

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: P1178412

Luminaire Tested: LDA2B059030R2060D010 2LBD1LI

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1178412  
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: LDA2B059030R2060D010 2LBD1LI  
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

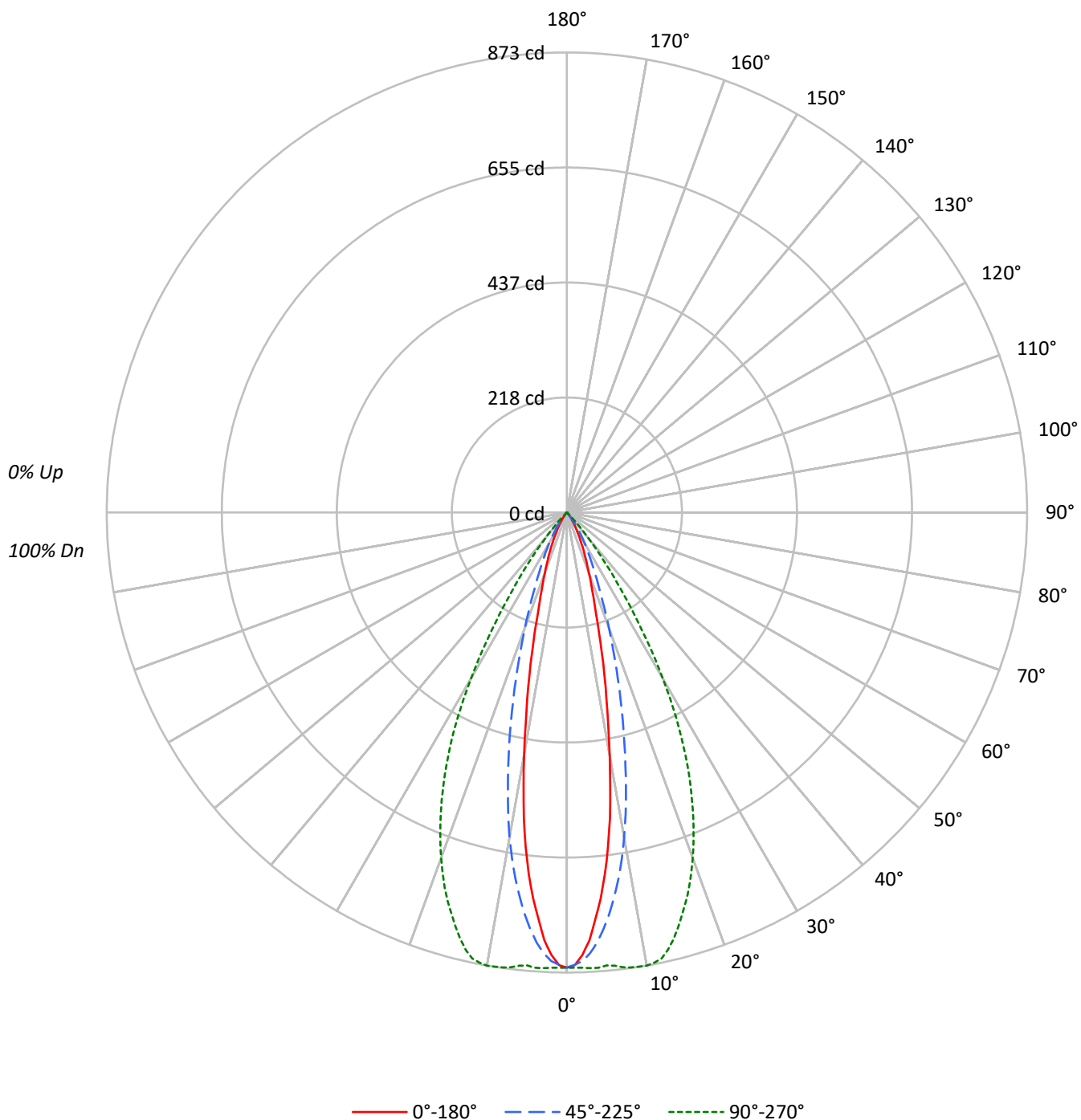
Lumens per Lamp: N/A  
Luminaire Lumens: 344.0 lumens  
Efficiency: N/A  
Efficacy: 49.1 lumens/watt  
Spacing Criteria (0/90/45): 0.36 / 0.9 / 0.52  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 114 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 104 | 103 |  | 102 | 101 | 100 |  | 99  |
| 2   | 110 | 106 | 102 | 99  | 108 | 104 | 101 | 98  | 101 | 98  | 96  |  | 98  | 96  | 94  |  | 95  |
| 3   | 105 | 100 | 96  | 92  | 103 | 99  | 95  | 92  | 96  | 93  | 90  |  | 94  | 91  | 89  |  | 91  |
| 4   | 101 | 95  | 90  | 87  | 99  | 94  | 89  | 86  | 92  | 88  | 85  |  | 90  | 87  | 84  |  | 88  |
| 5   | 97  | 90  | 85  | 82  | 96  | 89  | 85  | 81  | 88  | 84  | 81  |  | 86  | 83  | 80  |  | 85  |
| 6   | 93  | 86  | 81  | 77  | 92  | 85  | 81  | 77  | 84  | 80  | 77  |  | 83  | 79  | 76  |  | 81  |
| 7   | 90  | 82  | 77  | 74  | 89  | 81  | 77  | 73  | 80  | 76  | 73  |  | 79  | 75  | 73  |  | 78  |
| 8   | 86  | 79  | 74  | 70  | 85  | 78  | 73  | 70  | 77  | 73  | 70  |  | 76  | 72  | 69  |  | 75  |
| 9   | 83  | 75  | 70  | 67  | 82  | 75  | 70  | 67  | 74  | 70  | 67  |  | 73  | 69  | 66  |  | 72  |
| 10  | 80  | 72  | 67  | 64  | 79  | 72  | 67  | 64  | 71  | 67  | 64  |  | 70  | 67  | 64  |  | 70  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 426117 | 426117 | 426117 |
| 5°  | 363907 | 393325 | 427348 |
| 10° | 234305 | 313559 | 437550 |
| 15° | 120183 | 209159 | 416376 |
| 20° | 64211  | 122226 | 366205 |
| 25° | 35765  | 67011  | 297876 |
| 30° | 19084  | 38169  | 207536 |
| 35° | 8312   | 18430  | 108170 |
| 40° | 2447   | 5410   | 40961  |
| 45° | 558    | 1465   | 6140   |
| 50° | 307    | 307    | 614    |
| 55° | 344    | 344    | 344    |
