

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: P1326688

Luminaire Tested: LDSQA3D09R40W2N902750DE010 3LSQCDR1MW\_2700K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1326688  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-38)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R40W2N902750DE010 3LSQCDR1MW\_2700K  
Description: 3in Adjustable Tunable White LED luminaire with, R40 optic, 2700K CCT AND, 90CRI ,  
3LSQCDR1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

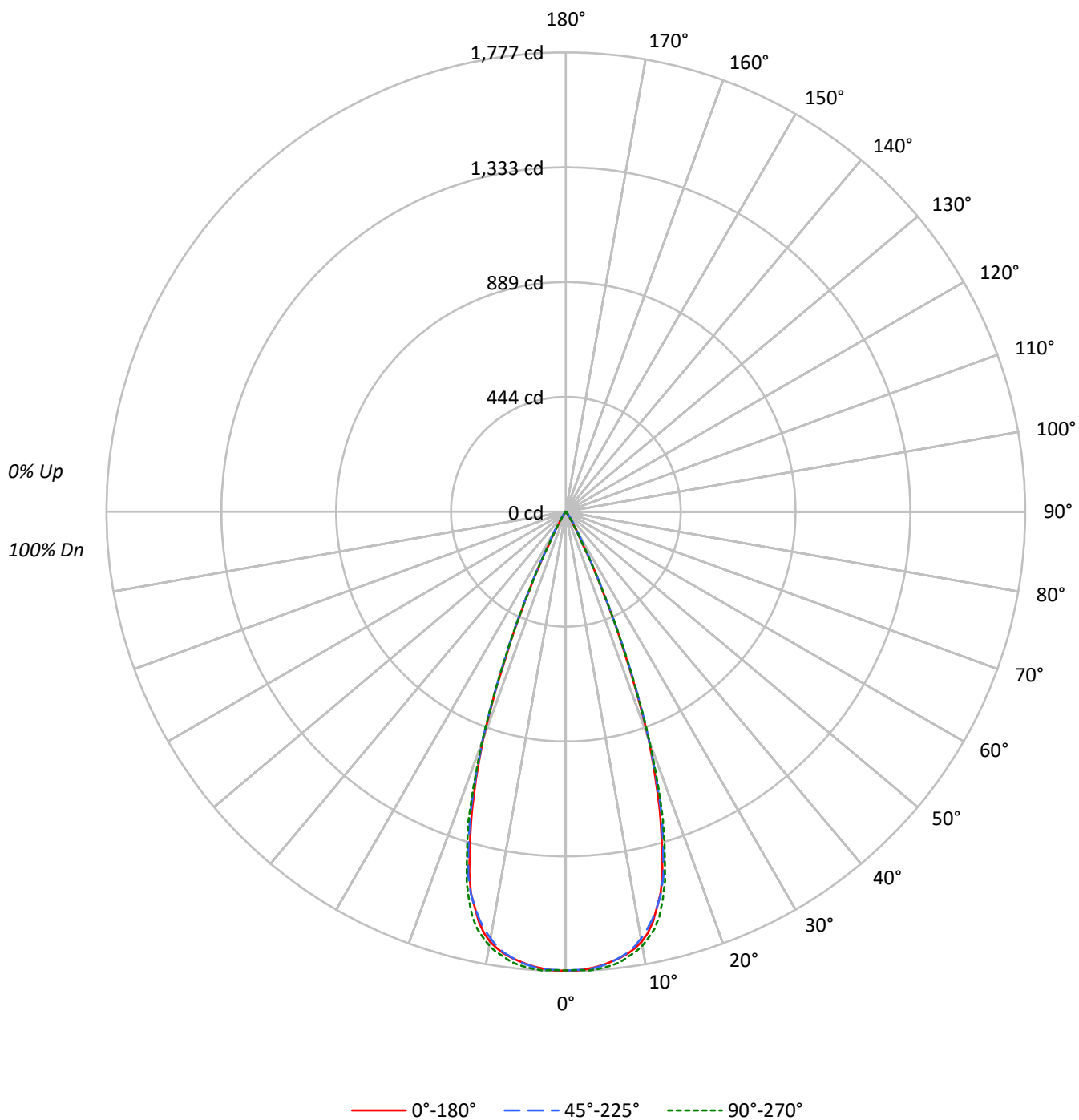
Lumens per Lamp: N/A  
Luminaire Lumens: 751.0 lumens  
Efficiency: N/A  
Efficacy: 83.4 lumens/watt  
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.6  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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   | 115 | 112 | 110 | 109 | 112 | 110 | 109 | 107 | 106 | 105 | 104 | 103 | 102 | 101 | 99  | 98  | 98  | 98  | 98  | 96  |
| 2   | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 100 | 102 | 100 | 98  | 99  | 97  | 96  | 96  | 95  | 94  | 94  | 94  | 92  |
| 3   | 107 | 102 | 98  | 95  | 105 | 100 | 97  | 94  | 98  | 95  | 93  | 96  | 93  | 91  | 93  | 91  | 90  | 90  | 90  | 88  |
| 4   | 103 | 97  | 93  | 90  | 101 | 96  | 92  | 89  | 94  | 91  | 88  | 92  | 89  | 87  | 91  | 88  | 86  | 86  | 86  | 85  |
| 5   | 99  | 93  | 89  | 85  | 98  | 92  | 88  | 85  | 91  | 87  | 84  | 89  | 86  | 84  | 88  | 85  | 83  | 83  | 83  | 82  |
| 6   | 96  | 89  | 85  | 82  | 95  | 89  | 84  | 81  | 87  | 84  | 81  | 86  | 83  | 80  | 85  | 82  | 80  | 80  | 80  | 79  |
| 7   | 93  | 86  | 81  | 78  | 92  | 85  | 81  | 78  | 84  | 80  | 78  | 83  | 80  | 77  | 82  | 79  | 77  | 77  | 77  | 76  |
| 8   | 90  | 83  | 78  | 75  | 89  | 82  | 78  | 75  | 81  | 77  | 75  | 80  | 77  | 74  | 80  | 76  | 74  | 74  | 74  | 73  |
| 9   | 87  | 80  | 75  | 72  | 86  | 79  | 75  | 72  | 79  | 75  | 72  | 78  | 74  | 72  | 77  | 74  | 72  | 72  | 72  | 71  |
| 10  | 84  | 77  | 73  | 70  | 84  | 77  | 73  | 70  | 76  | 72  | 69  | 75  | 72  | 69  | 75  | 71  | 69  | 69  | 69  | 68  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 305609 | 305609 | 305609 |
