

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: P1306689

Luminaire Tested: LDSQA3D02R409024DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1306689  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-52)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R409024DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R40 optic, 2400K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

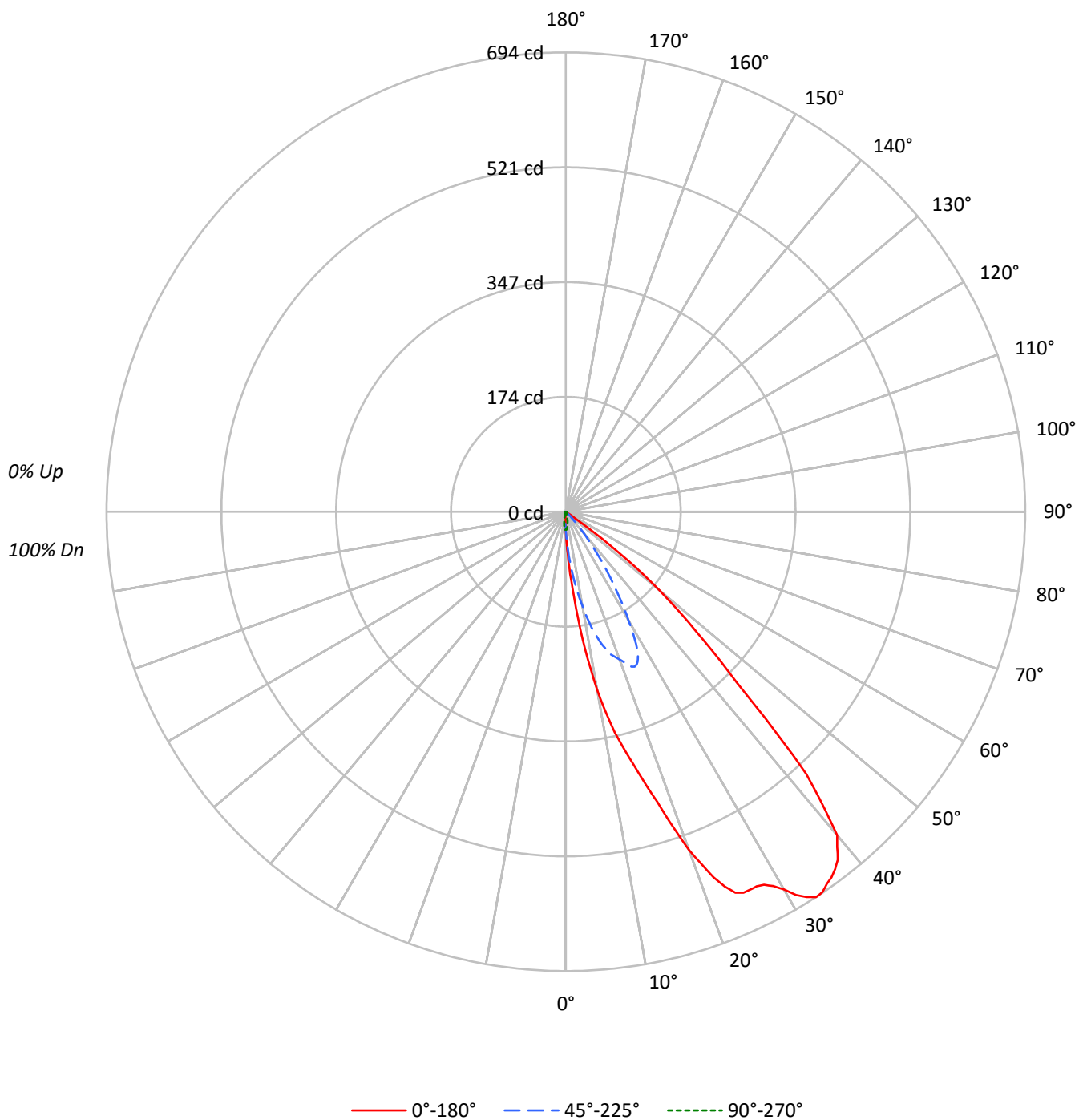
Lumens per Lamp: N/A  
Luminaire Lumens: 233.0 lumens  
Efficiency: N/A  
Efficacy: 64.7 lumens/watt  
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P1306689

