

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: P1326783

Luminaire Tested: LDSQA3D09R45W2N902750DE010 3LSQCDR1MMS\_3000K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1326783  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-32)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R45W2N902750DE010 3LSQCDR1MMS\_3000K  
Description: 3in Adjustable Tunable White LED luminaire with, R45 optic, 3000K CCT AND, 90CRI ,  
3LSQCDR1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

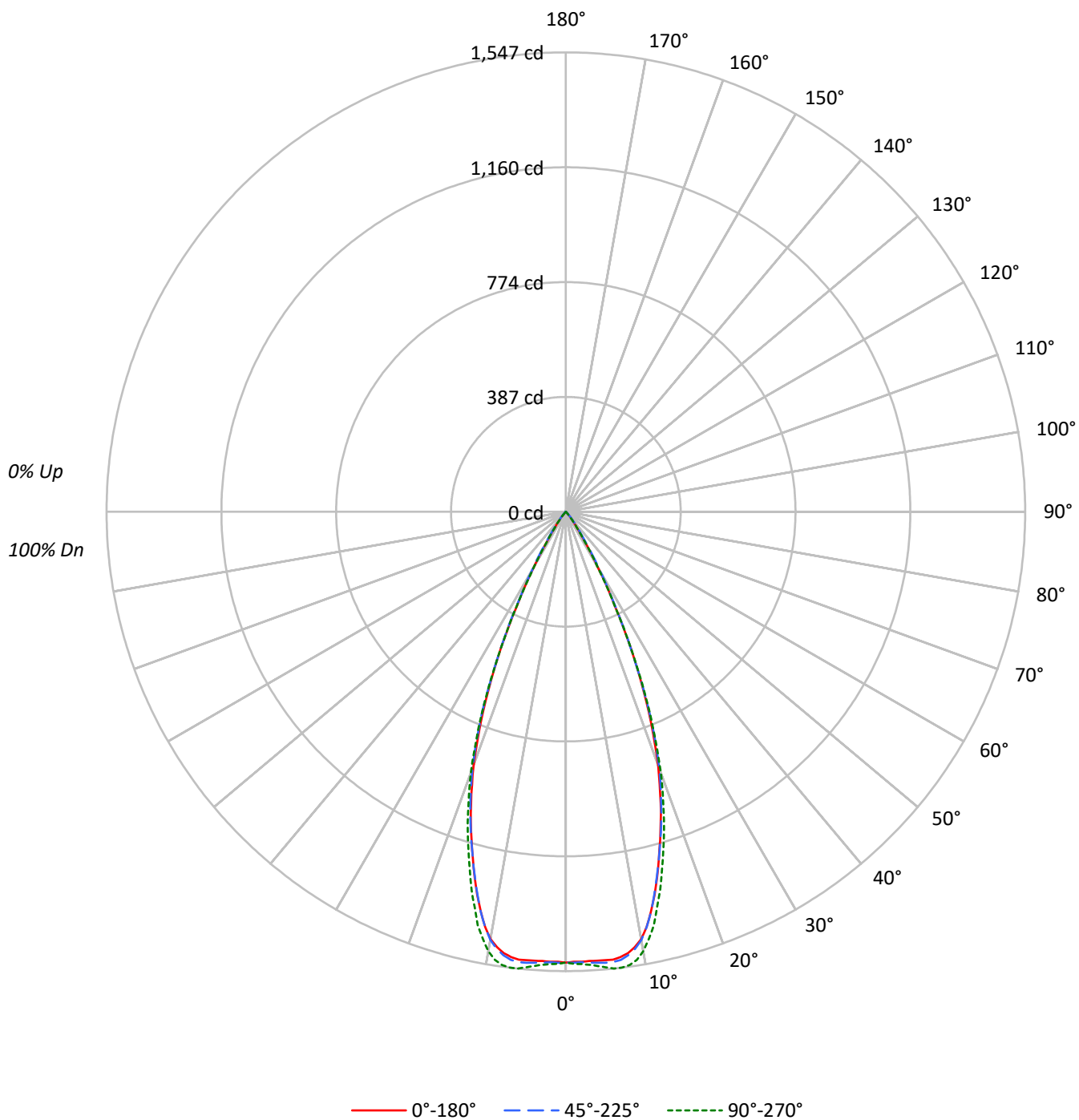
Lumens per Lamp: N/A  
Luminaire Lumens: 785.0 lumens  
Efficiency: N/A  
Efficacy: 87.2 lumens/watt  
Spacing Criteria (0/90/45): 0.72 / 0.74 / 0.67  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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 | 102 | 102 | 100 |
| 1   | 114 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 104 | 103 | 102 | 101 | 100 | 99  | 98  | 97  | 97  | 98  | 95  |
| 2   | 110 | 106 | 103 | 100 | 108 | 104 | 101 | 99  | 101 | 99  | 96  | 98  | 96  | 94  | 95  | 94  | 92  | 92  | 94  | 91  |
| 3   | 106 | 100 | 96  | 93  | 104 | 99  | 95  | 92  | 97  | 93  | 91  | 94  | 92  | 89  | 92  | 90  | 88  | 88  | 90  | 87  |
| 4   | 102 | 95  | 91  | 87  | 100 | 94  | 90  | 87  | 92  | 89  | 86  | 90  | 87  | 85  | 89  | 86  | 84  | 84  | 86  | 83  |
| 5   | 98  | 91  | 86  | 83  | 96  | 90  | 86  | 82  | 88  | 85  | 82  | 87  | 83  | 81  | 85  | 82  | 80  | 80  | 82  | 79  |
| 6   | 94  | 87  | 82  | 78  | 93  | 86  | 81  | 78  | 85  | 81  | 78  | 83  | 80  | 77  | 82  | 79  | 77  | 77  | 79  | 75  |
| 7   | 91  | 83  | 78  | 75  | 89  | 82  | 78  | 74  | 81  | 77  | 74  | 80  | 76  | 74  | 79  | 76  | 73  | 73  | 76  | 72  |
| 8   | 87  | 79  | 75  | 71  | 86  | 79  | 74  | 71  | 78  | 74  | 71  | 77  | 73  | 70  | 76  | 73  | 70  | 70  | 73  | 69  |
