

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: P1317071

Luminaire Tested: LDSQA3D02R409827DE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317071
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: LDSQA3D02R409827DE010 3LSQCA45R 1MB
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 98CRI , 3LSQCA45R 1MB TRIM
Light Source: -
Ballast/Driver: -

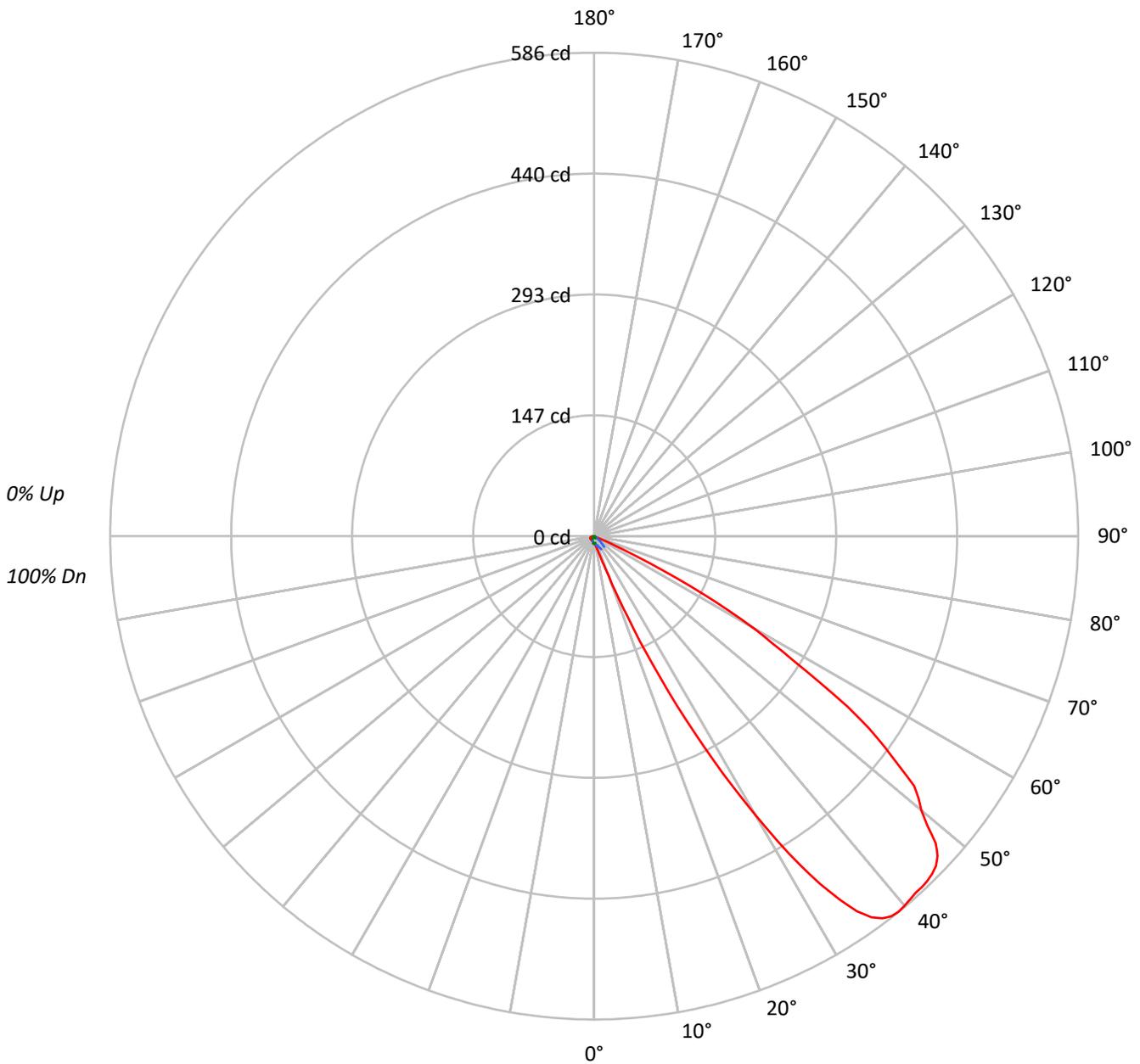
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 181.0 lumens
Efficiency: N/A
Efficacy: 50.3 lumens/watt
Spacing Criteria (0/90/45): 3.99 / 0.74 / 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: P1317071
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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 | | | | |
| 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° | 1602 | 1602 | 1602 | 1602 | 1602 |
| 5° | 1781 | 1729 | 1573 | 1435 | 1400 |
| 10° | 2151 | 1836 | 1451 | 1312 | 1277 |
| 15° | 3530 | 1979 | 1248 | 1159 | 1177 |
| 20° | 9329 | 2346 | 1045 | 1045 | 1136 |
| 25° | 35953 | 2907 | 817 | 950 | 1102 |
| 30° | 77558 | 3858 | 656 | 935 | 1094 |
| 35° | 116728 | 4583 | 568 | 904 | 1114 |
| 40° | 131498 | 4586 | 495 | 944 | 1192 |
| 45° | 141021 | 3556 | 438 | 974 | 1291 |
| 50° | 138601 | 2224 | 402 | 1018 | 1420 |
| 55° | 121936 | 1111 | 390 | 1141 | 1591 |
