

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: P1326789

Luminaire Tested: LDSQA3D09R45W2N902750DE010 3LSQCDR1MW\_3500K

Issue Date: 1/29/2026

**Test Information**

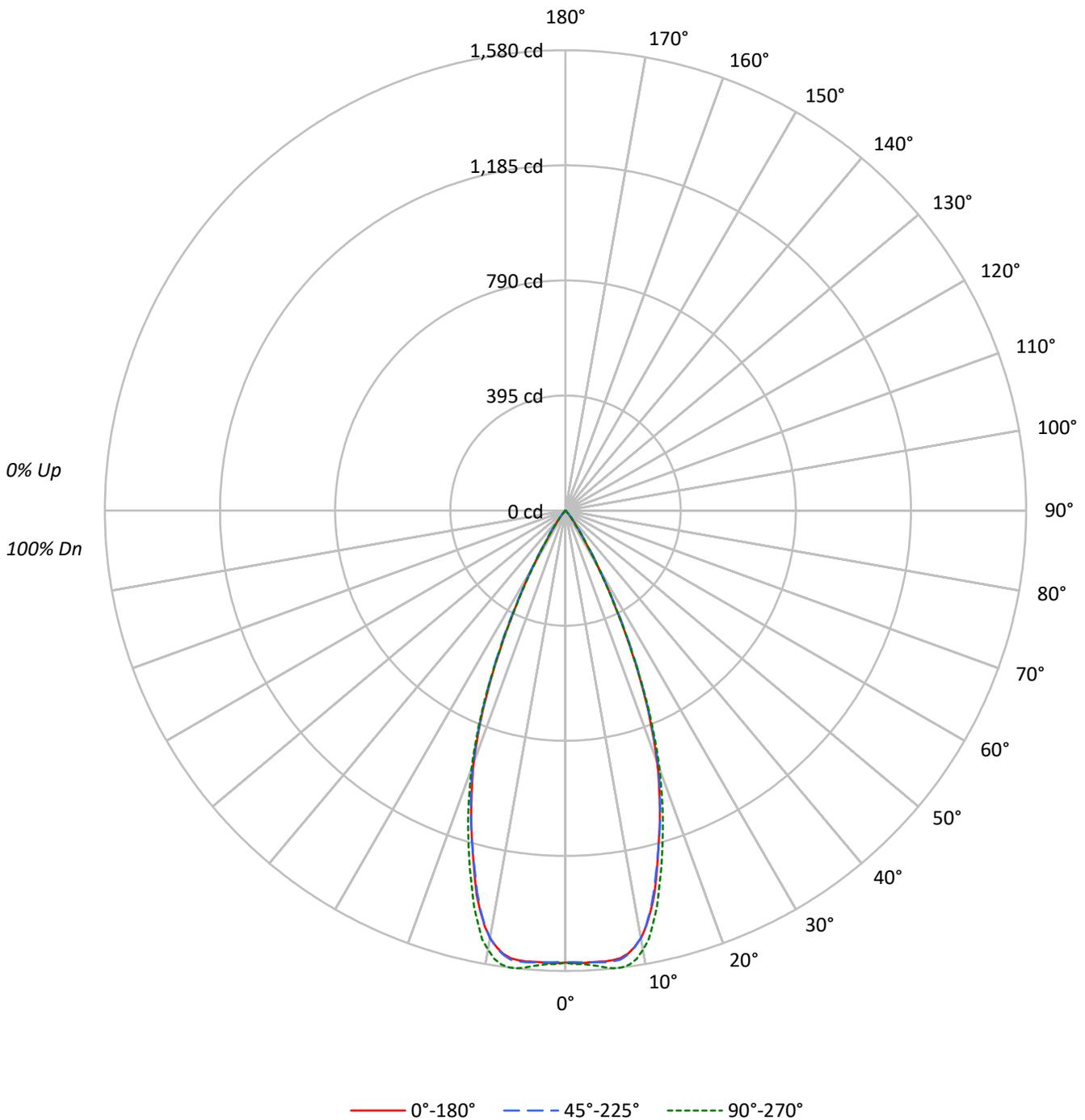
Test Method: LM-79-2019  
Report Number: P1326789  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-44)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R45W2N902750DE010 3LSQCDR1MW\_3500K  
Description: 3in Adjustable Tunable White LED luminaire with, R45 optic, 3500K CCT AND, 90CRI ,  
3LSQCDR1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 803.1 lumens  
Efficiency: N/A  
Efficacy: 89.2 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 (A<sub>in</sub>): 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  |     |     | 0   |     |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 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  | 97  | 95  |
| 2   | 110 | 106 | 102 | 99  | 108 | 104 | 101 | 98  | 101 | 98  | 96  | 98  | 96  | 94  | 95  | 94  | 92  | 92  | 92  | 92  | 91  |
| 3   | 106 | 100 | 96  | 93  | 104 | 99  | 95  | 92  | 96  | 93  | 91  | 94  | 91  | 89  | 92  | 90  | 88  | 88  | 88  | 88  | 86  |
| 4   | 101 | 95  | 91  | 87  | 100 | 94  | 90  | 87  | 92  | 88  | 86  | 90  | 87  | 85  | 88  | 86  | 84  | 84  | 84  | 84  | 82  |
| 5   | 98  | 91  | 86  | 82  | 96  | 90  | 85  | 82  | 88  | 84  | 81  | 86  | 83  | 81  | 85  | 82  | 80  | 80  | 80  | 80  | 79  |
| 6   | 94  | 86  | 82  | 78  | 93  | 86  | 81  | 78  | 84  | 80  | 77  | 83  | 79  | 77  | 82  | 79  | 76  | 76  | 76  | 76  | 75  |
| 7   | 90  | 83  | 78  | 74  | 89  | 82  | 77  | 74  | 81  | 77  | 74  | 80  | 76  | 73  | 79  | 75  | 73  | 73  | 73  | 73  | 72  |
| 8   | 87  | 79  | 74  | 71  | 86  | 79  | 74  | 71  | 78  | 73  | 70  | 77  | 73  | 70  | 76  | 72  | 70  | 70  | 70  | 70  | 69  |
| 9   | 84  | 76  | 71  | 68  | 83  | 75  | 71  | 68  | 75  | 70  | 67  | 74  | 70  | 67  | 73  | 69  | 67  | 67  | 67  | 67  | 66  |
| 10  | 81  | 73  | 68  | 65  | 80  | 72  | 68  | 65  | 72  | 67  | 65  | 71  | 67  | 64  | 70  | 67  | 64  | 64  | 64  | 64  | 63  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 267203 | 267203 | 267203 |
| 5°  | 268535 | 269037 | 272114 |
| 10° | 260553 | 260361 | 267601 |
| 15° | 218362 | 218272 | 226278 |
| 20° | 168815 | 170538 | 172939 |
| 25° | 103489 | 105617 | 103717 |
| 30° | 44387  | 46375  | 42975  |
| 35° | 13939  | 16799  | 13561  |
| 40° | 4789   | 6115   | 4654   |
| 45° | 877    | 2606   | 731    |
