

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: P1179034

Luminaire Tested: LDA2B109050R2060D010 2LBD1MB

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1179034  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2010-034-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/17/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDA2B109050R2060D010 2LBD1MB  
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

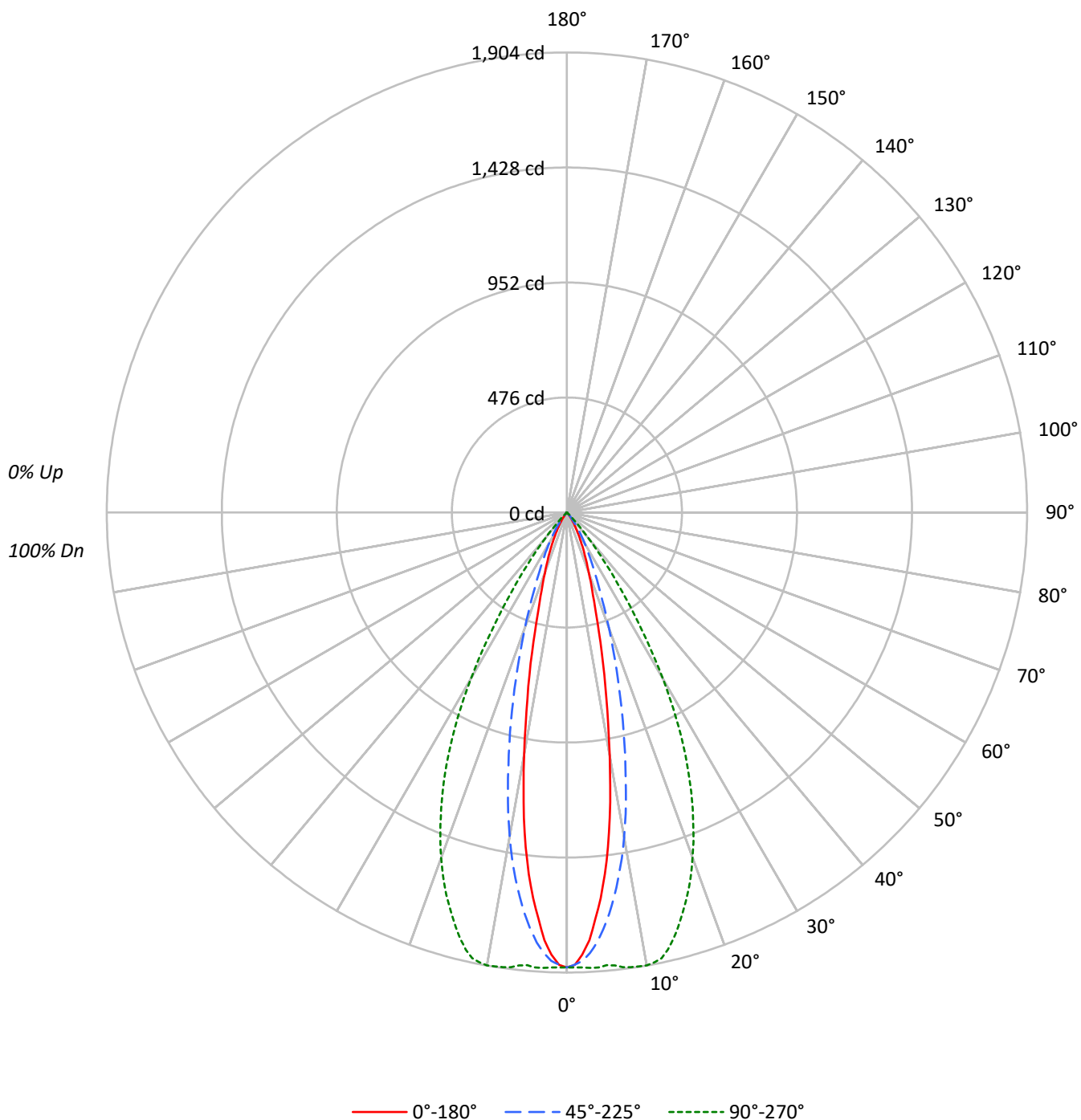
Lumens per Lamp: N/A  
Luminaire Lumens: 749.9 lumens  
Efficiency: N/A  
Efficacy: 75.0 lumens/watt  
Spacing Criteria (0/90/45): 0.36 / 0.9 / 0.52  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P1179034

