

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: P1178573

Luminaire Tested: LDA2B059727R2060D010 2LBD1WHH

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1178573  
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: LDA2B059727R2060D010 2LBD1WHH  
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 97 CRI LEDS AND 2700K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

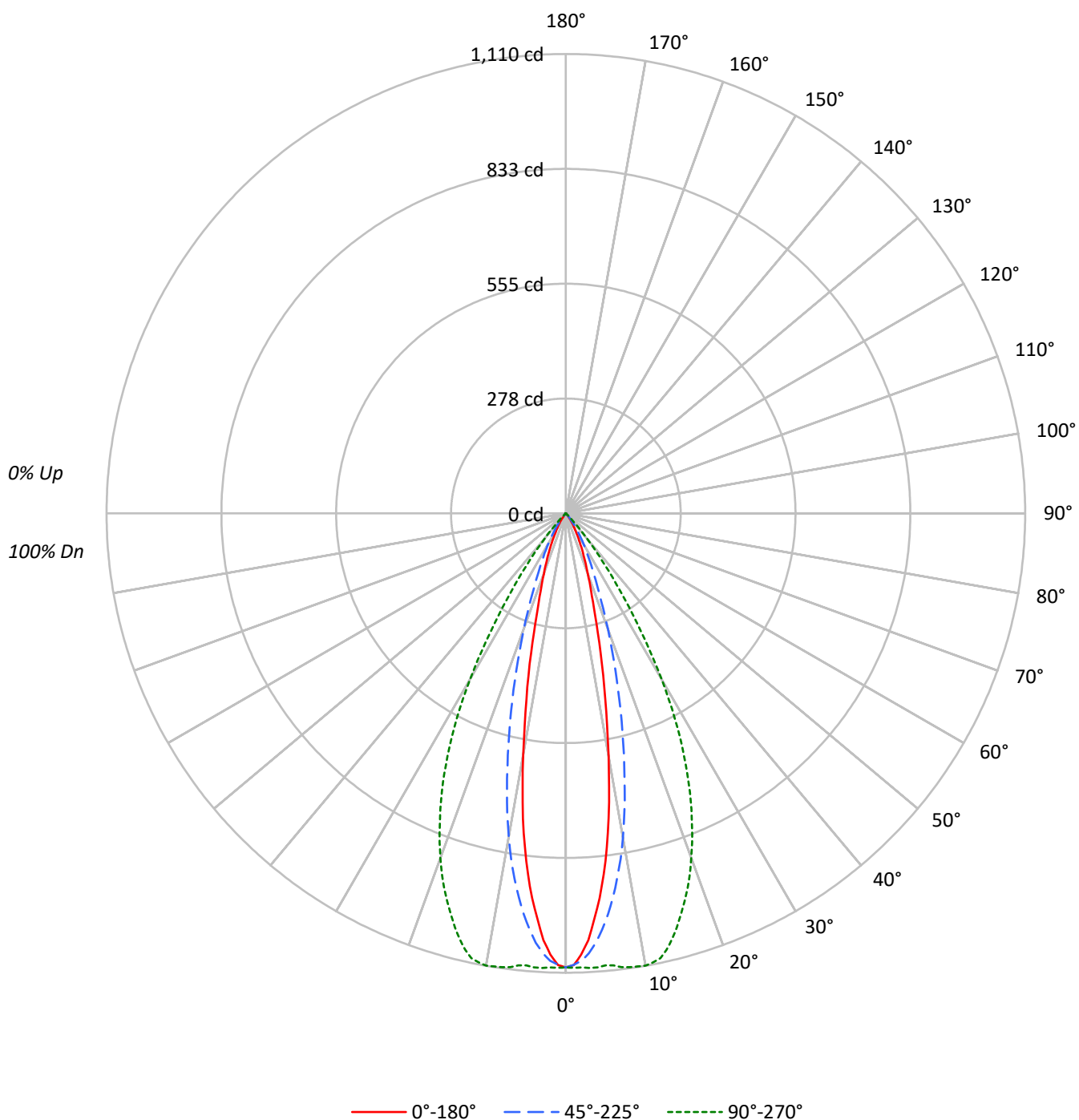
Lumens per Lamp: N/A  
Luminaire Lumens: 437.0 lumens  
Efficiency: N/A  
Efficacy: 62.4 lumens/watt  
Spacing Criteria (0/90/45): 0.36 / 0.9 / 0.52  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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  | 67  | 64  | 70  | 66  | 64  | 64  | 64  | 62  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 541366 | 541366 | 541366 |
| 5°  | 462312 | 499704 | 542939 |
| 10° | 297628 | 398373 | 555879 |
| 15° | 152668 | 265700 | 528949 |
| 20° | 81536  | 155250 | 465277 |
| 25° | 45454  | 85139  | 378442 |
| 30° | 24269  | 48480  | 263650 |
| 35° | 10600  | 23369  | 137441 |
| 40° | 3091   | 6827   | 52103  |
| 45° | 767    | 1884   | 7814   |
| 50° | 384    | 384    | 844    |
| 55° | 430    | 430    | 430    |
| 60° | 0      | 493    | 493    |
| 65° | 0      | 584    | 584    |
| 70° | 0      | 721    | 721    |
| 75° | 0      | 953    | 953    |
| 80° | 0      | 1421   | 1421   |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7814 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 90.6   | 20.7      |
| 10°-20°   | 164.9  | 37.7      |
| 20°-30°   | 125.0  | 28.6      |
| 30°-40°   | 50.0   | 11.4      |
| 40°-50°   | 5.1    | 1.2       |
| 50°-60°   | 0.5    | 0.1       |
| 60°-70°   | 0.4    | 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°    | 380.4  | 87.0      |
| 0°-40°    | 430.4  | 98.5      |
| 0°-60°    | 436.0  | 99.8      |
| 0°-90°    | 437.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 437.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1097 | 1097  | 1097 | 1097  | 1097 |      |
| 5°  | 934  | 954   | 1009 | 1068  | 1096 | 78   |
| 15° | 299  | 347   | 520  | 856   | 1036 | 86   |
| 25° | 84   | 97    | 156  | 447   | 695  | 40   |
| 35° | 18   | 22    | 39   | 118   | 228  | 12   |
| 45° | 1    | 2     | 3    | 5     | 11   | 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°    | 1097.3 | 1097.3 | 1097.3 | 1097.3 | 1097.3 |
| 1°    | 1091.5 | 1092.0 | 1091.0 | 1092.6 | 1097.9 |
| 2°    | 1067.0 | 1075.0 | 1081.9 | 1088.8 | 1097.9 |
| 3°    | 1033.0 | 1042.6 | 1064.4 | 1086.2 | 1100.0 |
| 4°    | 983.0  | 1002.7 | 1039.9 | 1079.8 | 1100.0 |
| 5°    | 933.5  | 954.3  | 1009.0 | 1067.6 | 1096.3 |
