

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: P1310084

Luminaire Tested: LDSQA3D05R509035DE010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1310084  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-53)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R509035DE010 3LSQCA30R 1MMS  
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 90CRI , 3LSQCA30R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

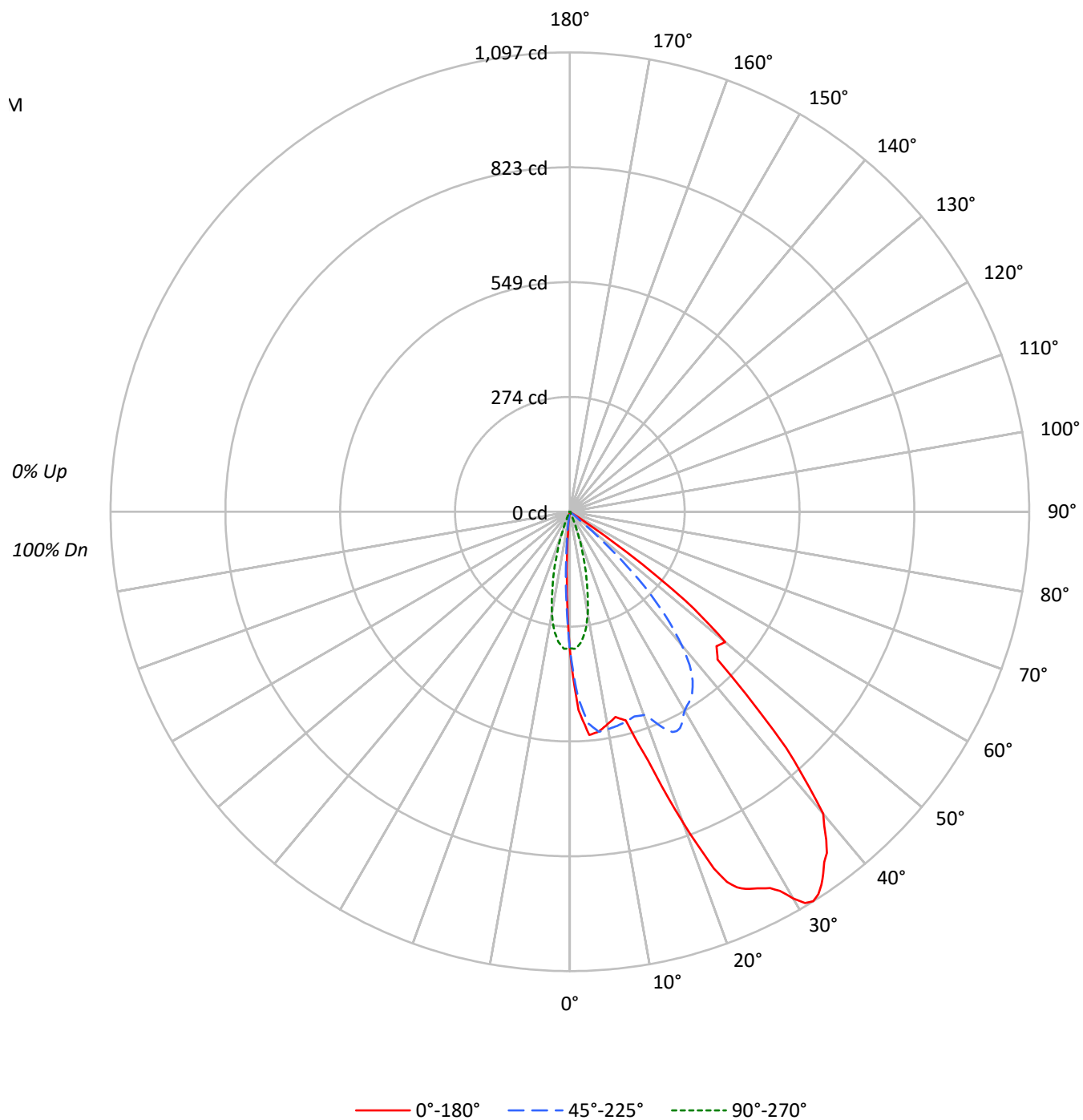
Lumens per Lamp: N/A  
Luminaire Lumens: 525.0 lumens  
Efficiency: N/A  
Efficacy: 72.9 lumens/watt  
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 7.2  
Input Voltage (V): NR  
Input Current (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: P1310084

