

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: P1316129

Luminaire Tested: LDSQA3D02R409740DE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316129
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-78)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D02R409740DE010 3LSQCA45R 1MB
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 97CRI , 3LSQCA45R 1MB TRIM
Light Source: -
Ballast/Driver: -

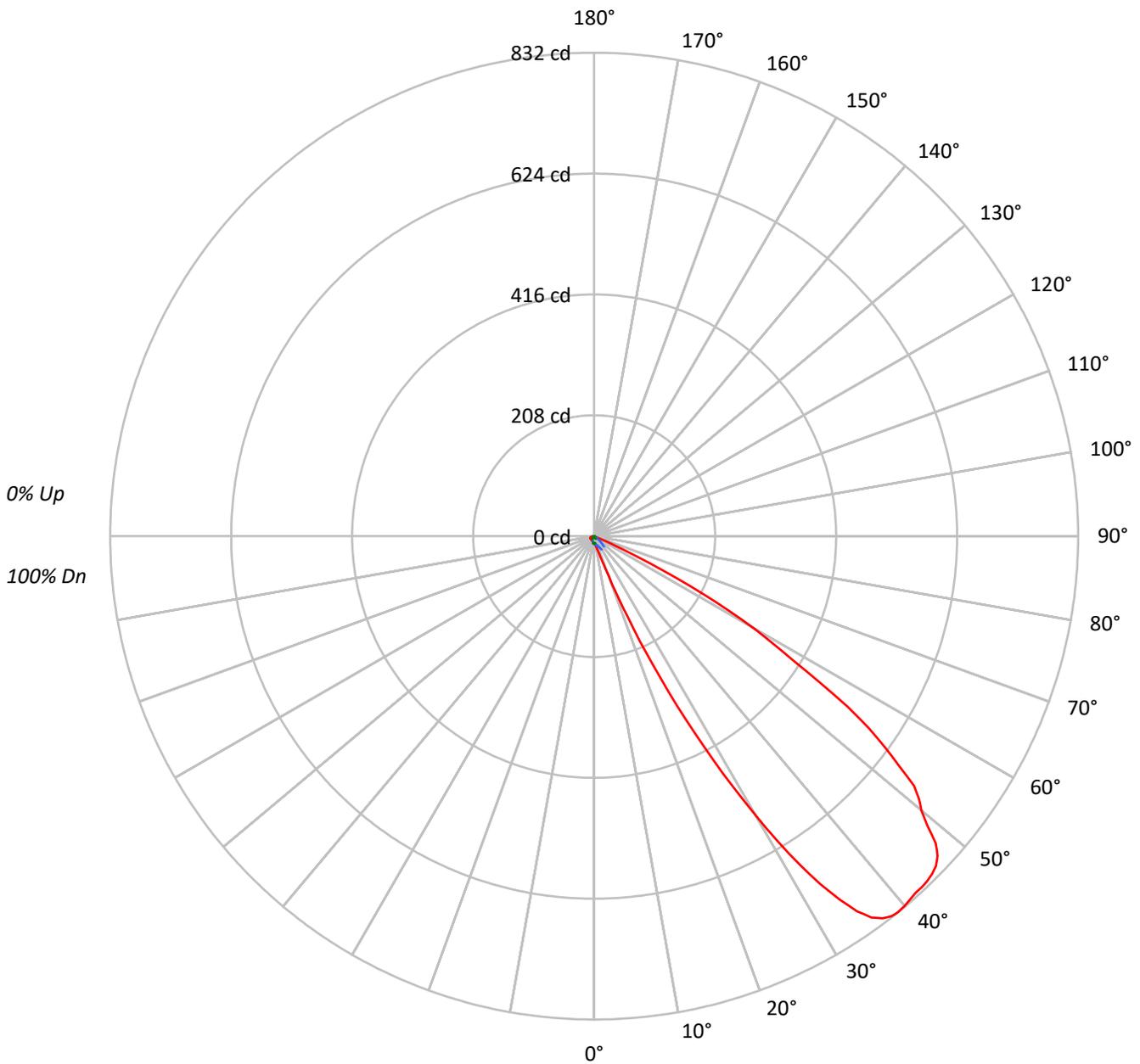
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 257.0 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Spacing Criteria (0/90/45): 3.99 / 0.73 / 1.54
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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: P1316129
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Luminous Intensity Polar Plot