CATALOG NUMBER: LDSQA3D02R409024DE010 3LSQCA30R 1MB

### Luminous Intensity Polar Plot



TEST NUMBER: P1306689

CATALOG NUMBER: LDSQA3D02R409024DE010 3LSQCA30R 1MB

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |     |    | 20 |
| RC  | 80  |     |     |     | 70  |     |     |     |     | 50  |     |     |     |     | 30  |     |     |     |    | 10 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |
| 1   | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 94  | 93  | 91  |    |    |
| 2   | 106 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  | 92  | 89  | 86  | 89  | 86  | 84  | 83  |    |    |
| 3   | 99  | 91  | 85  | 80  | 97  | 90  | 84  | 80  | 87  | 82  | 78  | 84  | 81  | 77  | 82  | 79  | 76  | 74  |    |    |
| 4   | 92  | 83  | 77  | 72  | 90  | 82  | 76  | 71  | 80  | 74  | 70  | 78  | 73  | 69  | 76  | 72  | 68  | 67  |    |    |
| 5   | 86  | 76  | 69  | 64  | 84  | 75  | 68  | 64  | 73  | 67  | 63  | 71  | 66  | 62  | 70  | 65  | 62  | 60  |    |    |
| 6   | 80  | 70  | 62  | 57  | 79  | 69  | 62  | 57  | 67  | 61  | 57  | 66  | 60  | 56  | 64  | 59  | 56  | 54  |    |    |
| 7   | 75  | 64  | 57  | 52  | 74  | 63  | 56  | 51  | 62  | 56  | 51  | 60  | 55  | 51  | 59  | 54  | 50  | 49  |    |    |
| 8   | 70  | 59  | 51  | 47  | 69  | 58  | 51  | 46  | 57  | 51  | 46  | 56  | 50  | 46  | 55  | 50  | 46  | 44  |    |    |
| 9   | 66  | 54  | 47  | 42  | 64  | 54  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 51  | 45  | 42  | 40  |    |    |
| 10  | 62  | 50  | 43  | 38  | 60  | 49  | 43  | 38  | 49  | 42  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 36  |    |    |

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

|     | 0°     | 45°   | 90°  | 135° | 180° |
|-----|--------|-------|------|------|------|
| 0°  | 4702   | 4702  | 4702 | 4702 | 4702 |
| 5°  | 19916  | 13571 | 4115 | 743  | 363  |
| 10° | 47882  | 25253 | 2553 | 70   | 0    |
| 15° | 70481  | 36694 | 1070 | 0    | 0    |
| 20° | 99610  | 43491 | 385  | 0    | 0    |
| 25° | 120648 | 48286 | 0    | 0    | 0    |
| 30° | 131013 | 37765 | 0    | 0    | 0    |
| 35° | 144459 | 22097 | 0    | 0    | 0    |
| 40° | 143368 | 8970  | 0    | 0    | 0    |
| 45° | 88802  | 2606  | 0    | 0    | 0    |
| 50° | 49433  | 54    | 0    | 0    | 0    |
| 55° | 4834   | 0     | 0    | 0    | 0    |
| 60° | 0      | 0     | 69   | 0    | 0    |
| 65° | 0      | 0     | 82   | 0    | 0    |
| 70° | 0      | 101   | 201  | 0    | 0    |
| 75° | 0      | 133   | 266  | 0    | 0    |
| 80° | 0      | 198   | 397  | 0    | 0    |
| 85° | 0      | 395   | 790  | 0    | 0    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 89216 cd/sqm

TEST NUMBER: P1306689

CATALOG NUMBER: LDSQA3D02R409024DE010 3LSQCA30R 1MB

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 5.1    | 2.2       |
| 10°-20°   | 30.0   | 12.9      |
| 20°-30°   | 68.6   | 29.4      |
| 30°-40°   | 80.9   | 34.7      |
| 40°-50°   | 43.2   | 18.6      |
| 50°-60°   | 4.7    | 2.0       |
| 60°-70°   | 0.1    | 0.0       |
| 70°-80°   | 0.2    | 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°    | 103.7  | 44.5      |
| 0°-40°    | 184.6  | 79.3      |
| 0°-60°    | 232.6  | 99.8      |
| 0°-90°    | 233.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 233.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 27  | 27  | 27  | 27   | 27   |      |
| 5°  | 115 | 78  | 24  | 4    | 2    | 16   |
| 15° | 395 | 206 | 6   | 0    | 0    | 117  |
| 25° | 635 | 254 | 0   | 0    | 0    | 288  |
| 35° | 687 | 105 | 0   | 0    | 0    | 424  |
| 45° | 365 | 11  | 0   | 0    | 0    | 301  |
| 55° | 16  | 0   | 0   | 0    | 0    | 45   |
| 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: P1306689

