

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: P1325876

Luminaire Tested: LDSQA3D09R15W2N902765DE010 3LSQCDR1MW\_3500K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1325876  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-33)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R15W2N902765DE010 3LSQCDR1MW\_3500K  
Description: 3in Adjustable Tunable White LED luminaire with, R15 optic, 3500K CCT AND, 90CRI ,  
3LSQCDR1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

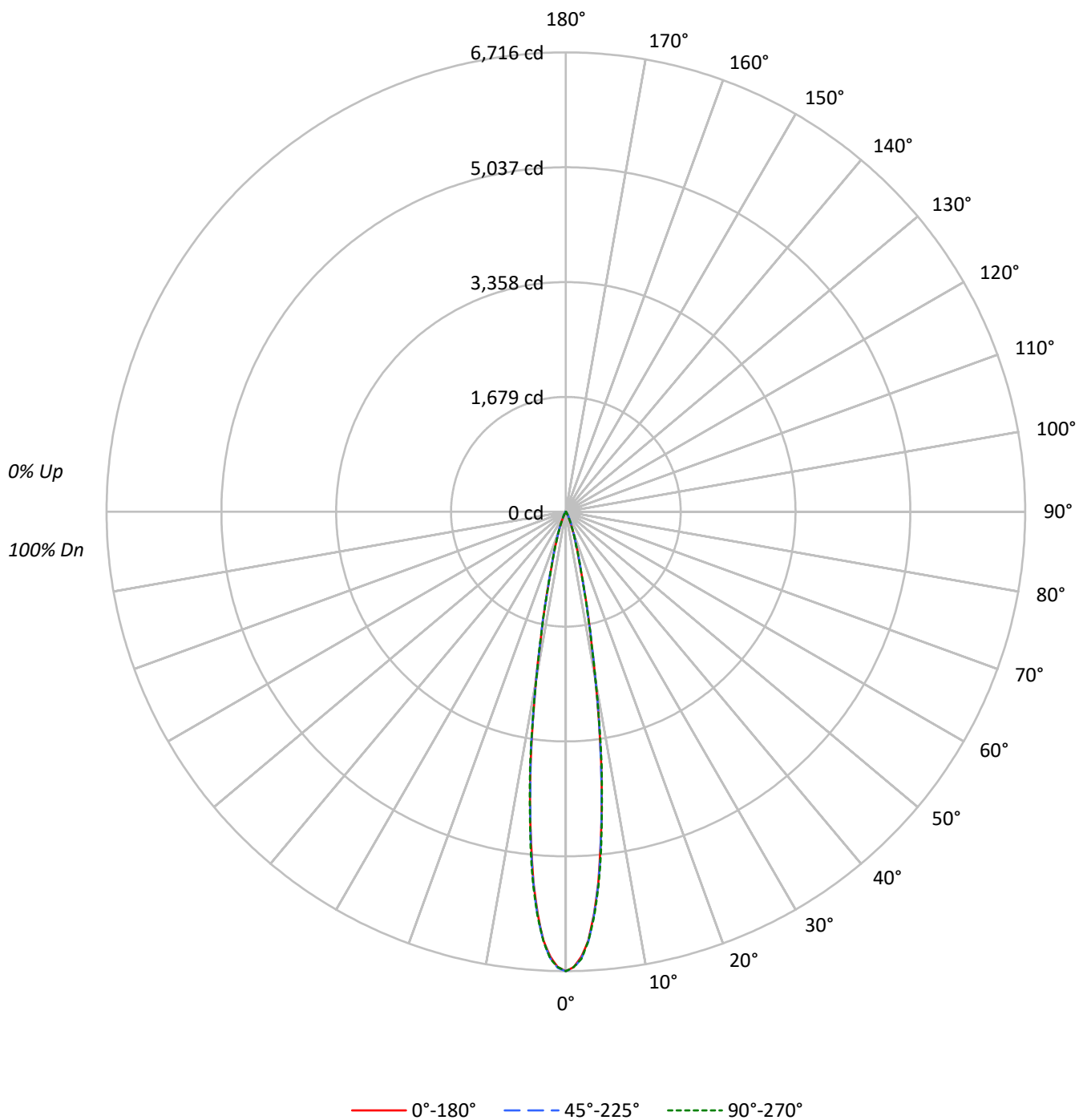
Lumens per Lamp: N/A  
Luminaire Lumens: 754.1 lumens  
Efficiency: N/A  
Efficacy: 83.8 lumens/watt  
Spacing Criteria (0/90/45): 0.29 / 0.3 / 0.29  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 9  
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



