

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: P1326936

Luminaire Tested: LDSQA3D09R50W2N902765DE010 3LSQCDR1MMS\_4000K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1326936  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R50W2N902765DE010 3LSQCDR1MMS\_4000K  
Description: 3in Adjustable Tunable White LED luminaire with, R50 optic, 4000K CCT AND, 90CRI ,  
3LSQCDR1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

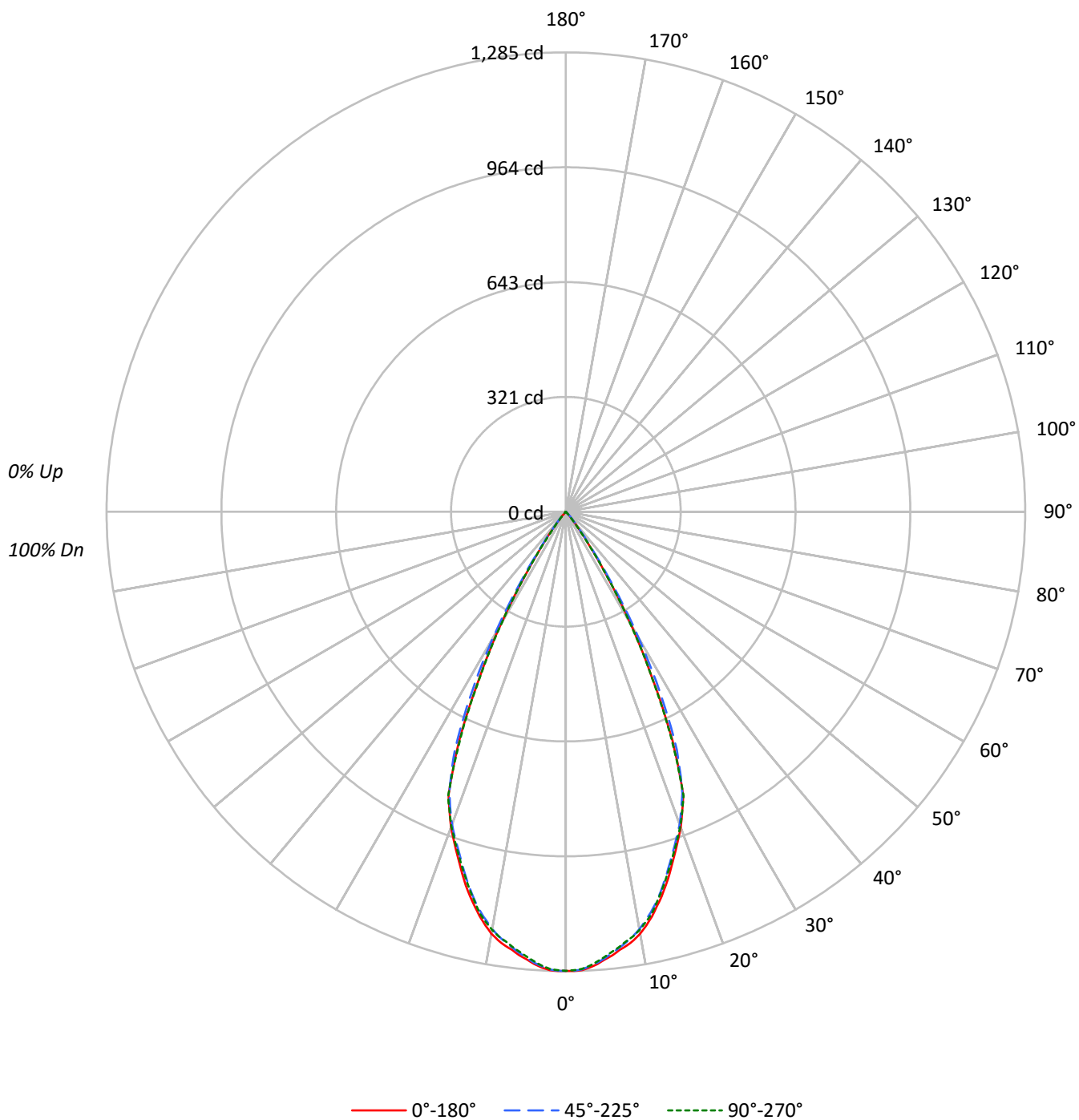
Lumens per Lamp: N/A  
Luminaire Lumens: 827.0 lumens  
Efficiency: N/A  
Efficacy: 91.9 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.78  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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 | 109 | 107 | 112 | 110 | 108 | 106 | 106 | 104 | 102 | 102 | 101 | 99  | 98  | 97  | 97  | 97  | 97  | 95  |
| 2   | 109 | 105 | 101 | 98  | 107 | 103 | 100 | 97  | 100 | 98  | 95  | 97  | 95  | 93  | 95  | 93  | 91  | 91  | 91  | 90  |
| 3   | 105 | 99  | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 92  | 89  | 93  | 90  | 88  | 91  | 88  | 86  | 86  | 86  | 85  |
| 4   | 100 | 94  | 89  | 85  | 99  | 93  | 88  | 85  | 90  | 87  | 84  | 89  | 85  | 83  | 87  | 84  | 82  | 82  | 82  | 80  |
| 5   | 96  | 89  | 84  | 80  | 95  | 88  | 83  | 79  | 86  | 82  | 79  | 85  | 81  | 78  | 83  | 80  | 77  | 77  | 77  | 76  |
| 6   | 92  | 84  | 79  | 75  | 91  | 83  | 79  | 75  | 82  | 78  | 74  | 81  | 77  | 74  | 79  | 76  | 73  | 73  | 73  | 72  |
| 7   | 88  | 80  | 75  | 71  | 87  | 79  | 74  | 71  | 78  | 74  | 70  | 77  | 73  | 70  | 76  | 72  | 70  | 70  | 70  | 69  |
| 8   | 85  | 76  | 71  | 67  | 83  | 76  | 71  | 67  | 75  | 70  | 67  | 74  | 70  | 67  | 73  | 69  | 66  | 66  | 66  | 65  |
| 9   | 81  | 73  | 67  | 64  | 80  | 72  | 67  | 64  | 71  | 67  | 64  | 70  | 66  | 63  | 70  | 66  | 63  | 63  | 63  | 62  |
| 10  | 78  | 69  | 64  | 61  | 77  | 69  | 64  | 61  | 68  | 64  | 60  | 67  | 63  | 60  | 67  | 63  | 60  | 60  | 60  | 59  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 221186 | 221186 | 221186 |
| 5°  | 217311 | 216706 | 216083 |
| 10° | 209593 | 207320 | 207722 |
| 15° | 192811 | 190387 | 190904 |
| 20° | 172169 | 170538 | 171509 |
| 25° | 133988 | 139613 | 132525 |
| 30° | 72586  | 81058  | 71293  |
| 35° | 22875  | 27227  | 22391  |
| 40° | 5058   | 7059   | 4789   |
| 45° | 146    | 2168   | 146    |