| 60° | 77190 | 241 | 448 | 1274 | 1791 |
| 65° | 15771 | 82 | 489 | 1345 | 1956 |
| 70° | 352 | 101 | 504 | 1511 | 2266 |
| 75° | 333 | 200 | 532 | 1664 | 2529 |
| 80° | 298 | 198 | 694 | 1785 | 2975 |
| 85° | 395 | 395 | 1383 | 1976 | 3359 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47°
 Luminance: 143561 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------------|--------------|--------------|
| 0°-10° | 0.9 | 0.5 |
| 10°-20° | 2.9 | 1.6 |
| 20°-30° | 14.1 | 7.8 |
| 30°-40° | 45.7 | 25.3 |
| 40°-50° | 63.0 | 34.8 |
| 50°-60° | 43.9 | 24.3 |
| 60°-70° | 8.3 | 4.6 |
| 70°-80° | 1.5 | 0.8 |
| 80°-90° | 0.7 | 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° | 17.8 | 9.8 |
| 0°-40° | 63.5 | 35.1 |
| 0°-60° | 170.5 | 94.2 |
| 0°-90° | 181.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 181.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 9 | 9 | 9 | 9 | 9 | |
| 5° | 10 | 10 | 9 | 8 | 8 | 1 |
| 15° | 20 | 11 | 7 | 6 | 7 | 7 |
| 25° | 189 | 15 | 4 | 5 | 6 | 97 |
| 35° | 555 | 22 | 3 | 4 | 5 | 335 |
| 45° | 579 | 15 | 2 | 4 | 5 | 440 |
| 55° | 406 | 4 | 1 | 4 | 5 | 347 |
| 65° | 39 | 0 | 1 | 3 | 5 | 68 |
| 75° | 0 | 0 | 1 | 2 | 4 | 0 |
| 85° | 0 | 0 | 1 | 1 | 2 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1317071

