

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: P1178747

Luminaire Tested: LDA2B108040R2050D010 2LBD1LI

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1178747  
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: LDA2B108040R2050D010 2LBD1LI  
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

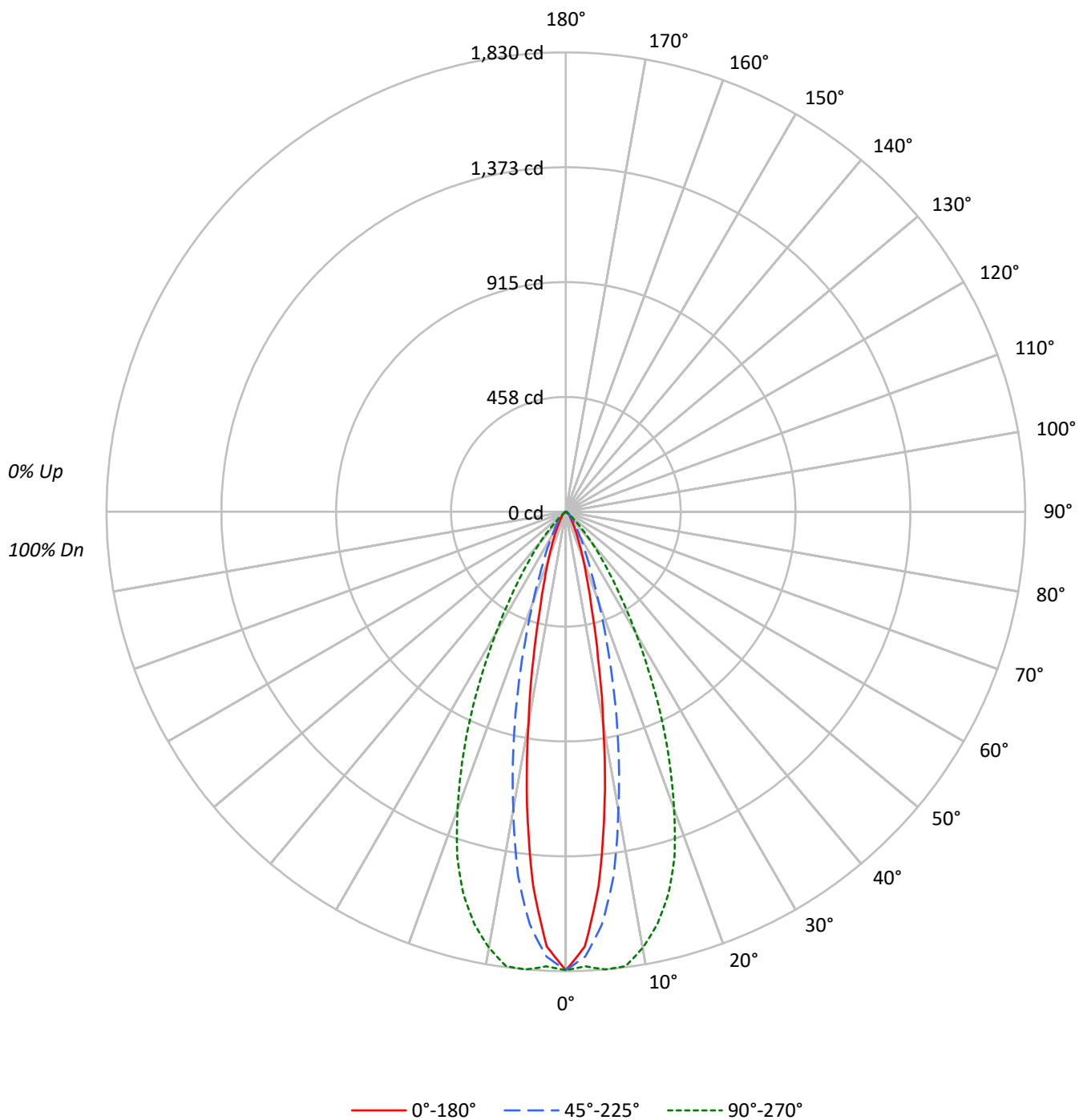
Lumens per Lamp: N/A  
Luminaire Lumens: 656.3 lumens  
Efficiency: N/A  
Efficacy: 65.6 lumens/watt  
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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  |     |     | 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 | 109 | 107 | 112 | 109 | 107 | 106 | 105 | 104 | 102 |  | 102 | 100 | 99  |  | 98  | 97  | 96  | 95  |
| 2   | 109 | 105 | 101 | 98  | 107 | 103 | 100 | 97  | 100 | 97  | 95  |  | 97  | 95  | 93  |  | 94  | 93  | 91  | 90  |
| 3   | 105 | 99  | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 92  | 89  |  | 93  | 90  | 88  |  | 90  | 88  | 86  | 85  |
| 4   | 100 | 94  | 89  | 85  | 99  | 93  | 88  | 85  | 91  | 87  | 84  |  | 89  | 85  | 83  |  | 87  | 84  | 82  | 80  |
| 5   | 96  | 89  | 84  | 80  | 95  | 88  | 83  | 80  | 86  | 82  | 79  |  | 85  | 81  | 78  |  | 83  | 80  | 78  | 76  |
| 6   | 92  | 85  | 80  | 76  | 91  | 84  | 79  | 76  | 83  | 78  | 75  |  | 81  | 77  | 75  |  | 80  | 77  | 74  | 73  |
| 7   | 89  | 81  | 76  | 72  | 88  | 80  | 75  | 72  | 79  | 75  | 71  |  | 78  | 74  | 71  |  | 77  | 73  | 71  | 70  |
| 8   | 85  | 77  | 72  | 69  | 84  | 77  | 72  | 69  | 76  | 71  | 68  |  | 75  | 71  | 68  |  | 74  | 70  | 68  | 67  |
| 9   | 82  | 74  | 69  | 66  | 81  | 74  | 69  | 66  | 73  | 68  | 65  |  | 72  | 68  | 65  |  | 71  | 68  | 65  | 64  |
| 10  | 79  | 71  | 66  | 63  | 79  | 71  | 66  | 63  | 70  | 66  | 63  |  | 69  | 65  | 62  |  | 69  | 65  | 62  | 61  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 900780 | 900780 | 900780 |
| 5°  | 740591 | 817107 | 906499 |
| 10° | 429885 | 603822 | 883766 |
| 15° | 200271 | 376077 | 805375 |
| 20° | 105530 | 198249 | 662004 |
| 25° | 58465  | 107349 | 488241 |
| 30° | 34238  | 62893  | 315776 |
| 35° | 21983  | 42160  | 187069 |
| 40° | 17131  | 28466  | 103948 |
| 45° | 14861  | 17024  | 46189  |
| 50° | 13432  | 11667  | 16963  |
| 55° | 9204   | 8515   | 7827   |
| 60° | 6808   | 6019   | 6019   |
| 65° | 5370   | 4436   | 5370   |
| 70° | 4327   | 4327   | 4327   |
| 75° | 4384   | 4384   | 4384   |
| 80° | 4262   | 4262   | 4262   |
| 85° | 4529   | 4529   | 4529   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 46189 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 145.4  | 22.2      |
| 10°-20°   | 238.0  | 36.3      |
| 20°-30°   | 158.8  | 24.2      |
| 30°-40°   | 71.6   | 10.9      |
| 40°-50°   | 26.2   | 4.0       |
| 50°-60°   | 9.2    | 1.4       |
| 60°-70°   | 4.3    | 0.7       |
| 70°-80°   | 2.2    | 0.3       |