| 5°  | 303578 | 304028 | 305670 |
| 10° | 295354 | 293133 | 298030 |
| 15° | 257338 | 259976 | 264024 |
| 20° | 171418 | 172279 | 173928 |
| 25° | 62329  | 64229  | 62614  |
| 30° | 13225  | 17759  | 13225  |
| 35° | 4667   | 7884   | 4436   |
| 40° | 1664   | 2496   | 1664   |
| 45° | 390    | 1023   | 390    |
| 50° | 295    | 429    | 295    |
| 55° | 330    | 330    | 330    |
| 60° | 379    | 379    | 379    |
| 65° | 204    | 448    | 204    |
| 70° | 252    | 252    | 252    |
| 75° | 333    | 333    | 333    |
| 80° | 0      | 0      | 0      |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 1023 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 165.8  | 22.1      |
| 10°-20°   | 386.4  | 51.4      |
| 20°-30°   | 173.9  | 23.2      |
| 30°-40°   | 19.8   | 2.6       |
| 40°-50°   | 2.8    | 0.4       |
| 50°-60°   | 1.0    | 0.1       |
| 60°-70°   | 0.8    | 0.1       |
| 70°-80°   | 0.5    | 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°    | 726.1  | 96.7      |
| 0°-40°    | 745.9  | 99.3      |
| 0°-60°    | 749.7  | 99.8      |
| 0°-90°    | 751.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 751.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1774 | 1774  | 1774 | 1774  | 1774 |      |
| 5°  | 1756 | 1754  | 1759 | 1766  | 1768 | 166  |
| 15° | 1443 | 1447  | 1458 | 1470  | 1481 | 383  |
| 25° | 328  | 330   | 338  | 338   | 330  | 170  |
| 35° | 22   | 25    | 38   | 24    | 21   | 17   |
| 45° | 2    | 3     | 4    | 3     | 2    | 2    |
| 55° | 1    | 1     | 1    | 1     | 1    | 1    |
| 65° | 0    | 1     | 1    | 1     | 0    | 1    |
| 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°    | 1774.5 | 1774.5 | 1774.5 | 1774.5 | 1774.5 |
| 1°    | 1775.5 | 1773.9 | 1773.4 | 1776.6 | 1773.9 |
| 2°    | 1773.9 | 1772.9 | 1773.4 | 1776.6 | 1774.5 |
| 3°    | 1769.2 | 1769.7 | 1771.3 | 1777.1 | 1776.6 |
| 4°    | 1763.4 | 1762.8 | 1766.0 | 1773.4 | 1773.4 |
| 5°    | 1756.0 | 1753.9 | 1758.6 | 1766.5 | 1768.1 |
