

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: P1178537

Luminaire Tested: LDA2B059050R2060D010 2LBDC1MMS

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1178537  
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: LDA2B059050R2060D010 2LBDC1MMS  
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

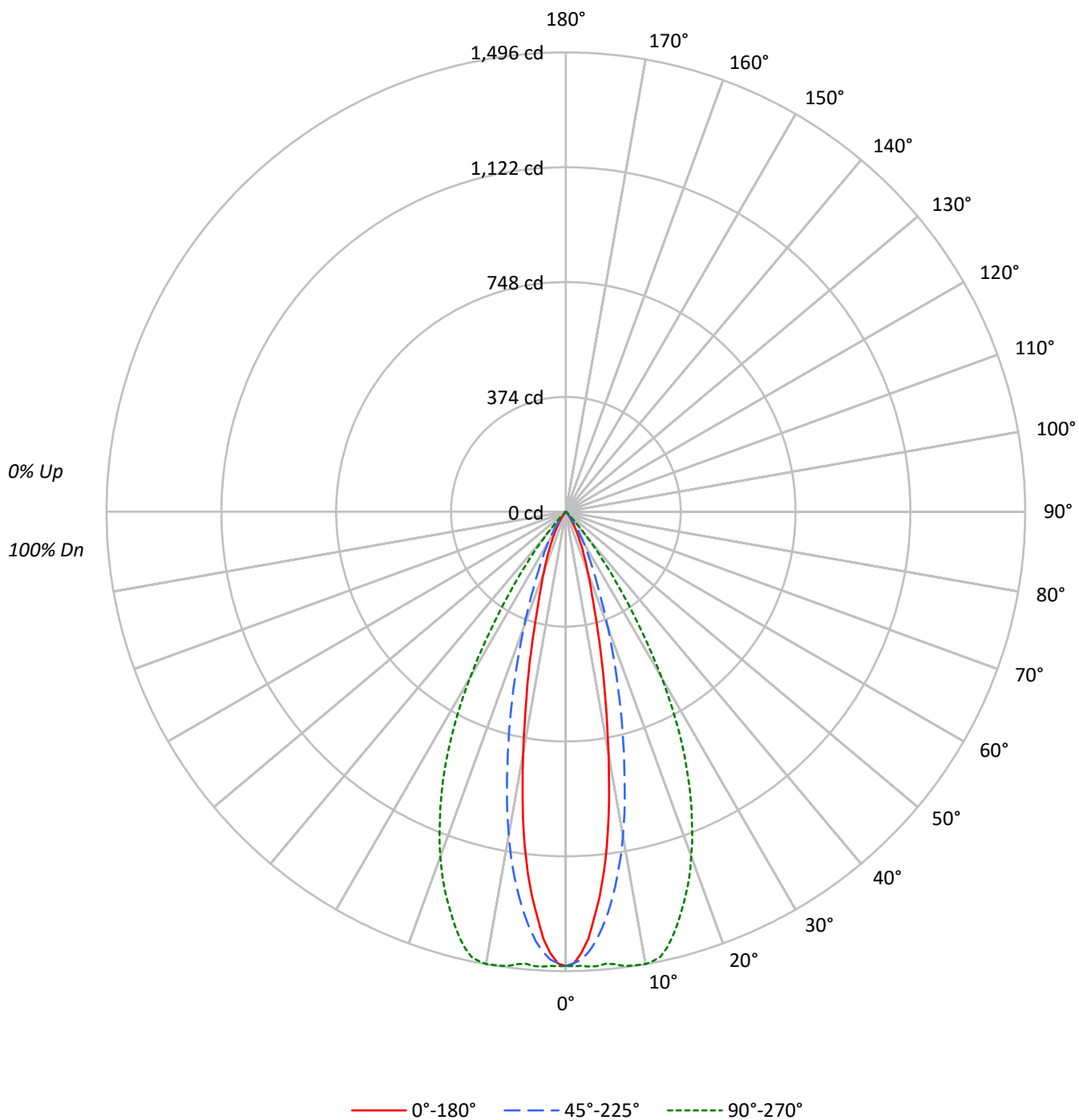
Lumens per Lamp: N/A  
Luminaire Lumens: 589.2 lumens  
Efficiency: N/A  
Efficacy: 84.2 lumens/watt  
Spacing Criteria (0/90/45): 0.36 / 0.9 / 0.52  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 7  
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°  | 729830 | 729830 | 729830 |
| 5°  | 623218 | 673684 | 731925 |
| 10° | 401279 | 537043 | 749355 |
| 15° | 205839 | 358200 | 713080 |
| 20° | 109940 | 209327 | 627194 |
| 25° | 61295  | 114752 | 510178 |
| 30° | 32700  | 65343  | 355370 |
| 35° | 14274  | 31499  | 185262 |
| 40° | 4186   | 9210   | 70200  |
| 45° | 977    | 2512   | 10536  |
| 50° | 537    | 537    | 1075   |
| 55° | 602    | 602    | 602    |
| 60° | 0      | 691    | 691    |
| 65° | 0      | 817    | 817    |
| 70° | 0      | 1010   | 1010   |
| 75° | 0      | 1334   | 1334   |
| 80° | 0      | 1989   | 1989   |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 10536 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 122.1  | 20.7      |
| 10°-20°   | 222.3  | 37.7      |
| 20°-30°   | 168.5  | 28.6      |
| 30°-40°   | 67.4   | 11.4      |
| 40°-50°   | 6.8    | 1.2       |
| 50°-60°   | 0.7    | 0.1       |
| 60°-70°   | 0.6    | 0.1       |
| 70°-80°   | 0.6    | 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°    | 512.8  | 87.0      |
| 0°-40°    | 580.2  | 98.5      |
| 0°-60°    | 587.8  | 99.8      |
| 0°-90°    | 589.2  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 589.2  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1479 | 1479  | 1479 | 1479  | 1479 |      |
| 5°  | 1258 | 1286  | 1360 | 1439  | 1478 | 105  |
| 15° | 403  | 468   | 701  | 1154  | 1396 | 115  |
| 25° | 113  | 131   | 211  | 602   | 937  | 53   |
| 35° | 24   | 29    | 52   | 159   | 308  | 16   |
| 45° | 1    | 2     | 4    | 7     | 15   | 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°    | 1479.3 | 1479.3 | 1479.3 | 1479.3 | 1479.3 |
| 1°    | 1471.4 | 1472.1 | 1470.7 | 1472.8 | 1480.0 |
| 2°    | 1438.4 | 1449.2 | 1458.5 | 1467.8 | 1480.0 |
| 3°    | 1392.5 | 1405.4 | 1434.8 | 1464.2 | 1482.9 |
| 4°    | 1325.1 | 1351.7 | 1401.9 | 1455.6 | 1482.9 |
| 5°    | 1258.4 | 1286.4 | 1360.3 | 1439.1 | 1477.9 |
| 6°    | 1182.4 | 1222.6 | 1312.2 | 1423.4 | 1480.7 |