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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 | 102 | 102 | 100 |
| 1   | 114 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 104 | 103 | 102 | 101 | 100 | 99  | 98  | 97  | 97  | 97  | 95  |
| 2   | 110 | 106 | 102 | 99  | 108 | 104 | 101 | 98  | 101 | 98  | 96  | 98  | 96  | 94  | 95  | 93  | 92  | 92  | 92  | 90  |
| 3   | 105 | 100 | 96  | 92  | 103 | 99  | 95  | 92  | 96  | 93  | 90  | 94  | 91  | 89  | 91  | 89  | 87  | 87  | 87  | 86  |
| 4   | 101 | 95  | 90  | 87  | 99  | 94  | 89  | 86  | 92  | 88  | 85  | 90  | 87  | 84  | 88  | 85  | 83  | 83  | 83  | 82  |
| 5   | 97  | 90  | 85  | 82  | 96  | 89  | 85  | 81  | 88  | 84  | 81  | 86  | 83  | 80  | 85  | 82  | 79  | 79  | 79  | 78  |
| 6   | 93  | 86  | 81  | 77  | 92  | 85  | 81  | 77  | 84  | 80  | 77  | 82  | 79  | 76  | 81  | 78  | 76  | 76  | 76  | 74  |
| 7   | 90  | 82  | 77  | 74  | 89  | 81  | 77  | 73  | 80  | 76  | 73  | 79  | 75  | 73  | 78  | 75  | 72  | 72  | 72  | 71  |
| 8   | 86  | 79  | 74  | 70  | 85  | 78  | 73  | 70  | 77  | 73  | 70  | 76  | 72  | 69  | 75  | 72  | 69  | 69  | 69  | 68  |
| 9   | 83  | 75  | 70  | 67  | 82  | 75  | 70  | 67  | 74  | 70  | 67  | 73  | 69  | 66  | 72  | 69  | 66  | 66  | 66  | 65  |
| 10  | 80  | 72  | 67  | 64  | 79  | 72  | 67  | 64  | 71  | 67  | 64  | 70  | 66  | 64  | 70  | 66  | 64  | 64  | 64  | 62  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 928951 | 928951 | 928951 |
| 5°  | 793286 | 857470 | 931558 |
| 10° | 510742 | 683577 | 953802 |
| 15° | 261972 | 455909 | 907631 |
| 20° | 139919 | 266450 | 798300 |
| 25° | 78007  | 146053 | 649372 |
| 30° | 41587  | 83174  | 452330 |
| 35° | 18129  | 40112  | 235794 |
| 40° | 5281   | 11786  | 89328  |
| 45° | 1256   | 3210   | 13396  |
| 50° | 691    | 691    | 1382   |
| 55° | 774    | 774    | 774    |
| 60° | 0      | 888    | 888    |
| 65° | 0      | 1051   | 1051   |
| 70° | 0      | 1298   | 1298   |
| 75° | 0      | 1716   | 1716   |
| 80° | 0      | 2557   | 2557   |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 13396 cd/sqm

TEST NUMBER: P1179034

CATALOG NUMBER: LDA2B109050R2060D010 2LBD1MB

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 155.4  | 20.7      |
| 10°-20°   | 282.9  | 37.7      |
| 20°-30°   | 214.4  | 28.6      |
| 30°-40°   | 85.8   | 11.4      |
| 40°-50°   | 8.7    | 1.2       |
| 50°-60°   | 0.9    | 0.1       |
| 60°-70°   | 0.8    | 0.1       |
| 70°-80°   | 0.8    | 0.1       |
| 80°-90°   | 0.2    | 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°    | 652.7  | 87.0      |
| 0°-40°    | 738.5  | 98.5      |
| 0°-60°    | 748.1  | 99.8      |
| 0°-90°    | 749.9  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 749.9  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1883 | 1883  | 1883 | 1883  | 1883 |      |
| 5°  | 1602 | 1637  | 1731 | 1832  | 1881 | 134  |
| 15° | 513  | 595   | 893  | 1469  | 1777 | 147  |
| 25° | 143  | 167   | 268  | 767   | 1193 | 68   |
| 35° | 30   | 37    | 67   | 203   | 392  | 21   |
| 45° | 2    | 3     | 5    | 9     | 19   | 2    |
| 55° | 1    | 1     | 1    | 1     | 1    | 0    |
| 65° | 0    | 1     | 1    | 1     | 1    | 0    |
| 75° | 0    | 1     | 1    | 1     | 1    | 0    |
| 85° | 0    | 0     | 0    | 0     | 0    | 0    |
| 90° | 0    | 0     | 0    | 0     | 0    | 0    |

