

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: P1318078

Luminaire Tested: LDSQA3D05R359830DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1318078
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: LDSQA3D05R359830DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R35 optic, 3000K CCT AND, 98CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

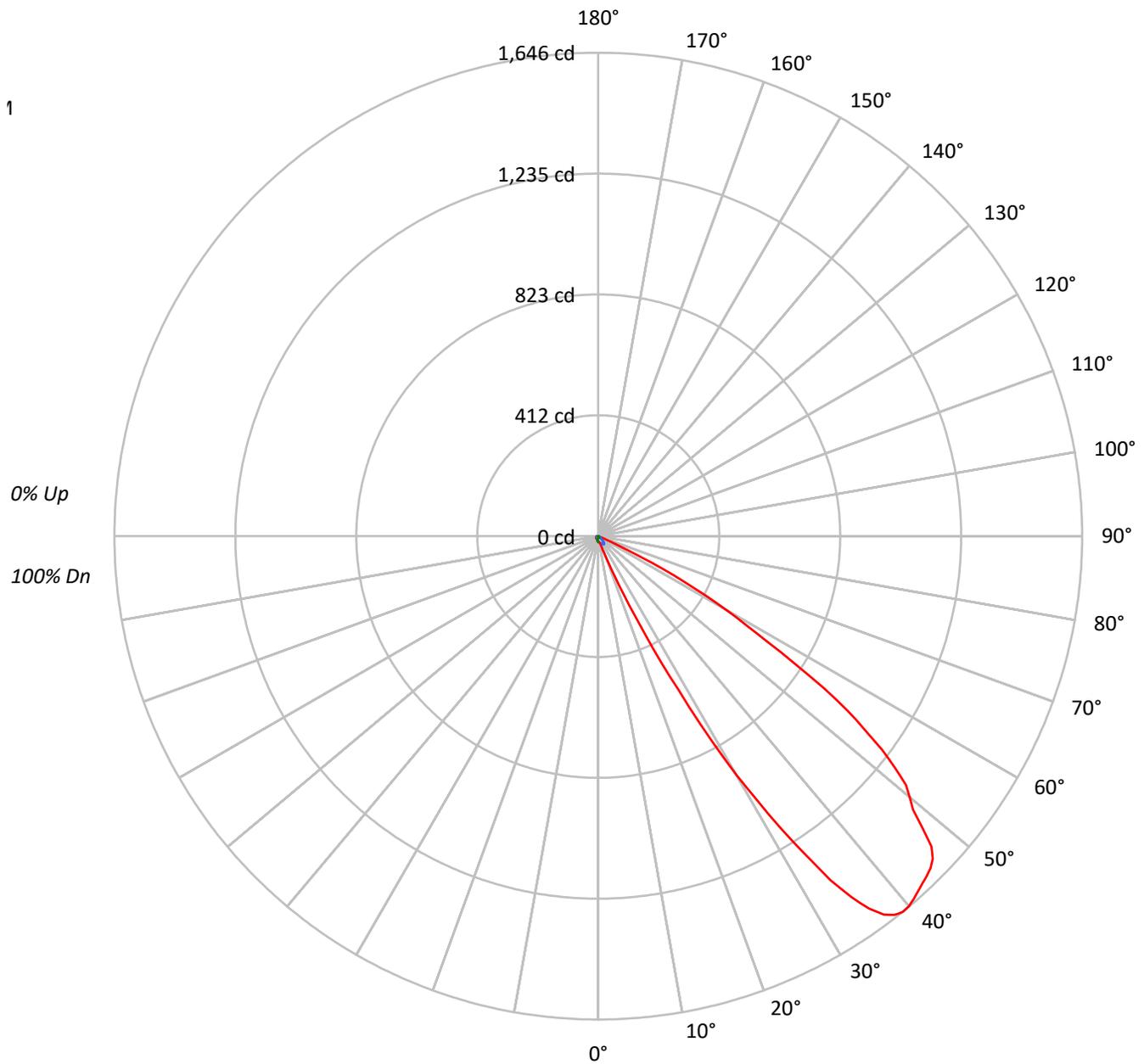
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 410.0 lumens
Efficiency: N/A
Efficacy: 56.9 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): 7.2
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: P1318078
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Luminous Intensity Polar Plot