| 6°    | 877.1  | 906.9  | 973.4  | 1055.9 | 1098.4 |
| 7°    | 813.3  | 850.0  | 934.0  | 1048.4 | 1104.8 |
| 8°    | 744.1  | 785.6  | 891.0  | 1032.4 | 1107.4 |
| 9°    | 667.6  | 718.1  | 845.2  | 1013.3 | 1108.5 |
| 10°   | 594.1  | 647.3  | 795.2  | 991.5  | 1109.6 |
| 11°   | 520.7  | 576.1  | 741.0  | 970.2  | 1105.3 |
| 12°   | 458.5  | 511.2  | 684.0  | 947.9  | 1098.9 |
| 13°   | 401.1  | 452.1  | 627.7  | 921.3  | 1082.4 |
| 14°   | 347.9  | 397.9  | 573.4  | 890.4  | 1060.6 |
| 15°   | 298.9  | 346.8  | 520.2  | 856.4  | 1035.6 |
| 16°   | 254.8  | 299.5  | 469.1  | 818.6  | 1008.0 |
| 17°   | 222.9  | 258.5  | 421.3  | 778.7  | 980.9  |
| 18°   | 197.9  | 224.5  | 376.1  | 739.4  | 952.1  |
| 19°   | 175.5  | 196.8  | 334.0  | 698.4  | 920.2  |
| 20°   | 155.3  | 174.5  | 295.7  | 655.9  | 886.2  |
| 21°   | 138.3  | 154.8  | 260.1  | 613.8  | 851.6  |
| 22°   | 123.4  | 137.8  | 228.2  | 572.3  | 813.8  |
| 23°   | 109.6  | 122.3  | 201.1  | 530.3  | 776.1  |
| 24°   | 96.3   | 110.1  | 177.1  | 487.8  | 736.7  |
| 25°   | 83.5   | 97.3   | 156.4  | 446.8  | 695.2  |
| 26°   | 73.4   | 86.2   | 138.8  | 406.9  | 652.1  |
| 27°   | 63.3   | 76.6   | 123.4  | 368.6  | 608.5  |
| 28°   | 55.3   | 67.6   | 109.6  | 331.9  | 561.2  |
| 29°   | 47.9   | 59.6   | 96.8   | 295.7  | 512.8  |
| 30°   | 42.6   | 51.6   | 85.1   | 261.7  | 462.8  |
| 32.5° | 29.3   | 34.6   | 59.6   | 184.0  | 337.8  |
| 35°   | 17.6   | 21.8   | 38.8   | 118.1  | 228.2  |
| 37.5° | 9.6    | 11.7   | 22.3   | 70.7   | 143.6  |
| 40°   | 4.8    | 5.9    | 10.6   | 34.6   | 80.9   |
| 42.5° | 2.1    | 2.7    | 4.8    | 13.3   | 34.6   |
| 45°   | 1.1    | 1.6    | 2.7    | 5.3    | 11.2   |
| 47.5° | 0.5    | 1.1    | 1.1    | 2.1    | 3.2    |
| 50°   | 0.5    | 0.5    | 0.5    | 1.1    | 1.1    |
| 52.5° | 0.5    | 0.5    | 0.5    | 1.1    | 1.1    |
| 55°   | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    |
| 57.5° | 0.0    | 0.5    | 0.5    | 0.5    | 0.5    |
| 60°   | 0.0    | 0.5    | 0.5    | 0.5    | 0.5    |
| 62.5° | 0.0    | 0.5    | 0.5    | 0.5    | 0.5    |
| 65°   | 0.0    | 0.5    | 0.5    | 0.5    | 0.5    |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 22.5° | 45° | 67.5° | 90° |
|-------|-----|-------|-----|-------|-----|
| 67.5° | 0.0 | 0.5   | 0.5 | 0.5   | 0.5 |
| 70°   | 0.0 | 0.5   | 0.5 | 0.5   | 0.5 |
| 72.5° | 0.0 | 0.5   | 0.5 | 0.5   | 0.5 |
| 75°   | 0.0 | 0.5   | 0.5 | 0.5   | 0.5 |
| 77.5° | 0.0 | 0.5   | 0.5 | 0.5   | 0.5 |
| 80°   | 0.0 | 0.0   | 0.5 | 0.5   | 0.5 |
| 82.5° | 0.0 | 0.0   | 0.5 | 0.5   | 0.5 |
| 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)