

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: P1178630

Luminaire Tested: LDA2B108027R2050D010 2LBD1B

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1178630  
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: LDA2B108027R2050D010 2LBD1B  
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 2700K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

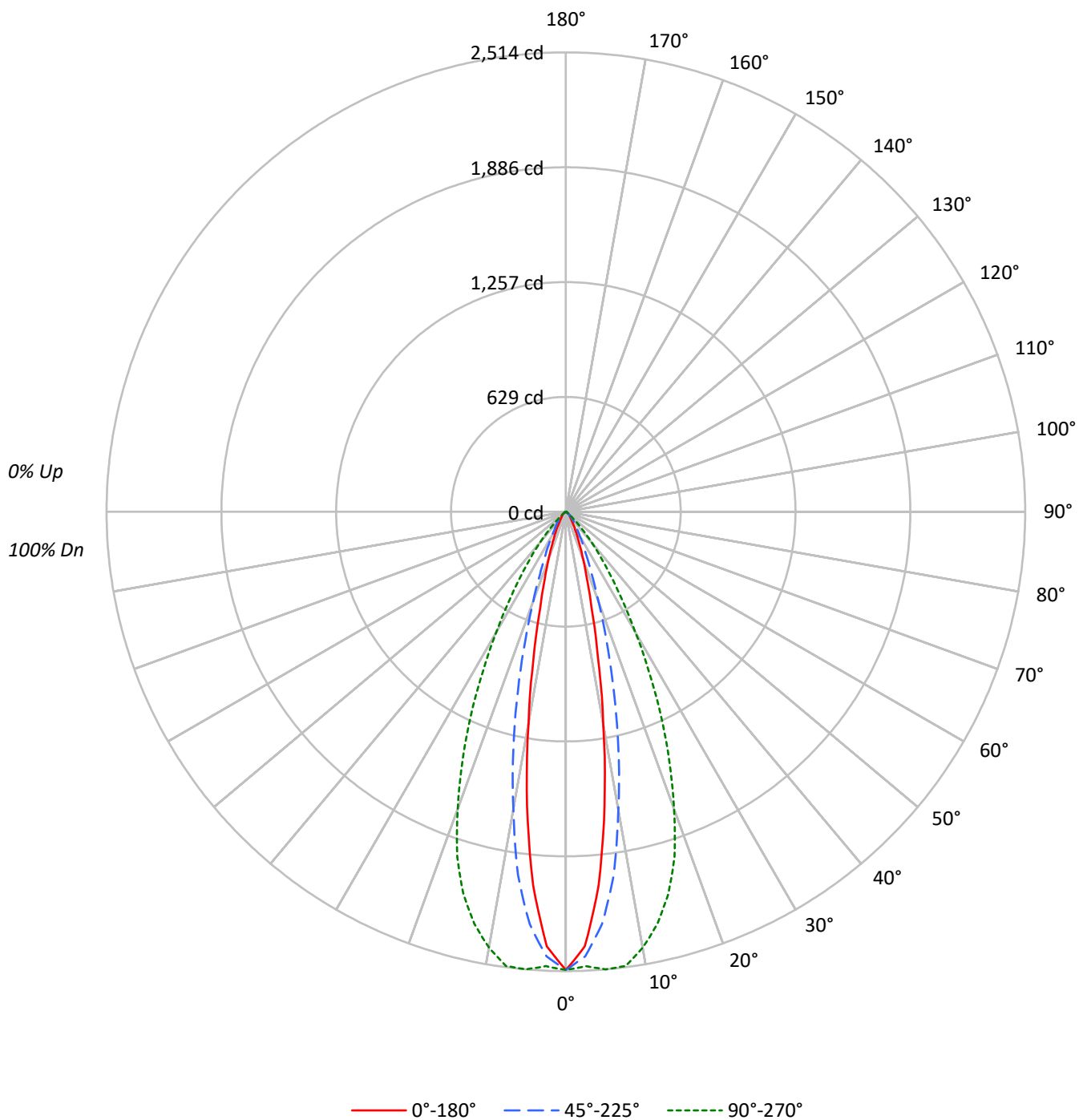
Lumens per Lamp: N/A  
Luminaire Lumens: 901.2 lumens  
Efficiency: N/A  
Efficacy: 90.1 lumens/watt  
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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°  | 1236957 | 1236957 | 1236957 |
| 5°  | 1016939 | 1122080 | 1244802 |
| 10° | 590296  | 829160  | 1213606 |
| 15° | 275047  | 516384  | 1105961 |
| 20° | 144907  | 272278  | 909028  |
| 25° | 80239   | 147414  | 670439  |
| 30° | 47056   | 86364   | 433644  |
| 35° | 30235   | 57940   | 256934  |
| 40° | 23572   | 39029   | 142783  |
| 45° | 20443   | 23374   | 63492   |
| 50° | 18421   | 16041   | 23256   |
| 55° | 12558   | 11698   | 10752   |
| 60° | 9275    | 8288    | 8288    |
| 65° | 7355    | 6070    | 7355    |
| 70° | 6058    | 6058    | 6058    |
| 75° | 5909    | 5909    | 5909    |
| 80° | 5966    | 5966    | 5966    |
| 85° | 5661    | 5661    | 5661    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 63492 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 199.6  | 22.2      |
| 10°-20°   | 326.9  | 36.3      |
| 20°-30°   | 218.0  | 24.2      |
| 30°-40°   | 98.3   | 10.9      |
| 40°-50°   | 36.0   | 4.0       |
| 50°-60°   | 12.6   | 1.4       |
| 60°-70°   | 5.9    | 0.7       |
| 70°-80°   | 3.1    | 0.3       |
| 80°-90°   | 0.8    | 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°    | 744.5  | 82.6      |
| 0°-40°    | 842.8  | 93.5      |
| 0°-60°    | 891.4  | 98.9      |
| 0°-90°    | 901.2  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 901.2  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2507 | 2507  | 2507 | 2507  | 2507 |      |
| 5°  | 2053 | 2117  | 2266 | 2431  | 2514 | 168  |
| 15° | 538  | 633   | 1011 | 1708  | 2165 | 161  |
| 25° | 147  | 172   | 271  | 738   | 1232 | 71   |
| 35° | 50   | 56    | 96   | 208   | 427  | 33   |
