

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: P1317052

Luminaire Tested: LDSQA3D02R359827DE010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

**Test Information**

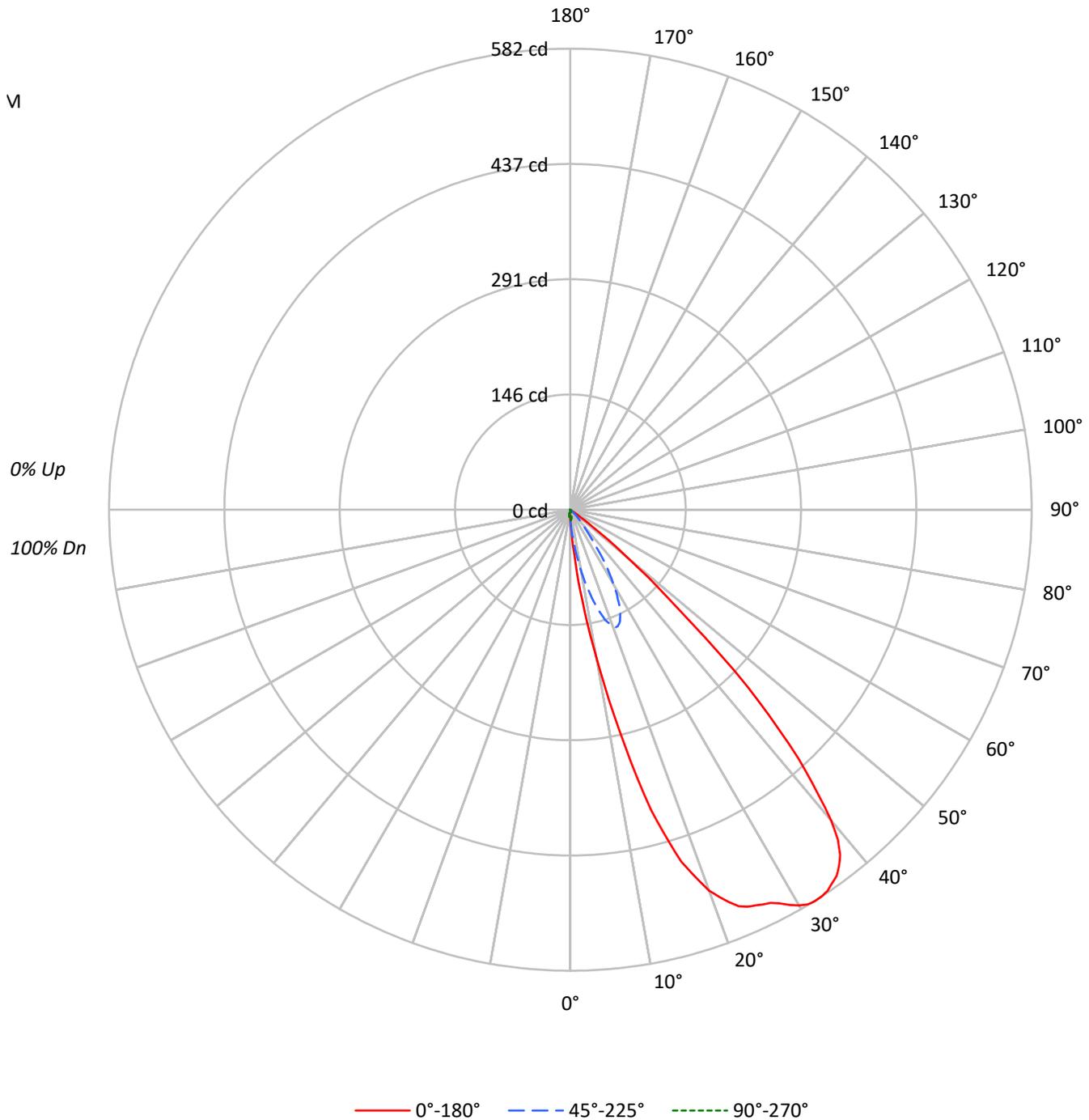
Test Method: LM-79-2019  
Report Number: P1317052  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-51)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R359827DE010 3LSQCA30R 1MMS  
Description: 3in Adjustable LED luminaire with, R35 optic, 2700K CCT AND, 98CRI , 3LSQCA30R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 174.0 lumens  
Efficiency: N/A  
Efficacy: 48.3 lumens/watt  
Spacing Criteria (0/90/45): 2.53 / 0.46 / 1.29  
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 (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

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### Luminous Intensity Polar Plot





