 29.9 |
| 30° | 3994.8 | 3755.4 | 3256.0 | 2520.4 | 1706.0 | 949.9 | 524.6 | 130.7 | 29.9 | 23.6 | 28.4 |
| 31° | 4457.9 | 4347.7 | 3739.6 | 2915.8 | 1999.0 | 1127.9 | 581.3 | 135.5 | 28.4 | 23.6 | 26.8 |
| 32° | 5007.7 | 4812.3 | 4267.3 | 3349.0 | 2296.7 | 1287.0 | 649.0 | 140.2 | 26.8 | 20.5 | 26.8 |
| 33° | 5499.1 | 5310.1 | 4646.9 | 3730.2 | 2597.6 | 1468.1 | 721.5 | 141.8 | 23.6 | 20.5 | 25.2 |
| 34° | 6015.8 | 5757.5 | 5100.6 | 4128.7 | 2906.3 | 1663.4 | 787.6 | 143.3 | 22.1 | 18.9 | 25.2 |
| 35° | 6386.0 | 6127.7 | 5491.3 | 4443.7 | 3172.5 | 1836.7 | 863.2 | 143.3 | 20.5 | 18.9 | 23.6 |
| 36° | 6672.7 | 6445.9 | 5828.4 | 4768.2 | 3437.2 | 1992.7 | 923.1 | 143.3 | 17.3 | 17.3 | 23.6 |
| 37° | 6869.6 | 6653.8 | 6055.2 | 5047.1 | 3638.8 | 2131.3 | 976.6 | 143.3 | 15.8 | 17.3 | 23.6 |
| 38° | 6965.7 | 6786.1 | 6274.2 | 5250.3 | 3834.1 | 2240.0 | 1019.2 | 140.2 | 14.2 | 15.8 | 22.1 |
| 39° | 7006.6 | 6860.2 | 6408.1 | 5422.0 | 3980.6 | 2334.5 | 1050.7 | 137.0 | 12.6 | 15.8 | 22.1 |
| 40° | 7000.3 | 6872.8 | 6483.7 | 5540.1 | 4098.8 | 2399.1 | 1068.0 | 132.3 | 11.0 | 14.2 | 22.1 |
| 41° | 6964.1 | 6853.9 | 6523.1 | 5640.9 | 4169.6 | 2443.2 | 1072.7 | 127.6 | 9.5 | 14.2 | 20.5 |
| 42° | 6923.2 | 6822.3 | 6535.7 | 5694.5 | 4215.3 | 2457.4 | 1060.1 | 121.3 | 9.5 | 12.6 | 20.5 |
| 43° | 6880.6 | 6787.7 | 6535.7 | 5711.8 | 4226.4 | 2447.9 | 1039.7 | 110.3 | 7.9 | 12.6 | 20.5 |
| 44° | 6846.0 | 6757.8 | 6515.2 | 5707.1 | 4202.7 | 2411.7 | 1001.9 | 97.7 | 6.3 | 12.6 | 20.5 |
| 45° | 6805.0 | 6718.4 | 6488.4 | 5677.2 | 4157.0 | 2350.3 | 954.6 | 86.6 | 4.7 | 11.0 | 20.5 |
| 46° | 6732.6 | 6664.8 | 6441.1 | 5615.7 | 4084.6 | 2265.2 | 894.7 | 78.8 | 3.2 | 11.0 | 18.9 |
| 47° | 6592.4 | 6534.1 | 6349.8 | 5524.4 | 3988.5 | 2164.4 | 833.3 | 70.9 | 3.2 | 11.0 | 18.9 |
| 48° | 6310.4 | 6308.8 | 6167.0 | 5354.2 | 3835.7 | 2038.4 | 768.7 | 63.0 | 3.2 | 11.0 | 18.9 |
| 49° | 6037.9 | 6009.5 | 5833.1 | 5054.9 | 3616.7 | 1887.1 | 701.0 | 56.7 | 1.6 | 11.0 | 18.9 |
| 50° | 5888.2 | 5826.8 | 5537.0 | 4702.1 | 3336.3 | 1677.6 | 628.5 | 47.3 | 1.6 | 9.5 | 18.9 |
| 51° | 5732.3 | 5644.1 | 5302.2 | 4383.9 | 3002.4 | 1476.0 | 549.8 | 37.8 | 1.6 | 9.5 | 17.3 |
| 52° | 5450.3 | 5366.8 | 4984.0 | 4079.9 | 2677.9 | 1269.6 | 474.1 | 31.5 | 1.6 | 9.5 | 18.9 |
| 53° | 5146.3 | 5026.6 | 4610.7 | 3745.9 | 2392.8 | 1086.9 | 397.0 | 26.8 | 1.6 | 9.5 | 17.3 |
| 54° | 4763.5 | 4710.0 | 4232.7 | 3336.3 | 2058.8 | 910.5 | 326.1 | 22.1 | 1.6 | 9.5 | 17.3 |
| 55° | 4402.8 | 4324.0 | 3827.8 | 2917.3 | 1756.4 | 746.7 | 272.5 | 17.3 | 1.6 | 9.5 | 17.3 |
| 56° | 3942.8 | 3824.7 | 3360.0 | 2533.0 | 1449.2 | 601.7 | 230.0 | 14.2 | 1.6 | 9.5 | 17.3 |
| 57° | 3394.6 | 3268.6 | 2901.6 | 2106.1 | 1137.3 | 458.4 | 192.2 | 11.0 | 1.6 | 9.5 | 17.3 |
| 58° | 2871.7 | 2763.0 | 2369.2 | 1625.6 | 856.9 | 318.2 | 159.1 | 7.9 | 1.6 | 7.9 | 17.3 |
| 59° | 2481.0 | 2361.3 | 1970.6 | 1250.7 | 595.4 | 234.7 | 119.7 | 6.3 | 1.6 | 9.5 | 17.3 |
| 60° | 2148.6 | 1994.2 | 1586.3 | 968.8 | 425.3 | 168.6 | 88.2 | 3.2 | 3.2 | 9.5 | 17.3 |
| 62.5° | 1238.1 | 1093.2 | 757.7 | 393.8 | 174.9 | 86.6 | 42.5 | 1.6 | 3.2 | 9.5 | 17.3 |
| 65° | 313.5 | 278.8 | 181.2 | 85.1 | 48.8 | 29.9 | 15.8 | 1.6 | 3.2 | 7.9 | 15.8 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 45° | 67.5° | 90° | 112.5° |
|-------|------|------|------|-----|-----|-----|-----|-----|-------|-----|--------|
| 67.5° | 11.0 | 11.0 | 11.0 | 9.5 | 7.9 | 6.3 | 3.2 | 1.6 | 3.2 | 7.9 | 15.8 |
| 70° | 4.7 | 4.7 | 4.7 | 3.2 | 3.2 | 1.6 | 1.6 | 1.6 | 3.2 | 7.9 | 14.2 |
| 72.5° | 3.2 | 3.2 | 3.2 | 3.2 | 1.6 | 1.6 | 1.6 | 1.6 | 4.7 | 7.9 | 12.6 |
| 75° | 3.2 | 3.2 | 3.2 | 3.2 | 1.6 | 1.6 | 1.6 | 1.6 | 4.7 | 7.9 | 12.6 |
| 77.5° | 3.2 | 3.2 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 4.7 | 6.3 | 11.0 |
| 80° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 4.7 | 6.3 | 9.5 |
| 82.5° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 4.7 | 6.3 | 7.9 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 0.0 | 1.6 | 4.7 | 6.3 | 6.3 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 4.7 | 6.3 | 4.7 |
| 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: P1315938
 CATALOG NUMBER: LDSQA3D20R359735D010 3LSQCA45R 1MW

