

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: P1326841

Luminaire Tested: LDSQA3D09R45W2N902765DE010 3LSQCDR1MW\_3000K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1326841  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-44)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R45W2N902765DE010 3LSQCDR1MW\_3000K  
Description: 3in Adjustable Tunable White LED luminaire with, R45 optic, 3000K CCT AND, 90CRI ,  
3LSQCDR1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

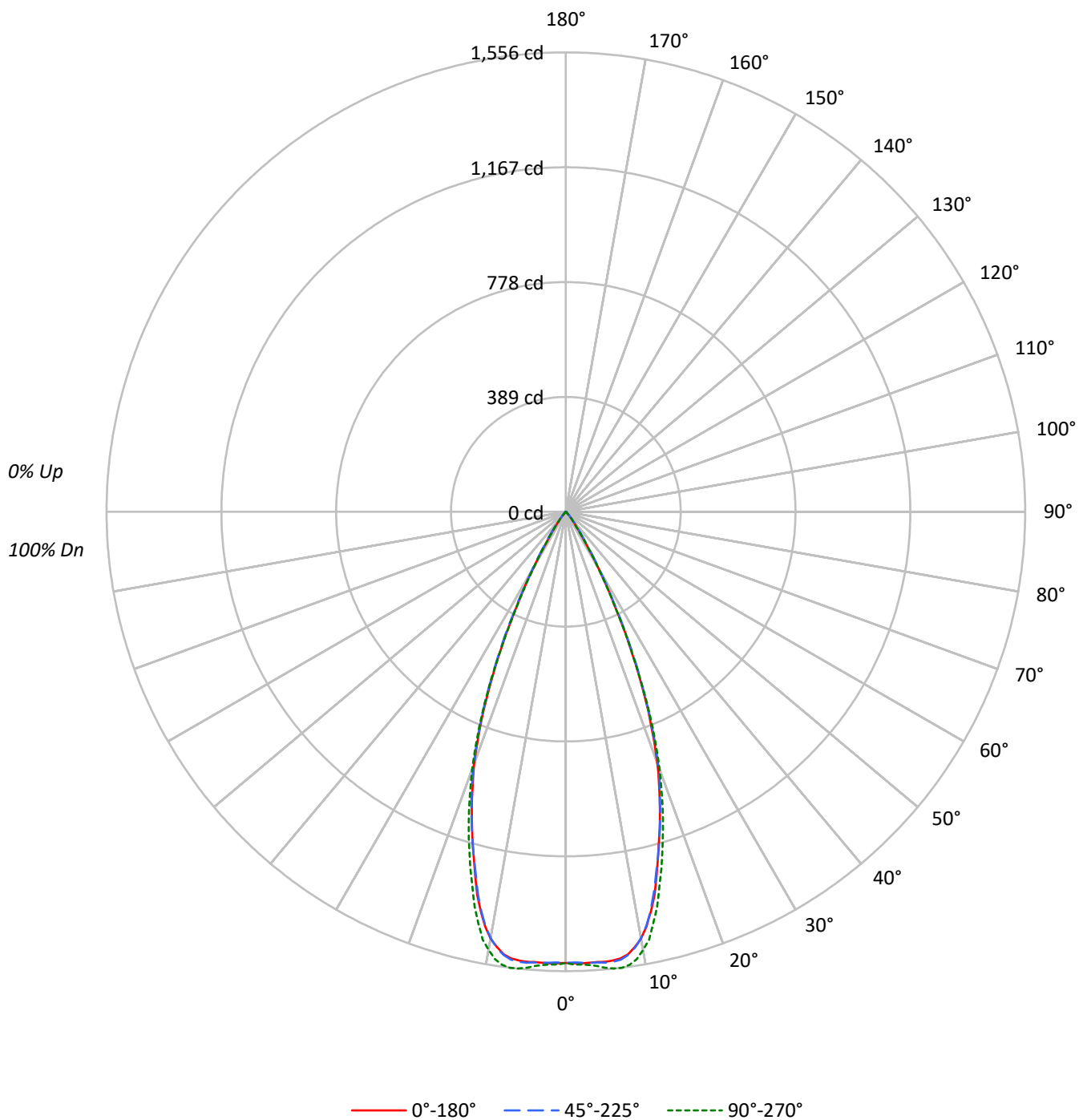
Lumens per Lamp: N/A  
Luminaire Lumens: 791.0 lumens  
Efficiency: N/A  
Efficacy: 87.9 lumens/watt  
Spacing Criteria (0/90/45): 0.72 / 0.73 / 0.67  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 263208 | 263208 | 263208 |
| 5°  | 264524 | 265026 | 268051 |
| 10° | 256671 | 256461 | 263596 |
| 15° | 215099 | 215010 | 222908 |
| 20° | 166286 | 167990 | 170355 |
| 25° | 101949 | 104040 | 102158 |
| 30° | 43711  | 45679  | 42319  |
| 35° | 13729  | 16546  | 13372  |
| 40° | 4721   | 6025   | 4586   |
| 45° | 852    | 2557   | 706    |
| 50° | 455    | 938    | 455    |
| 55° | 510    | 510    | 510    |
| 60° | 413    | 413    | 413    |
| 65° | 489    | 489    | 489    |
| 70° | 302    | 302    | 302    |
| 75° | 399    | 399    | 399    |
| 80° | 595    | 595    | 595    |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 2557 cd/sqm