| 9   | 84  | 76  | 71  | 68  | 83  | 76  | 71  | 68  | 75  | 71  | 68  | 74  | 70  | 68  | 73  | 70  | 67  | 67  | 70  | 66  |
| 10  | 81  | 73  | 68  | 65  | 80  | 73  | 68  | 65  | 72  | 68  | 65  | 71  | 67  | 65  | 71  | 67  | 65  | 65  | 67  | 64  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 261486 | 261486 | 261486 |
| 5°  | 262087 | 263591 | 266219 |
| 10° | 255516 | 256041 | 262774 |
| 15° | 215580 | 215669 | 222748 |
| 20° | 166414 | 168760 | 171546 |
| 25° | 103241 | 103336 | 104002 |
| 30° | 42597  | 45262  | 41901  |
| 35° | 13245  | 16189  | 12762  |
| 40° | 4069   | 5643   | 3799   |
| 45° | 292    | 2143   | 292    |
| 50° | 0      | 322    | 0      |
| 55° | 0      | 0      | 0      |
| 60° | 0      | 0      | 0      |
| 65° | 0      | 0      | 0      |
| 70° | 0      | 0      | 0      |
| 75° | 0      | 0      | 0      |
| 80° | 0      | 0      | 0      |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 2143 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 144.5  | 18.4      |
| 10°-20°   | 336.0  | 42.8      |
| 20°-30°   | 246.5  | 31.4      |
| 30°-40°   | 53.0   | 6.7       |
| 40°-50°   | 5.0    | 0.6       |
| 50°-60°   | 0.0    | 0.0       |
| 60°-70°   | 0.0    | 0.0       |
| 70°-80°   | 0.0    | 0.0       |
| 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°    | 727.0  | 92.6      |
| 0°-40°    | 779.9  | 99.4      |
| 0°-60°    | 785.0  | 100.0     |
| 0°-90°    | 785.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 785.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1518 | 1518  | 1518 | 1518  | 1518 |      |
| 5°  | 1516 | 1520  | 1525 | 1535  | 1540 | 143  |
| 15° | 1209 | 1207  | 1210 | 1229  | 1249 | 333  |
| 25° | 543  | 542   | 544  | 544   | 547  | 244  |
| 35° | 63   | 68    | 77   | 66    | 61   | 50   |
| 45° | 1    | 4     | 9    | 4     | 1    | 3    |
| 55° | 0    | 0     | 0    | 0     | 0    | 0    |