| 6°    | 1747.5 | 1744.9 | 1748.6 | 1758.6 | 1762.3 |
| 7°    | 1738.0 | 1732.7 | 1735.9 | 1748.1 | 1752.8 |
| 8°    | 1725.3 | 1718.5 | 1722.2 | 1734.3 | 1738.0 |
| 9°    | 1709.5 | 1698.9 | 1702.1 | 1716.9 | 1724.3 |
| 10°   | 1688.9 | 1675.7 | 1676.2 | 1692.6 | 1704.2 |
| 11°   | 1659.9 | 1645.1 | 1645.6 | 1666.2 | 1678.3 |
| 12°   | 1621.3 | 1608.1 | 1610.7 | 1629.8 | 1649.3 |
| 13°   | 1569.0 | 1565.3 | 1568.5 | 1589.1 | 1607.0 |
| 14°   | 1518.3 | 1514.6 | 1520.4 | 1539.4 | 1547.9 |
| 15°   | 1443.3 | 1447.0 | 1458.1 | 1469.7 | 1480.8 |
| 17.5° | 1205.7 | 1219.9 | 1233.1 | 1241.1 | 1250.6 |
| 20°   | 935.3  | 918.9  | 940.0  | 930.5  | 949.0  |
| 22.5° | 603.6  | 615.8  | 621.1  | 615.8  | 617.9  |
| 25°   | 328.0  | 330.1  | 338.0  | 338.0  | 329.5  |
| 27.5° | 139.4  | 150.5  | 160.5  | 156.8  | 139.4  |
| 30°   | 66.5   | 76.6   | 89.3   | 77.1   | 66.5   |
| 32.5° | 37.5   | 44.4   | 57.6   | 43.3   | 36.4   |
| 35°   | 22.2   | 24.8   | 37.5   | 23.8   | 21.1   |
| 37.5° | 13.2   | 13.7   | 20.6   | 14.3   | 12.7   |
| 40°   | 7.4    | 9.0    | 11.1   | 9.0    | 7.4    |
| 42.5° | 3.7    | 5.3    | 6.9    | 5.3    | 3.7    |
| 45°   | 1.6    | 2.6    | 4.2    | 2.6    | 1.6    |
| 47.5° | 1.6    | 1.6    | 2.6    | 1.6    | 1.6    |
| 50°   | 1.1    | 1.1    | 1.6    | 1.1    | 1.1    |
| 52.5° | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    |
| 55°   | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    |
| 57.5° | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    |
| 60°   | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    |
| 62.5° | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    |
| 65°   | 0.5    | 1.1    | 1.1    | 1.1    | 0.5    |
| 67.5° | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    |
| 70°   | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    |
| 72.5° | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    |
| 75°   | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    |
| 77.5° | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    |
| 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)