CANDELA DISTRIBUTION (continued):

| | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 0° | 80.3 | 80.3 | 80.3 |
| 2.5° | 75.6 | 75.6 | 75.6 |
| 5° | 70.9 | 70.9 | 69.3 |
| 7.5° | 66.2 | 64.6 | 64.6 |
| 10° | 59.9 | 59.9 | 59.9 |
| 12.5° | 55.1 | 55.1 | 55.1 |
| 15° | 50.4 | 52.0 | 52.0 |
| 17.5° | 45.7 | 48.8 | 48.8 |
| 20° | 42.5 | 45.7 | 47.3 |
| 22.5° | 39.4 | 42.5 | 44.1 |
| 25° | 37.8 | 41.0 | 42.5 |
| 27.5° | 34.7 | 39.4 | 42.5 |
| 30° | 33.1 | 37.8 | 41.0 |
| 31° | 33.1 | 37.8 | 39.4 |
| 32° | 31.5 | 37.8 | 39.4 |
| 33° | 31.5 | 37.8 | 39.4 |
| 34° | 31.5 | 36.2 | 39.4 |
| 35° | 29.9 | 36.2 | 37.8 |
| 36° | 29.9 | 36.2 | 37.8 |
| 37° | 29.9 | 36.2 | 39.4 |
| 38° | 29.9 | 36.2 | 37.8 |
| 39° | 28.4 | 36.2 | 37.8 |
| 40° | 28.4 | 36.2 | 37.8 |
| 41° | 28.4 | 36.2 | 37.8 |
| 42° | 28.4 | 36.2 | 37.8 |
| 43° | 28.4 | 36.2 | 37.8 |
| 44° | 28.4 | 34.7 | 37.8 |
| 45° | 28.4 | 34.7 | 37.8 |
| 46° | 28.4 | 36.2 | 37.8 |
| 47° | 28.4 | 36.2 | 39.4 |
| 48° | 28.4 | 34.7 | 37.8 |
| 49° | 26.8 | 34.7 | 37.8 |
| 50° | 26.8 | 34.7 | 37.8 |
| 51° | 26.8 | 36.2 | 39.4 |
| 52° | 26.8 | 36.2 | 39.4 |
| 53° | 26.8 | 36.2 | 39.4 |
| 54° | 26.8 | 36.2 | 37.8 |
| 55° | 26.8 | 36.2 | 39.4 |
| 56° | 26.8 | 36.2 | 37.8 |
| 57° | 26.8 | 36.2 | 37.8 |
| 58° | 26.8 | 34.7 | 37.8 |
| 59° | 26.8 | 34.7 | 37.8 |
| 60° | 26.8 | 34.7 | 37.8 |
| 62.5° | 25.2 | 34.7 | 37.8 |
| 65° | 25.2 | 33.1 | 36.2 |



TEST NUMBER: P1315938
CATALOG NUMBER: LDSQA3D20R359735D010 3LSQCA45R 1MW

CANDELA DISTRIBUTION (continued):

| | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 67.5° | 23.6 | 33.1 | 34.7 |
| 70° | 22.1 | 31.5 | 33.1 |
| 72.5° | 20.5 | 29.9 | 31.5 |
| 75° | 18.9 | 26.8 | 28.4 |
| 77.5° | 15.8 | 23.6 | 26.8 |
| 80° | 14.2 | 20.5 | 22.1 |
| 82.5° | 11.0 | 17.3 | 18.9 |
| 85° | 7.9 | 12.6 | 12.6 |
| 87.5° | 3.2 | 6.3 | 6.3 |
| 90° | 0.0 | 0.0 | 0.0 |

(END OF REPORT)