

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: P1327224

Luminaire Tested: LDSQA3D09R70W2N902750DE010 3LSQCDR1MMS\_3500K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1327224  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-31)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R70W2N902750DE010 3LSQCDR1MMS\_3500K  
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 3500K CCT AND, 90CRI ,  
3LSQCDR1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

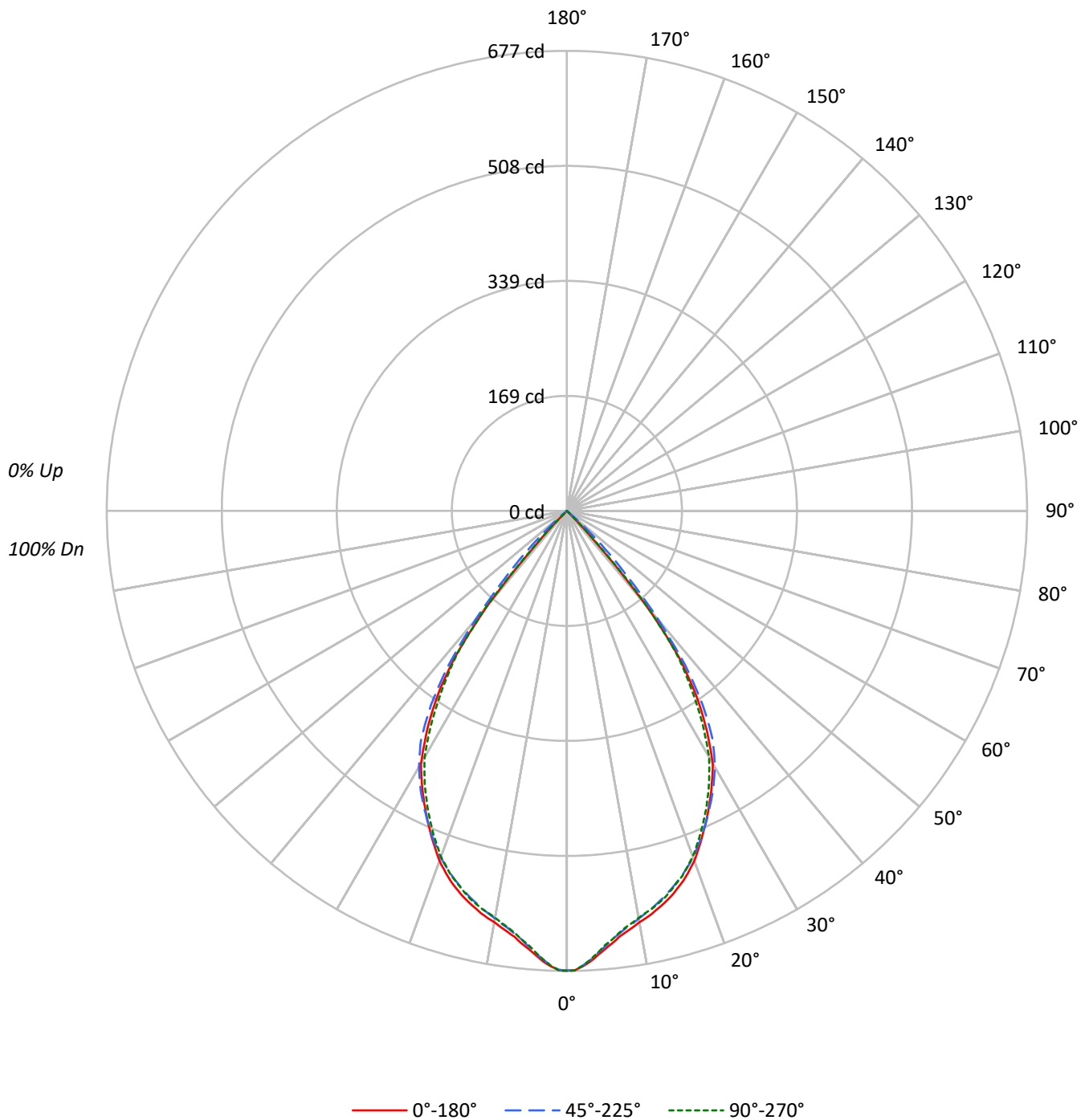
Lumens per Lamp: N/A  
Luminaire Lumens: 700.0 lumens  
Efficiency: N/A  
Efficacy: 77.8 lumens/watt  
Spacing Criteria (0/90/45): 1 / 0.99 / 1.03  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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 | 100 |    |    |
| 1   | 113 | 111 | 108 | 106 | 111 | 108 | 106 | 104 | 104 | 103 | 101 | 101 | 99  | 98  | 97  | 96  | 95  | 93  |    |    |
| 2   | 108 | 103 | 98  | 95  | 105 | 101 | 97  | 94  | 98  | 95  | 92  | 95  | 92  | 90  | 92  | 90  | 88  | 86  |    |    |
| 3   | 102 | 95  | 90  | 86  | 100 | 94  | 89  | 85  | 91  | 87  | 84  | 89  | 86  | 83  | 87  | 84  | 81  | 80  |    |    |
| 4   | 96  | 89  | 83  | 79  | 95  | 88  | 82  | 78  | 85  | 81  | 77  | 83  | 79  | 76  | 81  | 78  | 75  | 74  |    |    |
| 5   | 91  | 83  | 77  | 72  | 90  | 82  | 76  | 72  | 80  | 75  | 71  | 78  | 74  | 71  | 77  | 73  | 70  | 68  |    |    |
| 6   | 86  | 77  | 71  | 67  | 85  | 76  | 71  | 66  | 75  | 70  | 66  | 73  | 69  | 65  | 72  | 68  | 65  | 63  |    |    |
| 7   | 82  | 72  | 66  | 62  | 80  | 71  | 66  | 61  | 70  | 65  | 61  | 69  | 64  | 61  | 68  | 64  | 60  | 59  |    |    |
| 8   | 78  | 68  | 61  | 57  | 76  | 67  | 61  | 57  | 66  | 61  | 57  | 65  | 60  | 57  | 64  | 60  | 56  | 55  |    |    |
| 9   | 74  | 63  | 57  | 53  | 72  | 63  | 57  | 53  | 62  | 57  | 53  | 61  | 56  | 53  | 60  | 56  | 53  | 51  |    |    |
| 10  | 70  | 60  | 54  | 50  | 69  | 59  | 53  | 50  | 58  | 53  | 49  | 58  | 53  | 49  | 57  | 52  | 49  | 48  |    |    |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 116526 | 116526 | 116526 |
| 5°  | 111854 | 111249 | 110937 |
| 10° | 107463 | 106519 | 106309 |
| 15° | 104911 | 103431 | 103645 |
| 20° | 100472 | 99482  | 99262  |
| 25° | 93246  | 93474  | 92011  |
| 30° | 85353  | 86526  | 83225  |
| 35° | 69822  | 73186  | 67089  |
| 40° | 40198  | 46853  | 41255  |
| 45° | 585    | 19460  | 2022   |
