

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: P1178992

Luminaire Tested: LDA2B109040R2060D010 2LBD1GPH

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1178992  
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: LDA2B109040R2060D010 2LBD1GPH  
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

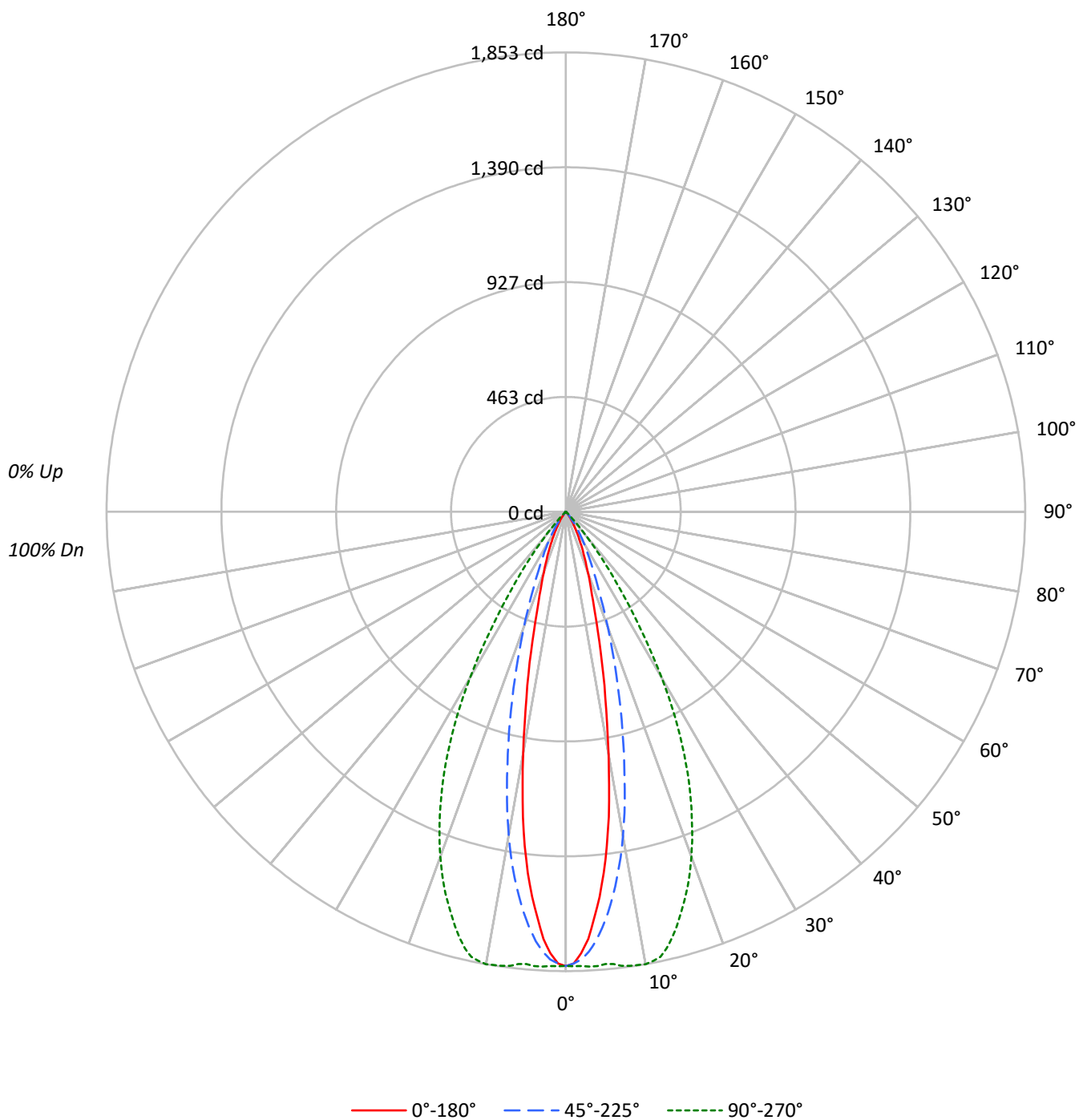
Lumens per Lamp: N/A  
Luminaire Lumens: 730.0 lumens  
Efficiency: N/A  
Efficacy: 73.0 lumens/watt  
Spacing Criteria (0/90/45): 0.36 / 0.9 / 0.52  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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