CATALOG NUMBER: LDSQA3D05R509035DE010 3LSQCA30R 1MMS

### Luminous Intensity Polar Plot





TEST NUMBER: P1310084

CATALOG NUMBER: LDSQA3D05R509035DE010 3LSQCA30R 1MMS

### 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  | 0   |  |  |
| 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  | 97  | 96  | 96  | 94  | 93  | 91  |  |  |
| 2   | 105 | 100 | 95  | 91  | 103 | 98  | 93  | 90  | 94  | 91  | 88  | 91  | 88  | 86  | 89  | 86  | 84  | 82  |  |  |
| 3   | 98  | 91  | 85  | 80  | 96  | 89  | 84  | 79  | 86  | 82  | 78  | 84  | 80  | 77  | 82  | 78  | 75  | 74  |  |  |
| 4   | 92  | 83  | 76  | 71  | 90  | 81  | 75  | 70  | 79  | 74  | 70  | 77  | 72  | 69  | 75  | 71  | 68  | 66  |  |  |
| 5   | 86  | 76  | 68  | 63  | 84  | 75  | 68  | 63  | 73  | 67  | 62  | 71  | 66  | 62  | 69  | 65  | 61  | 59  |  |  |
| 6   | 80  | 69  | 62  | 57  | 78  | 68  | 62  | 57  | 67  | 61  | 56  | 65  | 60  | 56  | 64  | 59  | 55  | 54  |  |  |
| 7   | 75  | 64  | 56  | 51  | 73  | 63  | 56  | 51  | 61  | 55  | 51  | 60  | 55  | 50  | 59  | 54  | 50  | 48  |  |  |
| 8   | 70  | 59  | 51  | 46  | 69  | 58  | 51  | 46  | 57  | 50  | 46  | 56  | 50  | 46  | 55  | 49  | 46  | 44  |  |  |
| 9   | 66  | 54  | 47  | 42  | 64  | 54  | 47  | 42  | 53  | 46  | 42  | 52  | 46  | 42  | 51  | 45  | 42  | 40  |  |  |
| 10  | 62  | 50  | 43  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 37  |  |  |

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 56145  | 56145  | 56145 | 56145 | 56145 |
| 5°  | 92491  | 87771  | 53956 | 16026 | 8004  |
| 10° | 90150  | 92126  | 43230 | 804   | 1084  |
| 15° | 91913  | 92465  | 25889 | 820   | 267   |
| 20° | 144861 | 94662  | 10667 | 0     | 0     |
| 25° | 188867 | 110272 | 2546  | 0     | 0     |
| 30° | 211971 | 109058 | 99    | 0     | 0     |
| 35° | 221830 | 107393 | 0     | 0     | 0     |
| 40° | 211624 | 93301  | 0     | 0     | 0     |
| 45° | 121536 | 61572  | 0     | 0     | 0     |
| 50° | 129705 | 7047   | 0     | 0     | 0     |
| 55° | 36962  | 0      | 0     | 0     | 0     |
| 60° | 0      | 0      | 172   | 0     | 0     |
| 65° | 0      | 204    | 204   | 0     | 0     |
| 70° | 0      | 252    | 252   | 0     | 0     |
| 75° | 0      | 333    | 333   | 0     | 0     |
| 80° | 0      | 496    | 992   | 496   | 0     |
| 85° | 0      | 988    | 1976  | 988   | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle:  $15^\circ$

Vertical Angle:  $45^\circ$

Luminance: 134201 cd/sqm

TEST NUMBER: P1310084

CATALOG NUMBER: LDSQA3D05R509035DE010 3LSQCA30R 1MMS

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 27.4   | 5.2       |
| 10°-20°   | 69.0   | 13.1      |
| 20°-30°   | 132.5  | 25.2      |
| 30°-40°   | 154.2  | 29.4      |
| 40°-50°   | 110.4  | 21.0      |
| 50°-60°   | 30.7   | 5.9       |
| 60°-70°   | 0.2    | 0.0       |
| 70°-80°   | 0.3    | 0.1       |
| 80°-90°   | 0.4    | 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°    | 228.8  | 43.6      |
| 0°-40°    | 383.0  | 73.0      |
| 0°-60°    | 524.1  | 99.8      |
| 0°-90°    | 525.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 525.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 326  | 326 | 326 | 326  | 326  |      |
| 5°  | 535  | 508 | 312 | 93   | 46   | 49   |
| 15° | 516  | 519 | 145 | 5    | 2    | 166  |
| 25° | 994  | 580 | 13  | 0    | 0    | 452  |
| 35° | 1055 | 511 | 0   | 0    | 0    | 653  |
| 45° | 499  | 253 | 0   | 0    | 0    | 469  |
| 55° | 123  | 0   | 0   | 0    | 0    | 155  |
| 65° | 0    | 0   | 0   | 0    | 0    | 0    |
| 75° | 0    | 0   | 0   | 0    | 0    | 0    |
| 85° | 0    | 0   | 1   | 0    | 0    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1310084