TEST NUMBER: P1317052  
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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   | 113 | 109 | 107 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 95  | 93  | 96  | 95  | 93  | 91  |
| 2   | 106 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  | 92  | 89  | 86  | 89  | 87  | 85  | 89  | 87  | 85  | 83  |
| 3   | 99  | 91  | 86  | 81  | 97  | 90  | 85  | 80  | 87  | 83  | 79  | 85  | 81  | 78  | 82  | 79  | 76  | 82  | 79  | 76  | 75  |
| 4   | 93  | 84  | 77  | 72  | 91  | 82  | 76  | 72  | 80  | 75  | 71  | 78  | 73  | 70  | 76  | 72  | 69  | 76  | 72  | 69  | 67  |
| 5   | 86  | 76  | 70  | 64  | 85  | 75  | 69  | 64  | 74  | 68  | 63  | 72  | 67  | 63  | 70  | 66  | 62  | 70  | 66  | 62  | 61  |
| 6   | 81  | 70  | 63  | 58  | 79  | 69  | 62  | 58  | 68  | 62  | 57  | 66  | 61  | 57  | 65  | 60  | 56  | 65  | 60  | 56  | 55  |
| 7   | 75  | 64  | 57  | 52  | 74  | 64  | 57  | 52  | 62  | 56  | 52  | 61  | 55  | 51  | 60  | 55  | 51  | 60  | 55  | 51  | 49  |
| 8   | 71  | 59  | 52  | 47  | 69  | 59  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 46  | 55  | 50  | 46  | 55  | 50  | 46  | 45  |
| 9   | 66  | 54  | 47  | 43  | 65  | 54  | 47  | 43  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 51  | 46  | 42  | 40  |
| 10  | 62  | 50  | 43  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 39  | 48  | 42  | 38  | 47  | 42  | 38  | 47  | 42  | 38  | 37  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°     | 45°   | 90°  | 135° | 180° |
|-----|--------|-------|------|------|------|
| 0°  | 2256   | 2256  | 2256 | 2256 | 2256 |
| 5°  | 9820   | 6085  | 2092 | 743  | 519  |
| 10° | 33035  | 13728 | 1574 | 175  | 52   |
| 15° | 69911  | 22519 | 981  | 0    | 0    |
| 20° | 93727  | 28774 | 458  | 0    | 0    |
| 25° | 104762 | 28257 | 95   | 0    | 0    |
| 30° | 114686 | 21656 | 0    | 0    | 0    |
| 35° | 121038 | 11795 | 0    | 0    | 0    |
| 40° | 115063 | 5306  | 0    | 0    | 0    |
| 45° | 77233  | 2338  | 0    | 0    | 0    |
| 50° | 25802  | 214   | 0    | 0    | 0    |
| 55° | 1381   | 0     | 0    | 0    | 0    |
| 60° | 0      | 0     | 69   | 0    | 0    |
| 65° | 0      | 0     | 122  | 0    | 0    |
| 70° | 0      | 101   | 151  | 0    | 0    |
| 75° | 0      | 133   | 200  | 0    | 0    |
| 80° | 0      | 198   | 298  | 0    | 0    |
| 85° | 0      | 395   | 593  | 0    | 0    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 77233 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2.8    | 1.6       |
| 10°-20°   | 24.1   | 13.9      |
| 20°-30°   | 53.0   | 30.4      |
| 30°-40°   | 61.3   | 35.2      |
| 40°-50°   | 30.2   | 17.4      |
| 50°-60°   | 2.2    | 1.3       |
| 60°-70°   | 0.1    | 0.0       |
| 70°-80°   | 0.1    | 0.1       |
| 80°-90°   | 0.1    | 0.1       |
| 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°    | 79.9   | 45.9      |
| 0°-40°    | 141.2  | 81.1      |
| 0°-60°    | 173.7  | 99.8      |
| 0°-90°    | 174.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 174.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 13  | 13  | 13  | 13   | 13   |      |
| 5°  | 57  | 35  | 12  | 4    | 3    | 10   |
| 15° | 392 | 126 | 6   | 0    | 0    | 111  |
| 25° | 551 | 149 | 0   | 0    | 0    | 255  |
| 35° | 576 | 56  | 0   | 0    | 0    | 355  |
| 45° | 317 | 10  | 0   | 0    | 0    | 233  |
| 55° | 5   | 0   | 0   | 0    | 0    | 19   |
| 65° | 0   | 0   | 0   | 0    | 0    | 0    |
| 75° | 0   | 0   | 0   | 0    | 0    | 0    |
| 85° | 0   | 0   | 0   | 0    | 0    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |



TEST NUMBER: P1317052  
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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 45°   | 67.5° | 90°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 0°    | 13.1  | 13.1  | 13.1  | 13.1  | 13.1  | 13.1  | 13.1  | 13.1  | 13.1  | 13.1  | 13.1 |
| 2.5°  | 26.1  | 26.7  | 26.4  | 26.4  | 26.2  | 25.4  | 23.9  | 23.4  | 21.6  | 17.1  | 13.3 |
| 5°    | 56.8  | 56.9  | 56.4  | 53.9  | 51.8  | 49.8  | 45.5  | 43.5  | 35.2  | 20.9  | 12.1 |
| 7.5°  | 115.2 | 112.7 | 109.6 | 106.1 | 98.4  | 91.5  | 82.3  | 72.7  | 54.4  | 24.2  | 10.8 |
| 10°   | 188.9 | 185.4 | 182.8 | 174.5 | 160.7 | 146.4 | 129.0 | 113.2 | 78.5  | 26.6  | 9.0  |
| 12.5° | 284.0 | 282.0 | 272.6 | 256.0 | 235.5 | 215.0 | 184.6 | 159.5 | 102.8 | 27.1  | 7.3  |
| 15°   | 392.1 | 388.8 | 374.3 | 350.7 | 323.0 | 290.7 | 250.0 | 207.8 | 126.3 | 25.6  | 5.5  |
| 17.5° | 466.0 | 464.1 | 451.7 | 426.9 | 395.1 | 353.9 | 305.8 | 253.1 | 145.7 | 22.4  | 3.8  |
| 20°   | 511.4 | 508.8 | 497.2 | 476.2 | 442.9 | 399.9 | 342.8 | 282.0 | 157.0 | 18.4  | 2.5  |
| 21°   | 523.2 | 520.6 | 511.3 | 489.5 | 457.7 | 411.5 | 352.9 | 289.0 | 159.2 | 16.6  | 2.0  |
| 22°   | 534.3 | 531.7 | 521.9 | 502.6 | 471.1 | 423.0 | 360.9 | 294.3 | 158.9 | 15.1  | 1.5  |
| 23°   | 543.6 | 540.8 | 531.2 | 513.4 | 481.7 | 433.1 | 366.9 | 297.0 | 156.7 | 13.6  | 1.2  |
| 24°   | 548.5 | 546.8 | 538.2 | 521.4 | 490.4 | 440.2 | 371.0 | 298.0 | 154.0 | 12.1  | 0.8  |
| 25°   | 551.3 | 549.3 | 540.8 | 525.4 | 496.0 | 445.9 | 373.7 | 297.1 | 148.7 | 10.8  | 0.5  |
| 26°   | 554.3 | 551.3 | 541.6 | 526.7 | 499.0 | 448.5 | 373.8 | 295.0 | 143.1 | 9.6   | 0.2  |
| 27°   | 556.9 | 554.1 | 544.1 | 527.7 | 499.5 | 447.7 | 372.5 | 290.8 | 136.3 | 8.5   | 0.2  |
| 28°   | 562.7 | 559.6 | 548.1 | 529.9 | 500.0 | 445.5 | 368.3 | 285.2 | 127.3 | 7.5   | 0.0  |
| 29°   | 570.4 | 567.0 | 553.9 | 535.0 | 501.1 | 443.2 | 362.7 | 277.7 | 119.5 | 6.6   | 0.0  |
| 30°   | 576.7 | 573.7 | 561.6 | 541.5 | 504.1 | 441.1 | 356.1 | 267.6 | 108.9 | 5.6   | 0.0  |
| 31°   | 581.3 | 578.3 | 567.2 | 547.0 | 506.8 | 439.1 | 347.8 | 257.1 | 99.3  | 5.0   | 0.0  |
| 32°   | 582.5 | 580.0 | 569.5 | 549.3 | 506.8 | 436.1 | 340.1 | 245.3 | 89.8  | 4.1   | 0.0  |
| 33°   | 582.0 | 579.5 | 568.9 | 547.6 | 502.3 | 428.9 | 330.8 | 231.2 | 79.0  | 3.7   | 0.0  |
| 34°   | 580.2 | 577.2 | 565.9 | 542.3 | 493.5 | 416.8 | 317.4 | 217.1 | 67.7  | 3.0   | 0.0  |
| 35°   | 575.7 | 573.0 | 560.7 | 532.3 | 479.9 | 398.4 | 299.5 | 200.9 | 56.1  | 2.5   | 0.0  |
| 36°   | 571.4 | 567.4 | 552.3 | 520.1 | 462.0 | 379.5 | 278.0 | 182.1 | 46.1  | 2.0   | 0.0  |
| 37°   | 563.4 | 557.7 | 542.5 | 502.3 | 436.6 | 352.7 | 253.6 | 161.5 | 38.7  | 1.5   | 0.0  |
| 38°   | 552.8 | 545.1 | 525.7 | 481.7 | 411.0 | 327.7 | 230.7 | 142.9 | 32.5  | 1.0   | 0.0  |
| 39°   | 536.3 | 527.4 | 501.0 | 453.5 | 381.5 | 298.6 | 204.5 | 123.2 | 27.7  | 0.7   | 0.0  |
| 40°   | 511.8 | 503.3 | 474.1 | 420.0 | 352.1 | 266.6 | 177.6 | 100.9 | 23.6  | 0.3   | 0.0  |
| 42.5° | 426.1 | 414.5 | 380.6 | 326.8 | 260.3 | 191.7 | 117.5 | 56.1  | 15.6  | 0.0   | 0.0  |
| 45°   | 317.1 | 306.8 | 273.6 | 224.6 | 173.5 | 117.4 | 62.9  | 33.0  | 9.6   | 0.0   | 0.0  |
| 47.5° | 179.1 | 177.9 | 156.4 | 129.0 | 96.8  | 62.4  | 31.9  | 19.9  | 4.1   | 0.0   | 0.0  |
| 50°   | 96.3  | 90.3  | 77.9  | 59.1  | 40.3  | 27.2  | 17.3  | 11.0  | 0.8   | 0.0   | 0.0  |
| 52.5° | 35.2  | 34.0  | 28.6  | 23.7  | 18.3  | 12.4  | 8.8   | 4.8   | 0.0   | 0.0   | 0.0  |
| 55°   | 4.6   | 4.3   | 4.5   | 4.8   | 5.0   | 4.3   | 2.8   | 1.0   | 0.0   | 0.0   | 0.0  |
| 57.5° | 0.0   | 0.0   | 0.0   | 0.2   | 0.3   | 0.3   | 0.3   | 0.0   | 0.0   | 0.0   | 0.2  |
| 60°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2  |
| 62.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2  |
| 65°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.3  |
| 67.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.3   | 0.3  |
| 70°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.3   | 0.3  |
| 72.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.3   | 0.3  |
| 75°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.3   | 0.3  |
| 77.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.3   | 0.3  |
| 80°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.3   | 0.3  |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 5°  | 10° | 15° | 20° | 25° | 30° | 35° | 45° | 67.5° | 90° |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.3   | 0.3 |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.3   | 0.3 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.3   | 0.3 |
| 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: P1317052  
 CATALOG NUMBER: LDSQA3D02R359827DE010 3LSQCA30R 1MMS

