

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: P1178652

Luminaire Tested: LDA2B108027R2060D010 2LBD1WMH

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1178652  
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: LDA2B108027R2060D010 2LBD1WMH  
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 2700K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

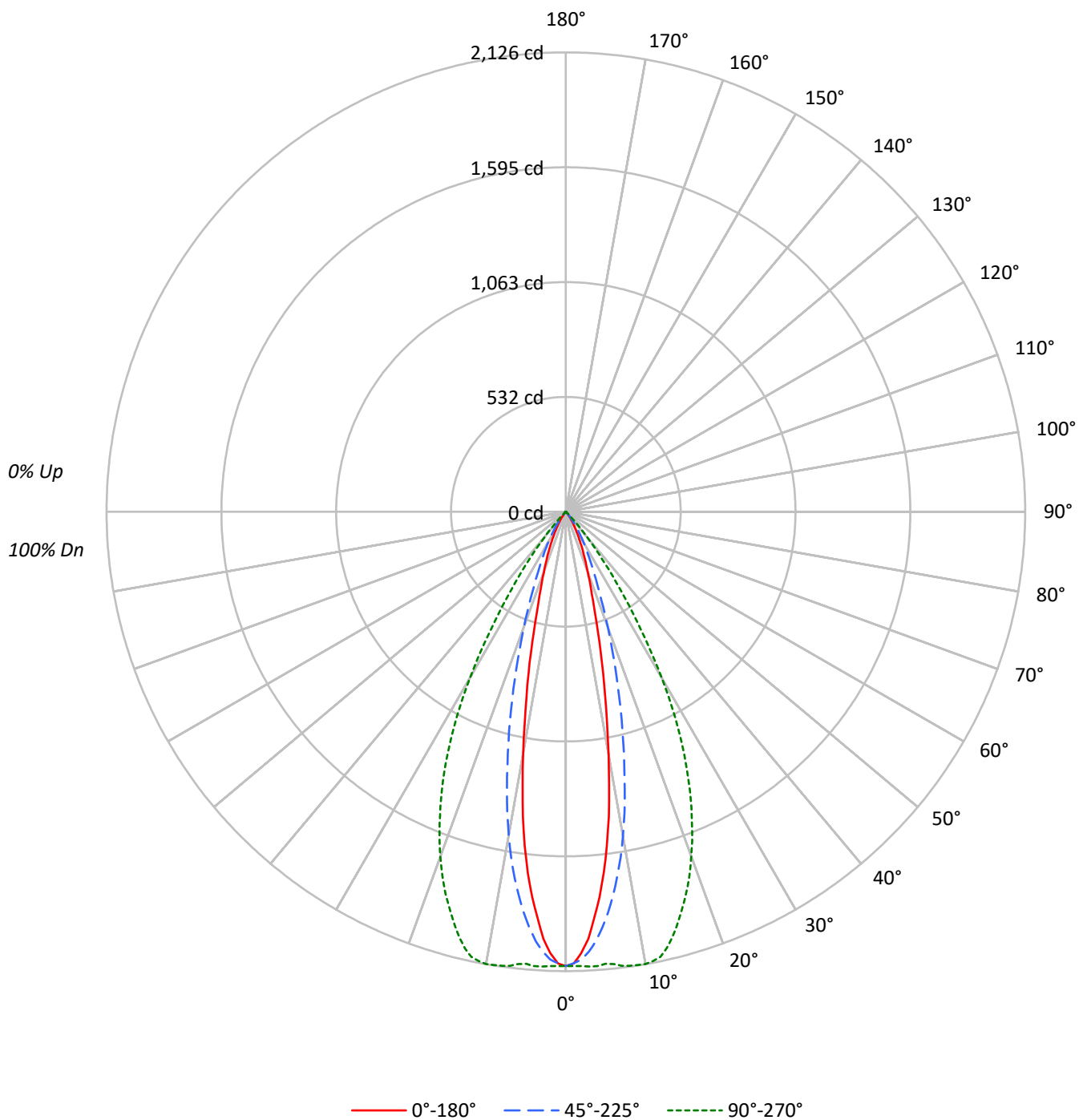
Lumens per Lamp: N/A  
Luminaire Lumens: 837.4 lumens  
Efficiency: N/A  
Efficacy: 83.7 lumens/watt  
Spacing Criteria (0/90/45): 0.36 / 0.9 / 0.52  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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

