

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: P1325614

Luminaire Tested: LDSQA3D05R70W2N902750DE010 3LSQCDR1MB\_4000K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1325614  
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: LDSQA3D05R70W2N902750DE010 3LSQCDR1MB\_4000K  
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 4000K CCT AND, 90CRI ,  
3LSQCDR1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

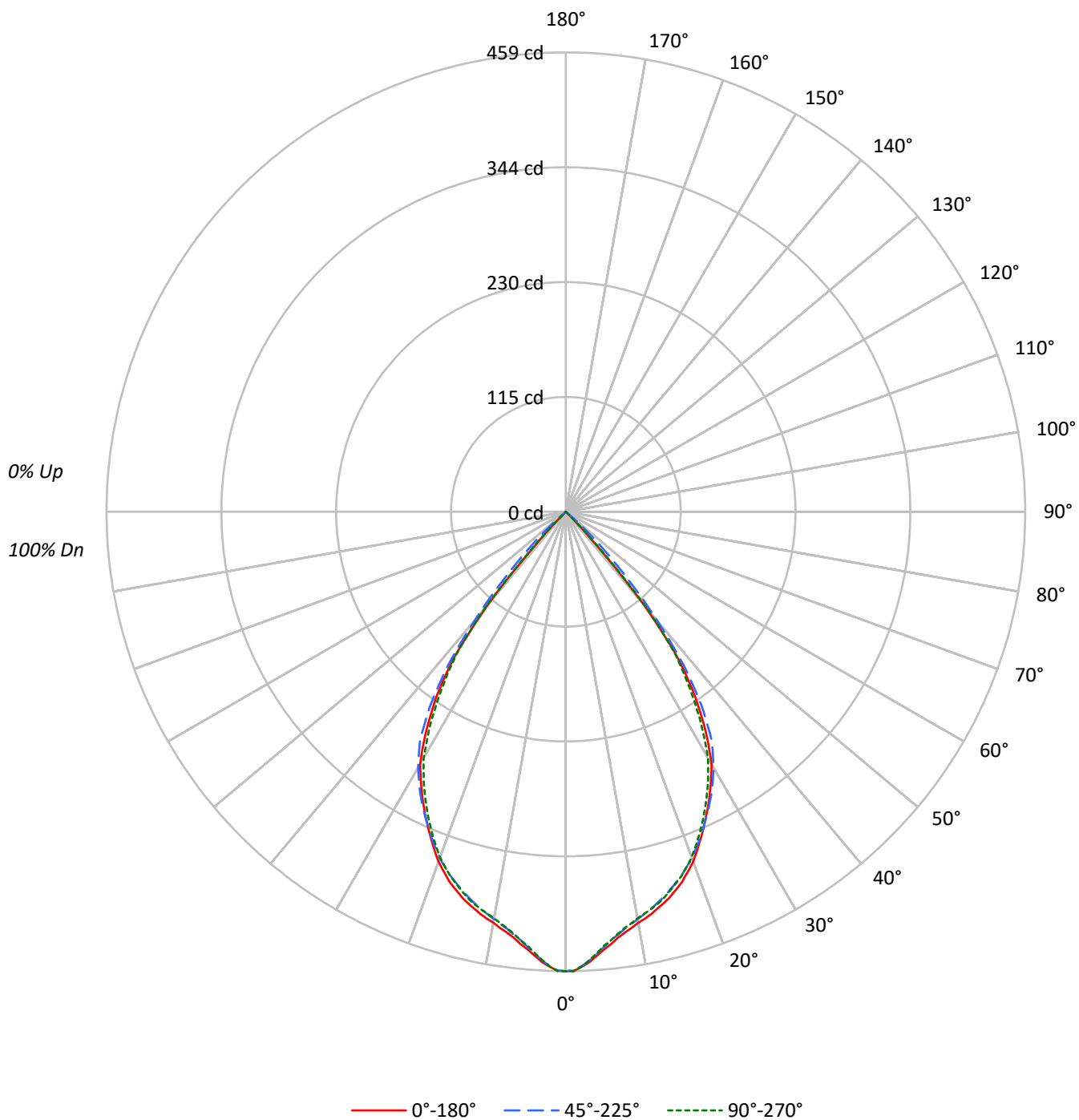
Lumens per Lamp: N/A  
Luminaire Lumens: 475.0 lumens  
Efficiency: N/A  
Efficacy: 80.5 lumens/watt  
Spacing Criteria (0/90/45): 1 / 0.99 / 1.03  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 5.9  
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°  | 79067 | 79067 | 79067 |
| 5°  | 75895 | 75480 | 75272 |
| 10° | 72925 | 72278 | 72138 |
| 15° | 71194 | 70196 | 70339 |
| 20° | 68178 | 67500 | 67354 |
| 25° | 63279 | 63431 | 62443 |
| 30° | 57910 | 58705 | 56478 |
| 35° | 47368 | 49660 | 45518 |
| 40° | 27271 | 31790 | 27990 |
| 45° | 390   | 13201 | 1364  |
| 50° | 0     | 1393  | 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: 13201 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 41.0   | 8.6       |
| 10°-20°   | 111.0  | 23.4      |
| 20°-30°   | 152.5  | 32.1      |
| 30°-40°   | 138.3  | 29.1      |
| 40°-50°   | 32.1   | 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°    | 304.4  | 64.1      |
| 0°-40°    | 442.7  | 93.2      |
| 0°-60°    | 475.0  | 100.0     |
| 0°-90°    | 475.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 475.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 459 | 459   | 459 | 459   | 459 |      |
| 5°  | 439 | 438   | 437 | 436   | 435 | 41   |
| 15° | 399 | 396   | 394 | 394   | 394 | 112  |