CATALOG NUMBER: LDSQA3D02R409827DE010 3LSQCA45R 1MB

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|-----|
| 0° | 9.3 | 9.3 | 9.3 | 9.3 | 9.3 | 9.3 | 9.3 | 9.3 | 9.3 | 9.3 | 9.3 |
| 2.5° | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.5 | 9.3 |
| 5° | 10.3 | 10.3 | 10.3 | 10.3 | 10.1 | 10.1 | 10.1 | 10.0 | 10.0 | 9.6 | 9.1 |
| 7.5° | 11.0 | 11.0 | 11.0 | 11.0 | 10.8 | 10.6 | 10.5 | 10.5 | 10.3 | 9.5 | 8.8 |
| 10° | 12.3 | 12.3 | 12.1 | 12.0 | 11.8 | 11.5 | 11.3 | 11.0 | 10.5 | 9.3 | 8.3 |
| 12.5° | 15.0 | 14.6 | 14.5 | 14.1 | 13.6 | 13.0 | 12.3 | 11.8 | 10.6 | 9.0 | 7.8 |
| 15° | 19.8 | 19.4 | 18.8 | 17.8 | 16.8 | 15.5 | 14.3 | 13.1 | 11.1 | 8.5 | 7.0 |
| 17.5° | 28.3 | 27.3 | 26.3 | 24.6 | 22.1 | 19.8 | 17.3 | 15.1 | 11.8 | 8.0 | 6.3 |
| 20° | 50.9 | 50.2 | 44.2 | 39.6 | 32.1 | 26.8 | 21.8 | 18.1 | 12.8 | 7.5 | 5.7 |
| 22.5° | 104.9 | 97.9 | 88.1 | 72.1 | 56.2 | 41.4 | 30.1 | 22.8 | 13.8 | 6.8 | 5.0 |
| 25° | 189.2 | 178.2 | 157.1 | 126.3 | 93.3 | 66.0 | 43.6 | 29.8 | 15.3 | 6.2 | 4.3 |
| 27.5° | 286.4 | 275.3 | 242.5 | 200.1 | 146.1 | 99.6 | 62.2 | 39.4 | 17.3 | 5.5 | 3.8 |
| 30° | 390.0 | 380.5 | 338.9 | 280.3 | 206.0 | 139.5 | 83.3 | 49.2 | 19.4 | 4.8 | 3.3 |
| 31° | 431.7 | 419.5 | 374.7 | 312.2 | 234.0 | 155.9 | 91.8 | 53.4 | 20.3 | 4.7 | 3.2 |
| 32° | 470.1 | 456.3 | 409.7 | 342.8 | 256.8 | 173.7 | 101.1 | 57.0 | 20.9 | 4.3 | 3.0 |
| 33° | 503.2 | 487.0 | 442.2 | 371.7 | 281.9 | 190.3 | 110.7 | 60.5 | 21.4 | 4.0 | 2.8 |
| 34° | 531.2 | 517.3 | 469.1 | 400.8 | 304.2 | 206.3 | 120.2 | 64.0 | 21.8 | 3.8 | 2.7 |
| 35° | 555.2 | 542.6 | 494.8 | 422.9 | 326.0 | 221.7 | 128.8 | 67.3 | 21.8 | 3.5 | 2.7 |
| 36° | 571.3 | 560.3 | 517.1 | 445.5 | 344.2 | 234.9 | 136.1 | 70.3 | 21.8 | 3.2 | 2.5 |
| 37° | 580.1 | 569.5 | 531.7 | 464.1 | 362.2 | 247.8 | 142.8 | 72.6 | 21.6 | 3.0 | 2.3 |
| 38° | 584.6 | 575.3 | 542.6 | 479.2 | 374.7 | 257.1 | 148.6 | 74.5 | 21.4 | 2.7 | 2.3 |
| 39° | 585.8 | 578.0 | 549.4 | 490.2 | 386.8 | 266.5 | 152.8 | 75.5 | 20.9 | 2.5 | 2.2 |
| 40° | 584.9 | 578.1 | 553.0 | 500.0 | 396.1 | 273.8 | 155.8 | 75.8 | 20.4 | 2.2 | 2.2 |
| 41° | 583.3 | 578.0 | 555.7 | 506.8 | 403.6 | 278.4 | 156.9 | 75.1 | 19.8 | 1.8 | 2.0 |
| 42° | 581.8 | 576.0 | 556.8 | 511.5 | 408.7 | 280.8 | 156.7 | 73.8 | 18.8 | 1.7 | 2.0 |
| 43° | 581.8 | 575.1 | 557.0 | 514.5 | 411.2 | 280.9 | 154.8 | 71.3 | 17.5 | 1.5 | 1.8 |
| 44° | 580.8 | 574.6 | 557.8 | 516.5 | 411.9 | 279.4 | 151.6 | 68.7 | 16.0 | 1.3 | 1.8 |