CATALOG NUMBER: LDSQA3D02R409024DE010 3LSQCA30R 1MB

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 45°   | 67.5° | 90°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 0°    | 27.3  | 27.3  | 27.3  | 27.3  | 27.3  | 27.3  | 27.3  | 27.3  | 27.3  | 27.3  | 27.3 |
| 2.5°  | 63.5  | 62.2  | 63.1  | 61.4  | 61.4  | 57.5  | 57.7  | 54.5  | 49.8  | 38.0  | 27.0 |
| 5°    | 115.2 | 120.4 | 116.3 | 110.9 | 107.9 | 104.1 | 98.9  | 93.6  | 78.5  | 47.4  | 23.8 |
| 7.5°  | 192.9 | 192.5 | 185.6 | 179.8 | 173.2 | 162.9 | 153.2 | 140.1 | 111.8 | 54.3  | 19.7 |
| 10°   | 273.8 | 272.3 | 264.6 | 259.6 | 247.0 | 232.2 | 212.4 | 191.4 | 144.4 | 56.6  | 14.6 |
| 12.5° | 341.2 | 339.3 | 332.8 | 324.4 | 310.5 | 291.8 | 270.6 | 242.9 | 178.7 | 54.1  | 9.4  |
| 15°   | 395.3 | 394.8 | 388.6 | 377.2 | 362.6 | 344.4 | 320.4 | 287.1 | 205.8 | 47.4  | 6.0  |
| 17.5° | 459.4 | 462.0 | 450.8 | 438.6 | 417.6 | 392.0 | 362.6 | 324.7 | 225.7 | 39.3  | 3.9  |
| 20°   | 543.5 | 539.9 | 529.6 | 511.8 | 491.6 | 460.9 | 419.3 | 365.0 | 237.3 | 30.5  | 2.1  |
| 21°   | 569.3 | 567.8 | 557.0 | 540.5 | 518.2 | 487.1 | 444.2 | 385.6 | 242.7 | 27.3  | 1.7  |
| 22°   | 595.5 | 592.9 | 584.5 | 568.4 | 547.4 | 512.2 | 465.0 | 406.8 | 249.6 | 23.8  | 1.1  |
| 23°   | 615.0 | 613.9 | 607.5 | 591.6 | 569.9 | 535.8 | 487.5 | 426.6 | 254.3 | 20.6  | 0.6  |
| 24°   | 630.0 | 628.7 | 622.3 | 610.3 | 591.6 | 556.0 | 510.3 | 447.8 | 256.2 | 17.8  | 0.2  |
| 25°   | 634.9 | 635.6 | 631.7 | 622.3 | 606.6 | 571.0 | 527.2 | 464.6 | 254.1 | 15.2  | 0.0  |
| 26°   | 635.2 | 637.1 | 634.3 | 628.9 | 616.1 | 583.0 | 543.1 | 474.4 | 248.5 | 12.9  | 0.0  |
| 27°   | 635.2 | 637.1 | 634.3 | 630.2 | 617.6 | 589.9 | 551.7 | 475.5 | 239.9 | 10.9  | 0.0  |
| 28°   | 638.2 | 639.2 | 635.6 | 630.7 | 616.9 | 592.0 | 554.0 | 469.1 | 226.2 | 9.4   | 0.0  |
| 29°   | 646.5 | 645.5 | 639.4 | 632.8 | 616.3 | 592.0 | 547.0 | 456.8 | 209.0 | 7.9   | 0.0  |
| 30°   | 658.8 | 658.8 | 649.3 | 638.8 | 619.3 | 591.8 | 535.6 | 434.7 | 189.9 | 6.4   | 0.0  |
| 31°   | 675.3 | 673.8 | 664.3 | 648.7 | 625.7 | 591.8 | 518.9 | 410.3 | 172.3 | 5.6   | 0.0  |
| 32°   | 686.4 | 685.6 | 676.6 | 658.1 | 636.2 | 591.8 | 500.8 | 383.2 | 153.2 | 4.5   | 0.0  |
| 33°   | 694.2 | 692.4 | 682.1 | 663.1 | 642.7 | 588.8 | 480.7 | 354.3 | 136.0 | 3.6   | 0.0  |
| 34°   | 693.1 | 692.7 | 681.9 | 662.2 | 641.4 | 576.4 | 457.3 | 322.1 | 120.2 | 3.0   | 0.0  |
| 35°   | 687.1 | 687.1 | 674.0 | 653.6 | 632.2 | 558.1 | 434.1 | 294.6 | 105.1 | 2.1   | 0.0  |