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



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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 | 110 | 106 | 102 | 99 | 107 | 104 | 100 | 97 | 100 | 97 | 94 | 96 | 93 | 91 | 92 | 90 | 89 | 89 | 89 | 89 | 87 |
| 2 | 100 | 93 | 86 | 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 | 52 | 52 | 52 | 52 | 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 | 38 | 50 | 43 | 37 | 48 | 42 | 37 | 37 | 37 | 37 | 35 |
| 7 | 62 | 48 | 38 | 32 | 60 | 47 | 38 | 32 | 45 | 37 | 32 | 44 | 37 | 31 | 42 | 36 | 31 | 31 | 31 | 31 | 29 |
| 8 | 57 | 42 | 33 | 27 | 55 | 41 | 33 | 27 | 40 | 32 | 27 | 39 | 32 | 26 | 38 | 31 | 26 | 26 | 26 | 26 | 24 |
| 9 | 52 | 38 | 29 | 23 | 50 | 37 | 29 | 23 | 36 | 28 | 23 | 35 | 28 | 22 | 34 | 27 | 22 | 22 | 22 | 22 | 20 |
| 10 | 48 | 34 | 25 | 19 | 46 | 33 | 25 | 19 | 32 | 25 | 19 | 31 | 24 | 19 | 30 | 24 | 19 | 19 | 19 | 19 | 17 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|------|------|------|------|
| 0° | 3255 | 3255 | 3255 | 3255 | 3255 |
| 5° | 3527 | 3458 | 3198 | 2887 | 2818 |
| 10° | 3690 | 3358 | 2851 | 2466 | 2466 |
| 15° | 5278 | 3299 | 2318 | 2104 | 2175 |
| 20° | 13232 | 3519 | 1833 | 1833 | 2034 |
| 25° | 61398 | 4504 | 1406 | 1691 | 1900 |
| 30° | 186655 | 6105 | 1114 | 1551 | 1909 |
| 35° | 315452 | 7085 | 925 | 1472 | 1871 |
| 40° | 369785 | 6992 | 742 | 1506 | 2001 |
| 45° | 389427 | 4969 | 633 | 1632 | 2168 |
| 50° | 370682 | 2974 | 589 | 1688 | 2385 |
| 55° | 310620 | 1231 | 661 | 1892 | 2792 |
| 60° | 173876 | 241 | 758 | 2170 | 3066 |
| 65° | 30034 | 163 | 774 | 2404 | 3464 |
| 70° | 554 | 201 | 957 | 2618 | 3928 |
| 75° | 466 | 266 | 1264 | 2928 | 4458 |
| 80° | 397 | 397 | 1488 | 3273 | 5157 |
| 85° | 0 | 790 | 2964 | 3754 | 5928 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 46°
 Luminance: 392191 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1.7 | 0.4 |
| 10°-20° | 4.8 | 1.2 |
| 20°-30° | 25.2 | 6.1 |
| 30°-40° | 108.6 | 26.5 |
| 40°-50° | 155.0 | 37.8 |
| 50°-60° | 96.0 | 23.4 |
| 60°-70° | 14.6 | 3.6 |
| 70°-80° | 2.7 | 0.7 |
| 80°-90° | 1.4 | 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° | 31.7 | 7.7 |
| 0°-40° | 140.3 | 34.2 |
| 0°-60° | 391.3 | 95.4 |
| 0°-90° | 410.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 410.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 19 | 19 | 19 | 19 | 19 | |
| 5° | 20 | 20 | 18 | 17 | 16 | 2 |
| 15° | 30 | 18 | 13 | 12 | 12 | 11 |
| 25° | 323 | 24 | 7 | 9 | 10 | 193 |
| 35° | 1500 | 34 | 4 | 7 | 9 | 901 |
| 45° | 1599 | 20 | 3 | 7 | 9 | 1208 |
| 55° | 1034 | 4 | 2 | 6 | 9 | 881 |
| 65° | 74 | 0 | 2 | 6 | 8 | 150 |
| 75° | 1 | 0 | 2 | 4 | 7 | 1 |
| 85° | 0 | 0 | 2 | 2 | 3 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1318078