**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 0°    | 13.1   | 13.1 | 13.1   | 13.1 |
| 2.5°  | 10.1   | 7.8  | 6.6    | 6.5  |
| 5°    | 7.0    | 4.3  | 3.2    | 3.0  |
| 7.5°  | 4.8    | 2.2  | 1.5    | 1.3  |
| 10°   | 2.8    | 1.0  | 0.5    | 0.3  |
| 12.5° | 1.7    | 0.2  | 0.0    | 0.0  |
| 15°   | 0.5    | 0.0  | 0.0    | 0.0  |
| 17.5° | 0.0    | 0.0  | 0.0    | 0.0  |
| 20°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 21°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 22°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 23°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 24°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 25°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 26°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 27°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 28°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 29°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 31°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 32°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 33°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 34°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 35°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 36°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 37°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 38°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 39°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 40°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 42.5° | 0.0    | 0.0  | 0.0    | 0.0  |
| 45°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 47.5° | 0.0    | 0.0  | 0.0    | 0.0  |
| 50°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 52.5° | 0.0    | 0.0  | 0.0    | 0.0  |
| 55°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 57.5° | 0.0    | 0.0  | 0.0    | 0.0  |
| 60°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 62.5° | 0.0    | 0.0  | 0.0    | 0.0  |
| 65°   | 0.2    | 0.0  | 0.0    | 0.0  |
| 67.5° | 0.2    | 0.0  | 0.0    | 0.0  |
| 70°   | 0.2    | 0.0  | 0.0    | 0.0  |
| 72.5° | 0.2    | 0.0  | 0.0    | 0.0  |
| 75°   | 0.2    | 0.0  | 0.0    | 0.0  |
| 77.5° | 0.2    | 0.0  | 0.0    | 0.0  |
| 80°   | 0.2    | 0.0  | 0.0    | 0.0  |



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**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 82.5° | 0.2    | 0.0  | 0.0    | 0.0  |
| 85°   | 0.2    | 0.0  | 0.0    | 0.0  |
| 87.5° | 0.2    | 0.0  | 0.0    | 0.0  |
| 90°   | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)