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



TEST NUMBER: P1316129

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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 | 99 | 97 | 94 | 96 | 93 | 91 | 92 | 90 | 88 | 88 | 88 | 88 | 86 |
| 2 | 100 | 93 | 86 | 81 | 98 | 91 | 85 | 80 | 87 | 82 | 78 | 84 | 80 | 76 | 81 | 78 | 75 | 75 | 75 | 75 | 72 |
| 3 | 91 | 81 | 73 | 66 | 89 | 79 | 72 | 66 | 76 | 70 | 65 | 73 | 68 | 64 | 71 | 66 | 62 | 62 | 62 | 62 | 60 |
| 4 | 82 | 70 | 62 | 55 | 80 | 69 | 61 | 54 | 67 | 59 | 54 | 64 | 58 | 53 | 62 | 57 | 52 | 52 | 52 | 52 | 50 |
| 5 | 75 | 62 | 52 | 46 | 73 | 60 | 52 | 45 | 58 | 51 | 45 | 56 | 50 | 44 | 54 | 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 | 39 | 32 | 60 | 47 | 38 | 32 | 45 | 37 | 32 | 44 | 37 | 31 | 42 | 36 | 31 | 31 | 31 | 31 | 29 |
| 8 | 57 | 42 | 33 | 27 | 55 | 42 | 33 | 27 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 31 | 26 | 26 | 26 | 26 | 24 |
| 9 | 52 | 38 | 29 | 23 | 51 | 37 | 29 | 23 | 36 | 28 | 23 | 35 | 28 | 23 | 34 | 27 | 23 | 23 | 23 | 23 | 21 |
| 10 | 48 | 34 | 25 | 20 | 47 | 33 | 25 | 20 | 32 | 25 | 20 | 31 | 24 | 20 | 30 | 24 | 19 | 19 | 19 | 19 | 18 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|------|------|------|------|
| 0° | 2273 | 2273 | 2273 | 2273 | 2273 |
| 5° | 2524 | 2455 | 2247 | 2040 | 2005 |
| 10° | 3060 | 2606 | 2064 | 1854 | 1819 |
| 15° | 5010 | 2817 | 1765 | 1640 | 1676 |
| 20° | 13232 | 3336 | 1466 | 1466 | 1594 |
| 25° | 51041 | 4124 | 1159 | 1349 | 1577 |
| 30° | 110112 | 5489 | 935 | 1313 | 1551 |
| 35° | 165736 | 6497 | 799 | 1282 | 1598 |
| 40° | 186736 | 6520 | 697 | 1326 | 1709 |
| 45° | 200230 | 5066 | 633 | 1388 | 1851 |
| 50° | 196795 | 3162 | 563 | 1447 | 2036 |
| 55° | 173130 | 1561 | 570 | 1621 | 2282 |
| 60° | 109602 | 310 | 654 | 1791 | 2514 |
| 65° | 22413 | 82 | 693 | 1915 | 2771 |
| 70° | 453 | 101 | 705 | 2115 | 3223 |
| 75° | 466 | 333 | 799 | 2329 | 3593 |
| 80° | 496 | 198 | 893 | 2579 | 4166 |
| 85° | 395 | 395 | 1778 | 2766 | 4742 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47°
 Luminance: 203839 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1.2 | 0.5 |
| 10°-20° | 4.1 | 1.6 |
| 20°-30° | 20.0 | 7.8 |
| 30°-40° | 64.9 | 25.3 |
| 40°-50° | 89.5 | 34.8 |
| 50°-60° | 62.3 | 24.3 |
| 60°-70° | 11.8 | 4.6 |
| 70°-80° | 2.1 | 0.8 |
| 80°-90° | 1.0 | 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° | 25.3 | 9.8 |
| 0°-40° | 90.2 | 35.1 |
| 0°-60° | 242.1 | 94.2 |
| 0°-90° | 257.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 257.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 13 | 13 | 13 | 13 | 13 | |
| 5° | 15 | 14 | 13 | 12 | 12 | 1 |
| 15° | 28 | 16 | 10 | 9 | 9 | 10 |
| 25° | 269 | 22 | 6 | 7 | 8 | 138 |
| 35° | 788 | 31 | 4 | 6 | 8 | 476 |
| 45° | 822 | 21 | 3 | 6 | 8 | 625 |
| 55° | 577 | 5 | 2 | 5 | 8 | 493 |
| 65° | 55 | 0 | 2 | 5 | 7 | 97 |
| 75° | 1 | 0 | 1 | 4 | 5 | 1 |
| 85° | 0 | 0 | 1 | 1 | 2 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1316129
 CATALOG NUMBER: LDSQA3D02R409740DE010 3LSQCA45R 1MB

