

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: P1326845

Luminaire Tested: LDSQA3D09R45W2N902765DE010 3LSQCDR1MW\_6500K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1326845  
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\_6500K  
Description: 3in Adjustable Tunable White LED luminaire with, R45 optic, 6500K CCT AND, 90CRI ,  
3LSQCDR1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

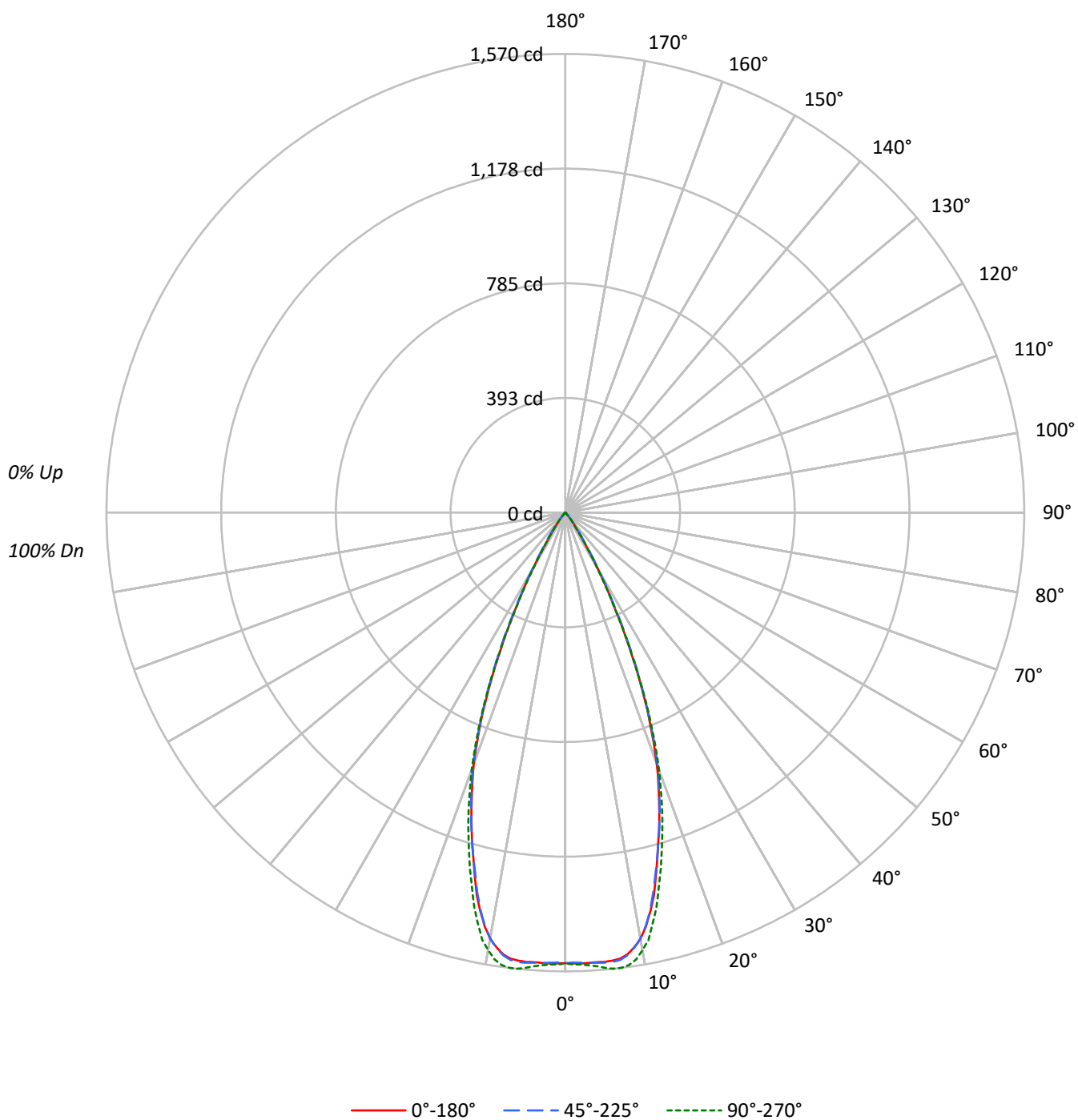
Lumens per Lamp: N/A  
Luminaire Lumens: 798.1 lumens  
Efficiency: N/A  
Efficacy: 88.7 lumens/watt  
Spacing Criteria (0/90/45): 0.72 / 0.73 / 0.67  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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  | 86  | 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  | 69  | 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°  | 265533 | 265533 | 265533 |
| 5°  | 266858 | 267377 | 270420 |
| 10° | 258944 | 258734 | 265939 |
| 15° | 217006 | 216900 | 224869 |
| 20° | 167752 | 169493 | 171857 |
| 25° | 102842 | 104971 | 103070 |
| 30° | 44108  | 46097  | 42696  |
| 35° | 13855  | 16693  | 13477  |
| 40° | 4766   | 6093   | 4631   |
| 45° | 852    | 2582   | 706    |
| 50° | 482    | 938    | 482    |
| 55° | 540    | 540    | 540    |
| 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: 2582 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 146.5  | 18.4      |
| 10°-20°   | 338.6  | 42.4      |
| 20°-30°   | 247.9  | 31.1      |
| 30°-40°   | 54.8   | 6.9       |
| 40°-50°   | 6.7    | 0.8       |
| 50°-60°   | 1.6    | 0.2       |
| 60°-70°   | 1.2    | 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       |
| 0°-30°    | 733.1  | 91.9      |
| 0°-40°    | 787.9  | 98.7      |
| 0°-60°    | 796.2  | 99.8      |
| 0°-90°    | 798.1  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 798.1  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1542 | 1542  | 1542 | 1542  | 1542 |      |
| 5°  | 1544 | 1542  | 1547 | 1558  | 1564 | 146  |
| 15° | 1217 | 1211  | 1216 | 1246  | 1261 | 336  |
| 25° | 541  | 541   | 552  | 548   | 542  | 245  |
| 35° | 66   | 69    | 79   | 69    | 64   | 52   |
