

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: P1326877

Luminaire Tested: LDSQA3D09R50W2N902750DE010 3LSQCDR1MB\_3000K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1326877  
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: LDSQA3D09R50W2N902750DE010 3LSQCDR1MB\_3000K  
Description: 3in Adjustable Tunable White LED luminaire with, R50 optic, 3000K CCT AND, 90CRI ,  
3LSQCDR1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

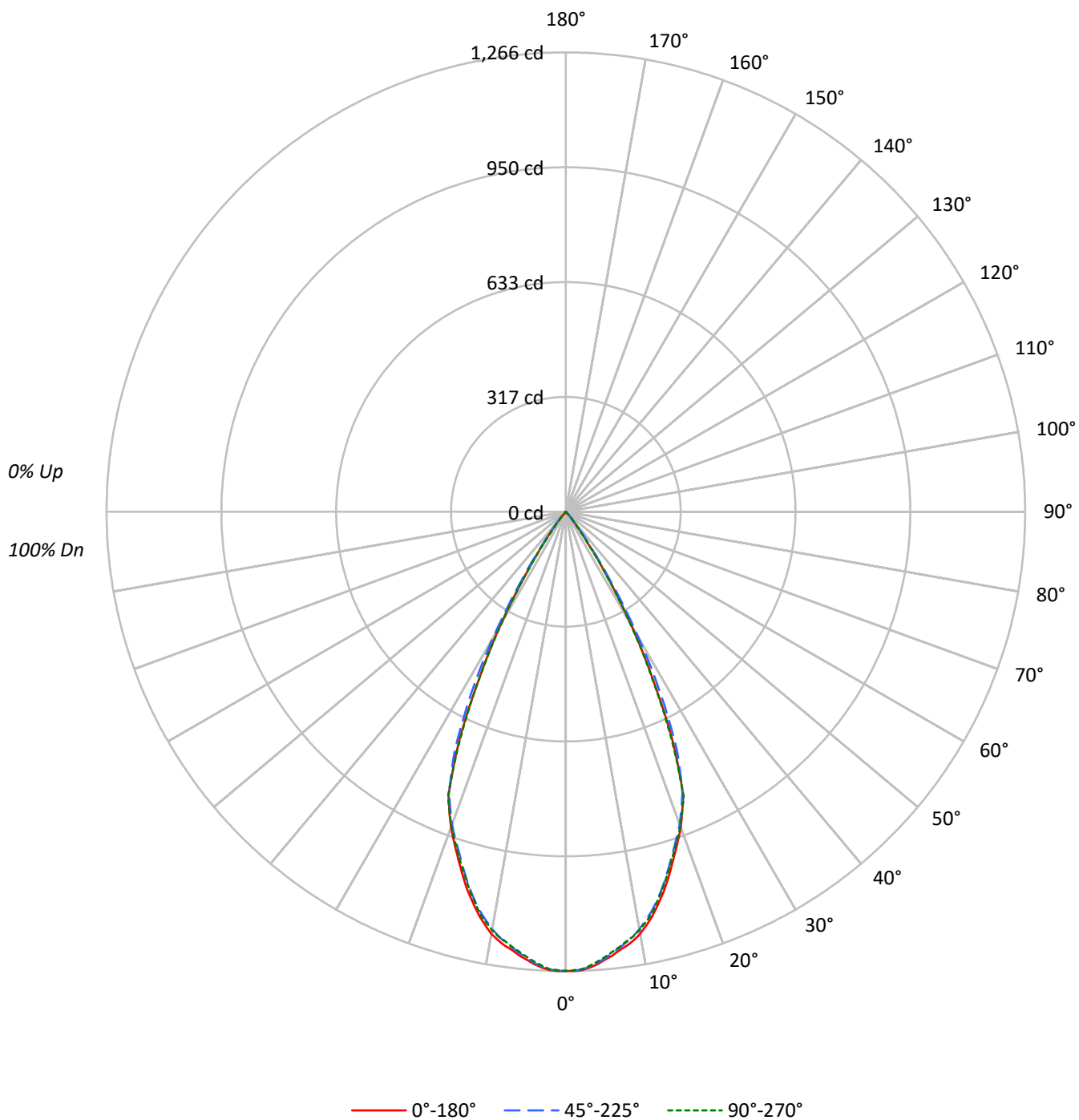
Lumens per Lamp: N/A  
Luminaire Lumens: 815.0 lumens  
Efficiency: N/A  
Efficacy: 90.6 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.78  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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°  | 217965 | 217965 | 217965 |
| 5°  | 214164 | 213559 | 212954 |
| 10° | 206550 | 204312 | 204714 |
| 15° | 190012 | 187623 | 188140 |
| 20° | 169676 | 168064 | 169035 |
| 25° | 132050 | 137579 | 130605 |
| 30° | 71532  | 79884  | 70259  |
| 35° | 22559  | 26848  | 22055  |
| 40° | 4991   | 6947   | 4721   |
| 45° | 146    | 2119   | 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: 2119 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 116.0  | 14.2      |
| 10°-20°   | 294.6  | 36.1      |
| 20°-30°   | 310.3  | 38.1      |
| 30°-40°   | 88.6   | 10.9      |
| 40°-50°   | 5.5    | 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°    | 720.9  | 88.4      |
| 0°-40°    | 809.5  | 99.3      |
| 0°-60°    | 815.0  | 100.0     |
| 0°-90°    | 815.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 815.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1266 | 1266  | 1266 | 1266  | 1266 |      |
| 5°  | 1239 | 1238  | 1235 | 1234  | 1232 | 116  |
| 15° | 1066 | 1059  | 1052 | 1054  | 1055 | 297  |
| 25° | 695  | 720   | 724  | 716   | 687  | 304  |
| 35° | 107  | 115   | 128  | 108   | 105  | 84   |
| 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    |      |

