

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: P1312342

Luminaire Tested: LDSQA3D09R159050DE010 3LSQCDR1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1312342  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R159050DE010 3LSQCDR1MMS  
Description: 3in Adjustable LED luminaire with, R15 optic, 5000K CCT AND, 90CRI , 3LSQCDR1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

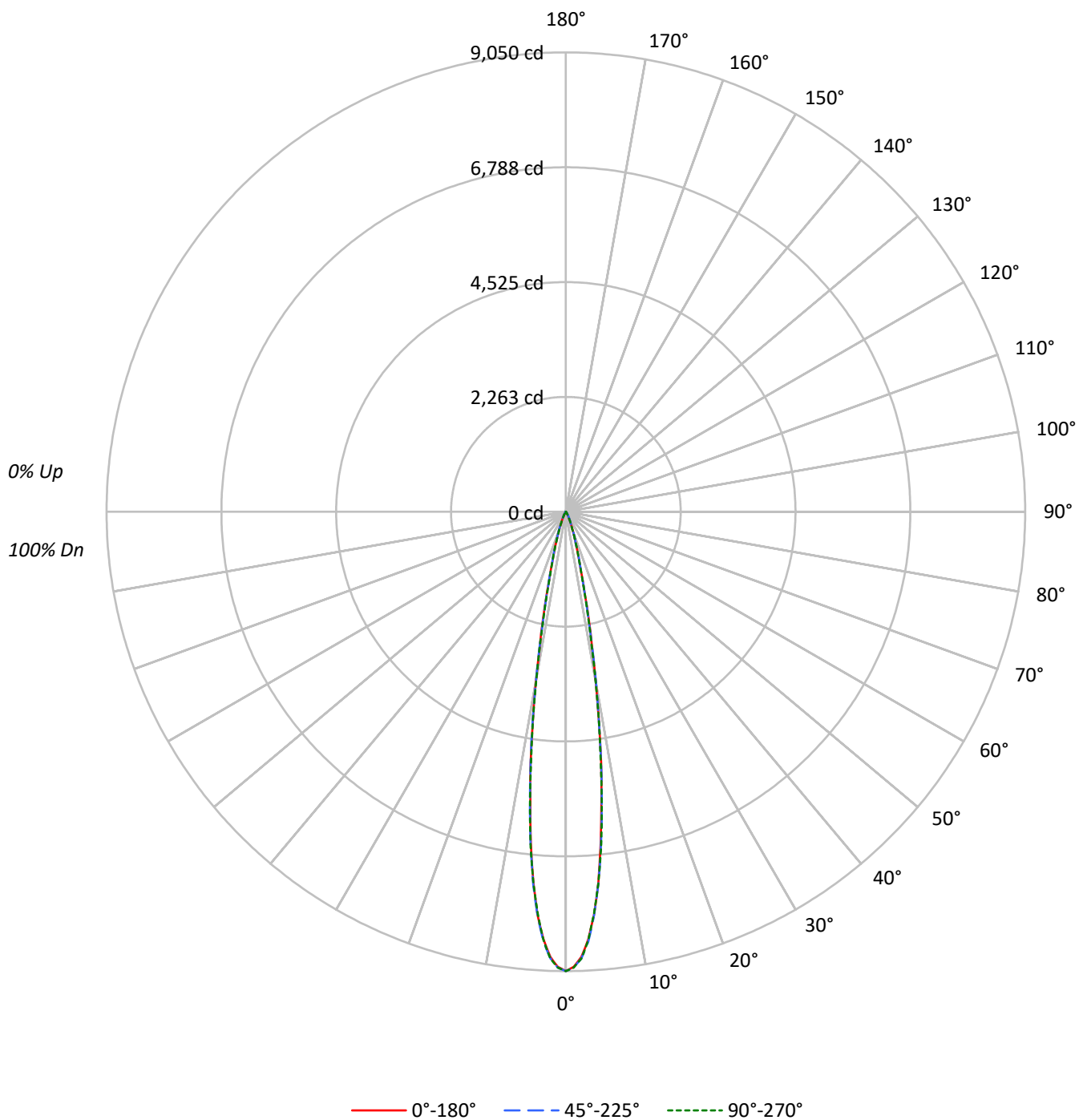
Lumens per Lamp: N/A  
Luminaire Lumens: 1010.0 lumens  
Efficiency: N/A  
Efficacy: 91.0 lumens/watt  
Spacing Criteria (0/90/45): 0.29 / 0.29 / 0.29  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.1  
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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 116 | 114 | 112 | 111 | 113 | 112 | 110 | 109 | 108 | 107 | 106 |  | 104 | 103 | 102 |  | 101 |
| 2   | 113 | 109 | 107 | 105 | 111 | 108 | 106 | 104 | 105 | 103 | 101 |  | 102 | 101 | 99  |  | 99  |
| 3   | 110 | 106 | 103 | 100 | 108 | 105 | 102 | 100 | 102 | 100 | 98  |  | 100 | 98  | 97  |  | 98  |
| 4   | 107 | 103 | 99  | 97  | 106 | 102 | 99  | 96  | 100 | 97  | 95  |  | 98  | 96  | 94  |  | 96  |
| 5   | 105 | 100 | 97  | 94  | 104 | 99  | 96  | 94  | 98  | 95  | 93  |  | 96  | 94  | 92  |  | 95  |
| 6   | 103 | 97  | 94  | 92  | 102 | 97  | 94  | 91  | 96  | 93  | 91  |  | 94  | 92  | 90  |  | 93  |
| 7   | 101 | 95  | 92  | 90  | 100 | 95  | 92  | 89  | 94  | 91  | 89  |  | 93  | 90  | 88  |  | 92  |
| 8   | 99  | 93  | 90  | 88  | 98  | 93  | 90  | 88  | 92  | 89  | 87  |  | 91  | 89  | 87  |  | 90  |
| 9   | 97  | 91  | 88  | 86  | 96  | 91  | 88  | 86  | 90  | 88  | 86  |  | 90  | 87  | 85  |  | 89  |
| 10  | 95  | 90  | 87  | 84  | 95  | 90  | 86  | 84  | 89  | 86  | 84  |  | 88  | 86  | 84  |  | 88  |