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|
| 0° | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 |
| 2.5° | 13.7 | 13.7 | 13.7 | 13.7 | 13.7 | 13.7 | 13.7 | 13.7 | 13.7 | 13.5 | 13.2 |
| 5° | 14.6 | 14.6 | 14.6 | 14.6 | 14.4 | 14.4 | 14.4 | 14.2 | 14.2 | 13.7 | 13.0 |
| 7.5° | 15.6 | 15.6 | 15.6 | 15.6 | 15.3 | 15.1 | 14.9 | 14.9 | 14.6 | 13.5 | 12.5 |
| 10° | 17.5 | 17.5 | 17.2 | 17.0 | 16.8 | 16.3 | 16.0 | 15.6 | 14.9 | 13.2 | 11.8 |
| 12.5° | 21.2 | 20.8 | 20.5 | 20.1 | 19.4 | 18.4 | 17.5 | 16.8 | 15.1 | 12.7 | 11.1 |
| 15° | 28.1 | 27.6 | 26.7 | 25.3 | 23.8 | 21.9 | 20.3 | 18.6 | 15.8 | 12.0 | 9.9 |
| 17.5° | 40.1 | 38.7 | 37.3 | 34.9 | 31.4 | 28.1 | 24.5 | 21.5 | 16.8 | 11.3 | 9.0 |
| 20° | 72.2 | 71.3 | 62.8 | 56.2 | 45.6 | 38.0 | 30.9 | 25.7 | 18.2 | 10.6 | 8.0 |
| 22.5° | 148.9 | 139.0 | 125.1 | 102.4 | 79.8 | 58.8 | 42.7 | 32.3 | 19.6 | 9.7 | 7.1 |
| 25° | 268.6 | 253.0 | 223.0 | 179.4 | 132.4 | 93.7 | 61.8 | 42.2 | 21.7 | 8.7 | 6.1 |
| 27.5° | 406.7 | 390.8 | 344.4 | 284.2 | 207.5 | 141.4 | 88.3 | 55.9 | 24.5 | 7.8 | 5.4 |
| 30° | 553.7 | 540.2 | 481.2 | 397.9 | 292.4 | 198.0 | 118.2 | 69.9 | 27.6 | 6.8 | 4.7 |
| 31° | 612.9 | 595.7 | 532.0 | 443.2 | 332.3 | 221.4 | 130.3 | 75.8 | 28.8 | 6.6 | 4.5 |
| 32° | 667.5 | 647.9 | 581.8 | 486.7 | 364.6 | 246.6 | 143.5 | 81.0 | 29.7 | 6.1 | 4.2 |
| 33° | 714.4 | 691.5 | 627.8 | 527.7 | 400.3 | 270.2 | 157.2 | 85.9 | 30.4 | 5.7 | 4.0 |
| 34° | 754.3 | 734.5 | 666.0 | 569.0 | 431.9 | 292.9 | 170.6 | 90.9 | 30.9 | 5.4 | 3.8 |
| 35° | 788.3 | 770.4 | 702.6 | 600.4 | 462.8 | 314.8 | 182.9 | 95.6 | 30.9 | 5.0 | 3.8 |
| 36° | 811.2 | 795.6 | 734.3 | 632.5 | 488.8 | 333.5 | 193.3 | 99.8 | 30.9 | 4.5 | 3.5 |
| 37° | 823.7 | 808.6 | 755.0 | 659.0 | 514.3 | 351.9 | 202.7 | 103.1 | 30.7 | 4.2 | 3.3 |
| 38° | 830.1 | 816.9 | 770.4 | 680.4 | 532.0 | 365.1 | 211.0 | 105.7 | 30.4 | 3.8 | 3.3 |
| 39° | 831.7 | 820.6 | 780.0 | 696.0 | 549.2 | 378.3 | 216.9 | 107.2 | 29.7 | 3.5 | 3.1 |
| 40° | 830.6 | 820.9 | 785.2 | 709.9 | 562.4 | 388.7 | 221.1 | 107.6 | 29.0 | 3.1 | 3.1 |
| 41° | 828.2 | 820.6 | 789.0 | 719.6 | 573.1 | 395.3 | 222.8 | 106.7 | 28.1 | 2.6 | 2.8 |
| 42° | 826.1 | 817.8 | 790.7 | 726.2 | 580.4 | 398.6 | 222.6 | 104.8 | 26.7 | 2.4 | 2.8 |
| 43° | 826.1 | 816.6 | 790.9 | 730.5 | 583.9 | 398.9 | 219.7 | 101.3 | 24.8 | 2.1 | 2.6 |
| 44° | 824.6 | 815.9 | 792.1 | 733.3 | 584.9 | 396.7 | 215.2 | 97.5 | 22.7 | 1.9 | 2.6 |
