

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: P1178712

Luminaire Tested: LDA2B108035R2050D010 2LBD1MW

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1178712  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2206-683-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/17/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDA2B108035R2050D010 2LBD1MW  
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

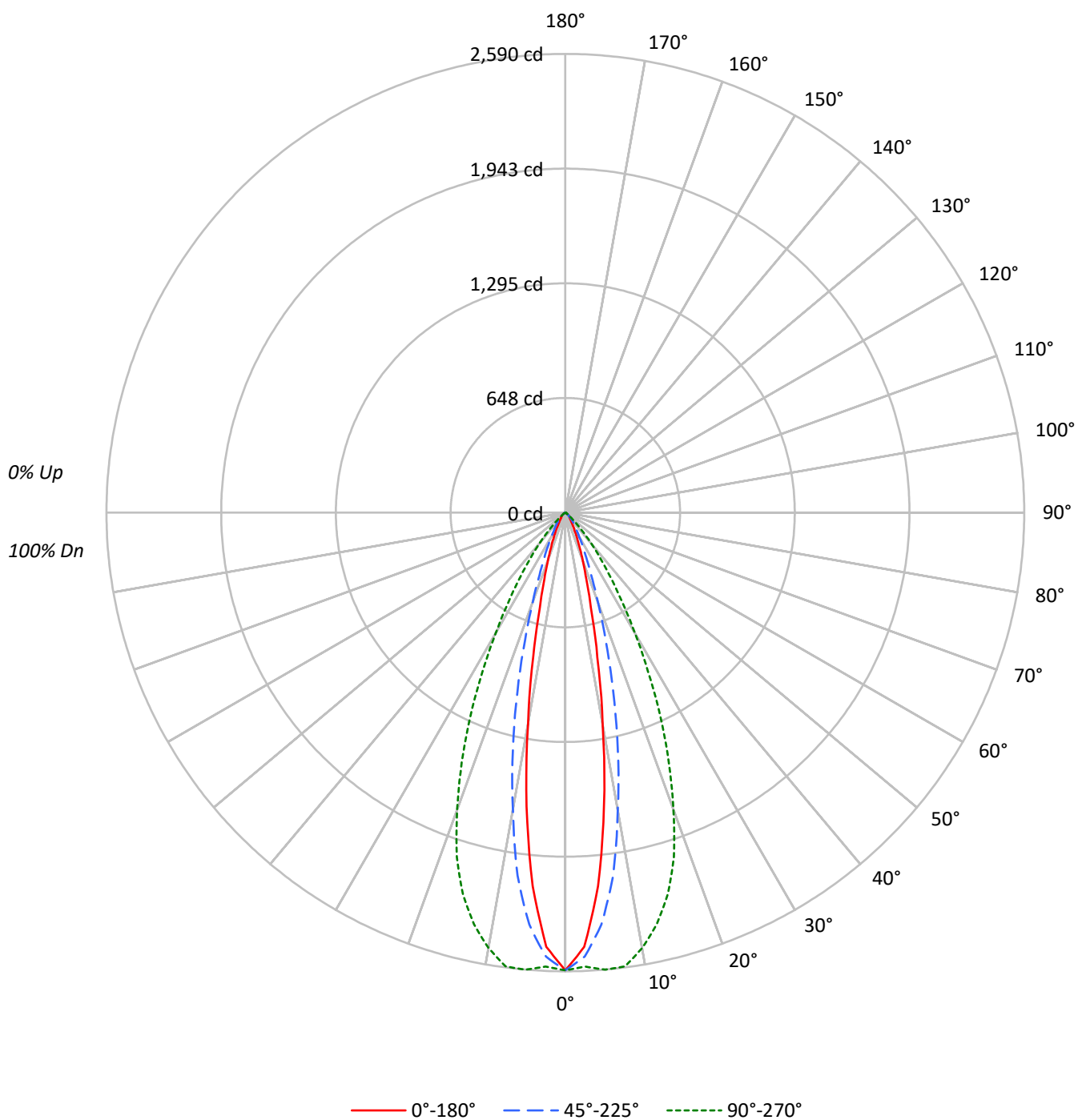
Lumens per Lamp: N/A  
Luminaire Lumens: 928.8 lumens  
Efficiency: N/A  
Efficacy: 92.9 lumens/watt  
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 10  
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   | 114 | 112 | 109 | 107 | 112 | 109 | 107 | 106 | 105 | 104 | 102 |  | 102 | 100 | 99  |  | 98  |
| 2   | 109 | 105 | 101 | 98  | 107 | 103 | 100 | 97  | 100 | 97  | 95  |  | 97  | 95  | 93  |  | 94  |
| 3   | 105 | 99  | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 92  | 89  |  | 93  | 90  | 88  |  | 90  |
| 4   | 100 | 94  | 89  | 85  | 99  | 93  | 88  | 85  | 91  | 87  | 84  |  | 89  | 85  | 83  |  | 87  |
| 5   | 96  | 89  | 84  | 80  | 95  | 88  | 83  | 80  | 86  | 82  | 79  |  | 85  | 81  | 78  |  | 83  |
| 6   | 92  | 85  | 80  | 76  | 91  | 84  | 79  | 76  | 83  | 78  | 75  |  | 81  | 77  | 75  |  | 80  |
| 7   | 89  | 81  | 76  | 72  | 88  | 80  | 75  | 72  | 79  | 75  | 71  |  | 78  | 74  | 71  |  | 77  |
| 8   | 85  | 77  | 72  | 69  | 84  | 77  | 72  | 69  | 76  | 71  | 68  |  | 75  | 71  | 68  |  | 74  |
| 9   | 82  | 74  | 69  | 66  | 81  | 74  | 69  | 66  | 73  | 68  | 65  |  | 72  | 68  | 65  |  | 71  |
| 10  | 79  | 71  | 66  | 63  | 79  | 71  | 66  | 63  | 70  | 66  | 63  |  | 69  | 65  | 62  |  | 69  |