| 60° | 0      | 395    | 395    |
| 65° | 0      | 467    | 467    |
| 70° | 0      | 577    | 577    |
| 75° | 0      | 762    | 762    |
| 80° | 0      | 1136   | 1136   |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6140 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 71.3   | 20.7      |
| 10°-20°   | 129.8  | 37.7      |
| 20°-30°   | 98.4   | 28.6      |
| 30°-40°   | 39.4   | 11.4      |
| 40°-50°   | 4.0    | 1.2       |
| 50°-60°   | 0.4    | 0.1       |
| 60°-70°   | 0.3    | 0.1       |
| 70°-80°   | 0.4    | 0.1       |
| 80°-90°   | 0.1    | 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°    | 299.4  | 87.0      |
| 0°-40°    | 338.8  | 98.5      |
| 0°-60°    | 343.2  | 99.8      |
| 0°-90°    | 344.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 344.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 864 | 864   | 864 | 864   | 864 |      |
| 5°  | 735 | 751   | 794 | 840   | 863 | 62   |
| 15° | 235 | 273   | 410 | 674   | 815 | 67   |
| 25° | 66  | 77    | 123 | 352   | 547 | 31   |
| 35° | 14  | 17    | 31  | 93    | 180 | 10   |
| 45° | 1   | 1     | 2   | 4     | 9   | 1    |
| 55° | 0   | 0     | 0   | 0     | 0   | 0    |
| 65° | 0   | 0     | 0   | 0     | 0   | 0    |
| 75° | 0   | 0     | 0   | 0     | 0   | 0    |
| 85° | 0   | 0     | 0   | 0     | 0   | 0    |
| 90° | 0   | 0     | 0   | 0     | 0   |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 863.7 | 863.7 | 863.7 | 863.7 | 863.7 |
| 1°    | 859.1 | 859.6 | 858.7 | 860.0 | 864.2 |
| 2°    | 839.9 | 846.2 | 851.6 | 857.0 | 864.2 |
| 3°    | 813.1 | 820.6 | 837.8 | 855.0 | 865.8 |
| 4°    | 773.7 | 789.2 | 818.5 | 849.9 | 865.8 |
| 5°    | 734.8 | 751.1 | 794.2 | 840.3 | 862.9 |
| 6°    | 690.4 | 713.9 | 766.2 | 831.1 | 864.6 |
| 7°    | 640.2 | 669.1 | 735.2 | 825.2 | 869.6 |
| 8°    | 585.7 | 618.4 | 701.3 | 812.7 | 871.7 |
| 9°    | 525.4 | 565.2 | 665.3 | 797.6 | 872.5 |
| 10°   | 467.7 | 509.5 | 625.9 | 780.4 | 873.4 |
| 11°   | 409.9 | 453.4 | 583.2 | 763.7 | 870.0 |
| 12°   | 360.9 | 402.4 | 538.4 | 746.1 | 865.0 |