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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  | 83  | 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°  | 1037293 | 1037293 | 1037293 |
| 5°  | 885798  | 957460  | 1040265 |
| 10° | 570307  | 763282  | 1065018 |
| 15° | 292567  | 509080  | 1013512 |
| 20° | 156247  | 297479  | 891439  |
| 25° | 87098   | 163092  | 725094  |
| 30° | 46429   | 92916   | 505140  |
| 35° | 20237   | 44810   | 263318  |
| 40° | 5925    | 13138   | 99761   |
| 45° | 1395    | 3558    | 14931   |
| 50° | 768     | 768     | 1535    |
| 55° | 860     | 860     | 860     |
| 60° | 0       | 987     | 987     |
| 65° | 0       | 1167    | 1167    |
| 70° | 0       | 1442    | 1442    |
| 75° | 0       | 1906    | 1906    |
| 80° | 0       | 2841    | 2841    |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 14931 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 173.5  | 20.7      |
| 10°-20°   | 315.9  | 37.7      |
| 20°-30°   | 239.5  | 28.6      |
| 30°-40°   | 95.8   | 11.4      |
| 40°-50°   | 9.7    | 1.2       |
| 50°-60°   | 1.0    | 0.1       |
| 60°-70°   | 0.9    | 0.1       |
| 70°-80°   | 0.9    | 0.1       |
| 80°-90°   | 0.3    | 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°    | 728.9  | 87.0      |
| 0°-40°    | 824.7  | 98.5      |
| 0°-60°    | 835.4  | 99.8      |
| 0°-90°    | 837.4  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 837.4  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2102 | 2102  | 2102 | 2102  | 2102 |      |
| 5°  | 1789 | 1828  | 1933 | 2045  | 2100 | 150  |
| 15° | 573  | 664   | 997  | 1641  | 1984 | 164  |
| 25° | 160  | 186   | 300  | 856   | 1332 | 76   |
| 35° | 34   | 42    | 74   | 226   | 437  | 23   |
| 45° | 2    | 3     | 5    | 10    | 21   | 2    |
| 55° | 1    | 1     | 1    | 1     | 1    | 1    |
| 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    |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2102.5 | 2102.5 | 2102.5 | 2102.5 | 2102.5 |
| 1°    | 2091.3 | 2092.3 | 2090.3 | 2093.3 | 2103.5 |
| 2°    | 2044.4 | 2059.7 | 2072.9 | 2086.2 | 2103.5 |
| 3°    | 1979.2 | 1997.5 | 2039.3 | 2081.1 | 2107.6 |
| 4°    | 1883.4 | 1921.1 | 1992.4 | 2068.9 | 2107.6 |
| 5°    | 1788.6 | 1828.4 | 1933.3 | 2045.4 | 2100.5 |
| 6°    | 1680.6 | 1737.6 | 1865.0 | 2023.0 | 2104.5 |
| 7°    | 1558.3 | 1628.6 | 1789.6 | 2008.7 | 2116.8 |
| 8°    | 1425.8 | 1505.3 | 1707.1 | 1978.2 | 2121.9 |
| 9°    | 1279.0 | 1375.9 | 1619.4 | 1941.5 | 2123.9 |
| 10°   | 1138.4 | 1240.3 | 1523.6 | 1899.7 | 2125.9 |
| 11°   | 997.7  | 1103.7 | 1419.7 | 1858.9 | 2117.8 |
| 12°   | 878.5  | 979.4  | 1310.6 | 1816.1 | 2105.6 |
| 13°   | 768.4  | 866.3  | 1202.6 | 1765.2 | 2074.0 |
| 14°   | 666.5  | 762.3  | 1098.6 | 1706.1 | 2032.2 |
| 15°   | 572.8  | 664.5  | 996.7  | 1640.8 | 1984.3 |
| 16°   | 488.2  | 573.8  | 898.9  | 1568.5 | 1931.3 |
| 17°   | 427.0  | 495.3  | 807.2  | 1492.0 | 1879.3 |
| 18°   | 379.1  | 430.1  | 720.5  | 1416.6 | 1824.3 |
| 19°   | 336.3  | 377.1  | 640.0  | 1338.1 | 1763.1 |
| 20°   | 297.6  | 334.3  | 566.6  | 1256.6 | 1697.9 |
| 21°   | 265.0  | 296.6  | 498.4  | 1176.1 | 1631.7 |
| 22°   | 236.4  | 264.0  | 437.2  | 1096.6 | 1559.3 |
| 23°   | 209.9  | 234.4  | 385.2  | 1016.1 | 1486.9 |
| 24°   | 184.5  | 211.0  | 339.4  | 934.6  | 1411.5 |
| 25°   | 160.0  | 186.5  | 299.6  | 856.1  | 1332.0 |
| 26°   | 140.6  | 165.1  | 266.0  | 779.6  | 1249.5 |
| 27°   | 121.3  | 146.8  | 236.4  | 706.3  | 1165.9 |
| 28°   | 106.0  | 129.4  | 209.9  | 635.9  | 1075.2 |
| 29°   | 91.7   | 114.1  | 185.5  | 566.6  | 982.5  |
| 30°   | 81.5   | 98.9   | 163.1  | 501.4  | 886.7  |
| 32.5° | 56.1   | 66.2   | 114.1  | 352.6  | 647.2  |
| 35°   | 33.6   | 41.8   | 74.4   | 226.3  | 437.2  |
| 37.5° | 18.3   | 22.4   | 42.8   | 135.5  | 275.2  |
| 40°   | 9.2    | 11.2   | 20.4   | 66.2   | 154.9  |
| 42.5° | 4.1    | 5.1    | 9.2    | 25.5   | 66.2   |
| 45°   | 2.0    | 3.1    | 5.1    | 10.2   | 21.4   |
| 47.5° | 1.0    | 2.0    | 2.0    | 4.1    | 6.1    |
| 50°   | 1.0    | 1.0    | 1.0    | 2.0    | 2.0    |
| 52.5° | 1.0    | 1.0    | 1.0    | 2.0    | 2.0    |
| 55°   | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| 57.5° | 0.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| 60°   | 0.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| 62.5° | 0.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| 65°   | 0.0    | 1.0    | 1.0    | 1.0    | 1.0    |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 22.5° | 45° | 67.5° | 90° |
|-------|-----|-------|-----|-------|-----|
| 67.5° | 0.0 | 1.0   | 1.0 | 1.0   | 1.0 |
| 70°   | 0.0 | 1.0   | 1.0 | 1.0   | 1.0 |
| 72.5° | 0.0 | 1.0   | 1.0 | 1.0   | 1.0 |
| 75°   | 0.0 | 1.0   | 1.0 | 1.0   | 1.0 |
| 77.5° | 0.0 | 1.0   | 1.0 | 1.0   | 1.0 |
| 80°   | 0.0 | 0.0   | 1.0 | 1.0   | 1.0 |
| 82.5° | 0.0 | 0.0   | 1.0 | 1.0   | 1.0 |
| 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)