| 45° | 579.0 | 572.5 | 557.7 | 516.6 | 410.7 | 275.8 | 146.4 | 65.2 | 14.6 | 1.0 | 1.8 |
| 46° | 575.5 | 569.6 | 556.2 | 515.5 | 407.2 | 270.4 | 140.3 | 61.7 | 13.1 | 0.8 | 1.7 |
| 47° | 568.5 | 564.0 | 552.2 | 511.5 | 401.9 | 262.6 | 133.0 | 57.7 | 12.0 | 0.7 | 1.7 |
| 48° | 556.5 | 553.4 | 545.4 | 502.7 | 391.8 | 253.0 | 125.2 | 53.4 | 10.8 | 0.7 | 1.7 |
| 49° | 534.6 | 532.1 | 527.4 | 488.5 | 378.8 | 241.2 | 116.7 | 48.5 | 9.6 | 0.5 | 1.7 |
| 50° | 517.3 | 514.6 | 505.2 | 464.8 | 360.2 | 226.2 | 107.4 | 43.7 | 8.3 | 0.3 | 1.5 |
| 51° | 505.8 | 501.5 | 486.5 | 437.2 | 333.1 | 206.3 | 97.2 | 38.9 | 7.0 | 0.3 | 1.5 |
| 52° | 491.4 | 484.9 | 466.3 | 412.4 | 308.3 | 186.3 | 86.3 | 34.1 | 6.2 | 0.3 | 1.5 |
| 53° | 461.1 | 458.8 | 440.3 | 385.8 | 283.6 | 167.2 | 75.0 | 30.1 | 5.3 | 0.3 | 1.5 |
| 54° | 434.7 | 431.2 | 406.1 | 348.9 | 256.6 | 145.9 | 63.3 | 26.6 | 4.5 | 0.3 | 1.5 |
| 55° | 406.1 | 399.3 | 377.0 | 317.8 | 225.1 | 126.3 | 52.2 | 22.9 | 3.7 | 0.3 | 1.3 |
| 56° | 370.0 | 364.0 | 340.1 | 284.6 | 196.0 | 106.4 | 43.7 | 18.8 | 2.8 | 0.3 | 1.3 |
| 57° | 326.1 | 320.6 | 302.2 | 243.7 | 165.7 | 86.9 | 35.6 | 15.1 | 2.2 | 0.3 | 1.3 |
| 58° | 283.7 | 277.6 | 256.5 | 204.5 | 133.8 | 69.0 | 29.8 | 12.3 | 1.7 | 0.3 | 1.3 |
| 59° | 251.2 | 242.9 | 215.6 | 171.7 | 104.7 | 52.4 | 23.6 | 9.8 | 1.2 | 0.3 | 1.3 |
| 60° | 224.1 | 217.3 | 189.0 | 143.0 | 82.1 | 38.6 | 17.5 | 7.5 | 0.7 | 0.3 | 1.3 |
| 62.5° | 129.8 | 128.0 | 102.6 | 73.6 | 38.7 | 18.0 | 8.6 | 3.5 | 0.3 | 0.5 | 1.3 |
| 65° | 38.7 | 33.7 | 26.3 | 15.6 | 10.0 | 6.0 | 3.2 | 1.2 | 0.2 | 0.5 | 1.2 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 45° | 67.5° | 90° |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|
| 67.5° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 0.7 | 0.3 | 0.2 | 0.5 | 1.2 |
| 70° | 0.7 | 0.5 | 0.5 | 0.5 | 0.5 | 0.3 | 0.3 | 0.2 | 0.2 | 0.5 | 1.0 |
| 72.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 | 0.5 | 0.8 |
| 75° | 0.5 | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.3 | 0.5 | 0.8 |
| 77.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.5 | 0.8 |
| 80° | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.5 | 0.7 |
| 82.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.5 | 0.7 |
| 85° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.5 | 0.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.5 | 0.5 |
| 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: P1317071