| 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: 2168 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 117.7  | 14.2      |
| 10°-20°   | 299.0  | 36.1      |
| 20°-30°   | 314.9  | 38.1      |
| 30°-40°   | 89.9   | 10.9      |
| 40°-50°   | 5.6    | 0.7       |
| 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°    | 731.5  | 88.4      |
| 0°-40°    | 821.4  | 99.3      |
| 0°-60°    | 827.0  | 100.0     |
| 0°-90°    | 827.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 827.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1284 | 1284  | 1284 | 1284  | 1284 |      |
| 5°  | 1257 | 1256  | 1254 | 1252  | 1250 | 118  |
| 15° | 1081 | 1074  | 1068 | 1070  | 1071 | 301  |
| 25° | 705  | 731   | 735  | 726   | 697  | 308  |
| 35° | 109  | 116   | 130  | 110   | 106  | 85   |
| 45° | 1    | 3     | 9    | 3     | 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°    | 1284.3 | 1284.3 | 1284.3 | 1284.3 | 1284.3 |
| 1°    | 1284.9 | 1285.4 | 1284.3 | 1285.4 | 1282.5 |
| 2°    | 1283.1 | 1281.9 | 1280.7 | 1281.3 | 1279.5 |
| 3°    | 1276.6 | 1276.0 | 1273.6 | 1274.2 | 1271.8 |
| 4°    | 1268.3 | 1266.5 | 1264.7 | 1263.6 | 1261.2 |
| 5°    | 1257.0 | 1255.9 | 1253.5 | 1252.3 | 1249.9 |
| 6°    | 1247.6 | 1245.2 | 1241.1 | 1239.9 | 1237.5 |
| 7°    | 1235.2 | 1234.0 | 1228.7 | 1227.5 | 1226.3 |
| 8°    | 1225.7 | 1222.1 | 1215.6 | 1216.2 | 1213.3 |
| 9°    | 1213.3 | 1208.5 | 1202.0 | 1202.0 | 1202.6 |
| 10°   | 1198.5 | 1191.4 | 1185.5 | 1187.2 | 1187.8 |
| 11°   | 1179.0 | 1174.2 | 1165.4 | 1169.5 | 1169.5 |
| 12°   | 1157.7 | 1151.8 | 1145.2 | 1148.8 | 1151.2 |
| 13°   | 1132.8 | 1128.1 | 1122.2 | 1125.7 | 1124.5 |
| 14°   | 1108.6 | 1099.7 | 1095.6 | 1100.3 | 1098.5 |
| 15°   | 1081.4 | 1074.3 | 1067.8 | 1069.5 | 1070.7 |
| 17.5° | 1008.6 | 1000.9 | 996.2  | 996.8  | 1002.1 |
| 20°   | 939.4  | 936.4  | 930.5  | 932.9  | 935.8  |
| 22.5° | 857.7  | 858.9  | 851.8  | 853.6  | 860.7  |
| 25°   | 705.1  | 731.2  | 734.7  | 726.4  | 697.4  |
| 27.5° | 522.3  | 561.4  | 573.2  | 554.3  | 518.8  |
| 30°   | 365.0  | 375.6  | 407.6  | 371.5  | 358.5  |
| 32.5° | 214.1  | 230.1  | 247.3  | 222.4  | 213.6  |
| 35°   | 108.8  | 116.5  | 129.5  | 110.0  | 106.5  |
| 37.5° | 50.3   | 53.8   | 59.2   | 50.3   | 47.3   |
| 40°   | 22.5   | 26.6   | 31.4   | 25.4   | 21.3   |
| 42.5° | 7.1    | 12.4   | 16.6   | 11.2   | 6.5    |
| 45°   | 0.6    | 3.0    | 8.9    | 3.0    | 0.6    |
| 47.5° | 0.0    | 0.6    | 3.5    | 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)