

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: P1325904

Luminaire Tested: LDSQA3D09R15W2N902765DE010 3LSQPHRL1MMS\_2700K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1325904  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R15W2N902765DE010 3LSQPHRL1MMS\_2700K  
Description: 3in Adjustable Tunable White LED luminaire with, R15 optic, 2700K CCT AND, 90CRI ,  
3LSQPHRL1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

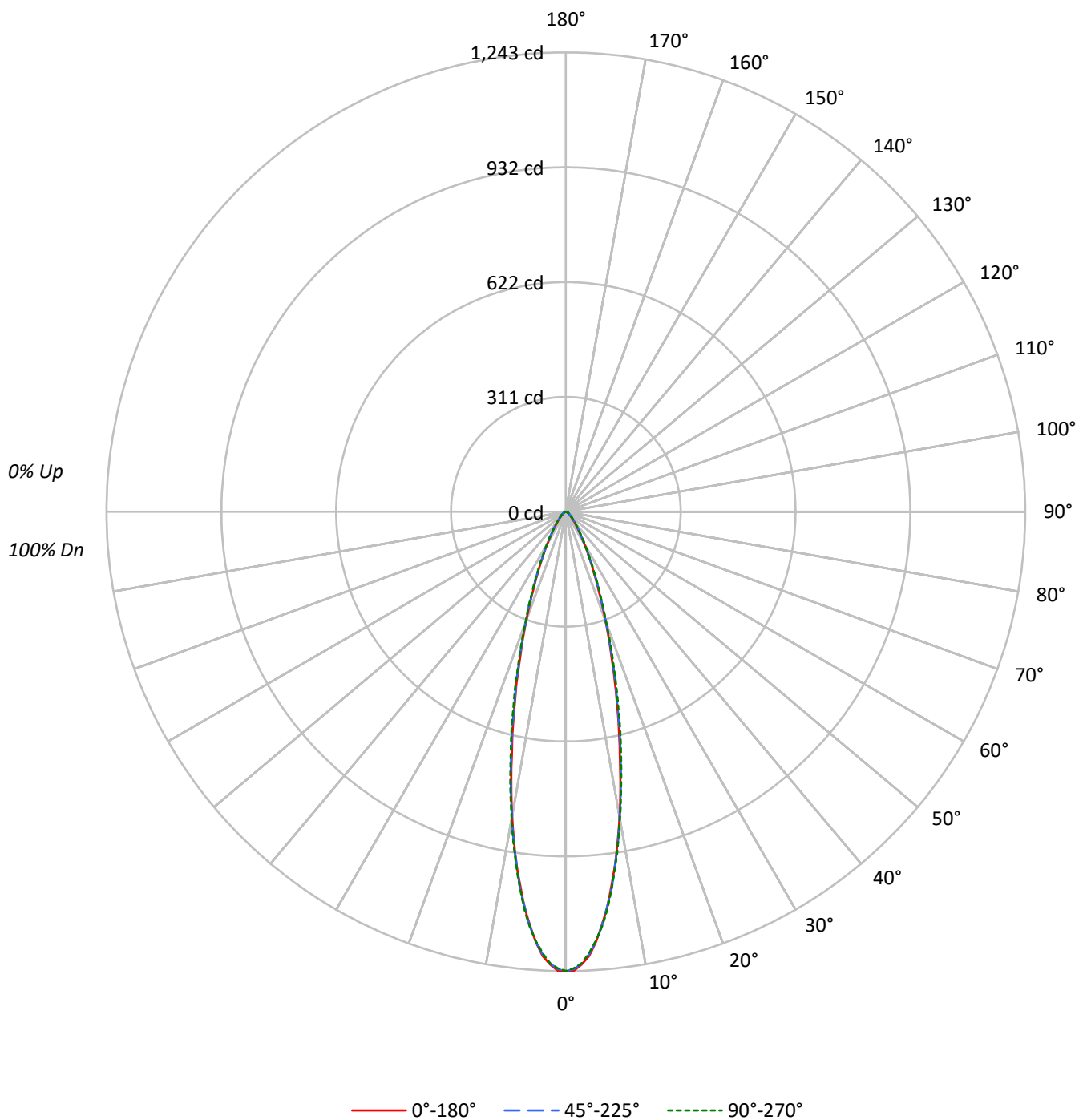
Lumens per Lamp: N/A  
Luminaire Lumens: 411.0 lumens  
Efficiency: N/A  
Efficacy: 45.7 lumens/watt  
Spacing Criteria (0/90/45): 0.45 / 0.46 / 0.48  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 | 101 | 100 | 99  | 98  | 97  | 96  | 96  | 96  | 94  |
| 2   | 109 | 104 | 101 | 97  | 107 | 103 | 99  | 96  | 99  | 97  | 94  | 97  | 94  | 92  | 94  | 92  | 90  | 90  | 90  | 89  |
| 3   | 104 | 98  | 94  | 90  | 102 | 97  | 93  | 89  | 94  | 91  | 88  | 92  | 89  | 87  | 90  | 87  | 85  | 85  | 85  | 84  |
| 4   | 100 | 93  | 88  | 84  | 98  | 92  | 87  | 84  | 90  | 86  | 83  | 88  | 85  | 82  | 86  | 83  | 81  | 81  | 81  | 80  |
| 5   | 96  | 88  | 83  | 79  | 94  | 87  | 83  | 79  | 86  | 82  | 78  | 84  | 80  | 78  | 83  | 79  | 77  | 77  | 77  | 76  |