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

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 1274798 | 1274798 | 1274798 |
| 5°  | 1048090 | 1156400 | 1282886 |
| 10° | 608381  | 854509  | 1250728 |
| 15° | 283424  | 532218  | 1139825 |
| 20° | 149370  | 280626  | 936854  |
| 25° | 82689   | 151932  | 690962  |
| 30° | 48480   | 88985   | 446861  |
| 35° | 31138   | 59686   | 264764  |
| 40° | 24280   | 40252   | 147098  |
| 45° | 21071   | 24071   | 65376   |
| 50° | 19035   | 16579   | 23947   |
| 55° | 12988   | 12042   | 11096   |
| 60° | 9571    | 8486    | 8486    |
| 65° | 7588    | 6304    | 7588    |
| 70° | 6203    | 6203    | 6203    |
| 75° | 6100    | 6100    | 6100    |
| 80° | 6251    | 6251    | 6251    |
| 85° | 6227    | 6227    | 6227    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 65376 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 205.7  | 22.1      |
| 10°-20°   | 336.9  | 36.3      |
| 20°-30°   | 224.7  | 24.2      |
| 30°-40°   | 101.3  | 10.9      |
| 40°-50°   | 37.1   | 4.0       |
| 50°-60°   | 13.0   | 1.4       |
| 60°-70°   | 6.1    | 0.7       |
| 70°-80°   | 3.2    | 0.3       |
| 80°-90°   | 0.9    | 0.1       |
| 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°    | 767.3  | 82.6      |
| 0°-40°    | 868.6  | 93.5      |
| 0°-60°    | 918.7  | 98.9      |
| 0°-90°    | 928.8  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 928.8  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2584 | 2584  | 2584 | 2584  | 2584 |      |
| 5°  | 2116 | 2182  | 2335 | 2505  | 2590 | 173  |
| 15° | 555  | 652   | 1042 | 1761  | 2232 | 166  |
| 25° | 152  | 177   | 279  | 761   | 1269 | 73   |
| 35° | 52   | 58    | 99   | 214   | 440  | 34   |
| 45° | 30   | 30    | 34   | 54    | 94   | 24   |
| 55° | 15   | 14    | 14   | 12    | 13   | 14   |
| 65° | 6    | 6     | 5    | 5     | 6    | 7    |
| 75° | 3    | 3     | 3    | 3     | 3    | 3    |
| 85° | 1    | 1     | 1    | 1     | 1    | 1    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2583.9 | 2583.9 | 2583.9 | 2583.9 | 2583.9 |
| 2.5°  | 2453.5 | 2479.4 | 2509.6 | 2540.8 | 2565.6 |
| 5°    | 2116.3 | 2182.0 | 2335.0 | 2505.2 | 2590.4 |
| 7.5°  | 1673.4 | 1770.4 | 2067.8 | 2404.0 | 2583.9 |
| 10°   | 1214.4 | 1338.3 | 1705.7 | 2228.3 | 2496.6 |
| 12.5° | 835.1  | 951.5  | 1368.5 | 2006.3 | 2381.3 |
| 15°   | 554.9  | 651.9  | 1042.0 | 1760.7 | 2231.6 |
| 17.5° | 391.1  | 456.9  | 757.5  | 1492.4 | 2038.7 |
| 20°   | 284.5  | 328.6  | 534.5  | 1229.5 | 1784.4 |
| 22.5° | 206.9  | 240.3  | 380.4  | 982.7  | 1526.9 |
| 25°   | 151.9  | 176.7  | 279.1  | 760.7  | 1269.3 |
| 27.5° | 113.1  | 132.5  | 209.0  | 577.6  | 1011.8 |
| 30°   | 85.1   | 101.3  | 156.2  | 425.6  | 784.4  |
| 32.5° | 65.7   | 76.5   | 119.6  | 303.9  | 593.7  |
| 35°   | 51.7   | 58.2   | 99.1   | 214.4  | 439.6  |
| 37.5° | 43.1   | 47.4   | 81.9   | 149.8  | 322.2  |
| 40°   | 37.7   | 40.9   | 62.5   | 106.7  | 228.4  |
| 42.5° | 33.4   | 35.6   | 45.3   | 76.5   | 148.7  |
| 45°   | 30.2   | 30.2   | 34.5   | 53.9   | 93.7   |
| 47.5° | 28.0   | 24.8   | 26.9   | 37.7   | 55.0   |
| 50°   | 24.8   | 20.5   | 21.6   | 25.9   | 31.2   |
| 52.5° | 19.4   | 17.2   | 17.2   | 17.2   | 18.3   |
| 55°   | 15.1   | 14.0   | 14.0   | 11.9   | 12.9   |
| 57.5° | 11.9   | 11.9   | 10.8   | 9.7    | 10.8   |
| 60°   | 9.7    | 9.7    | 8.6    | 7.5    | 8.6    |
| 62.5° | 7.5    | 7.5    | 6.5    | 6.5    | 7.5    |
| 65°   | 6.5    | 6.5    | 5.4    | 5.4    | 6.5    |
| 67.5° | 5.4    | 5.4    | 5.4    | 4.3    | 5.4    |
| 70°   | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    |
| 72.5° | 3.2    | 3.2    | 4.3    | 3.2    | 3.2    |
| 75°   | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    |
| 77.5° | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    |
| 80°   | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    |
| 82.5° | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    |
| 85°   | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)