

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: P1178704

Luminaire Tested: LDA2B108035R2040D010 2LBDC1MB

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1178704  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2206-683-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/17/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDA2B108035R2040D010 2LBDC1MB  
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

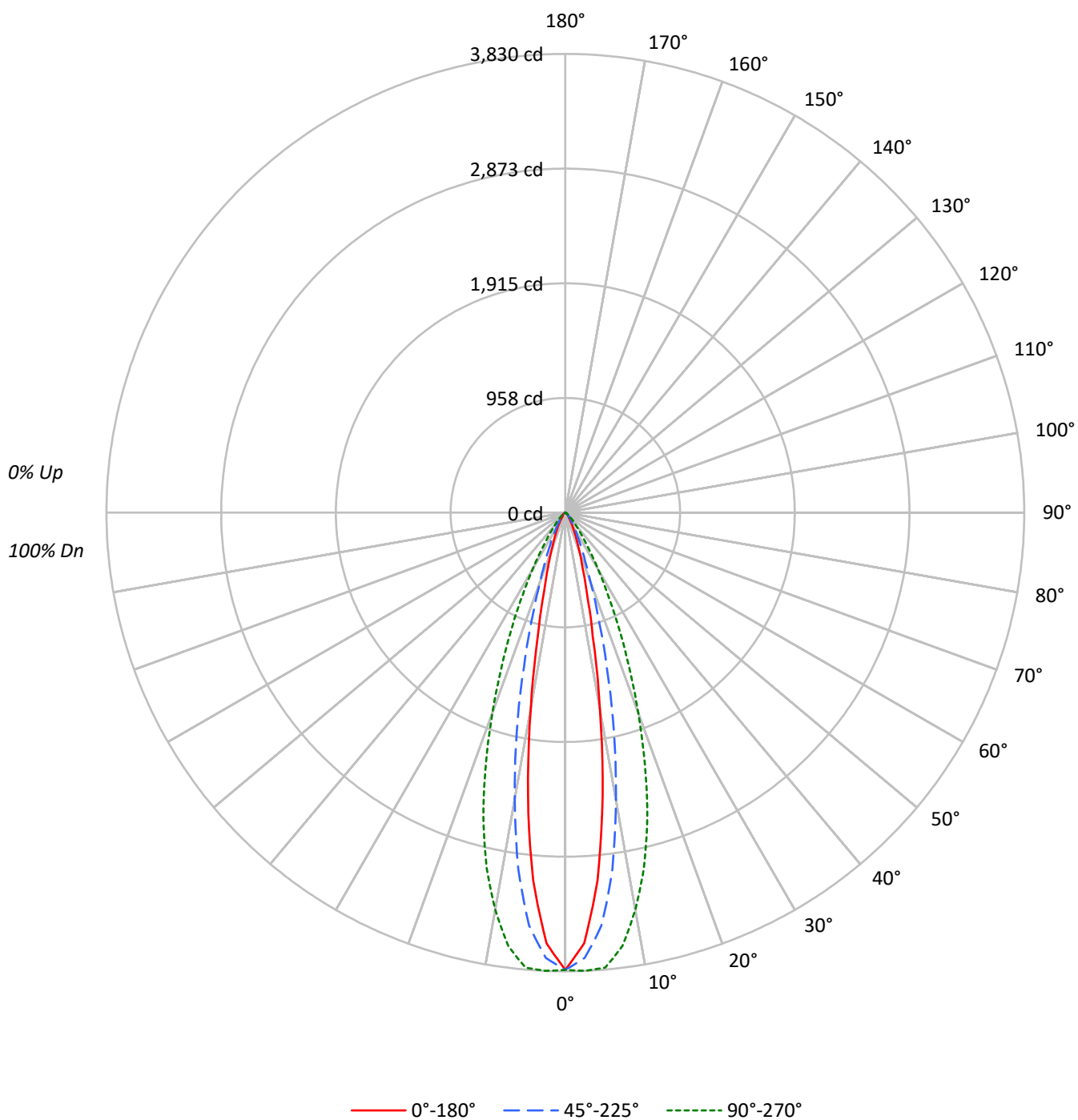
Lumens per Lamp: N/A  
Luminaire Lumens: 1075.8 lumens  
Efficiency: N/A  
Efficacy: 107.6 lumens/watt  
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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  |     |     | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  | 30  | 10  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 | 100 |
| 1   | 114 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 104 | 103 |  | 102 | 101 | 100 |  | 99  | 98  | 97  | 95  |
| 2   | 110 | 106 | 102 | 99  | 108 | 104 | 101 | 98  | 101 | 98  | 96  |  | 98  | 96  | 94  |  | 95  | 94  | 92  | 91  |