| 80°-90°   | 0.6    | 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°    | 542.2  | 82.6      |
| 0°-40°    | 613.8  | 93.5      |
| 0°-60°    | 649.1  | 98.9      |
| 0°-90°    | 656.3  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 656.3  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1826 | 1826  | 1826 | 1826  | 1826 |      |
| 5°  | 1495 | 1542  | 1650 | 1770  | 1830 | 122  |
| 15° | 392  | 461   | 736  | 1244  | 1577 | 117  |
| 25° | 107  | 125   | 197  | 538   | 897  | 52   |
| 35° | 36   | 41    | 70   | 152   | 311  | 24   |
| 45° | 21   | 21    | 24   | 38    | 66   | 17   |
| 55° | 11   | 10    | 10   | 8     | 9    | 10   |
| 65° | 5    | 5     | 4    | 4     | 5    | 5    |
| 75° | 2    | 2     | 2    | 2     | 2    | 2    |
| 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°    | 1825.8 | 1825.8 | 1825.8 | 1825.8 | 1825.8 |
| 2.5°  | 1733.7 | 1752.0 | 1773.3 | 1795.4 | 1812.9 |
| 5°    | 1495.4 | 1541.8 | 1649.9 | 1770.2 | 1830.4 |
| 7.5°  | 1182.4 | 1251.0 | 1461.1 | 1698.7 | 1825.8 |
| 10°   | 858.1  | 945.6  | 1205.3 | 1574.6 | 1764.1 |
| 12.5° | 590.1  | 672.3  | 967.0  | 1417.7 | 1682.7 |
| 15°   | 392.1  | 460.6  | 736.3  | 1244.1 | 1576.8 |
| 17.5° | 276.4  | 322.8  | 535.3  | 1054.5 | 1440.5 |
| 20°   | 201.0  | 232.2  | 377.6  | 868.7  | 1260.9 |
| 22.5° | 146.2  | 169.8  | 268.8  | 694.4  | 1078.9 |
| 25°   | 107.4  | 124.9  | 197.2  | 537.5  | 896.9  |
| 27.5° | 79.9   | 93.7   | 147.7  | 408.1  | 714.9  |
| 30°   | 60.1   | 71.6   | 110.4  | 300.7  | 554.3  |
| 32.5° | 46.4   | 54.1   | 84.5   | 214.7  | 419.5  |
| 35°   | 36.5   | 41.1   | 70.0   | 151.5  | 310.6  |
| 37.5° | 30.5   | 33.5   | 57.9   | 105.8  | 227.7  |
| 40°   | 26.6   | 28.9   | 44.2   | 75.4   | 161.4  |
| 42.5° | 23.6   | 25.1   | 32.0   | 54.1   | 105.1  |
| 45°   | 21.3   | 21.3   | 24.4   | 38.1   | 66.2   |
| 47.5° | 19.8   | 17.5   | 19.0   | 26.6   | 38.8   |
| 50°   | 17.5   | 14.5   | 15.2   | 18.3   | 22.1   |
| 52.5° | 13.7   | 12.2   | 12.2   | 12.2   | 12.9   |
| 55°   | 10.7   | 9.9    | 9.9    | 8.4    | 9.1    |
| 57.5° | 8.4    | 8.4    | 7.6    | 6.9    | 7.6    |
| 60°   | 6.9    | 6.9    | 6.1    | 5.3    | 6.1    |
| 62.5° | 5.3    | 5.3    | 4.6    | 4.6    | 5.3    |
| 65°   | 4.6    | 4.6    | 3.8    | 3.8    | 4.6    |
| 67.5° | 3.8    | 3.8    | 3.8    | 3.0    | 3.8    |
| 70°   | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    |
| 72.5° | 2.3    | 2.3    | 3.0    | 2.3    | 2.3    |
| 75°   | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    |
| 77.5° | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    |
| 80°   | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    |
| 82.5° | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    |
| 85°   | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    |
| 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)