| 50° | 482    | 965    | 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: 2606 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 147.5  | 18.4      |
| 10°-20°   | 340.7  | 42.4      |
| 20°-30°   | 249.5  | 31.1      |
| 30°-40°   | 55.1   | 6.9       |
| 40°-50°   | 6.8    | 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°    | 737.7  | 91.9      |
| 0°-40°    | 792.8  | 98.7      |
| 0°-60°    | 801.2  | 99.8      |
| 0°-90°    | 803.1  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 803.1  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1552 | 1552  | 1552 | 1552  | 1552 |      |
| 5°  | 1553 | 1552  | 1556 | 1568  | 1574 | 147  |
| 15° | 1225 | 1218  | 1224 | 1254  | 1269 | 338  |
| 25° | 545  | 544   | 556  | 552   | 546  | 247  |
| 35° | 66   | 70    | 80   | 70    | 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    | 0    |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1551.5 | 1551.5 | 1551.5 | 1551.5 | 1551.5 |
| 1°    | 1552.7 | 1550.3 | 1549.7 | 1553.9 | 1556.8 |
| 2°    | 1553.9 | 1550.9 | 1551.5 | 1555.6 | 1557.4 |
| 3°    | 1552.7 | 1549.7 | 1552.7 | 1558.6 | 1561.0 |
| 4°    | 1552.1 | 1550.9 | 1553.9 | 1562.2 | 1566.3 |
| 5°    | 1553.3 | 1552.1 | 1556.2 | 1567.5 | 1574.0 |
| 6°    | 1551.5 | 1549.7 | 1555.6 | 1569.9 | 1579.3 |
| 7°    | 1547.4 | 1545.6 | 1552.1 | 1569.3 | 1579.9 |
| 8°    | 1536.1 | 1532.6 | 1539.1 | 1560.4 | 1573.4 |
| 9°    | 1516.0 | 1511.3 | 1517.8 | 1542.6 | 1558.0 |
| 10°   | 1489.9 | 1484.6 | 1488.8 | 1513.0 | 1530.2 |
| 11°   | 1452.6 | 1445.5 | 1450.3 | 1476.3 | 1498.8 |
| 12°   | 1405.3 | 1395.2 | 1401.1 | 1430.7 | 1446.7 |
| 13°   | 1353.8 | 1344.3 | 1345.5 | 1372.1 | 1394.6 |
| 14°   | 1289.9 | 1277.4 | 1282.8 | 1310.6 | 1328.3 |
| 15°   | 1224.7 | 1218.2 | 1224.2 | 1253.8 | 1269.1 |
| 17.5° | 1075.6 | 1075.0 | 1080.3 | 1102.2 | 1110.5 |
| 20°   | 921.1  | 922.9  | 930.5  | 942.4  | 943.6  |
| 22.5° | 738.2  | 738.8  | 747.0  | 755.3  | 753.6  |
| 25°   | 544.6  | 544.0  | 555.8  | 551.7  | 545.8  |
| 27.5° | 361.1  | 363.5  | 374.1  | 366.4  | 360.5  |
| 30°   | 223.2  | 227.9  | 233.2  | 223.8  | 216.1  |
| 32.5° | 120.8  | 128.5  | 136.1  | 127.9  | 120.2  |
| 35°   | 66.3   | 69.9   | 79.9   | 69.9   | 64.5   |
| 37.5° | 38.5   | 40.3   | 46.8   | 40.3   | 36.7   |
| 40°   | 21.3   | 24.3   | 27.2   | 24.3   | 20.7   |
| 42.5° | 8.9    | 13.6   | 16.6   | 13.6   | 8.9    |
| 45°   | 3.6    | 5.9    | 10.7   | 5.9    | 3.0    |
| 47.5° | 1.8    | 2.4    | 6.5    | 2.4    | 1.8    |
| 50°   | 1.8    | 1.8    | 3.6    | 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)