| 3   | 106 | 100 | 96  | 93  | 104 | 99  | 95  | 92  | 96  | 93  | 91  |  | 94  | 92  | 89  |  | 92  | 90  | 88  | 87  |
| 4   | 102 | 95  | 91  | 88  | 100 | 94  | 90  | 87  | 92  | 89  | 86  |  | 90  | 87  | 85  |  | 89  | 86  | 84  | 83  |
| 5   | 98  | 91  | 86  | 83  | 97  | 90  | 86  | 83  | 89  | 85  | 82  |  | 87  | 84  | 81  |  | 86  | 83  | 81  | 79  |
| 6   | 94  | 87  | 83  | 79  | 93  | 87  | 82  | 79  | 85  | 81  | 78  |  | 84  | 80  | 78  |  | 83  | 80  | 77  | 76  |
| 7   | 91  | 84  | 79  | 76  | 90  | 83  | 79  | 75  | 82  | 78  | 75  |  | 81  | 77  | 75  |  | 80  | 77  | 74  | 73  |
| 8   | 88  | 81  | 76  | 73  | 87  | 80  | 76  | 72  | 79  | 75  | 72  |  | 78  | 75  | 72  |  | 77  | 74  | 72  | 70  |
| 9   | 85  | 78  | 73  | 70  | 84  | 77  | 73  | 70  | 76  | 72  | 70  |  | 76  | 72  | 69  |  | 75  | 72  | 69  | 68  |
| 10  | 83  | 75  | 70  | 67  | 82  | 75  | 70  | 67  | 74  | 70  | 67  |  | 73  | 70  | 67  |  | 73  | 69  | 67  | 66  |