| 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    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1518.3 | 1518.3 | 1518.3 | 1518.3 | 1518.3 |
| 1°    | 1515.4 | 1518.9 | 1518.9 | 1521.2 | 1522.4 |
| 2°    | 1516.6 | 1518.9 | 1518.3 | 1522.4 | 1524.2 |
| 3°    | 1514.8 | 1518.9 | 1520.1 | 1524.7 | 1527.7 |
| 4°    | 1515.4 | 1518.9 | 1522.4 | 1529.4 | 1533.5 |
| 5°    | 1516.0 | 1520.1 | 1524.7 | 1535.2 | 1539.9 |
| 6°    | 1516.6 | 1519.5 | 1524.7 | 1538.2 | 1546.9 |
| 7°    | 1510.7 | 1514.8 | 1520.7 | 1537.6 | 1546.9 |
| 8°    | 1501.4 | 1503.7 | 1508.4 | 1530.6 | 1541.7 |
| 9°    | 1483.9 | 1483.3 | 1490.3 | 1514.8 | 1527.7 |
| 10°   | 1461.1 | 1454.1 | 1464.1 | 1488.6 | 1502.6 |
| 11°   | 1424.4 | 1416.8 | 1425.5 | 1451.8 | 1465.2 |
| 12°   | 1376.5 | 1376.5 | 1378.3 | 1401.6 | 1425.0 |
| 13°   | 1325.8 | 1319.9 | 1323.4 | 1349.7 | 1366.0 |
| 14°   | 1269.7 | 1263.9 | 1267.4 | 1287.3 | 1312.9 |
| 15°   | 1209.1 | 1206.7 | 1209.6 | 1228.9 | 1249.3 |
| 17.5° | 1064.9 | 1059.7 | 1070.2 | 1089.4 | 1099.9 |
| 20°   | 908.0  | 916.7  | 920.8  | 933.1  | 936.0  |
| 22.5° | 727.7  | 737.0  | 742.8  | 744.6  | 746.3  |
| 25°   | 543.3  | 541.5  | 543.8  | 543.8  | 547.3  |
| 27.5° | 357.1  | 357.1  | 363.5  | 359.5  | 355.4  |
| 30°   | 214.2  | 222.9  | 227.6  | 220.0  | 210.7  |
| 32.5° | 116.7  | 125.5  | 133.0  | 122.0  | 113.8  |
| 35°   | 63.0   | 67.7   | 77.0   | 65.9   | 60.7   |
| 37.5° | 34.4   | 38.5   | 44.3   | 37.3   | 34.4   |
| 40°   | 18.1   | 22.2   | 25.1   | 22.2   | 16.9   |
| 42.5° | 5.8    | 11.1   | 14.6   | 11.1   | 5.3    |
| 45°   | 1.2    | 3.5    | 8.8    | 3.5    | 1.2    |
| 47.5° | 0.0    | 0.6    | 4.1    | 0.6    | 0.0    |
| 50°   | 0.0    | 0.0    | 1.2    | 0.0    | 0.0    |
| 52.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 55°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 57.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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)