| 25° | 333 | 335   | 334 | 331   | 329 | 153  |
| 35° | 225 | 229   | 236 | 226   | 216 | 135  |
| 45° | 2   | 18    | 54  | 23    | 6   | 19   |
| 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°    | 459.1 | 459.1 | 459.1 | 459.1 | 459.1 |
| 1°    | 458.7 | 457.9 | 458.3 | 458.7 | 459.1 |
| 2°    | 455.1 | 454.3 | 454.3 | 454.7 | 454.7 |
| 3°    | 450.7 | 449.1 | 449.1 | 448.7 | 448.7 |
| 4°    | 444.7 | 443.5 | 442.7 | 442.3 | 442.3 |
| 5°    | 439.0 | 437.8 | 436.6 | 435.8 | 435.4 |
| 6°    | 434.2 | 432.2 | 430.6 | 430.2 | 430.6 |
| 7°    | 428.6 | 427.4 | 425.8 | 424.6 | 425.0 |
| 8°    | 424.6 | 423.0 | 421.0 | 420.2 | 420.2 |
| 9°    | 421.0 | 419.4 | 417.4 | 415.7 | 416.5 |
| 10°   | 417.0 | 415.3 | 413.3 | 412.1 | 412.5 |
| 11°   | 414.1 | 412.1 | 409.7 | 408.9 | 409.3 |
| 12°   | 410.9 | 408.5 | 406.1 | 405.7 | 406.5 |
| 13°   | 406.9 | 404.5 | 402.1 | 402.1 | 402.9 |
| 14°   | 403.3 | 400.5 | 398.1 | 398.1 | 399.3 |
| 15°   | 399.3 | 396.5 | 393.7 | 393.7 | 394.5 |
| 17.5° | 387.2 | 384.8 | 382.0 | 382.0 | 382.4 |
| 20°   | 372.0 | 370.8 | 368.3 | 367.1 | 367.5 |
| 22.5° | 352.7 | 352.7 | 351.5 | 349.5 | 348.7 |
| 25°   | 333.0 | 334.6 | 333.8 | 330.6 | 328.6 |
| 27.5° | 312.5 | 315.3 | 315.7 | 310.9 | 307.3 |
| 30°   | 291.2 | 293.6 | 295.2 | 289.6 | 284.0 |
| 32.5° | 259.9 | 267.1 | 271.1 | 263.5 | 251.9 |
| 35°   | 225.3 | 228.6 | 236.2 | 226.1 | 216.5 |
| 37.5° | 183.2 | 187.2 | 193.6 | 185.6 | 180.0 |
| 40°   | 121.3 | 137.4 | 141.4 | 137.4 | 124.5 |
| 42.5° | 43.8  | 77.1  | 92.8  | 78.7  | 51.4  |
| 45°   | 1.6   | 18.1  | 54.2  | 23.3  | 5.6   |
| 47.5° | 0.0   | 0.4   | 24.5  | 0.8   | 0.0   |
| 50°   | 0.0   | 0.0   | 5.2   | 0.0   | 0.0   |
| 52.5° | 0.0   | 0.0   | 0.4   | 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)