

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: P1326737

Luminaire Tested: LDSQA3D09R40W2N902765DE010 3LSQCDR1MMS\_3500K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1326737  
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: LDSQA3D09R40W2N902765DE010 3LSQCDR1MMS\_3500K  
Description: 3in Adjustable Tunable White LED luminaire with, R40 optic, 3500K CCT AND, 90CRI ,  
3LSQCDR1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

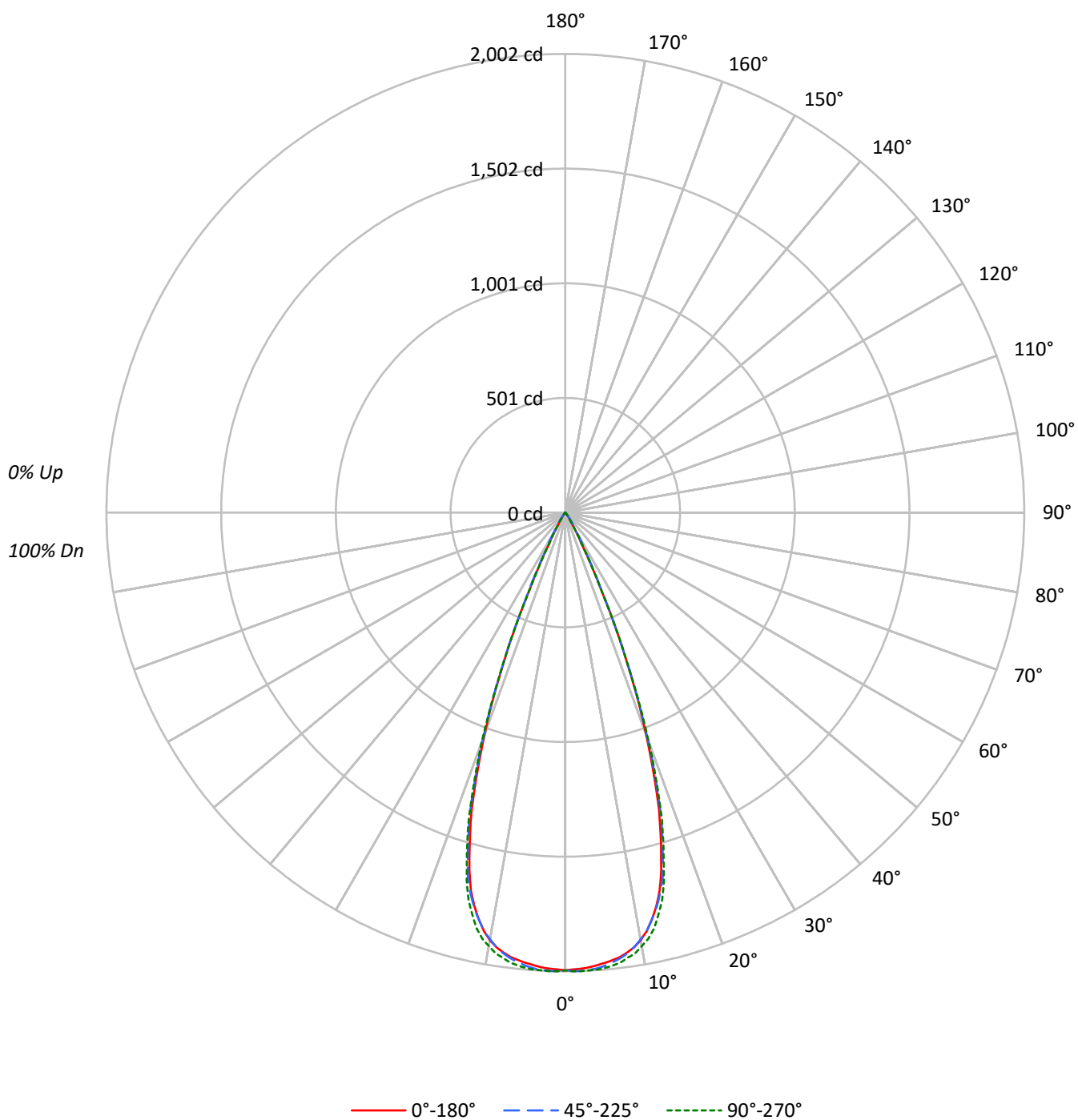
Lumens per Lamp: N/A  
Luminaire Lumens: 840.0 lumens  
Efficiency: N/A  
Efficacy: 93.3 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.69 / 0.6  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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°  | 344015 | 344015 | 344015 |
| 5°  | 341041 | 343185 | 344827 |
| 10° | 331327 | 330715 | 335873 |
| 15° | 288237 | 292872 | 296456 |
| 20° | 189177 | 192861 | 195353 |
| 25° | 67440  | 71374  | 67098  |
| 30° | 14696  | 19887  | 14815  |
| 35° | 4731   | 8200   | 4604   |
| 40° | 1461   | 2518   | 1326   |
| 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°    | 186.8  | 22.2      |
| 10°-20°   | 435.0  | 51.8      |
| 20°-30°   | 195.1  | 23.2      |
| 30°-40°   | 21.1   | 2.5       |
| 40°-50°   | 2.0    | 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°    | 817.0  | 97.3      |
| 0°-40°    | 838.0  | 99.8      |
| 0°-60°    | 840.0  | 100.0     |
| 0°-90°    | 840.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 840.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1998 | 1998  | 1998 | 1998  | 1998 |      |
| 5°  | 1973 | 1978  | 1985 | 1988  | 1995 | 186  |
| 15° | 1617 | 1628  | 1643 | 1652  | 1663 | 430  |
| 25° | 355  | 366   | 376  | 382   | 353  | 189  |