| 13°   | 315.7 | 355.9 | 494.0 | 725.2 | 852.0 |
| 14°   | 273.8 | 313.2 | 451.3 | 700.9 | 834.9 |
| 15°   | 235.3 | 273.0 | 409.5 | 674.1 | 815.2 |
| 16°   | 200.5 | 235.7 | 369.3 | 644.4 | 793.4 |
| 17°   | 175.4 | 203.5 | 331.6 | 613.0 | 772.1 |
| 18°   | 155.8 | 176.7 | 296.0 | 582.0 | 749.4 |
| 19°   | 138.2 | 154.9 | 262.9 | 549.7 | 724.3 |
| 20°   | 122.3 | 137.3 | 232.8 | 516.2 | 697.5 |
| 21°   | 108.9 | 121.8 | 204.7 | 483.2 | 670.3 |
| 22°   | 97.1  | 108.4 | 179.6 | 450.5 | 640.6 |
| 23°   | 86.2  | 96.3  | 158.3 | 417.4 | 610.9 |
| 24°   | 75.8  | 86.7  | 139.4 | 383.9 | 579.9 |
| 25°   | 65.7  | 76.6  | 123.1 | 351.7 | 547.2 |
| 26°   | 57.8  | 67.8  | 109.3 | 320.3 | 513.3 |
| 27°   | 49.8  | 60.3  | 97.1  | 290.1 | 479.0 |
| 28°   | 43.5  | 53.2  | 86.2  | 261.3 | 441.7 |
| 29°   | 37.7  | 46.9  | 76.2  | 232.8 | 403.6 |
| 30°   | 33.5  | 40.6  | 67.0  | 206.0 | 364.3 |
| 32.5° | 23.0  | 27.2  | 46.9  | 144.9 | 265.9 |
| 35°   | 13.8  | 17.2  | 30.6  | 92.9  | 179.6 |
| 37.5° | 7.5   | 9.2   | 17.6  | 55.7  | 113.0 |
| 40°   | 3.8   | 4.6   | 8.4   | 27.2  | 63.6  |
| 42.5° | 1.7   | 2.1   | 3.8   | 10.5  | 27.2  |
| 45°   | 0.8   | 1.3   | 2.1   | 4.2   | 8.8   |
| 47.5° | 0.4   | 0.8   | 0.8   | 1.7   | 2.5   |
| 50°   | 0.4   | 0.4   | 0.4   | 0.8   | 0.8   |
| 52.5° | 0.4   | 0.4   | 0.4   | 0.8   | 0.8   |
| 55°   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   |
| 57.5° | 0.0   | 0.4   | 0.4   | 0.4   | 0.4   |
| 60°   | 0.0   | 0.4   | 0.4   | 0.4   | 0.4   |
| 62.5° | 0.0   | 0.4   | 0.4   | 0.4   | 0.4   |
| 65°   | 0.0   | 0.4   | 0.4   | 0.4   | 0.4   |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 22.5° | 45° | 67.5° | 90° |
|-------|-----|-------|-----|-------|-----|
| 67.5° | 0.0 | 0.4   | 0.4 | 0.4   | 0.4 |
| 70°   | 0.0 | 0.4   | 0.4 | 0.4   | 0.4 |
| 72.5° | 0.0 | 0.4   | 0.4 | 0.4   | 0.4 |
| 75°   | 0.0 | 0.4   | 0.4 | 0.4   | 0.4 |
| 77.5° | 0.0 | 0.4   | 0.4 | 0.4   | 0.4 |
| 80°   | 0.0 | 0.0   | 0.4 | 0.4   | 0.4 |
| 82.5° | 0.0 | 0.0   | 0.4 | 0.4   | 0.4 |
| 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)