| 45° | 822.1 | 812.8 | 791.8 | 733.5 | 583.2 | 391.6 | 207.9 | 92.5 | 20.8 | 1.4 | 2.6 |
| 46° | 817.1 | 808.8 | 789.7 | 731.9 | 578.2 | 384.0 | 199.2 | 87.6 | 18.6 | 1.2 | 2.4 |
| 47° | 807.2 | 800.8 | 784.1 | 726.2 | 570.7 | 372.9 | 188.8 | 81.9 | 17.0 | 0.9 | 2.4 |
| 48° | 790.2 | 785.7 | 774.4 | 713.7 | 556.3 | 359.2 | 177.7 | 75.8 | 15.3 | 0.9 | 2.4 |
| 49° | 759.0 | 755.5 | 748.9 | 693.7 | 537.9 | 342.5 | 165.7 | 68.9 | 13.7 | 0.7 | 2.4 |
| 50° | 734.5 | 730.7 | 717.3 | 659.9 | 511.5 | 321.2 | 152.5 | 62.1 | 11.8 | 0.5 | 2.1 |
| 51° | 718.2 | 712.1 | 690.8 | 620.7 | 473.0 | 292.9 | 138.1 | 55.2 | 9.9 | 0.5 | 2.1 |
| 52° | 697.7 | 688.5 | 662.0 | 585.6 | 437.8 | 264.6 | 122.5 | 48.4 | 8.7 | 0.5 | 2.1 |
| 53° | 654.7 | 651.4 | 625.2 | 547.8 | 402.6 | 237.4 | 106.4 | 42.7 | 7.6 | 0.5 | 2.1 |
| 54° | 617.2 | 612.2 | 576.6 | 495.4 | 364.4 | 207.2 | 89.9 | 37.8 | 6.4 | 0.5 | 2.1 |
| 55° | 576.6 | 566.9 | 535.3 | 451.3 | 319.6 | 179.4 | 74.1 | 32.6 | 5.2 | 0.5 | 1.9 |
| 56° | 525.4 | 516.9 | 482.9 | 404.1 | 278.3 | 151.1 | 62.1 | 26.7 | 4.0 | 0.5 | 1.9 |
| 57° | 463.1 | 455.3 | 429.1 | 346.0 | 235.3 | 123.4 | 50.5 | 21.5 | 3.1 | 0.5 | 1.9 |
| 58° | 402.9 | 394.2 | 364.2 | 290.3 | 190.0 | 97.9 | 42.2 | 17.5 | 2.4 | 0.5 | 1.9 |
| 59° | 356.6 | 344.8 | 306.1 | 243.8 | 148.7 | 74.3 | 33.5 | 13.9 | 1.7 | 0.5 | 1.9 |
| 60° | 318.2 | 308.5 | 268.4 | 203.0 | 116.6 | 54.8 | 24.8 | 10.6 | 0.9 | 0.5 | 1.9 |
| 62.5° | 184.3 | 181.7 | 145.6 | 104.6 | 55.0 | 25.5 | 12.3 | 5.0 | 0.5 | 0.7 | 1.9 |
| 65° | 55.0 | 47.9 | 37.3 | 22.2 | 14.2 | 8.5 | 4.5 | 1.7 | 0.2 | 0.7 | 1.7 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 45° | 67.5° | 90° |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|
| 67.5° | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 0.9 | 0.5 | 0.2 | 0.7 | 1.7 |
| 70° | 0.9 | 0.7 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.2 | 0.2 | 0.7 | 1.4 |
| 72.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0.2 | 0.5 | 0.7 | 1.2 |
| 75° | 0.7 | 0.5 | 0.5 | 0.5 | 0.5 | 0.2 | 0.2 | 0.2 | 0.5 | 0.7 | 1.2 |
| 77.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.2 | 0.2 | 0.2 | 0.2 | 0.5 | 0.7 | 1.2 |
| 80° | 0.5 | 0.5 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.7 | 0.9 |
| 82.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.7 | 0.9 |
| 85° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.7 | 0.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.7 | 0.7 |
| 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: P1316129