| 45° | 29   | 29    | 34   | 52    | 91   | 23   |
| 55° | 15   | 14    | 14   | 12    | 12   | 14   |
| 65° | 6    | 6     | 5    | 5     | 6    | 6    |
| 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°    | 2507.2 | 2507.2 | 2507.2 | 2507.2 | 2507.2 |
| 2.5°  | 2380.7 | 2405.8 | 2435.1 | 2465.4 | 2489.4 |
| 5°    | 2053.4 | 2117.2 | 2265.7 | 2430.9 | 2513.5 |
| 7.5°  | 1623.7 | 1717.8 | 2006.4 | 2332.6 | 2507.2 |
| 10°   | 1178.3 | 1298.6 | 1655.1 | 2162.2 | 2422.5 |
| 12.5° | 810.3  | 923.2  | 1327.8 | 1946.8 | 2310.6 |
| 15°   | 538.5  | 632.6  | 1011.0 | 1708.4 | 2165.3 |
| 17.5° | 379.5  | 443.3  | 735.0  | 1448.1 | 1978.2 |
| 20°   | 276.0  | 318.9  | 518.6  | 1193.0 | 1731.4 |
| 22.5° | 200.7  | 233.2  | 369.1  | 953.5  | 1481.5 |
| 25°   | 147.4  | 171.5  | 270.8  | 738.2  | 1231.6 |
| 27.5° | 109.8  | 128.6  | 202.8  | 560.4  | 981.8  |
| 30°   | 82.6   | 98.3   | 151.6  | 413.0  | 761.2  |
| 32.5° | 63.8   | 74.2   | 116.1  | 294.8  | 576.1  |
| 35°   | 50.2   | 56.5   | 96.2   | 208.1  | 426.6  |
| 37.5° | 41.8   | 46.0   | 79.5   | 145.3  | 312.6  |
| 40°   | 36.6   | 39.7   | 60.6   | 103.5  | 221.7  |
| 42.5° | 32.4   | 34.5   | 43.9   | 74.2   | 144.3  |
| 45°   | 29.3   | 29.3   | 33.5   | 52.3   | 91.0   |
| 47.5° | 27.2   | 24.0   | 26.1   | 36.6   | 53.3   |
| 50°   | 24.0   | 19.9   | 20.9   | 25.1   | 30.3   |
| 52.5° | 18.8   | 16.7   | 16.7   | 16.7   | 17.8   |
| 55°   | 14.6   | 13.6   | 13.6   | 11.5   | 12.5   |
| 57.5° | 11.5   | 11.5   | 10.5   | 9.4    | 10.5   |
| 60°   | 9.4    | 9.4    | 8.4    | 7.3    | 8.4    |
| 62.5° | 7.3    | 7.3    | 6.3    | 6.3    | 7.3    |
| 65°   | 6.3    | 6.3    | 5.2    | 5.2    | 6.3    |
| 67.5° | 5.2    | 5.2    | 5.2    | 4.2    | 5.2    |
| 70°   | 4.2    | 4.2    | 4.2    | 4.2    | 4.2    |
| 72.5° | 3.1    | 3.1    | 4.2    | 3.1    | 3.1    |
| 75°   | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    |
| 77.5° | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    |
| 80°   | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    |
| 82.5° | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| 85°   | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| 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)