CATALOG NUMBER: LDSQA3D05R509035DE010 3LSQCA30R 1MMS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°   | 25°   | 30°   | 35°   | 45°   | 67.5° | 90°   |
|-------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 326.0  | 326.0  | 326.0  | 326.0  | 326.0 | 326.0 | 326.0 | 326.0 | 326.0 | 326.0 | 326.0 |
| 2.5°  | 473.8  | 476.3  | 476.8  | 470.7  | 471.7 | 462.9 | 463.5 | 457.3 | 442.3 | 390.3 | 327.5 |
| 5°    | 535.0  | 533.5  | 535.0  | 533.0  | 535.0 | 529.9 | 526.8 | 524.2 | 507.7 | 434.1 | 312.1 |
| 7.5°  | 529.4  | 527.3  | 530.4  | 531.4  | 535.0 | 533.5 | 534.0 | 535.5 | 529.9 | 457.8 | 285.8 |
| 10°   | 515.5  | 514.9  | 516.5  | 516.5  | 520.6 | 521.1 | 523.2 | 526.3 | 526.8 | 466.0 | 247.2 |
| 12.5° | 502.1  | 500.5  | 500.5  | 500.0  | 502.1 | 501.6 | 506.7 | 513.9 | 523.7 | 460.9 | 194.1 |
| 15°   | 515.5  | 513.9  | 511.9  | 506.2  | 502.1 | 497.4 | 498.0 | 502.6 | 518.6 | 447.5 | 145.2 |
| 17.5° | 623.6  | 615.4  | 605.1  | 587.0  | 568.0 | 535.0 | 515.5 | 503.1 | 512.4 | 426.9 | 96.8  |
| 20°   | 790.4  | 786.8  | 770.4  | 741.0  | 710.1 | 661.7 | 601.5 | 553.1 | 516.5 | 401.1 | 58.2  |
| 21°   | 853.8  | 851.7  | 834.2  | 806.9  | 771.9 | 713.2 | 651.4 | 593.2 | 524.7 | 390.3 | 45.8  |
| 22°   | 918.7  | 910.9  | 897.0  | 866.7  | 830.1 | 771.4 | 702.4 | 638.0 | 541.2 | 376.4 | 35.0  |
| 23°   | 960.4  | 955.7  | 940.8  | 916.6  | 881.6 | 824.4 | 753.9 | 683.9 | 557.2 | 361.0 | 26.3  |
| 24°   | 982.0  | 980.5  | 968.6  | 951.6  | 921.8 | 863.6 | 796.6 | 724.5 | 570.6 | 343.0 | 19.1  |
| 25°   | 993.9  | 988.7  | 981.5  | 969.1  | 946.5 | 896.0 | 836.3 | 760.1 | 580.3 | 324.9 | 13.4  |
| 26°   | 1001.1 | 998.0  | 986.6  | 975.8  | 954.2 | 913.0 | 862.0 | 781.7 | 582.9 | 302.8 | 9.3   |
| 27°   | 1009.3 | 1002.1 | 991.3  | 978.4  | 954.2 | 918.2 | 871.8 | 791.0 | 579.8 | 280.1 | 6.2   |
| 28°   | 1018.1 | 1012.9 | 998.0  | 981.5  | 952.7 | 918.2 | 868.2 | 778.6 | 570.6 | 258.5 | 3.6   |
| 29°   | 1035.0 | 1028.4 | 1009.8 | 985.6  | 953.2 | 917.1 | 854.3 | 752.9 | 558.2 | 234.3 | 2.1   |
| 30°   | 1065.9 | 1052.0 | 1029.4 | 995.4  | 956.8 | 915.1 | 831.1 | 714.2 | 548.4 | 207.0 | 0.5   |
| 31°   | 1090.1 | 1082.4 | 1056.2 | 1013.4 | 967.1 | 909.4 | 803.8 | 676.1 | 541.7 | 183.3 | 0.0   |
| 32°   | 1096.8 | 1091.2 | 1072.1 | 1032.0 | 984.6 | 904.8 | 772.9 | 639.1 | 536.6 | 157.1 | 0.0   |
| 33°   | 1089.1 | 1085.5 | 1065.4 | 1028.9 | 989.2 | 898.6 | 737.4 | 602.5 | 530.9 | 133.4 | 0.0   |
| 34°   | 1074.7 | 1070.1 | 1052.6 | 1015.5 | 977.4 | 871.8 | 703.4 | 574.7 | 522.7 | 111.2 | 0.0   |
| 35°   | 1055.1 | 1051.5 | 1033.5 | 996.9  | 955.7 | 830.1 | 669.4 | 556.1 | 510.8 | 89.1  | 0.0   |
| 36°   | 1034.0 | 1033.0 | 1009.8 | 973.8  | 927.9 | 789.9 | 628.2 | 542.2 | 499.0 | 70.5  | 0.0   |
| 37°   | 1020.1 | 1015.0 | 989.7  | 954.2  | 895.0 | 743.1 | 595.3 | 537.6 | 482.5 | 54.6  | 0.0   |
| 38°   | 994.9  | 995.9  | 967.1  | 934.6  | 861.5 | 702.4 | 568.5 | 534.0 | 464.0 | 39.7  | 0.0   |
| 39°   | 965.0  | 965.5  | 935.7  | 907.9  | 821.9 | 659.7 | 546.4 | 530.4 | 440.8 | 25.2  | 0.0   |
| 40°   | 941.3  | 940.8  | 906.8  | 877.0  | 779.1 | 619.5 | 534.5 | 525.2 | 415.0 | 14.4  | 0.0   |
| 42.5° | 765.2  | 768.3  | 772.4  | 784.8  | 678.7 | 548.9 | 523.2 | 496.4 | 341.9 | 0.0   | 0.0   |
| 45°   | 499.0  | 510.8  | 513.9  | 551.0  | 550.5 | 520.1 | 496.4 | 444.9 | 252.8 | 0.0   | 0.0   |
| 47.5° | 474.8  | 478.4  | 485.1  | 499.5  | 507.2 | 492.3 | 443.9 | 371.8 | 138.0 | 0.0   | 0.0   |
| 50°   | 484.1  | 483.5  | 485.1  | 485.1  | 471.2 | 432.6 | 364.1 | 274.5 | 26.3  | 0.0   | 0.0   |
| 52.5° | 347.6  | 360.5  | 374.4  | 380.5  | 362.5 | 321.8 | 265.7 | 161.2 | 0.0   | 0.0   | 0.0   |
| 55°   | 123.1  | 119.0  | 115.9  | 126.7  | 124.1 | 139.6 | 115.3 | 37.6  | 0.0   | 0.0   | 0.0   |
| 57.5° | 0.0    | 0.0    | 0.0    | 0.5    | 2.1   | 4.6   | 6.2   | 0.0   | 0.0   | 0.0   | 0.0   |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.5   | 0.5   |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.5   | 0.5   |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.5   | 0.5   | 0.5   |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.5   | 0.5   | 0.5   | 0.5   |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.5   | 0.5   | 0.5   | 0.5   |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.5   | 0.5   | 0.5   | 0.5   |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.5   | 0.5   | 0.5   | 0.5   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.5   | 0.5   | 0.5   | 0.5   | 1.0   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.5   | 0.5   | 0.5   | 0.5   | 1.0   |