TEST NUMBER: P1179034

CATALOG NUMBER: LDA2B109050R2060D010 2LBD1MB

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1882.9 | 1882.9 | 1882.9 | 1882.9 | 1882.9 |
| 1°    | 1872.8 | 1873.7 | 1871.9 | 1874.6 | 1883.8 |
| 2°    | 1830.8 | 1844.5 | 1856.4 | 1868.3 | 1883.8 |
| 3°    | 1772.4 | 1788.9 | 1826.3 | 1863.7 | 1887.4 |
| 4°    | 1686.6 | 1720.4 | 1784.3 | 1852.7 | 1887.4 |
| 5°    | 1601.8 | 1637.3 | 1731.4 | 1831.8 | 1881.0 |
| 6°    | 1505.0 | 1556.1 | 1670.2 | 1811.7 | 1884.7 |
| 7°    | 1395.5 | 1458.5 | 1602.7 | 1798.9 | 1895.6 |
| 8°    | 1276.8 | 1348.0 | 1528.7 | 1771.5 | 1900.2 |
| 9°    | 1145.4 | 1232.1 | 1450.2 | 1738.7 | 1902.0 |
| 10°   | 1019.5 | 1110.7 | 1364.5 | 1701.2 | 1903.9 |
| 11°   | 893.5  | 988.4  | 1271.4 | 1664.7 | 1896.6 |
| 12°   | 786.7  | 877.1  | 1173.7 | 1626.4 | 1885.6 |
| 13°   | 688.2  | 775.8  | 1077.0 | 1580.8 | 1857.3 |
| 14°   | 596.9  | 682.7  | 983.9  | 1527.8 | 1819.9 |
| 15°   | 512.9  | 595.1  | 892.6  | 1469.4 | 1777.0 |
| 16°   | 437.2  | 513.8  | 805.0  | 1404.6 | 1729.5 |
| 17°   | 382.4  | 443.6  | 722.8  | 1336.2 | 1683.0 |
| 18°   | 339.5  | 385.2  | 645.3  | 1268.6 | 1633.7 |
| 19°   | 301.2  | 337.7  | 573.2  | 1198.3 | 1578.9 |
| 20°   | 266.5  | 299.4  | 507.5  | 1125.3 | 1520.5 |
| 21°   | 237.3  | 265.6  | 446.3  | 1053.2 | 1461.2 |
| 22°   | 211.7  | 236.4  | 391.5  | 982.0  | 1396.4 |
| 23°   | 188.0  | 209.9  | 345.0  | 909.9  | 1331.6 |
| 24°   | 165.2  | 188.9  | 303.9  | 836.9  | 1264.1 |
| 25°   | 143.3  | 167.0  | 268.3  | 766.7  | 1192.9 |
| 26°   | 125.9  | 147.9  | 238.2  | 698.2  | 1118.9 |
| 27°   | 108.6  | 131.4  | 211.7  | 632.5  | 1044.1 |
| 28°   | 94.9   | 115.9  | 188.0  | 569.5  | 962.9  |
| 29°   | 82.1   | 102.2  | 166.1  | 507.5  | 879.8  |
| 30°   | 73.0   | 88.5   | 146.0  | 449.0  | 794.0  |
| 32.5° | 50.2   | 59.3   | 102.2  | 315.8  | 579.6  |
| 35°   | 30.1   | 37.4   | 66.6   | 202.6  | 391.5  |
| 37.5° | 16.4   | 20.1   | 38.3   | 121.4  | 246.4  |
| 40°   | 8.2    | 10.0   | 18.3   | 59.3   | 138.7  |
| 42.5° | 3.7    | 4.6    | 8.2    | 22.8   | 59.3   |
| 45°   | 1.8    | 2.7    | 4.6    | 9.1    | 19.2   |
| 47.5° | 0.9    | 1.8    | 1.8    | 3.7    | 5.5    |
| 50°   | 0.9    | 0.9    | 0.9    | 1.8    | 1.8    |
| 52.5° | 0.9    | 0.9    | 0.9    | 1.8    | 1.8    |
| 55°   | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    |
| 57.5° | 0.0    | 0.9    | 0.9    | 0.9    | 0.9    |
| 60°   | 0.0    | 0.9    | 0.9    | 0.9    | 0.9    |
| 62.5° | 0.0    | 0.9    | 0.9    | 0.9    | 0.9    |
| 65°   | 0.0    | 0.9    | 0.9    | 0.9    | 0.9    |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 22.5° | 45° | 67.5° | 90° |
|-------|-----|-------|-----|-------|-----|
| 67.5° | 0.0 | 0.9   | 0.9 | 0.9   | 0.9 |
| 70°   | 0.0 | 0.9   | 0.9 | 0.9   | 0.9 |
| 72.5° | 0.0 | 0.9   | 0.9 | 0.9   | 0.9 |
| 75°   | 0.0 | 0.9   | 0.9 | 0.9   | 0.9 |
| 77.5° | 0.0 | 0.9   | 0.9 | 0.9   | 0.9 |
| 80°   | 0.0 | 0.0   | 0.9 | 0.9   | 0.9 |
| 82.5° | 0.0 | 0.0   | 0.9 | 0.9   | 0.9 |
| 85°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 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)