

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: P1310228

Luminaire Tested: LDSQA3D09R409035DE010 3LSQCDR1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1310228  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R409035DE010 3LSQCDR1MB  
Description: 3in Adjustable LED luminaire with, R40 optic, 3500K CCT AND, 90CRI , 3LSQCDR1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

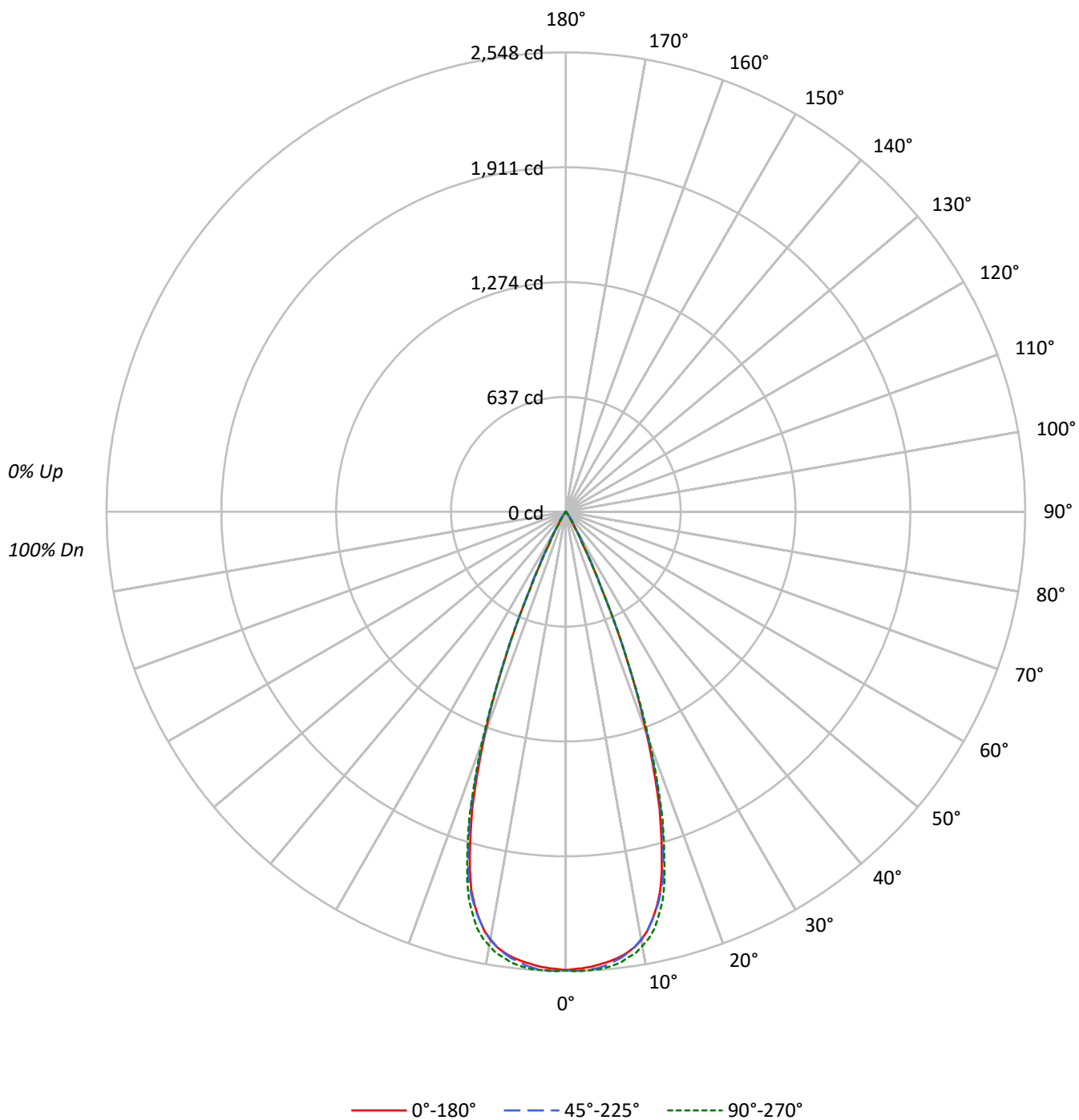
Lumens per Lamp: N/A  
Luminaire Lumens: 1069.0 lumens  
Efficiency: N/A  
Efficacy: 96.3 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.69 / 0.6  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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  | 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   | 115 | 113 | 111 | 109 | 112 | 110 | 109 | 107 | 106 | 105 | 104 | 103 | 102 | 101 | 99  | 99  | 98  | 96  |    |    |
| 2   | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 100 | 102 | 100 | 98  | 99  | 97  | 96  | 97  | 95  | 94  | 92  |    |    |
| 3   | 107 | 102 | 98  | 95  | 105 | 101 | 97  | 94  | 98  | 95  | 93  | 96  | 93  | 91  | 94  | 92  | 90  | 89  |    |    |
| 4   | 103 | 97  | 93  | 90  | 102 | 96  | 92  | 89  | 94  | 91  | 88  | 92  | 90  | 87  | 91  | 88  | 87  | 85  |    |    |
| 5   | 100 | 93  | 89  | 86  | 98  | 93  | 88  | 85  | 91  | 87  | 85  | 89  | 86  | 84  | 88  | 85  | 83  | 82  |    |    |
| 6   | 96  | 90  | 85  | 82  | 95  | 89  | 85  | 82  | 88  | 84  | 81  | 86  | 83  | 81  | 85  | 82  | 80  | 79  |    |    |
| 7   | 93  | 86  | 82  | 79  | 92  | 86  | 81  | 78  | 85  | 81  | 78  | 83  | 80  | 78  | 82  | 80  | 77  | 76  |    |    |
| 8   | 90  | 83  | 79  | 76  | 89  | 83  | 78  | 75  | 82  | 78  | 75  | 81  | 77  | 75  | 80  | 77  | 75  | 73  |    |    |
| 9   | 87  | 80  | 76  | 73  | 86  | 80  | 75  | 73  | 79  | 75  | 72  | 78  | 75  | 72  | 77  | 74  | 72  | 71  |    |    |
| 10  | 85  | 77  | 73  | 70  | 84  | 77  | 73  | 70  | 76  | 72  | 70  | 76  | 72  | 70  | 75  | 72  | 70  | 69  |    |    |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 437807 | 437807 | 437807 |
| 5°  | 434017 | 436748 | 438823 |
| 10° | 421652 | 420865 | 427458 |
| 15° | 366812 | 372714 | 377279 |
| 20° | 240751 | 245443 | 248613 |
| 25° | 85835  | 90833  | 85398  |
| 30° | 18713  | 25296  | 18852  |
| 35° | 6013   | 10449  | 5866   |
| 40° | 1866   | 3215   | 1686   |