CATALOG NUMBER: LDSQA3D05R359830DE010 3LSQCA45R 1MW

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 45° | 67.5° | 90° | 112.5° |
|-------|--------|--------|--------|--------|-------|-------|-------|------|-------|------|--------|
| 0° | 18.9 | 18.9 | 18.9 | 18.9 | 18.9 | 18.9 | 18.9 | 18.9 | 18.9 | 18.9 | 18.9 |
| 2.5° | 19.6 | 19.6 | 19.6 | 19.6 | 19.6 | 19.6 | 19.6 | 19.6 | 19.6 | 18.9 | 18.5 |
| 5° | 20.4 | 20.4 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 19.2 | 18.5 | 17.4 |
| 7.5° | 20.7 | 20.7 | 20.4 | 20.4 | 20.4 | 20.4 | 20.0 | 19.6 | 18.9 | 17.4 | 16.3 |
| 10° | 21.1 | 21.1 | 21.1 | 21.1 | 20.7 | 20.4 | 20.0 | 19.2 | 18.1 | 16.3 | 15.2 |
| 12.5° | 23.7 | 23.7 | 23.3 | 22.6 | 21.8 | 21.1 | 20.4 | 18.9 | 16.7 | 14.8 | 13.7 |
| 15° | 29.6 | 29.2 | 28.5 | 27.4 | 25.9 | 24.1 | 22.6 | 18.5 | 15.2 | 13.0 | 12.2 |
| 17.5° | 41.5 | 40.7 | 39.6 | 35.9 | 32.6 | 29.2 | 26.3 | 18.5 | 13.7 | 11.5 | 10.7 |
| 20° | 72.2 | 72.5 | 64.8 | 55.9 | 48.5 | 40.3 | 32.9 | 19.2 | 12.2 | 10.0 | 9.6 |
| 22.5° | 150.6 | 144.7 | 126.2 | 104.7 | 79.9 | 61.8 | 46.6 | 21.1 | 10.7 | 8.5 | 8.5 |
| 25° | 323.1 | 300.5 | 255.7 | 193.2 | 136.2 | 96.6 | 67.7 | 23.7 | 9.6 | 7.4 | 7.8 |
| 27.5° | 590.0 | 569.6 | 479.7 | 361.2 | 239.8 | 145.8 | 91.8 | 27.0 | 8.5 | 6.3 | 7.0 |
| 30° | 938.6 | 882.3 | 765.0 | 592.2 | 400.8 | 223.2 | 123.2 | 30.7 | 7.0 | 5.6 | 6.7 |
| 31° | 1047.4 | 1021.5 | 878.6 | 685.1 | 469.7 | 265.0 | 136.6 | 31.8 | 6.7 | 5.6 | 6.3 |
| 32° | 1176.6 | 1130.7 | 1002.6 | 786.9 | 539.6 | 302.4 | 152.5 | 32.9 | 6.3 | 4.8 | 6.3 |
| 33° | 1292.1 | 1247.7 | 1091.8 | 876.4 | 610.3 | 344.9 | 169.5 | 33.3 | 5.6 | 4.8 | 5.9 |
| 34° | 1413.5 | 1352.8 | 1198.4 | 970.1 | 682.9 | 390.8 | 185.1 | 33.7 | 5.2 | 4.4 | 5.9 |
| 35° | 1500.4 | 1439.7 | 1290.2 | 1044.1 | 745.4 | 431.6 | 202.8 | 33.7 | 4.8 | 4.4 | 5.6 |
| 36° | 1567.8 | 1514.5 | 1369.4 | 1120.3 | 807.6 | 468.2 | 216.9 | 33.7 | 4.1 | 4.1 | 5.6 |
| 37° | 1614.1 | 1563.4 | 1422.7 | 1185.8 | 855.0 | 500.8 | 229.5 | 33.7 | 3.7 | 4.1 | 5.6 |
| 38° | 1636.6 | 1594.4 | 1474.2 | 1233.6 | 900.9 | 526.3 | 239.5 | 32.9 | 3.3 | 3.7 | 5.2 |