| 50° | 0      | 2063   | 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: 19460 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 60.4   | 8.6       |
| 10°-20°   | 163.6  | 23.4      |
| 20°-30°   | 224.7  | 32.1      |
| 30°-40°   | 203.8  | 29.1      |
| 40°-50°   | 47.4   | 6.8       |
| 50°-60°   | 0.2    | 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       |
| 0°-30°    | 448.7  | 64.1      |
| 0°-40°    | 652.4  | 93.2      |
| 0°-60°    | 700.0  | 100.0     |
| 0°-90°    | 700.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 700.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 677 | 677   | 677 | 677   | 677 |      |
| 5°  | 647 | 645   | 644 | 642   | 642 | 61   |
| 15° | 588 | 584   | 580 | 580   | 581 | 165  |
| 25° | 491 | 493   | 492 | 487   | 484 | 225  |
| 35° | 332 | 337   | 348 | 333   | 319 | 199  |
| 45° | 2   | 27    | 80  | 34    | 8   | 29   |
| 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°    | 676.6 | 676.6 | 676.6 | 676.6 | 676.6 |
| 1°    | 676.0 | 674.8 | 675.4 | 676.0 | 676.6 |
| 2°    | 670.7 | 669.5 | 669.5 | 670.1 | 670.1 |
| 3°    | 664.2 | 661.8 | 661.8 | 661.2 | 661.2 |
| 4°    | 655.3 | 653.5 | 652.3 | 651.7 | 651.7 |
| 5°    | 647.0 | 645.2 | 643.5 | 642.3 | 641.7 |
| 6°    | 639.9 | 636.9 | 634.6 | 634.0 | 634.6 |
| 7°    | 631.6 | 629.8 | 627.5 | 625.7 | 626.3 |
| 8°    | 625.7 | 623.3 | 620.4 | 619.2 | 619.2 |
| 9°    | 620.4 | 618.0 | 615.0 | 612.7 | 613.9 |
| 10°   | 614.5 | 612.1 | 609.1 | 607.4 | 607.9 |
| 11°   | 610.3 | 607.4 | 603.8 | 602.6 | 603.2 |
| 12°   | 605.6 | 602.0 | 598.5 | 597.9 | 599.1 |
| 13°   | 599.7 | 596.1 | 592.6 | 592.6 | 593.7 |
| 14°   | 594.3 | 590.2 | 586.6 | 586.6 | 588.4 |
| 15°   | 588.4 | 584.3 | 580.1 | 580.1 | 581.3 |
| 17.5° | 570.6 | 567.1 | 563.0 | 563.0 | 563.5 |
| 20°   | 548.2 | 546.4 | 542.8 | 541.1 | 541.6 |
| 22.5° | 519.7 | 519.7 | 518.0 | 515.0 | 513.8 |
| 25°   | 490.7 | 493.1 | 491.9 | 487.2 | 484.2 |
| 27.5° | 460.5 | 464.7 | 465.3 | 458.2 | 452.8 |
| 30°   | 429.2 | 432.7 | 435.1 | 426.8 | 418.5 |
| 32.5° | 383.0 | 393.7 | 399.6 | 388.3 | 371.2 |
| 35°   | 332.1 | 336.8 | 348.1 | 333.3 | 319.1 |
| 37.5° | 269.9 | 275.9 | 285.3 | 273.5 | 265.2 |
| 40°   | 178.8 | 202.5 | 208.4 | 202.5 | 183.5 |
| 42.5° | 64.5  | 113.7 | 136.7 | 116.0 | 75.8  |
| 45°   | 2.4   | 26.6  | 79.9  | 34.3  | 8.3   |
| 47.5° | 0.0   | 0.6   | 36.1  | 1.2   | 0.0   |
| 50°   | 0.0   | 0.0   | 7.7   | 0.0   | 0.0   |
| 52.5° | 0.0   | 0.0   | 0.6   | 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)