

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: P1327236

Luminaire Tested: LDSQA3D09R70W2N902750DE010 3LSQCLDWWR1MB\_5000K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1327236  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-46)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R70W2N902750DE010 3LSQCLDWWR1MB\_5000K  
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 5000K CCT AND, 90CRI ,  
3LSQCLDWWR1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

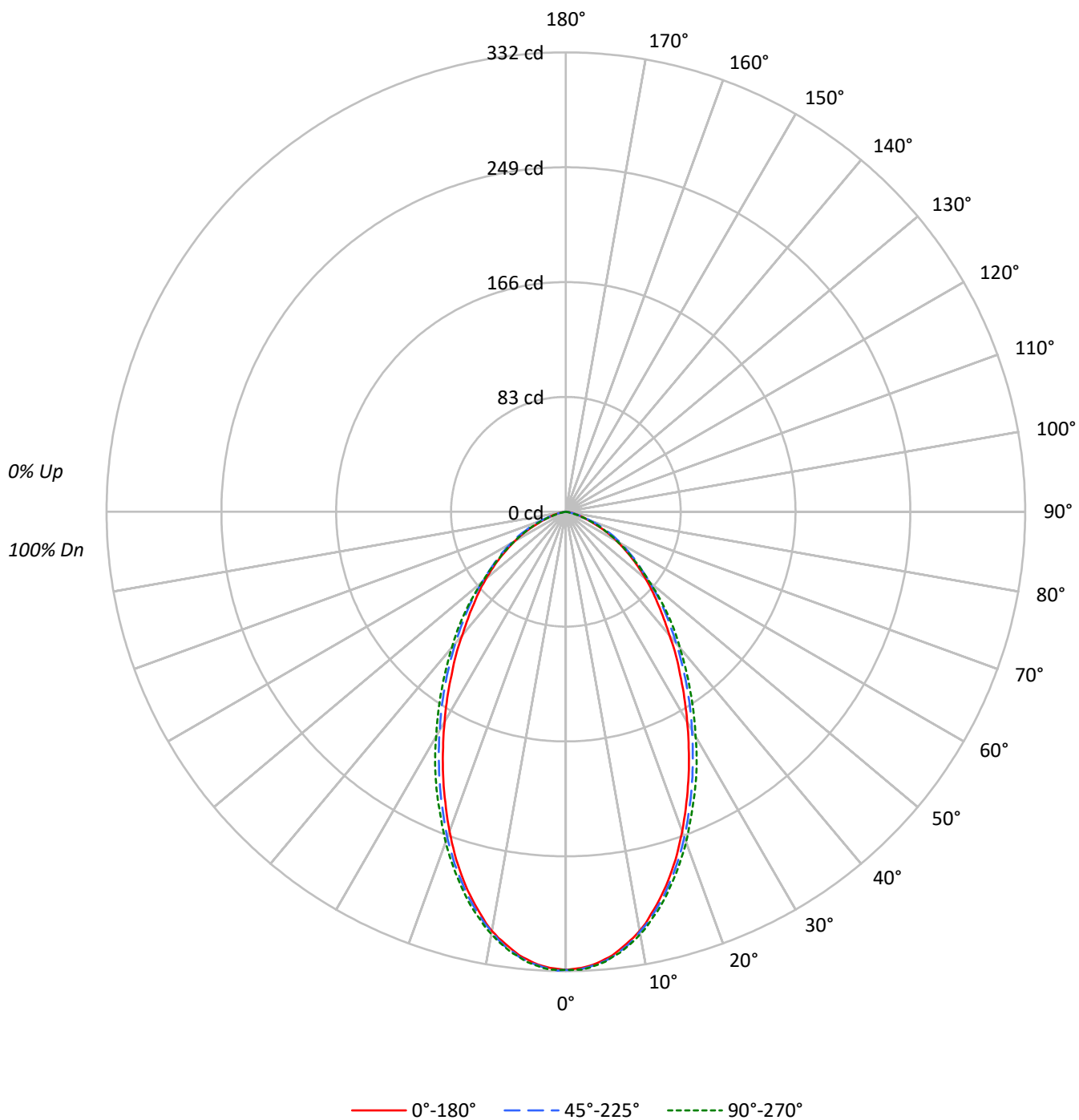
Lumens per Lamp: N/A  
Luminaire Lumens: 474.0 lumens  
Efficiency: N/A  
Efficacy: 52.7 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 0.93 / 0.99  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 111 | 108 | 104 | 102 | 109 | 106 | 103 | 100 | 101 | 99  | 97  |  | 98  | 96  | 94  |  | 94  |
| 2   | 103 | 97  | 92  | 87  | 101 | 95  | 90  | 86  | 92  | 88  | 84  |  | 89  | 85  | 82  |  | 86  |
| 3   | 96  | 87  | 81  | 76  | 94  | 86  | 80  | 75  | 83  | 78  | 74  |  | 81  | 76  | 72  |  | 78  |
| 4   | 89  | 79  | 72  | 66  | 87  | 78  | 71  | 66  | 76  | 70  | 65  |  | 74  | 69  | 64  |  | 72  |
| 5   | 83  | 72  | 65  | 59  | 81  | 71  | 64  | 59  | 69  | 63  | 58  |  | 67  | 62  | 58  |  | 66  |
| 6   | 78  | 66  | 59  | 53  | 76  | 65  | 58  | 53  | 64  | 57  | 53  |  | 62  | 56  | 52  |  | 61  |
| 7   | 73  | 61  | 53  | 48  | 71  | 60  | 53  | 48  | 59  | 52  | 48  |  | 58  | 52  | 47  |  | 56  |
| 8   | 68  | 57  | 49  | 44  | 67  | 56  | 49  | 44  | 55  | 48  | 44  |  | 53  | 48  | 43  |  | 52  |
| 9   | 64  | 53  | 45  | 40  | 63  | 52  | 45  | 40  | 51  | 45  | 40  |  | 50  | 44  | 40  |  | 49  |
| 10  | 61  | 49  | 42  | 37  | 60  | 49  | 42  | 37  | 48  | 41  | 37  |  | 47  | 41  | 37  |  | 46  |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 57023 | 57023 | 57023 |
| 5°  | 56117 | 56324 | 56428 |
| 10° | 53793 | 53898 | 54195 |
| 15° | 49906 | 50334 | 50744 |