| 7°    | 1096.4 | 1145.9 | 1259.2 | 1413.3 | 1489.3 |
| 8°    | 1003.2 | 1059.1 | 1201.1 | 1391.8 | 1492.9 |
| 9°    | 899.9  | 968.0  | 1139.4 | 1366.0 | 1494.4 |
| 10°   | 801.0  | 872.7  | 1072.0 | 1336.6 | 1495.8 |
| 11°   | 702.0  | 776.6  | 998.9  | 1307.9 | 1490.1 |
| 12°   | 618.1  | 689.1  | 922.1  | 1277.8 | 1481.5 |
| 13°   | 540.7  | 609.5  | 846.1  | 1242.0 | 1459.2 |
| 14°   | 469.0  | 536.4  | 773.0  | 1200.4 | 1429.8 |
| 15°   | 403.0  | 467.5  | 701.3  | 1154.5 | 1396.1 |
| 16°   | 343.5  | 403.7  | 632.5  | 1103.6 | 1358.8 |
| 17°   | 300.4  | 348.5  | 567.9  | 1049.8 | 1322.3 |
| 18°   | 266.7  | 302.6  | 507.0  | 996.7  | 1283.5 |
| 19°   | 236.6  | 265.3  | 450.3  | 941.5  | 1240.5 |
| 20°   | 209.4  | 235.2  | 398.7  | 884.1  | 1194.6 |
| 21°   | 186.4  | 208.7  | 350.6  | 827.5  | 1148.0 |
| 22°   | 166.4  | 185.7  | 307.6  | 771.6  | 1097.1 |
| 23°   | 147.7  | 164.9  | 271.1  | 714.9  | 1046.2 |
| 24°   | 129.8  | 148.4  | 238.8  | 657.5  | 993.1  |
| 25°   | 112.6  | 131.2  | 210.8  | 602.3  | 937.2  |
| 26°   | 99.0   | 116.2  | 187.2  | 548.6  | 879.1  |
| 27°   | 85.3   | 103.3  | 166.4  | 496.9  | 820.3  |
| 28°   | 74.6   | 91.1   | 147.7  | 447.4  | 756.5  |
| 29°   | 64.5   | 80.3   | 130.5  | 398.7  | 691.2  |
| 30°   | 57.4   | 69.6   | 114.7  | 352.8  | 623.8  |
| 32.5° | 39.4   | 46.6   | 80.3   | 248.1  | 455.3  |
| 35°   | 23.7   | 29.4   | 52.3   | 159.2  | 307.6  |
| 37.5° | 12.9   | 15.8   | 30.1   | 95.4   | 193.6  |
| 40°   | 6.5    | 7.9    | 14.3   | 46.6   | 109.0  |
| 42.5° | 2.9    | 3.6    | 6.5    | 17.9   | 46.6   |
| 45°   | 1.4    | 2.2    | 3.6    | 7.2    | 15.1   |
| 47.5° | 0.7    | 1.4    | 1.4    | 2.9    | 4.3    |
| 50°   | 0.7    | 0.7    | 0.7    | 1.4    | 1.4    |
| 52.5° | 0.7    | 0.7    | 0.7    | 1.4    | 1.4    |
| 55°   | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    |
| 57.5° | 0.0    | 0.7    | 0.7    | 0.7    | 0.7    |
| 60°   | 0.0    | 0.7    | 0.7    | 0.7    | 0.7    |
| 62.5° | 0.0    | 0.7    | 0.7    | 0.7    | 0.7    |
| 65°   | 0.0    | 0.7    | 0.7    | 0.7    | 0.7    |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 22.5° | 45° | 67.5° | 90° |
|-------|-----|-------|-----|-------|-----|
| 67.5° | 0.0 | 0.7   | 0.7 | 0.7   | 0.7 |
| 70°   | 0.0 | 0.7   | 0.7 | 0.7   | 0.7 |
| 72.5° | 0.0 | 0.7   | 0.7 | 0.7   | 0.7 |
| 75°   | 0.0 | 0.7   | 0.7 | 0.7   | 0.7 |
| 77.5° | 0.0 | 0.7   | 0.7 | 0.7   | 0.7 |
| 80°   | 0.0 | 0.0   | 0.7 | 0.7   | 0.7 |
| 82.5° | 0.0 | 0.0   | 0.7 | 0.7   | 0.7 |
| 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)