| 45° | 195    | 1096   | 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: 1096 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 237.7  | 22.2      |
| 10°-20°   | 553.6  | 51.8      |
| 20°-30°   | 248.3  | 23.2      |
| 30°-40°   | 26.8   | 2.5       |
| 40°-50°   | 2.5    | 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°    | 1039.7 | 97.3      |
| 0°-40°    | 1066.5 | 99.8      |
| 0°-60°    | 1069.0 | 100.0     |
| 0°-90°    | 1069.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1069.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2542 | 2542  | 2542 | 2542  | 2542 |      |
| 5°  | 2510 | 2517  | 2526 | 2530  | 2538 | 237  |
| 15° | 2057 | 2072  | 2090 | 2102  | 2116 | 547  |
| 25° | 452  | 465   | 478  | 486   | 449  | 241  |
| 35° | 29   | 33    | 50   | 32    | 28   | 22   |
| 45° | 1    | 2     | 4    | 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°    | 2542.1 | 2542.1 | 2542.1 | 2542.1 | 2542.1 |
| 1°    | 2536.8 | 2542.1 | 2546.6 | 2542.9 | 2548.1 |
| 2°    | 2534.6 | 2540.6 | 2547.4 | 2543.6 | 2548.1 |
| 3°    | 2528.6 | 2536.1 | 2543.6 | 2541.4 | 2545.9 |
| 4°    | 2520.3 | 2526.3 | 2537.6 | 2537.6 | 2544.4 |
| 5°    | 2510.5 | 2517.3 | 2526.3 | 2530.1 | 2538.3 |
| 6°    | 2500.0 | 2503.7 | 2510.5 | 2518.0 | 2529.3 |
| 7°    | 2486.4 | 2486.4 | 2494.7 | 2502.2 | 2517.3 |
| 8°    | 2467.6 | 2466.1 | 2472.1 | 2481.9 | 2495.4 |
| 9°    | 2444.3 | 2439.0 | 2443.5 | 2457.8 | 2478.1 |
| 10°   | 2411.1 | 2406.6 | 2406.6 | 2424.7 | 2444.3 |
| 11°   | 2368.2 | 2366.7 | 2367.5 | 2384.8 | 2411.1 |
| 12°   | 2310.3 | 2311.8 | 2311.8 | 2331.3 | 2363.7 |
| 13°   | 2244.8 | 2244.0 | 2250.8 | 2272.6 | 2294.4 |
| 14°   | 2165.0 | 2169.5 | 2176.3 | 2195.8 | 2218.4 |
| 15°   | 2057.3 | 2072.4 | 2090.4 | 2102.5 | 2116.0 |
| 17.5° | 1729.9 | 1744.9 | 1769.8 | 1779.6 | 1782.6 |
| 20°   | 1313.6 | 1335.4 | 1339.2 | 1358.8 | 1356.5 |
| 22.5° | 880.7  | 879.2  | 882.2  | 884.5  | 885.3  |
| 25°   | 451.7  | 465.2  | 478.0  | 486.3  | 449.4  |
| 27.5° | 196.5  | 219.8  | 236.4  | 214.5  | 198.7  |
| 30°   | 94.1   | 106.9  | 127.2  | 107.6  | 94.8   |
| 32.5° | 51.2   | 59.5   | 80.5   | 58.7   | 50.4   |
| 35°   | 28.6   | 33.1   | 49.7   | 32.4   | 27.9   |
| 37.5° | 16.6   | 18.1   | 27.1   | 18.1   | 15.8   |
| 40°   | 8.3    | 10.5   | 14.3   | 10.5   | 7.5    |
| 42.5° | 3.0    | 5.3    | 7.5    | 5.3    | 3.0    |
| 45°   | 0.8    | 1.5    | 4.5    | 1.5    | 0.8    |
| 47.5° | 0.0    | 0.0    | 2.3    | 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)