

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: P1326679

Luminaire Tested: LDSQA3D09R40W2N902750DE010 3LSQCDR1MB\_3000K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1326679  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R40W2N902750DE010 3LSQCDR1MB\_3000K  
Description: 3in Adjustable Tunable White LED luminaire with, R40 optic, 3000K CCT AND, 90CRI ,  
3LSQCDR1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

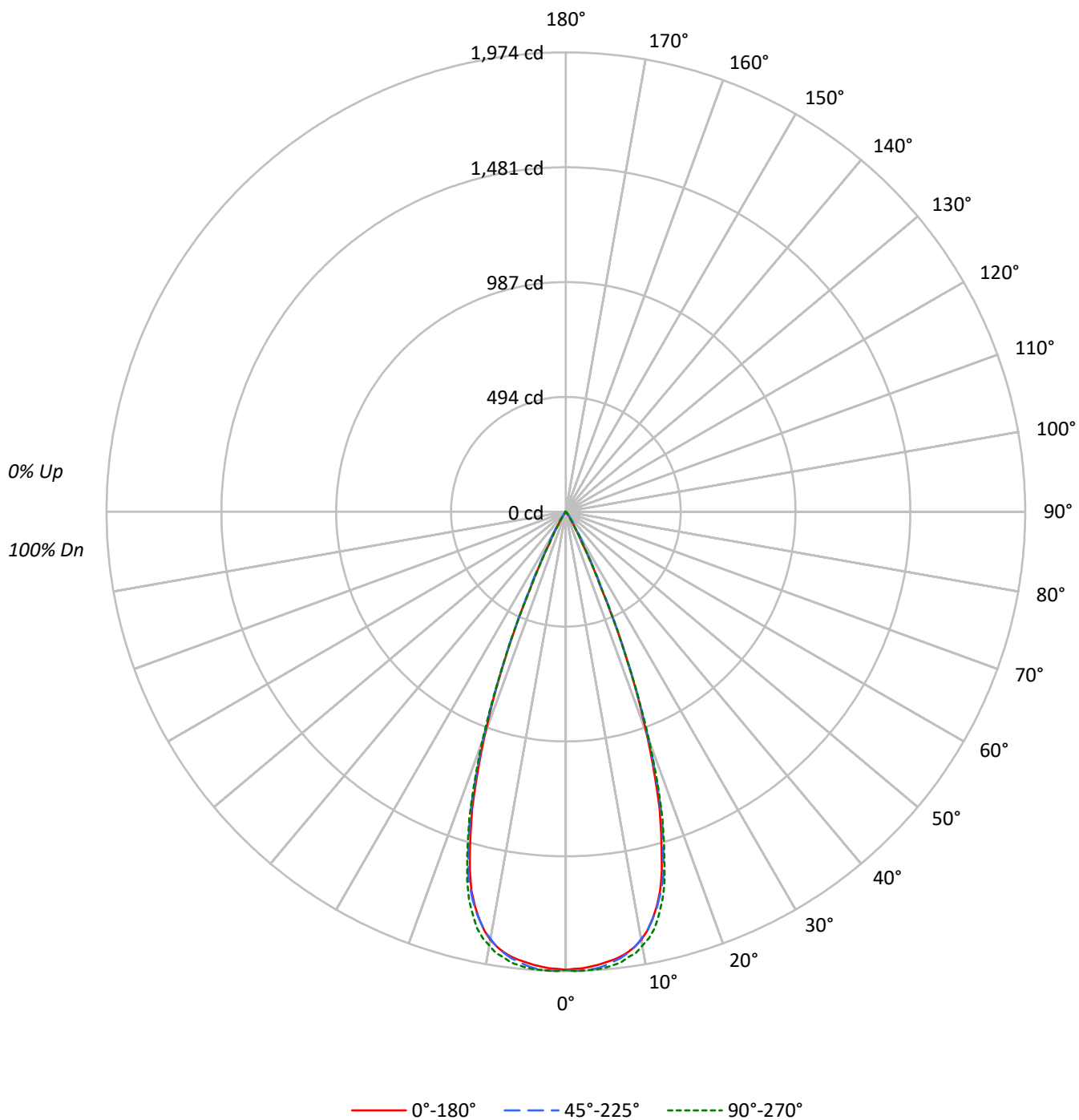
Lumens per Lamp: N/A  
Luminaire Lumens: 828.0 lumens  
Efficiency: N/A  
Efficacy: 92.0 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.69 / 0.6  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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 | 113 | 111 | 109 | 112 | 110 | 109 | 107 | 106 | 105 | 104 | 103 | 102 | 101 | 99  | 99  | 98  | 98  | 98  | 96  |
| 2   | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 100 | 102 | 100 | 98  | 99  | 97  | 96  | 97  | 95  | 94  | 94  | 94  | 92  |
| 3   | 107 | 102 | 98  | 95  | 105 | 101 | 97  | 94  | 98  | 95  | 93  | 96  | 93  | 91  | 94  | 92  | 90  | 90  | 90  | 89  |
| 4   | 103 | 97  | 93  | 90  | 102 | 96  | 92  | 89  | 94  | 91  | 88  | 92  | 90  | 87  | 91  | 88  | 87  | 87  | 87  | 85  |
| 5   | 100 | 93  | 89  | 86  | 98  | 93  | 88  | 85  | 91  | 87  | 85  | 89  | 86  | 84  | 88  | 85  | 83  | 83  | 83  | 82  |
| 6   | 96  | 90  | 85  | 82  | 95  | 89  | 85  | 82  | 88  | 84  | 81  | 86  | 83  | 81  | 85  | 82  | 80  | 80  | 80  | 79  |
| 7   | 93  | 86  | 82  | 79  | 92  | 86  | 81  | 78  | 85  | 81  | 78  | 83  | 80  | 78  | 82  | 80  | 77  | 77  | 77  | 76  |
| 8   | 90  | 83  | 79  | 76  | 89  | 83  | 78  | 75  | 82  | 78  | 75  | 81  | 77  | 75  | 80  | 77  | 75  | 75  | 75  | 73  |
| 9   | 87  | 80  | 76  | 73  | 86  | 80  | 75  | 73  | 79  | 75  | 72  | 78  | 75  | 72  | 77  | 74  | 72  | 72  | 72  | 71  |
| 10  | 85  | 77  | 73  | 70  | 84  | 77  | 73  | 70  | 76  | 72  | 70  | 76  | 72  | 70  | 75  | 72  | 70  | 70  | 70  | 69  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 339106 | 339106 | 339106 |
| 5°  | 336166 | 338293 | 339900 |
| 10° | 326605 | 325993 | 331082 |
| 15° | 284118 | 288700 | 292230 |
| 20° | 186465 | 190112 | 192568 |
| 25° | 66471  | 70348  | 66148  |
| 30° | 14497  | 19588  | 14617  |
| 35° | 4667   | 8094   | 4541   |
| 40° | 1439   | 2496   | 1304   |
| 45° | 146    | 852    | 146    |
| 50° | 0      | 161    | 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: 852 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 184.1  | 22.2      |