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**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 | 100 | 100 |
| 1   | 116 | 114 | 112 | 111 | 113 | 112 | 110 | 109 | 108 | 107 | 105 | 104 | 103 | 102 | 101 | 100 | 99  | 98  | 98  | 98  |
| 2   | 112 | 109 | 107 | 105 | 110 | 108 | 105 | 103 | 105 | 103 | 101 | 102 | 100 | 99  | 99  | 98  | 97  | 96  | 96  | 96  |
| 3   | 110 | 106 | 103 | 100 | 108 | 104 | 102 | 99  | 102 | 100 | 98  | 100 | 98  | 96  | 98  | 96  | 95  | 94  | 94  | 94  |
| 4   | 107 | 102 | 99  | 97  | 106 | 101 | 98  | 96  | 100 | 97  | 95  | 98  | 96  | 94  | 96  | 94  | 93  | 92  | 92  | 92  |
| 5   | 105 | 100 | 96  | 94  | 103 | 99  | 96  | 93  | 97  | 95  | 93  | 96  | 94  | 92  | 95  | 93  | 91  | 90  | 90  | 90  |
| 6   | 102 | 97  | 94  | 91  | 101 | 97  | 93  | 91  | 95  | 92  | 90  | 94  | 92  | 90  | 93  | 91  | 89  | 88  | 88  | 88  |
| 7   | 100 | 95  | 92  | 89  | 99  | 94  | 91  | 89  | 93  | 91  | 89  | 92  | 90  | 88  | 92  | 89  | 88  | 87  | 87  | 87  |
| 8   | 98  | 93  | 90  | 87  | 98  | 93  | 89  | 87  | 92  | 89  | 87  | 91  | 88  | 86  | 90  | 88  | 86  | 85  | 85  | 85  |
| 9   | 97  | 91  | 88  | 86  | 96  | 91  | 88  | 85  | 90  | 87  | 85  | 89  | 87  | 85  | 89  | 86  | 85  | 84  | 84  | 84  |
| 10  | 95  | 89  | 86  | 84  | 94  | 89  | 86  | 84  | 89  | 86  | 84  | 88  | 85  | 84  | 87  | 85  | 83  | 83  | 83  | 83  |

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

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 1156716 | 1156716 | 1156716 |
| 5°  | 940574  | 943858  | 947126  |
| 10° | 438038  | 438458  | 436079  |
| 15° | 135542  | 140392  | 137753  |
| 20° | 54030   | 57072   | 53388   |
| 25° | 22613   | 26661   | 21492   |
| 30° | 9188    | 12250   | 8472    |
| 35° | 2985    | 5593    | 2733    |
| 40° | 1057    | 2271    | 1057    |
| 45° | 438     | 731     | 438     |
| 50° | 322     | 482     | 322     |
| 55° | 360     | 360     | 360     |
| 60° | 413     | 413     | 413     |
| 65° | 245     | 245     | 245     |
| 70° | 302     | 302     | 302     |
| 75° | 399     | 399     | 399     |
| 80° | 0       | 0       | 0       |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 731 cd/sqm

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CATALOG NUMBER: LDSQA3D09R15W2N902765DE010 3LSQCDR1MW\_3500K

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 420.4  | 55.8      |
| 10°-20°   | 251.4  | 33.3      |
| 20°-30°   | 64.0   | 8.5       |
| 30°-40°   | 13.9   | 1.8       |
| 40°-50°   | 2.3    | 0.3       |
| 50°-60°   | 1.1    | 0.1       |
| 60°-70°   | 0.7    | 0.1       |
| 70°-80°   | 0.4    | 0.1       |
| 80°-90°   | 0.0    | 0.0       |
| 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       |
| <hr/>     |        |           |
| 0°-30°    | 735.7  | 97.6      |
| 0°-40°    | 749.6  | 99.4      |
| 0°-60°    | 753.0  | 99.9      |
| 0°-90°    | 754.1  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 754.1  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 6716 | 6716  | 6716 | 6716  | 6716 |      |
| 5°  | 5441 | 5448  | 5460 | 5435  | 5478 | 419  |
| 15° | 760  | 782   | 787  | 776   | 773  | 250  |
| 25° | 119  | 127   | 140  | 124   | 113  | 60   |
| 35° | 14   | 18    | 27   | 18    | 13   | 11   |
| 45° | 2    | 2     | 3    | 2     | 2    | 2    |
| 55° | 1    | 1     | 1    | 1     | 1    | 1    |
| 65° | 1    | 1     | 1    | 1     | 1    | 1    |
| 75° | 1    | 1     | 1    | 1     | 1    | 0    |
| 85° | 0    | 0     | 0    | 0     | 0    | 0    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