| 6   | 92  | 84  | 79  | 75  | 91  | 83  | 78  | 75  | 82  | 78  | 74  | 81  | 77  | 74  | 79  | 76  | 73  | 73  | 73  | 72  |
| 7   | 88  | 80  | 75  | 71  | 87  | 80  | 75  | 71  | 79  | 74  | 71  | 77  | 74  | 71  | 76  | 73  | 70  | 70  | 70  | 69  |
| 8   | 85  | 77  | 72  | 68  | 84  | 76  | 72  | 68  | 75  | 71  | 68  | 74  | 70  | 68  | 74  | 70  | 67  | 67  | 67  | 66  |
| 9   | 82  | 74  | 69  | 65  | 81  | 73  | 69  | 65  | 73  | 68  | 65  | 72  | 68  | 65  | 71  | 67  | 65  | 65  | 65  | 64  |
| 10  | 79  | 71  | 66  | 63  | 78  | 71  | 66  | 63  | 70  | 66  | 63  | 69  | 65  | 62  | 69  | 65  | 62  | 62  | 62  | 61  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 214038 | 214038 | 214038 |
| 5°  | 193885 | 194249 | 194525 |
| 10° | 146374 | 146741 | 147476 |
| 15° | 94944  | 95978  | 97868  |
| 20° | 57164  | 57842  | 58612  |
| 25° | 33388  | 34091  | 34604  |
| 30° | 19628  | 20264  | 20563  |
| 35° | 12089  | 12531  | 12762  |
| 40° | 7959   | 8183   | 8296   |
| 45° | 5529   | 5651   | 5772   |
| 50° | 4099   | 4233   | 4394   |
| 55° | 3333   | 3483   | 3483   |
| 60° | 2893   | 2893   | 2893   |
| 65° | 2567   | 2567   | 2567   |
| 70° | 2115   | 2367   | 2367   |
| 75° | 2129   | 2129   | 2129   |
| 80° | 1587   | 2083   | 2083   |
| 85° | 988    | 988    | 988    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 67.5°