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

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 1883113 | 1883113 | 1883113 |
| 5°  | 1526399 | 1714394 | 1887978 |
| 10° | 829861  | 1217213 | 1685923 |
| 15° | 350998  | 683047  | 1349494 |
| 20° | 179191  | 321210  | 933126  |
| 25° | 99238   | 164289  | 568752  |
| 30° | 55544   | 91264   | 310137  |
| 35° | 32162   | 55229   | 158039  |
| 40° | 23894   | 41862   | 87460   |
| 45° | 21071   | 28327   | 51841   |
| 50° | 22259   | 18728   | 27631   |
| 55° | 15999   | 12988   | 14967   |
| 60° | 10262   | 9177    | 9177    |
| 65° | 8172    | 8172    | 8172    |
| 70° | 6635    | 6635    | 6635    |
| 75° | 6672    | 6672    | 6672    |
| 80° | 6535    | 6535    | 6535    |
| 85° | 6793    | 6793    | 6793    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 51841 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 297.4  | 27.6      |
| 10°-20°   | 420.6  | 39.1      |
| 20°-30°   | 216.6  | 20.1      |
| 30°-40°   | 79.7   | 7.4       |
| 40°-50°   | 35.0   | 3.3       |
| 50°-60°   | 15.4   | 1.4       |
| 60°-70°   | 6.7    | 0.6       |
| 70°-80°   | 3.4    | 0.3       |
| 80°-90°   | 1.0    | 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       |
| 0°-30°    | 934.6  | 86.9      |
| 0°-40°    | 1014.3 | 94.3      |
| 0°-60°    | 1064.7 | 99.0      |
| 0°-90°    | 1075.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1075.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 3817 | 3817  | 3817 | 3817  | 3817 |      |
| 5°  | 3082 | 3186  | 3462 | 3707  | 3812 | 248  |
| 15° | 687  | 799   | 1337 | 2231  | 2642 | 210  |
| 25° | 182  | 204   | 302  | 693   | 1045 | 87   |
| 35° | 53   | 62    | 92   | 160   | 262  | 36   |
| 45° | 30   | 35    | 41   | 49    | 74   | 24   |
| 55° | 19   | 16    | 15   | 16    | 17   | 17   |
| 65° | 7    | 7     | 7    | 6     | 7    | 7    |
| 75° | 4    | 4     | 4    | 4     | 4    | 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°    | 3816.9 | 3816.9 | 3816.9 | 3816.9 | 3816.9 |
| 2.5°  | 3598.6 | 3641.6 | 3721.7 | 3798.3 | 3829.6 |
| 5°    | 3082.1 | 3186.5 | 3461.7 | 3706.6 | 3812.2 |
| 7.5°  | 2386.7 | 2558.5 | 3004.3 | 3462.8 | 3650.9 |
| 10°   | 1656.5 | 1830.7 | 2429.7 | 3089.0 | 3365.3 |
| 12.5° | 1056.4 | 1225.9 | 1872.4 | 2674.6 | 3033.3 |
| 15°   | 687.2  | 798.7  | 1337.3 | 2231.2 | 2642.1 |
| 17.5° | 477.1  | 556.0  | 910.1  | 1761.0 | 2209.1 |
| 20°   | 341.3  | 397.0  | 611.8  | 1343.1 | 1777.3 |
| 22.5° | 247.3  | 285.6  | 424.9  | 980.9  | 1381.4 |
| 25°   | 182.3  | 204.3  | 301.8  | 693.0  | 1044.8 |
| 27.5° | 134.7  | 148.6  | 218.2  | 478.3  | 763.8  |
| 30°   | 97.5   | 109.1  | 160.2  | 328.5  | 544.4  |
| 32.5° | 70.8   | 81.3   | 119.6  | 227.5  | 379.6  |
| 35°   | 53.4   | 61.5   | 91.7   | 160.2  | 262.4  |
| 37.5° | 44.1   | 48.8   | 75.5   | 116.1  | 185.7  |
| 40°   | 37.1   | 41.8   | 65.0   | 85.9   | 135.8  |
| 42.5° | 32.5   | 38.3   | 53.4   | 63.8   | 102.2  |
| 45°   | 30.2   | 34.8   | 40.6   | 48.8   | 74.3   |
| 47.5° | 30.2   | 29.0   | 31.3   | 37.1   | 52.2   |
| 50°   | 29.0   | 24.4   | 24.4   | 29.0   | 36.0   |
| 52.5° | 24.4   | 19.7   | 19.7   | 20.9   | 24.4   |
| 55°   | 18.6   | 16.3   | 15.1   | 16.3   | 17.4   |
| 57.5° | 13.9   | 13.9   | 12.8   | 11.6   | 12.8   |
| 60°   | 10.4   | 10.4   | 9.3    | 9.3    | 9.3    |
| 62.5° | 8.1    | 8.1    | 8.1    | 7.0    | 8.1    |
| 65°   | 7.0    | 7.0    | 7.0    | 5.8    | 7.0    |
| 67.5° | 5.8    | 5.8    | 4.6    | 5.8    | 5.8    |
| 70°   | 4.6    | 4.6    | 4.6    | 4.6    | 4.6    |
| 72.5° | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    |
| 75°   | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    |
| 77.5° | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    |
| 80°   | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    |
| 82.5° | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    |
| 85°   | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    |
| 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)