TEST NUMBER: P1325876

CATALOG NUMBER: LDSQA3D09R15W2N902765DE010 3LSQCDR1MW\_3500K

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 6716.4 | 6716.4 | 6716.4 | 6716.4 | 6716.4 |
| 1°    | 6657.8 | 6669.1 | 6670.9 | 6669.1 | 6659.6 |
| 2°    | 6508.1 | 6541.2 | 6534.1 | 6519.9 | 6540.0 |
| 3°    | 6276.6 | 6293.2 | 6290.8 | 6292.0 | 6287.2 |
| 4°    | 5900.1 | 5929.1 | 5912.5 | 5924.9 | 5926.1 |
| 5°    | 5440.6 | 5448.3 | 5459.6 | 5434.7 | 5478.5 |
| 6°    | 4875.3 | 4924.4 | 4881.2 | 4923.8 | 4941.0 |
| 7°    | 4300.4 | 4328.8 | 4273.8 | 4303.4 | 4321.1 |
| 8°    | 3712.5 | 3662.8 | 3693.0 | 3693.6 | 3752.2 |
| 9°    | 3077.9 | 3088.0 | 3113.4 | 3084.4 | 3109.9 |
| 10°   | 2504.8 | 2527.9 | 2507.2 | 2497.1 | 2493.6 |
| 11°   | 1977.9 | 2004.0 | 2002.2 | 2005.2 | 1985.6 |
| 12°   | 1591.3 | 1577.7 | 1586.6 | 1557.6 | 1570.6 |
| 13°   | 1238.5 | 1239.1 | 1232.0 | 1220.1 | 1209.5 |
| 14°   | 970.3  | 964.4  | 981.0  | 966.2  | 952.6  |
| 15°   | 760.2  | 781.5  | 787.4  | 776.1  | 772.6  |
| 17.5° | 468.9  | 469.5  | 477.8  | 467.1  | 465.9  |
| 20°   | 294.8  | 301.9  | 311.4  | 300.2  | 291.3  |
| 22.5° | 186.5  | 193.0  | 207.8  | 193.6  | 181.2  |
| 25°   | 119.0  | 127.3  | 140.3  | 124.3  | 113.1  |
| 27.5° | 74.6   | 82.3   | 94.7   | 79.9   | 71.6   |
| 30°   | 46.2   | 51.5   | 61.6   | 50.3   | 42.6   |
| 32.5° | 26.6   | 32.0   | 40.3   | 30.2   | 25.5   |
| 35°   | 14.2   | 18.4   | 26.6   | 17.8   | 13.0   |
| 37.5° | 8.3    | 10.7   | 17.2   | 9.5    | 7.7    |
| 40°   | 4.7    | 6.5    | 10.1   | 5.9    | 4.7    |
| 42.5° | 3.0    | 4.1    | 4.7    | 3.6    | 2.4    |
| 45°   | 1.8    | 2.4    | 3.0    | 2.4    | 1.8    |
| 47.5° | 1.2    | 1.8    | 2.4    | 1.2    | 1.2    |
| 50°   | 1.2    | 1.2    | 1.8    | 1.2    | 1.2    |
| 52.5° | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    |
| 55°   | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    |
| 57.5° | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    |
| 60°   | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    |
| 62.5° | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    |
| 65°   | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    |
| 67.5° | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    |
| 70°   | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    |
| 72.5° | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    |
| 75°   | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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**CANDELA DISTRIBUTION (continued):**

|     | 0°  | 22.5° | 45° | 67.5° | 90° |
|-----|-----|-------|-----|-------|-----|
| 90° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |

(END OF REPORT)