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

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 1558546 | 1558546 | 1558546 |
| 5°  | 1268943 | 1273092 | 1270603 |
| 10° | 591932  | 597248  | 589694  |
| 15° | 185876  | 187445  | 186304  |
| 20° | 73640   | 76573   | 71294   |
| 25° | 29758   | 35972   | 28694   |
| 30° | 11912   | 16367   | 11276   |
| 35° | 3532    | 7232    | 3364    |
| 40° | 1079    | 2698    | 899     |
| 45° | 195     | 585     | 195     |
| 50° | 0       | 214     | 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: 585 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 566.6  | 56.1      |
| 10°-20°   | 338.9  | 33.6      |
| 20°-30°   | 85.5   | 8.5       |
| 30°-40°   | 17.5   | 1.7       |
| 40°-50°   | 1.6    | 0.2       |
| 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°    | 990.9  | 98.1      |
| 0°-40°    | 1008.4 | 99.8      |
| 0°-60°    | 1010.0 | 100.0     |
| 0°-90°    | 1010.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1010.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 9050 | 9050  | 9050 | 9050  | 9050 |      |
| 5°  | 7340 | 7326  | 7364 | 7346  | 7350 | 565  |
| 15° | 1042 | 1051  | 1051 | 1036  | 1045 | 339  |
| 25° | 157  | 171   | 189  | 168   | 151  | 80   |
| 35° | 17   | 22    | 34   | 22    | 16   | 14   |
| 45° | 1    | 2     | 2    | 2     | 1    | 1    |
| 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    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 9049.6 | 9049.6 | 9049.6 | 9049.6 | 9049.6 |
| 1°    | 8968.1 | 8998.4 | 8982.5 | 8995.2 | 8980.9 |
| 2°    | 8774.0 | 8814.7 | 8801.9 | 8797.9 | 8809.1 |
| 3°    | 8432.0 | 8479.2 | 8477.6 | 8465.6 | 8446.4 |
| 4°    | 7965.5 | 7946.3 | 7975.9 | 7972.7 | 7939.9 |
| 5°    | 7340.0 | 7326.4 | 7364.0 | 7345.6 | 7349.6 |
| 6°    | 6574.7 | 6633.8 | 6621.0 | 6622.6 | 6637.8 |
| 7°    | 5752.6 | 5784.6 | 5811.8 | 5834.1 | 5803.0 |
| 8°    | 4997.7 | 4989.7 | 4992.1 | 5017.7 | 4931.4 |
| 9°    | 4152.5 | 4202.0 | 4170.1 | 4119.0 | 4151.7 |
| 10°   | 3384.8 | 3415.2 | 3415.2 | 3370.4 | 3372.0 |
| 11°   | 2698.6 | 2723.3 | 2705.8 | 2716.9 | 2646.6 |
| 12°   | 2175.3 | 2113.8 | 2099.4 | 2110.6 | 2109.8 |
| 13°   | 1660.8 | 1664.8 | 1660.8 | 1660.0 | 1652.1 |
| 14°   | 1302.2 | 1322.9 | 1314.1 | 1292.6 | 1283.0 |
| 15°   | 1042.5 | 1051.3 | 1051.3 | 1036.1 | 1044.9 |
| 17.5° | 626.3  | 636.7  | 639.1  | 628.7  | 628.7  |
| 20°   | 401.8  | 406.6  | 417.8  | 402.6  | 389.0  |
| 22.5° | 247.6  | 258.0  | 277.2  | 254.8  | 243.7  |
| 25°   | 156.6  | 171.0  | 189.3  | 167.8  | 151.0  |
| 27.5° | 98.3   | 110.2  | 126.2  | 105.5  | 95.1   |
| 30°   | 59.9   | 67.9   | 82.3   | 66.3   | 56.7   |
| 32.5° | 33.6   | 39.9   | 51.9   | 38.3   | 32.0   |
| 35°   | 16.8   | 22.4   | 34.4   | 21.6   | 16.0   |
| 37.5° | 9.6    | 12.0   | 21.6   | 10.4   | 8.8    |
| 40°   | 4.8    | 6.4    | 12.0   | 6.4    | 4.0    |
| 42.5° | 1.6    | 3.2    | 4.8    | 3.2    | 1.6    |
| 45°   | 0.8    | 1.6    | 2.4    | 1.6    | 0.8    |
| 47.5° | 0.0    | 0.0    | 0.8    | 0.0    | 0.0    |
| 50°   | 0.0    | 0.0    | 0.8    | 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)