| 39° | 1646.3 | 1611.8 | 1505.6 | 1273.9 | 935.3 | 548.5 | 246.9 | 32.2 | 3.0 | 3.7 | 5.2 |
| 40° | 1644.8 | 1614.8 | 1523.4 | 1301.7 | 963.0 | 563.7 | 250.9 | 31.1 | 2.6 | 3.3 | 5.2 |
| 41° | 1636.3 | 1610.4 | 1532.6 | 1325.4 | 979.7 | 574.0 | 252.0 | 30.0 | 2.2 | 3.3 | 4.8 |
| 42° | 1626.6 | 1603.0 | 1535.6 | 1338.0 | 990.4 | 577.4 | 249.1 | 28.5 | 2.2 | 3.0 | 4.8 |
| 43° | 1616.7 | 1594.8 | 1535.6 | 1342.0 | 993.0 | 575.2 | 244.3 | 25.9 | 1.9 | 3.0 | 4.8 |
| 44° | 1608.5 | 1587.8 | 1530.8 | 1340.9 | 987.5 | 566.6 | 235.4 | 22.9 | 1.5 | 3.0 | 4.8 |
| 45° | 1598.9 | 1578.5 | 1524.5 | 1333.9 | 976.7 | 552.2 | 224.3 | 20.4 | 1.1 | 2.6 | 4.8 |
| 46° | 1581.9 | 1565.9 | 1513.4 | 1319.5 | 959.7 | 532.2 | 210.2 | 18.5 | 0.7 | 2.6 | 4.4 |
| 47° | 1548.9 | 1535.2 | 1491.9 | 1298.0 | 937.1 | 508.5 | 195.8 | 16.7 | 0.7 | 2.6 | 4.4 |
| 48° | 1482.7 | 1482.3 | 1449.0 | 1258.0 | 901.2 | 478.9 | 180.6 | 14.8 | 0.7 | 2.6 | 4.4 |
| 49° | 1418.6 | 1412.0 | 1370.5 | 1187.7 | 849.8 | 443.4 | 164.7 | 13.3 | 0.4 | 2.6 | 4.4 |
| 50° | 1383.5 | 1369.0 | 1300.9 | 1104.8 | 783.9 | 394.2 | 147.7 | 11.1 | 0.4 | 2.2 | 4.4 |
| 51° | 1346.8 | 1326.1 | 1245.8 | 1030.0 | 705.4 | 346.8 | 129.2 | 8.9 | 0.4 | 2.2 | 4.1 |
| 52° | 1280.6 | 1261.0 | 1171.0 | 958.6 | 629.2 | 298.3 | 111.4 | 7.4 | 0.4 | 2.2 | 4.4 |
| 53° | 1209.2 | 1181.0 | 1083.3 | 880.1 | 562.2 | 255.4 | 93.3 | 6.3 | 0.4 | 2.2 | 4.1 |
| 54° | 1119.2 | 1106.6 | 994.5 | 783.9 | 483.7 | 213.9 | 76.6 | 5.2 | 0.4 | 2.2 | 4.1 |
| 55° | 1034.5 | 1016.0 | 899.4 | 685.4 | 412.7 | 175.4 | 64.0 | 4.1 | 0.4 | 2.2 | 4.1 |
| 56° | 926.4 | 898.6 | 789.5 | 595.1 | 340.5 | 141.4 | 54.0 | 3.3 | 0.4 | 2.2 | 4.1 |
| 57° | 797.6 | 768.0 | 681.7 | 494.8 | 267.2 | 107.7 | 45.2 | 2.6 | 0.4 | 2.2 | 4.1 |
| 58° | 674.7 | 649.2 | 556.6 | 382.0 | 201.3 | 74.8 | 37.4 | 1.9 | 0.4 | 1.9 | 4.1 |
| 59° | 582.9 | 554.8 | 463.0 | 293.9 | 139.9 | 55.1 | 28.1 | 1.5 | 0.4 | 2.2 | 4.1 |
| 60° | 504.8 | 468.6 | 372.7 | 227.6 | 99.9 | 39.6 | 20.7 | 0.7 | 0.7 | 2.2 | 4.1 |
| 62.5° | 290.9 | 256.9 | 178.0 | 92.5 | 41.1 | 20.4 | 10.0 | 0.4 | 0.7 | 2.2 | 4.1 |
| 65° | 73.7 | 65.5 | 42.6 | 20.0 | 11.5 | 7.0 | 3.7 | 0.4 | 0.7 | 1.9 | 3.7 |