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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°  | 904184 | 904184 | 904184 |
| 5°  | 772139 | 834589 | 906747 |
| 10° | 497115 | 665342 | 928403 |
| 15° | 255025 | 443753 | 883471 |
| 20° | 136191 | 259310 | 777036 |
| 25° | 75939  | 142188 | 632062 |
| 30° | 40505  | 80952  | 440310 |
| 35° | 17647  | 39088  | 229530 |
| 40° | 5152   | 11464  | 86945  |
| 45° | 1256   | 3070   | 13047  |
| 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: 13047 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 151.3  | 20.7      |
| 10°-20°   | 275.4  | 37.7      |
| 20°-30°   | 208.7  | 28.6      |
| 30°-40°   | 83.5   | 11.4      |
| 40°-50°   | 8.5    | 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°    | 635.4  | 87.0      |
| 0°-40°    | 718.9  | 98.5      |
| 0°-60°    | 728.2  | 99.8      |
| 0°-90°    | 730.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 730.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1833 | 1833  | 1833 | 1833  | 1833 |      |
| 5°  | 1559 | 1594  | 1685 | 1783  | 1831 | 131  |
| 15° | 499  | 579   | 869  | 1430  | 1730 | 143  |
| 25° | 140  | 163   | 261  | 746   | 1161 | 66   |
| 35° | 29   | 36    | 65   | 197   | 381  | 20   |
| 45° | 2    | 3     | 4    | 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    |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1832.7 | 1832.7 | 1832.7 | 1832.7 | 1832.7 |
| 1°    | 1822.9 | 1823.8 | 1822.1 | 1824.7 | 1833.6 |
| 2°    | 1782.1 | 1795.4 | 1807.0 | 1818.5 | 1833.6 |
| 3°    | 1725.2 | 1741.2 | 1777.6 | 1814.1 | 1837.2 |
| 4°    | 1641.7 | 1674.6 | 1736.8 | 1803.4 | 1837.2 |
| 5°    | 1559.1 | 1593.7 | 1685.2 | 1783.0 | 1830.9 |
| 6°    | 1464.9 | 1514.7 | 1625.7 | 1763.4 | 1834.5 |
| 7°    | 1358.3 | 1419.6 | 1560.0 | 1751.0 | 1845.2 |
| 8°    | 1242.8 | 1312.1 | 1488.0 | 1724.3 | 1849.6 |
| 9°    | 1114.9 | 1199.3 | 1411.6 | 1692.4 | 1851.4 |
| 10°   | 992.3  | 1081.2 | 1328.1 | 1655.9 | 1853.2 |
| 11°   | 869.7  | 962.1  | 1237.5 | 1620.4 | 1846.0 |
| 12°   | 765.8  | 853.7  | 1142.5 | 1583.1 | 1835.4 |
| 13°   | 669.8  | 755.1  | 1048.3 | 1538.7 | 1807.8 |
| 14°   | 581.0  | 664.5  | 957.7  | 1487.1 | 1771.4 |
| 15°   | 499.3  | 579.2  | 868.8  | 1430.3 | 1729.7 |
| 16°   | 425.5  | 500.2  | 783.5  | 1367.2 | 1683.5 |
| 17°   | 372.2  | 431.8  | 703.6  | 1300.6 | 1638.2 |
| 18°   | 330.5  | 374.9  | 628.1  | 1234.8 | 1590.2 |
| 19°   | 293.2  | 328.7  | 557.9  | 1166.4 | 1536.9 |
| 20°   | 259.4  | 291.4  | 493.9  | 1095.4 | 1480.0 |
| 21°   | 231.0  | 258.5  | 434.4  | 1025.2 | 1422.3 |
| 22°   | 206.1  | 230.1  | 381.1  | 955.9  | 1359.2 |
| 23°   | 183.0  | 204.3  | 335.8  | 885.7  | 1296.1 |
| 24°   | 160.8  | 183.9  | 295.8  | 814.6  | 1230.4 |
| 25°   | 139.5  | 162.6  | 261.2  | 746.2  | 1161.1 |
| 26°   | 122.6  | 143.9  | 231.9  | 679.6  | 1089.1 |
| 27°   | 105.7  | 127.9  | 206.1  | 615.6  | 1016.3 |
| 28°   | 92.4   | 112.8  | 183.0  | 554.3  | 937.2  |
| 29°   | 80.0   | 99.5   | 161.7  | 493.9  | 856.4  |
| 30°   | 71.1   | 86.2   | 142.1  | 437.1  | 772.9  |
| 32.5° | 48.9   | 57.7   | 99.5   | 307.4  | 564.1  |
| 35°   | 29.3   | 36.4   | 64.9   | 197.2  | 381.1  |
| 37.5° | 16.0   | 19.5   | 37.3   | 118.2  | 239.9  |
| 40°   | 8.0    | 9.8    | 17.8   | 57.7   | 135.0  |
| 42.5° | 3.6    | 4.4    | 8.0    | 22.2   | 57.7   |
| 45°   | 1.8    | 2.7    | 4.4    | 8.9    | 18.7   |
| 47.5° | 0.9    | 1.8    | 1.8    | 3.6    | 5.3    |
| 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)