| 36°   | 682.6 | 680.9 | 666.1 | 643.3 | 616.7 | 529.4 | 399.8 | 266.9 | 89.1  | 1.7   | 0.0  |
| 37°   | 675.9 | 672.7 | 656.2 | 631.7 | 594.8 | 498.3 | 363.7 | 242.3 | 75.3  | 1.1   | 0.0  |
| 38°   | 667.3 | 662.4 | 642.2 | 618.2 | 570.8 | 462.4 | 327.0 | 214.6 | 62.7  | 0.6   | 0.0  |
| 39°   | 651.7 | 647.6 | 626.8 | 600.8 | 542.0 | 424.7 | 291.4 | 188.6 | 50.6  | 0.2   | 0.0  |
| 40°   | 637.7 | 630.7 | 607.0 | 577.2 | 508.3 | 382.0 | 256.0 | 163.1 | 39.9  | 0.0   | 0.0  |
| 42.5° | 537.7 | 530.2 | 524.9 | 495.3 | 404.9 | 274.2 | 178.7 | 104.5 | 20.8  | 0.0   | 0.0  |
| 45°   | 364.6 | 366.3 | 349.6 | 329.6 | 267.2 | 178.7 | 111.8 | 58.2  | 10.7  | 0.0   | 0.0  |
| 47.5° | 265.9 | 261.4 | 238.6 | 200.8 | 156.6 | 104.5 | 58.4  | 28.1  | 4.3   | 0.0   | 0.0  |
| 50°   | 184.5 | 176.0 | 155.4 | 127.0 | 85.2  | 49.8  | 25.7  | 13.1  | 0.2   | 0.0   | 0.0  |
| 52.5° | 100.2 | 94.2  | 79.8  | 57.9  | 35.4  | 19.1  | 10.3  | 5.4   | 0.0   | 0.0   | 0.0  |
| 55°   | 16.1  | 11.2  | 11.6  | 9.9   | 7.7   | 5.6   | 3.2   | 0.6   | 0.0   | 0.0   | 0.0  |
| 57.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.0   | 0.0   | 0.0   | 0.2   | 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   | 0.2  |
| 67.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.4   | 0.4  |
| 70°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.4   | 0.4  |
| 72.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.4   | 0.4  |
| 75°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   | 0.4   | 0.4  |
| 77.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.4   | 0.4  |
| 80°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   | 0.4   | 0.4  |



TEST NUMBER: P1306689

CATALOG NUMBER: LDSQA3D02R409024DE010 3LSQCA30R 1MB

**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 | 0.2 | 0.2 | 0.4   | 0.4 |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.4   | 0.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.4   | 0.4 |
| 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: P1306689

CATALOG NUMBER: LDSQA3D02R409024DE010 3LSQCA30R 1MB

**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 0°    | 27.3   | 27.3 | 27.3   | 27.3 |
| 2.5°  | 18.2   | 12.4 | 9.4    | 8.2  |
| 5°    | 10.5   | 4.3  | 2.4    | 2.1  |
| 7.5°  | 5.1    | 1.5  | 0.9    | 0.9  |
| 10°   | 2.1    | 0.4  | 0.0    | 0.0  |
| 12.5° | 0.6    | 0.0  | 0.0    | 0.0  |
| 15°   | 0.0    | 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  |





TEST NUMBER: P1306689

CATALOG NUMBER: LDSQA3D02R409024DE010 3LSQCA30R 1MB

**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)