TEST NUMBER: P1310084

CATALOG NUMBER: LDSQA3D05R509035DE010 3LSQCA30R 1MMS

**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 | 0.5 | 0.5 | 0.5   | 1.0 |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 0.5 | 0.5   | 1.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 0.5   | 1.0 |
| 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: P1310084

CATALOG NUMBER: LDSQA3D05R509035DE010 3LSQCA30R 1MMS

**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135°  | 157.5° | 180°  |
|-------|--------|-------|--------|-------|
| 0°    | 326.0  | 326.0 | 326.0  | 326.0 |
| 2.5°  | 261.1  | 200.3 | 162.2  | 164.8 |
| 5°    | 183.3  | 92.7  | 57.2   | 46.3  |
| 7.5°  | 109.7  | 28.3  | 5.7    | 4.6   |
| 10°   | 51.5   | 4.6   | 5.1    | 6.2   |
| 12.5° | 15.4   | 4.1   | 5.7    | 5.1   |
| 15°   | 4.1    | 4.6   | 2.6    | 1.5   |
| 17.5° | 1.5    | 2.1   | 0.0    | 0.0   |
| 20°   | 1.0    | 0.0   | 0.0    | 0.0   |
| 21°   | 1.0    | 0.0   | 0.0    | 0.0   |
| 22°   | 0.5    | 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°   | 0.5    | 0.0   | 0.0    | 0.0   |
| 67.5° | 0.5    | 0.0   | 0.0    | 0.0   |
| 70°   | 0.5    | 0.0   | 0.0    | 0.0   |
| 72.5° | 0.5    | 0.0   | 0.0    | 0.0   |
| 75°   | 0.5    | 0.0   | 0.0    | 0.0   |
| 77.5° | 0.5    | 0.0   | 0.0    | 0.0   |
| 80°   | 0.5    | 0.5   | 0.0    | 0.0   |





TEST NUMBER: P1310084

CATALOG NUMBER: LDSQA3D05R509035DE010 3LSQCA30R 1MMS

**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 82.5° | 0.5    | 0.5  | 0.0    | 0.0  |
| 85°   | 0.5    | 0.5  | 0.0    | 0.0  |
| 87.5° | 0.5    | 0.5  | 0.0    | 0.0  |
| 90°   | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)