| 20° | 45049 | 45911 | 46570 |
| 25° | 39906 | 41008 | 42015 |
| 30° | 34861 | 36253 | 37307 |
| 35° | 30296 | 31894 | 32882 |
| 40° | 26169 | 27900 | 28822 |
| 45° | 22919 | 24502 | 25208 |
| 50° | 20175 | 21113 | 21113 |
| 55° | 17475 | 18376 | 17836 |
| 60° | 14777 | 15810 | 14983 |
| 65° | 11492 | 13163 | 11981 |
| 70° | 8308  | 9769  | 8308  |
| 75° | 6255  | 5856  | 4724  |
| 80° | 4066  | 2876  | 1190  |
| 85° | 1186  | 0     | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 25208 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 30.5   | 6.4       |
| 10°-20°   | 78.8   | 16.6      |
| 20°-30°   | 98.9   | 20.9      |
| 30°-40°   | 94.5   | 19.9      |
| 40°-50°   | 76.8   | 16.2      |
| 50°-60°   | 53.8   | 11.3      |
| 60°-70°   | 30.4   | 6.4       |
| 70°-80°   | 9.6    | 2.0       |
| 80°-90°   | 0.8    | 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°    | 208.2  | 43.9      |
| 0°-40°    | 302.7  | 63.9      |
| 0°-60°    | 433.3  | 91.4      |
| 0°-90°    | 474.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 474.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 331 | 331   | 331 | 331   | 331 |      |
| 5°  | 325 | 325   | 326 | 325   | 326 | 30   |
| 15° | 280 | 280   | 282 | 283   | 285 | 78   |
| 25° | 210 | 212   | 216 | 219   | 221 | 96   |
| 35° | 144 | 146   | 152 | 155   | 156 | 90   |
| 45° | 94  | 96    | 101 | 102   | 104 | 73   |
| 55° | 58  | 59    | 61  | 60    | 59  | 52   |
| 65° | 28  | 30    | 32  | 31    | 29  | 28   |
| 75° | 9   | 9     | 9   | 8     | 7   | 10   |
| 85° | 1   | 1     | 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°    | 331.1 | 331.1 | 331.1 | 331.1 | 331.1 |
| 1°    | 330.5 | 331.1 | 331.7 | 330.5 | 331.1 |
| 2°    | 329.9 | 330.5 | 330.5 | 329.9 | 331.1 |
| 3°    | 328.7 | 329.3 | 329.3 | 328.7 | 329.9 |
| 4°    | 327.0 | 327.6 | 327.6 | 327.0 | 328.2 |
| 5°    | 324.6 | 325.2 | 325.8 | 325.2 | 326.4 |