CATALOG NUMBER: LDSQA3D02R409827DE010 3LSQCA45R 1MB

CANDELA DISTRIBUTION (continued):

| | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 0° | 9.3 | 9.3 | 9.3 | 9.3 |
| 2.5° | 9.0 | 8.8 | 8.6 | 8.6 |
| 5° | 8.6 | 8.3 | 8.3 | 8.1 |
| 7.5° | 8.1 | 7.8 | 7.8 | 7.8 |
| 10° | 7.6 | 7.5 | 7.5 | 7.3 |
| 12.5° | 7.0 | 7.0 | 7.0 | 7.0 |
| 15° | 6.5 | 6.5 | 6.6 | 6.6 |
| 17.5° | 5.8 | 6.0 | 6.3 | 6.5 |
| 20° | 5.3 | 5.7 | 6.0 | 6.2 |
| 22.5° | 5.0 | 5.3 | 5.8 | 6.0 |
| 25° | 4.5 | 5.0 | 5.7 | 5.8 |
| 27.5° | 4.2 | 4.8 | 5.3 | 5.7 |
| 30° | 3.8 | 4.7 | 5.2 | 5.5 |
| 31° | 3.8 | 4.5 | 5.2 | 5.5 |
| 32° | 3.7 | 4.3 | 5.2 | 5.3 |
| 33° | 3.7 | 4.3 | 5.2 | 5.3 |
| 34° | 3.5 | 4.3 | 5.0 | 5.3 |
| 35° | 3.5 | 4.3 | 5.0 | 5.3 |
| 36° | 3.3 | 4.2 | 5.0 | 5.3 |
| 37° | 3.3 | 4.2 | 5.0 | 5.3 |
| 38° | 3.2 | 4.2 | 5.0 | 5.3 |
| 39° | 3.2 | 4.2 | 5.0 | 5.3 |
| 40° | 3.2 | 4.2 | 5.0 | 5.3 |
| 41° | 3.0 | 4.2 | 5.0 | 5.3 |
| 42° | 3.0 | 4.2 | 5.0 | 5.3 |
| 43° | 3.0 | 4.0 | 5.0 | 5.3 |
| 44° | 3.0 | 4.0 | 5.0 | 5.3 |
| 45° | 2.8 | 4.0 | 5.0 | 5.3 |
| 46° | 2.8 | 4.0 | 5.0 | 5.3 |
| 47° | 2.8 | 4.0 | 5.0 | 5.3 |
| 48° | 2.8 | 4.0 | 5.0 | 5.3 |
| 49° | 2.8 | 4.0 | 5.0 | 5.3 |
| 50° | 2.7 | 3.8 | 5.0 | 5.3 |
| 51° | 2.7 | 3.8 | 5.0 | 5.3 |
| 52° | 2.7 | 3.8 | 5.0 | 5.3 |
| 53° | 2.7 | 3.8 | 5.0 | 5.3 |
| 54° | 2.5 | 3.8 | 5.0 | 5.3 |
| 55° | 2.5 | 3.8 | 5.0 | 5.3 |
| 56° | 2.5 | 3.8 | 5.0 | 5.2 |
| 57° | 2.5 | 3.8 | 4.8 | 5.2 |
| 58° | 2.5 | 3.7 | 4.8 | 5.2 |
| 59° | 2.5 | 3.7 | 4.8 | 5.2 |
| 60° | 2.5 | 3.7 | 4.8 | 5.2 |
| 62.5° | 2.3 | 3.7 | 4.7 | 5.0 |
| 65° | 2.2 | 3.3 | 4.7 | 4.8 |



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CATALOG NUMBER: LDSQA3D02R409827DE010 3LSQCA45R 1MB

CANDELA DISTRIBUTION (continued):

| | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 67.5° | 2.2 | 3.2 | 4.3 | 4.7 |
| 70° | 2.0 | 3.0 | 4.2 | 4.5 |
| 72.5° | 1.7 | 2.8 | 3.8 | 4.2 |
| 75° | 1.5 | 2.5 | 3.5 | 3.8 |
| 77.5° | 1.3 | 2.2 | 3.2 | 3.3 |
| 80° | 1.2 | 1.8 | 2.7 | 3.0 |
| 82.5° | 0.8 | 1.3 | 2.2 | 2.3 |
| 85° | 0.7 | 1.0 | 1.5 | 1.7 |
| 87.5° | 0.5 | 0.5 | 0.8 | 0.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)