Vertical Angle: 45°

Luminance: 5772 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 97.9   | 23.8      |
| 10°-20°   | 149.7  | 36.4      |
| 20°-30°   | 85.1   | 20.7      |
| 30°-40°   | 38.8   | 9.4       |
| 40°-50°   | 18.6   | 4.5       |
| 50°-60°   | 10.4   | 2.5       |
| 60°-70°   | 6.4    | 1.5       |
| 70°-80°   | 3.4    | 0.8       |
| 80°-90°   | 0.7    | 0.2       |
| 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°    | 332.7  | 80.9      |
| 0°-40°    | 371.5  | 90.4      |
| 0°-60°    | 400.5  | 97.5      |
| 0°-90°    | 411.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 411.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1243 | 1243  | 1243 | 1243  | 1243 |      |
| 5°  | 1122 | 1121  | 1124 | 1124  | 1125 | 98   |
| 15° | 532  | 535   | 538  | 546   | 549  | 148  |
| 25° | 176  | 176   | 179  | 181   | 182  | 83   |
| 35° | 58   | 59    | 60   | 61    | 61   | 38   |
| 45° | 23   | 23    | 23   | 24    | 24   | 18   |
| 55° | 11   | 11    | 12   | 12    | 12   | 10   |
| 65° | 6    | 6     | 6    | 6     | 6    | 6    |
| 75° | 3    | 3     | 3    | 3     | 3    | 3    |
| 85° | 0    | 0     | 0    | 0     | 0    | 1    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1242.8 | 1242.8 | 1242.8 | 1242.8 | 1242.8 |
| 1°    | 1241.8 | 1238.6 | 1237.6 | 1237.0 | 1236.0 |
| 2°    | 1225.9 | 1223.3 | 1222.8 | 1222.8 | 1222.3 |
| 3°    | 1203.8 | 1199.0 | 1199.6 | 1198.0 | 1196.4 |
| 4°    | 1166.3 | 1164.2 | 1165.3 | 1166.3 | 1164.2 |
| 5°    | 1121.5 | 1120.9 | 1123.6 | 1123.6 | 1125.2 |
| 6°    | 1075.0 | 1074.5 | 1072.9 | 1077.1 | 1079.2 |
| 7°    | 1015.9 | 1019.1 | 1023.3 | 1021.2 | 1022.8 |
| 8°    | 962.1  | 958.4  | 960.0  | 965.2  | 965.8  |
| 9°    | 898.7  | 896.1  | 903.0  | 905.1  | 905.6  |
| 10°   | 837.0  | 839.6  | 839.1  | 846.5  | 843.3  |
| 12.5° | 676.0  | 680.3  | 685.0  | 688.2  | 691.3  |
| 15°   | 532.5  | 535.1  | 538.3  | 545.7  | 548.9  |
| 17.5° | 409.5  | 412.7  | 415.9  | 422.2  | 423.3  |
| 20°   | 311.9  | 313.5  | 315.6  | 321.4  | 319.8  |
| 22.5° | 233.3  | 235.9  | 238.0  | 240.7  | 242.2  |
| 25°   | 175.7  | 175.7  | 179.4  | 181.0  | 182.1  |
| 27.5° | 130.9  | 131.9  | 134.6  | 136.7  | 136.2  |
| 30°   | 98.7   | 100.3  | 101.9  | 102.9  | 103.4  |
| 32.5° | 76.0   | 76.0   | 77.6   | 79.2   | 79.7   |
| 35°   | 57.5   | 58.6   | 59.6   | 60.7   | 60.7   |
| 37.5° | 44.9   | 45.4   | 46.4   | 47.0   | 47.0   |
| 40°   | 35.4   | 35.4   | 36.4   | 36.9   | 36.9   |
| 42.5° | 28.0   | 28.5   | 29.0   | 29.6   | 29.6   |
| 45°   | 22.7   | 22.7   | 23.2   | 23.7   | 23.7   |
| 47.5° | 18.5   | 18.5   | 19.0   | 19.5   | 19.5   |
| 50°   | 15.3   | 15.8   | 15.8   | 16.4   | 16.4   |
| 52.5° | 13.2   | 13.2   | 13.2   | 13.7   | 13.7   |
| 55°   | 11.1   | 11.1   | 11.6   | 11.6   | 11.6   |
| 57.5° | 9.5    | 9.5    | 9.5    | 10.0   | 10.0   |
| 60°   | 8.4    | 8.4    | 8.4    | 8.4    | 8.4    |
| 62.5° | 7.4    | 7.4    | 7.4    | 7.4    | 7.4    |
| 65°   | 6.3    | 6.3    | 6.3    | 6.3    | 6.3    |
| 67.5° | 5.3    | 5.3    | 5.3    | 5.8    | 5.8    |
| 70°   | 4.2    | 4.7    | 4.7    | 4.7    | 4.7    |
| 72.5° | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    |
| 75°   | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    |
| 77.5° | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    |
| 80°   | 1.6    | 2.1    | 2.1    | 2.1    | 2.1    |
| 82.5° | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    |
| 85°   | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.5    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)