CATALOG NUMBER: LDSQA3D02R409740DE010 3LSQCA45R 1MB

CANDELA DISTRIBUTION (continued):

| | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 0° | 13.2 | 13.2 | 13.2 | 13.2 |
| 2.5° | 12.7 | 12.5 | 12.3 | 12.3 |
| 5° | 12.3 | 11.8 | 11.8 | 11.6 |
| 7.5° | 11.6 | 11.1 | 11.1 | 11.1 |
| 10° | 10.9 | 10.6 | 10.6 | 10.4 |
| 12.5° | 9.9 | 9.9 | 9.9 | 9.9 |
| 15° | 9.2 | 9.2 | 9.4 | 9.4 |
| 17.5° | 8.3 | 8.5 | 9.0 | 9.2 |
| 20° | 7.6 | 8.0 | 8.5 | 8.7 |
| 22.5° | 7.1 | 7.6 | 8.3 | 8.5 |
| 25° | 6.4 | 7.1 | 8.0 | 8.3 |
| 27.5° | 5.9 | 6.8 | 7.6 | 8.0 |
| 30° | 5.4 | 6.6 | 7.3 | 7.8 |
| 31° | 5.4 | 6.4 | 7.3 | 7.8 |
| 32° | 5.2 | 6.1 | 7.3 | 7.6 |
| 33° | 5.2 | 6.1 | 7.3 | 7.6 |
| 34° | 5.0 | 6.1 | 7.1 | 7.6 |
| 35° | 5.0 | 6.1 | 7.1 | 7.6 |
| 36° | 4.7 | 5.9 | 7.1 | 7.6 |
| 37° | 4.7 | 5.9 | 7.1 | 7.6 |
| 38° | 4.5 | 5.9 | 7.1 | 7.6 |
| 39° | 4.5 | 5.9 | 7.1 | 7.6 |
| 40° | 4.5 | 5.9 | 7.1 | 7.6 |
| 41° | 4.2 | 5.9 | 7.1 | 7.6 |
| 42° | 4.2 | 5.9 | 7.1 | 7.6 |
| 43° | 4.2 | 5.7 | 7.1 | 7.6 |
| 44° | 4.2 | 5.7 | 7.1 | 7.6 |
| 45° | 4.0 | 5.7 | 7.1 | 7.6 |
| 46° | 4.0 | 5.7 | 7.1 | 7.6 |
| 47° | 4.0 | 5.7 | 7.1 | 7.6 |
| 48° | 4.0 | 5.7 | 7.1 | 7.6 |
| 49° | 4.0 | 5.7 | 7.1 | 7.6 |
| 50° | 3.8 | 5.4 | 7.1 | 7.6 |
| 51° | 3.8 | 5.4 | 7.1 | 7.6 |
| 52° | 3.8 | 5.4 | 7.1 | 7.6 |
| 53° | 3.8 | 5.4 | 7.1 | 7.6 |
| 54° | 3.5 | 5.4 | 7.1 | 7.6 |
| 55° | 3.5 | 5.4 | 7.1 | 7.6 |
| 56° | 3.5 | 5.4 | 7.1 | 7.3 |
| 57° | 3.5 | 5.4 | 6.8 | 7.3 |
| 58° | 3.5 | 5.2 | 6.8 | 7.3 |
| 59° | 3.5 | 5.2 | 6.8 | 7.3 |
| 60° | 3.5 | 5.2 | 6.8 | 7.3 |
| 62.5° | 3.3 | 5.2 | 6.6 | 7.1 |
| 65° | 3.1 | 4.7 | 6.6 | 6.8 |



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CATALOG NUMBER: LDSQA3D02R409740DE010 3LSQCA45R 1MB

CANDELA DISTRIBUTION (continued):

| | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 67.5° | 3.1 | 4.5 | 6.1 | 6.6 |
| 70° | 2.8 | 4.2 | 5.9 | 6.4 |
| 72.5° | 2.4 | 4.0 | 5.4 | 5.9 |
| 75° | 2.1 | 3.5 | 5.0 | 5.4 |
| 77.5° | 1.9 | 3.1 | 4.5 | 4.7 |
| 80° | 1.7 | 2.6 | 3.8 | 4.2 |
| 82.5° | 1.2 | 1.9 | 3.1 | 3.3 |
| 85° | 0.9 | 1.4 | 2.1 | 2.4 |
| 87.5° | 0.7 | 0.7 | 1.2 | 1.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)