| 45° | 4    | 6     | 11   | 6     | 3    | 5    |
| 55° | 2    | 2     | 2    | 2     | 2    | 2    |
| 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    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1541.8 | 1541.8 | 1541.8 | 1541.8 | 1541.8 |
| 1°    | 1543.0 | 1540.7 | 1540.1 | 1544.2 | 1547.1 |
| 2°    | 1544.2 | 1541.3 | 1541.8 | 1546.0 | 1547.7 |
| 3°    | 1543.0 | 1540.1 | 1543.0 | 1548.9 | 1551.3 |
| 4°    | 1542.4 | 1541.3 | 1544.2 | 1552.4 | 1556.6 |
| 5°    | 1543.6 | 1542.4 | 1546.6 | 1557.7 | 1564.2 |
| 6°    | 1541.8 | 1540.1 | 1546.0 | 1560.1 | 1569.5 |
| 7°    | 1537.7 | 1536.0 | 1542.4 | 1559.5 | 1570.1 |
| 8°    | 1526.6 | 1523.0 | 1529.5 | 1550.7 | 1563.6 |
| 9°    | 1506.5 | 1501.8 | 1508.3 | 1533.0 | 1548.3 |
| 10°   | 1480.7 | 1475.4 | 1479.5 | 1503.6 | 1520.7 |
| 11°   | 1443.6 | 1436.5 | 1441.3 | 1467.1 | 1489.5 |
| 12°   | 1396.5 | 1386.5 | 1392.4 | 1421.8 | 1437.7 |
| 13°   | 1345.4 | 1336.0 | 1337.1 | 1363.6 | 1386.0 |
| 14°   | 1281.8 | 1269.5 | 1274.8 | 1302.4 | 1320.1 |
| 15°   | 1217.1 | 1210.7 | 1216.5 | 1245.9 | 1261.2 |
| 17.5° | 1068.9 | 1068.3 | 1073.6 | 1095.4 | 1103.6 |
| 20°   | 915.3  | 917.1  | 924.8  | 936.5  | 937.7  |
| 22.5° | 733.6  | 734.2  | 742.4  | 750.6  | 748.9  |
| 25°   | 541.2  | 540.6  | 552.4  | 548.3  | 542.4  |
| 27.5° | 358.8  | 361.2  | 371.8  | 364.1  | 358.3  |
| 30°   | 221.8  | 226.5  | 231.8  | 222.4  | 214.7  |
| 32.5° | 120.0  | 127.7  | 135.3  | 127.1  | 119.4  |
| 35°   | 65.9   | 69.4   | 79.4   | 69.4   | 64.1   |
| 37.5° | 38.2   | 40.0   | 46.5   | 40.0   | 36.5   |
| 40°   | 21.2   | 24.1   | 27.1   | 24.1   | 20.6   |
| 42.5° | 8.8    | 13.5   | 16.5   | 13.5   | 8.8    |
| 45°   | 3.5    | 5.9    | 10.6   | 5.9    | 2.9    |
| 47.5° | 1.8    | 2.4    | 6.5    | 2.4    | 1.8    |
| 50°   | 1.8    | 1.8    | 3.5    | 1.8    | 1.8    |
| 52.5° | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    |
| 55°   | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    |
| 57.5° | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    |
| 60°   | 1.2    | 1.2    | 1.2    | 1.8    | 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)