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CATALOG NUMBER: LDSQA3D05R359830DE010 3LSQCA45R 1MW

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 45° | 67.5° | 90° | 112.5° |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|--------|
| 67.5° | 2.6 | 2.6 | 2.6 | 2.2 | 1.9 | 1.5 | 0.7 | 0.4 | 0.7 | 1.9 | 3.7 |
| 70° | 1.1 | 1.1 | 1.1 | 0.7 | 0.7 | 0.4 | 0.4 | 0.4 | 0.7 | 1.9 | 3.3 |
| 72.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.4 | 0.4 | 0.4 | 0.4 | 1.1 | 1.9 | 3.0 |
| 75° | 0.7 | 0.7 | 0.7 | 0.7 | 0.4 | 0.4 | 0.4 | 0.4 | 1.1 | 1.9 | 3.0 |
| 77.5° | 0.7 | 0.7 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 1.1 | 1.5 | 2.6 |
| 80° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 1.1 | 1.5 | 2.2 |
| 82.5° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 1.1 | 1.5 | 1.9 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.0 | 0.4 | 1.1 | 1.5 | 1.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 1.1 | 1.5 | 1.1 |
| 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: P1318078

CATALOG NUMBER: LDSQA3D05R359830DE010 3LSQCA45R 1MW

CANDELA DISTRIBUTION (continued):

| | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 0° | 18.9 | 18.9 | 18.9 |
| 2.5° | 17.8 | 17.8 | 17.8 |
| 5° | 16.7 | 16.7 | 16.3 |
| 7.5° | 15.5 | 15.2 | 15.2 |
| 10° | 14.1 | 14.1 | 14.1 |
| 12.5° | 13.0 | 13.0 | 13.0 |
| 15° | 11.8 | 12.2 | 12.2 |
| 17.5° | 10.7 | 11.5 | 11.5 |
| 20° | 10.0 | 10.7 | 11.1 |
| 22.5° | 9.3 | 10.0 | 10.4 |
| 25° | 8.9 | 9.6 | 10.0 |
| 27.5° | 8.1 | 9.3 | 10.0 |
| 30° | 7.8 | 8.9 | 9.6 |
| 31° | 7.8 | 8.9 | 9.3 |
| 32° | 7.4 | 8.9 | 9.3 |
| 33° | 7.4 | 8.9 | 9.3 |
| 34° | 7.4 | 8.5 | 9.3 |
| 35° | 7.0 | 8.5 | 8.9 |
| 36° | 7.0 | 8.5 | 8.9 |
| 37° | 7.0 | 8.5 | 9.3 |
| 38° | 7.0 | 8.5 | 8.9 |
| 39° | 6.7 | 8.5 | 8.9 |
| 40° | 6.7 | 8.5 | 8.9 |
| 41° | 6.7 | 8.5 | 8.9 |
| 42° | 6.7 | 8.5 | 8.9 |
| 43° | 6.7 | 8.5 | 8.9 |
| 44° | 6.7 | 8.1 | 8.9 |
| 45° | 6.7 | 8.1 | 8.9 |
| 46° | 6.7 | 8.5 | 8.9 |
| 47° | 6.7 | 8.5 | 9.3 |
| 48° | 6.7 | 8.1 | 8.9 |
| 49° | 6.3 | 8.1 | 8.9 |
| 50° | 6.3 | 8.1 | 8.9 |
| 51° | 6.3 | 8.5 | 9.3 |
| 52° | 6.3 | 8.5 | 9.3 |
| 53° | 6.3 | 8.5 | 9.3 |
| 54° | 6.3 | 8.5 | 8.9 |
| 55° | 6.3 | 8.5 | 9.3 |
| 56° | 6.3 | 8.5 | 8.9 |
| 57° | 6.3 | 8.5 | 8.9 |
| 58° | 6.3 | 8.1 | 8.9 |
| 59° | 6.3 | 8.1 | 8.9 |
| 60° | 6.3 | 8.1 | 8.9 |
| 62.5° | 5.9 | 8.1 | 8.9 |
| 65° | 5.9 | 7.8 | 8.5 |



TEST NUMBER: P1318078

CATALOG NUMBER: LDSQA3D05R359830DE010 3LSQCA45R 1MW

CANDELA DISTRIBUTION (continued):

| | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 67.5° | 5.6 | 7.8 | 8.1 |
| 70° | 5.2 | 7.4 | 7.8 |
| 72.5° | 4.8 | 7.0 | 7.4 |
| 75° | 4.4 | 6.3 | 6.7 |
| 77.5° | 3.7 | 5.6 | 6.3 |
| 80° | 3.3 | 4.8 | 5.2 |
| 82.5° | 2.6 | 4.1 | 4.4 |
| 85° | 1.9 | 3.0 | 3.0 |
| 87.5° | 0.7 | 1.5 | 1.5 |
| 90° | 0.0 | 0.0 | 0.0 |

(END OF REPORT)