TEST NUMBER: P1326877

CATALOG NUMBER: LDSQA3D09R50W2N902750DE010 3LSQCDR1MB\_3000K

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1265.6 | 1265.6 | 1265.6 | 1265.6 | 1265.6 |
| 1°    | 1266.2 | 1266.8 | 1265.6 | 1266.8 | 1263.9 |
| 2°    | 1264.5 | 1263.3 | 1262.1 | 1262.7 | 1261.0 |
| 3°    | 1258.0 | 1257.5 | 1255.1 | 1255.7 | 1253.4 |
| 4°    | 1249.9 | 1248.1 | 1246.4 | 1245.2 | 1242.9 |
| 5°    | 1238.8 | 1237.6 | 1235.3 | 1234.1 | 1231.8 |
| 6°    | 1229.5 | 1227.1 | 1223.1 | 1221.9 | 1219.6 |
| 7°    | 1217.2 | 1216.1 | 1210.8 | 1209.7 | 1208.5 |
| 8°    | 1207.9 | 1204.4 | 1198.0 | 1198.6 | 1195.7 |
| 9°    | 1195.7 | 1191.0 | 1184.6 | 1184.6 | 1185.2 |
| 10°   | 1181.1 | 1174.1 | 1168.3 | 1170.0 | 1170.6 |
| 11°   | 1161.9 | 1157.2 | 1148.4 | 1152.5 | 1152.5 |
| 12°   | 1140.9 | 1135.0 | 1128.6 | 1132.1 | 1134.5 |
| 13°   | 1116.4 | 1111.7 | 1105.9 | 1109.4 | 1108.2 |
| 14°   | 1092.5 | 1083.7 | 1079.7 | 1084.3 | 1082.6 |
| 15°   | 1065.7 | 1058.7 | 1052.3 | 1054.0 | 1055.2 |
| 17.5° | 994.0  | 986.4  | 981.7  | 982.3  | 987.5  |
| 20°   | 925.8  | 922.8  | 917.0  | 919.3  | 922.3  |
| 22.5° | 845.3  | 846.5  | 839.5  | 841.2  | 848.2  |
| 25°   | 694.9  | 720.5  | 724.0  | 715.9  | 687.3  |
| 27.5° | 514.8  | 553.2  | 564.9  | 546.2  | 511.3  |
| 30°   | 359.7  | 370.2  | 401.7  | 366.1  | 353.3  |
| 32.5° | 211.0  | 226.8  | 243.7  | 219.2  | 210.5  |
| 35°   | 107.3  | 114.8  | 127.7  | 108.4  | 104.9  |
| 37.5° | 49.6   | 53.1   | 58.3   | 49.6   | 46.6   |
| 40°   | 22.2   | 26.2   | 30.9   | 25.1   | 21.0   |
| 42.5° | 7.0    | 12.2   | 16.3   | 11.1   | 6.4    |
| 45°   | 0.6    | 2.9    | 8.7    | 2.9    | 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)