| 35° | 22   | 26    | 39   | 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°    | 1997.5 | 1997.5 | 1997.5 | 1997.5 | 1997.5 |
| 1°    | 1993.4 | 1997.5 | 2001.1 | 1998.1 | 2002.3 |
| 2°    | 1991.6 | 1996.4 | 2001.7 | 1998.7 | 2002.3 |
| 3°    | 1986.9 | 1992.8 | 1998.7 | 1997.0 | 2000.5 |
| 4°    | 1980.4 | 1985.1 | 1994.0 | 1994.0 | 1999.3 |
| 5°    | 1972.7 | 1978.0 | 1985.1 | 1988.1 | 1994.6 |
| 6°    | 1964.4 | 1967.4 | 1972.7 | 1978.6 | 1987.5 |
| 7°    | 1953.8 | 1953.8 | 1960.3 | 1966.2 | 1978.0 |
| 8°    | 1939.0 | 1937.8 | 1942.5 | 1950.2 | 1960.9 |
| 9°    | 1920.6 | 1916.5 | 1920.1 | 1931.3 | 1947.3 |
| 10°   | 1894.6 | 1891.1 | 1891.1 | 1905.3 | 1920.6 |
| 11°   | 1860.9 | 1859.7 | 1860.3 | 1873.9 | 1894.6 |
| 12°   | 1815.4 | 1816.5 | 1816.5 | 1831.9 | 1857.4 |
| 13°   | 1763.9 | 1763.3 | 1768.6 | 1785.8 | 1802.9 |
| 14°   | 1701.2 | 1704.7 | 1710.1 | 1725.4 | 1743.2 |
| 15°   | 1616.6 | 1628.4 | 1642.6 | 1652.1 | 1662.7 |
| 17.5° | 1359.3 | 1371.1 | 1390.6 | 1398.3 | 1400.7 |
| 20°   | 1032.2 | 1049.3 | 1052.3 | 1067.7 | 1065.9 |
| 22.5° | 692.1  | 690.9  | 693.3  | 695.0  | 695.6  |
| 25°   | 354.9  | 365.6  | 375.6  | 382.1  | 353.1  |
| 27.5° | 154.4  | 172.7  | 185.7  | 168.6  | 156.2  |
| 30°   | 73.9   | 84.0   | 100.0  | 84.6   | 74.5   |
| 32.5° | 40.2   | 46.7   | 63.3   | 46.1   | 39.6   |
| 35°   | 22.5   | 26.0   | 39.0   | 25.4   | 21.9   |
| 37.5° | 13.0   | 14.2   | 21.3   | 14.2   | 12.4   |
| 40°   | 6.5    | 8.3    | 11.2   | 8.3    | 5.9    |
| 42.5° | 2.4    | 4.1    | 5.9    | 4.1    | 2.4    |
| 45°   | 0.6    | 1.2    | 3.5    | 1.2    | 0.6    |
| 47.5° | 0.0    | 0.0    | 1.8    | 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)