| 10°-20°   | 428.8  | 51.8      |
| 20°-30°   | 192.3  | 23.2      |
| 30°-40°   | 20.8   | 2.5       |
| 40°-50°   | 1.9    | 0.2       |
| 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°    | 805.3  | 97.3      |
| 0°-40°    | 826.1  | 99.8      |
| 0°-60°    | 828.0  | 100.0     |
| 0°-90°    | 828.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 828.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1969 | 1969  | 1969 | 1969  | 1969 |      |
| 5°  | 1944 | 1950  | 1957 | 1960  | 1966 | 183  |
| 15° | 1594 | 1605  | 1619 | 1628  | 1639 | 423  |
| 25° | 350  | 360   | 370  | 377   | 348  | 187  |
| 35° | 22   | 26    | 38   | 25    | 22   | 17   |
| 45° | 1    | 1     | 4    | 1     | 1    | 1    |
| 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°    | 1969.0 | 1969.0 | 1969.0 | 1969.0 | 1969.0 |
| 1°    | 1964.9 | 1969.0 | 1972.5 | 1969.6 | 1973.7 |
| 2°    | 1963.2 | 1967.8 | 1973.1 | 1970.2 | 1973.7 |
| 3°    | 1958.5 | 1964.3 | 1970.2 | 1968.4 | 1971.9 |
| 4°    | 1952.1 | 1956.8 | 1965.5 | 1965.5 | 1970.8 |
| 5°    | 1944.5 | 1949.8 | 1956.8 | 1959.7 | 1966.1 |
| 6°    | 1936.4 | 1939.3 | 1944.5 | 1950.3 | 1959.1 |
| 7°    | 1925.9 | 1925.9 | 1932.3 | 1938.1 | 1949.8 |
| 8°    | 1911.3 | 1910.1 | 1914.8 | 1922.4 | 1932.9 |
| 9°    | 1893.2 | 1889.1 | 1892.6 | 1903.7 | 1919.4 |
| 10°   | 1867.6 | 1864.1 | 1864.1 | 1878.0 | 1893.2 |
| 11°   | 1834.3 | 1833.2 | 1833.7 | 1847.1 | 1867.6 |
| 12°   | 1789.4 | 1790.6 | 1790.6 | 1805.7 | 1830.8 |
| 13°   | 1738.7 | 1738.1 | 1743.4 | 1760.3 | 1777.2 |
| 14°   | 1676.9 | 1680.4 | 1685.6 | 1700.8 | 1718.3 |
| 15°   | 1593.5 | 1605.2 | 1619.2 | 1628.5 | 1639.0 |
| 17.5° | 1339.9 | 1351.5 | 1370.8 | 1378.4 | 1380.7 |
| 20°   | 1017.4 | 1034.4 | 1037.3 | 1052.4 | 1050.7 |
| 22.5° | 682.2  | 681.0  | 683.4  | 685.1  | 685.7  |
| 25°   | 349.8  | 360.3  | 370.2  | 376.7  | 348.1  |
| 27.5° | 152.2  | 170.3  | 183.1  | 166.2  | 153.9  |
| 30°   | 72.9   | 82.8   | 98.5   | 83.4   | 73.5   |
| 32.5° | 39.6   | 46.1   | 62.4   | 45.5   | 39.1   |
| 35°   | 22.2   | 25.7   | 38.5   | 25.1   | 21.6   |
| 37.5° | 12.8   | 14.0   | 21.0   | 14.0   | 12.2   |
| 40°   | 6.4    | 8.2    | 11.1   | 8.2    | 5.8    |
| 42.5° | 2.3    | 4.1    | 5.8    | 4.1    | 2.3    |
| 45°   | 0.6    | 1.2    | 3.5    | 1.2    | 0.6    |
| 47.5° | 0.0    | 0.0    | 1.7    | 0.0    | 0.0    |
| 50°   | 0.0    | 0.0    | 0.6    | 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)