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CATALOG NUMBER: LDSQA3D09R45W2N902765DE010 3LSQCDR1MW\_3000K

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 145.3  | 18.4      |
| 10°-20°   | 335.6  | 42.4      |
| 20°-30°   | 245.7  | 31.1      |
| 30°-40°   | 54.3   | 6.9       |
| 40°-50°   | 6.6    | 0.8       |
| 50°-60°   | 1.5    | 0.2       |
| 60°-70°   | 1.1    | 0.1       |
| 70°-80°   | 0.7    | 0.1       |
| 80°-90°   | 0.1    | 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°    | 726.6  | 91.9      |
| 0°-40°    | 780.9  | 98.7      |
| 0°-60°    | 789.1  | 99.8      |
| 0°-90°    | 791.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 791.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1528 | 1528  | 1528 | 1528  | 1528 |      |
| 5°  | 1530 | 1529  | 1533 | 1544  | 1550 | 144  |
| 15° | 1206 | 1200  | 1206 | 1235  | 1250 | 333  |
| 25° | 536  | 536   | 548  | 544   | 538  | 243  |
| 35° | 65   | 69    | 79   | 69    | 64   | 52   |
| 45° | 4    | 6     | 10   | 6     | 3    | 5    |
| 55° | 2    | 2     | 2    | 2     | 2    | 1    |
| 65° | 1    | 1     | 1    | 1     | 1    | 1    |
| 75° | 1    | 1     | 1    | 1     | 1    | 1    |
| 85° | 0    | 0     | 0    | 0     | 0    | 0    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

TEST NUMBER: P1326841

CATALOG NUMBER: LDSQA3D09R45W2N902765DE010 3LSQCDR1MW\_3000K

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1528.3 | 1528.3 | 1528.3 | 1528.3 | 1528.3 |
| 1°    | 1529.5 | 1527.2 | 1526.6 | 1530.7 | 1533.6 |
| 2°    | 1530.7 | 1527.7 | 1528.3 | 1532.4 | 1534.2 |
| 3°    | 1529.5 | 1526.6 | 1529.5 | 1535.3 | 1537.6 |
| 4°    | 1528.9 | 1527.7 | 1530.7 | 1538.8 | 1542.9 |
| 5°    | 1530.1 | 1528.9 | 1533.0 | 1544.1 | 1550.5 |
| 6°    | 1528.3 | 1526.6 | 1532.4 | 1546.4 | 1555.7 |
| 7°    | 1524.2 | 1522.5 | 1528.9 | 1545.8 | 1556.3 |
| 8°    | 1513.2 | 1509.7 | 1516.1 | 1537.1 | 1549.9 |
| 9°    | 1493.3 | 1488.7 | 1495.1 | 1519.6 | 1534.7 |
| 10°   | 1467.7 | 1462.4 | 1466.5 | 1490.4 | 1507.3 |
| 11°   | 1430.9 | 1423.9 | 1428.6 | 1454.3 | 1476.4 |
| 12°   | 1384.3 | 1374.4 | 1380.2 | 1409.4 | 1425.1 |
| 13°   | 1333.6 | 1324.2 | 1325.4 | 1351.6 | 1373.8 |
| 14°   | 1270.6 | 1258.3 | 1263.6 | 1291.0 | 1308.5 |
| 15°   | 1206.4 | 1200.0 | 1205.9 | 1235.0 | 1250.2 |
| 17.5° | 1059.5 | 1058.9 | 1064.2 | 1085.7 | 1093.9 |
| 20°   | 907.3  | 909.1  | 916.6  | 928.3  | 929.5  |
| 22.5° | 727.1  | 727.7  | 735.9  | 744.0  | 742.3  |
| 25°   | 536.5  | 535.9  | 547.5  | 543.5  | 537.6  |
| 27.5° | 355.7  | 358.0  | 368.5  | 360.9  | 355.1  |
| 30°   | 219.8  | 224.5  | 229.7  | 220.4  | 212.8  |
| 32.5° | 119.0  | 126.5  | 134.1  | 126.0  | 118.4  |
| 35°   | 65.3   | 68.8   | 78.7   | 68.8   | 63.6   |
| 37.5° | 37.9   | 39.7   | 46.1   | 39.7   | 36.2   |
| 40°   | 21.0   | 23.9   | 26.8   | 23.9   | 20.4   |
| 42.5° | 8.7    | 13.4   | 16.3   | 13.4   | 8.7    |
| 45°   | 3.5    | 5.8    | 10.5   | 5.8    | 2.9    |
| 47.5° | 1.7    | 2.3    | 6.4    | 2.3    | 1.7    |
| 50°   | 1.7    | 1.7    | 3.5    | 1.7    | 1.7    |
| 52.5° | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    |
| 55°   | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    |
| 57.5° | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    |
| 60°   | 1.2    | 1.2    | 1.2    | 1.7    | 1.2    |
| 62.5° | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    |
| 65°   | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    |
| 67.5° | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    |
| 70°   | 0.6    | 0.6    | 0.6    | 1.2    | 0.6    |
| 72.5° | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    |
| 75°   | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    |
| 77.5° | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    |
| 80°   | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    |
| 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)