| 6°    | 322.3 | 322.9 | 323.5 | 322.9 | 323.5 |
| 7°    | 318.8 | 319.9 | 319.9 | 319.9 | 321.1 |
| 8°    | 315.2 | 316.4 | 317.0 | 316.4 | 317.6 |
| 9°    | 311.7 | 312.3 | 312.9 | 312.9 | 314.0 |
| 10°   | 307.6 | 308.2 | 308.2 | 308.8 | 309.9 |
| 11°   | 302.9 | 302.9 | 304.0 | 304.0 | 305.8 |
| 12°   | 297.0 | 297.6 | 298.8 | 299.3 | 300.5 |
| 13°   | 291.7 | 292.3 | 293.5 | 294.1 | 295.8 |
| 14°   | 285.8 | 287.0 | 288.2 | 288.8 | 290.5 |
| 15°   | 279.9 | 280.5 | 282.3 | 282.9 | 284.6 |
| 17.5° | 263.5 | 264.1 | 267.0 | 268.2 | 269.9 |
| 20°   | 245.8 | 247.6 | 250.5 | 252.3 | 254.1 |
| 22.5° | 227.6 | 229.4 | 232.9 | 235.8 | 237.0 |
| 25°   | 210.0 | 212.3 | 215.8 | 219.4 | 221.1 |
| 27.5° | 192.3 | 194.7 | 198.8 | 202.3 | 204.7 |
| 30°   | 175.3 | 177.6 | 182.3 | 185.3 | 187.6 |
| 32.5° | 159.4 | 161.7 | 167.0 | 170.0 | 171.7 |
| 35°   | 144.1 | 146.4 | 151.7 | 154.7 | 156.4 |
| 37.5° | 130.6 | 132.9 | 137.6 | 140.6 | 141.7 |
| 40°   | 116.4 | 119.4 | 124.1 | 127.0 | 128.2 |
| 42.5° | 104.7 | 107.0 | 111.7 | 114.1 | 115.9 |
| 45°   | 94.1  | 96.4  | 100.6 | 102.3 | 103.5 |
| 47.5° | 84.7  | 85.9  | 89.4  | 90.0  | 91.2  |
| 50°   | 75.3  | 76.5  | 78.8  | 79.4  | 78.8  |
| 52.5° | 66.5  | 67.6  | 69.4  | 68.8  | 68.8  |
| 55°   | 58.2  | 58.8  | 61.2  | 60.0  | 59.4  |
| 57.5° | 50.0  | 51.2  | 53.5  | 51.8  | 51.2  |
| 60°   | 42.9  | 44.1  | 45.9  | 44.7  | 43.5  |
| 62.5° | 35.9  | 36.5  | 39.4  | 37.1  | 35.9  |
| 65°   | 28.2  | 30.0  | 32.3  | 30.6  | 29.4  |
| 67.5° | 21.2  | 24.1  | 26.5  | 24.1  | 22.9  |
| 70°   | 16.5  | 17.6  | 19.4  | 18.2  | 16.5  |
| 72.5° | 12.4  | 12.9  | 13.5  | 12.4  | 11.2  |
| 75°   | 9.4   | 9.4   | 8.8   | 7.6   | 7.1   |
| 77.5° | 6.5   | 6.5   | 5.3   | 3.5   | 3.5   |
| 80°   | 4.1   | 4.1   | 2.9   | 1.2   | 1.2   |
| 82.5° | 1.8   | 1.8   | 1.2   | 0.6   | 0.6   |
| 85°   | 0.6   | 0.6   | 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)