

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: P1178372

Luminaire Tested: LDA2B059027R2060D010 2LBD1H

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1178372  
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: LDA2B059027R2060D010 2LBD1H  
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2700K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

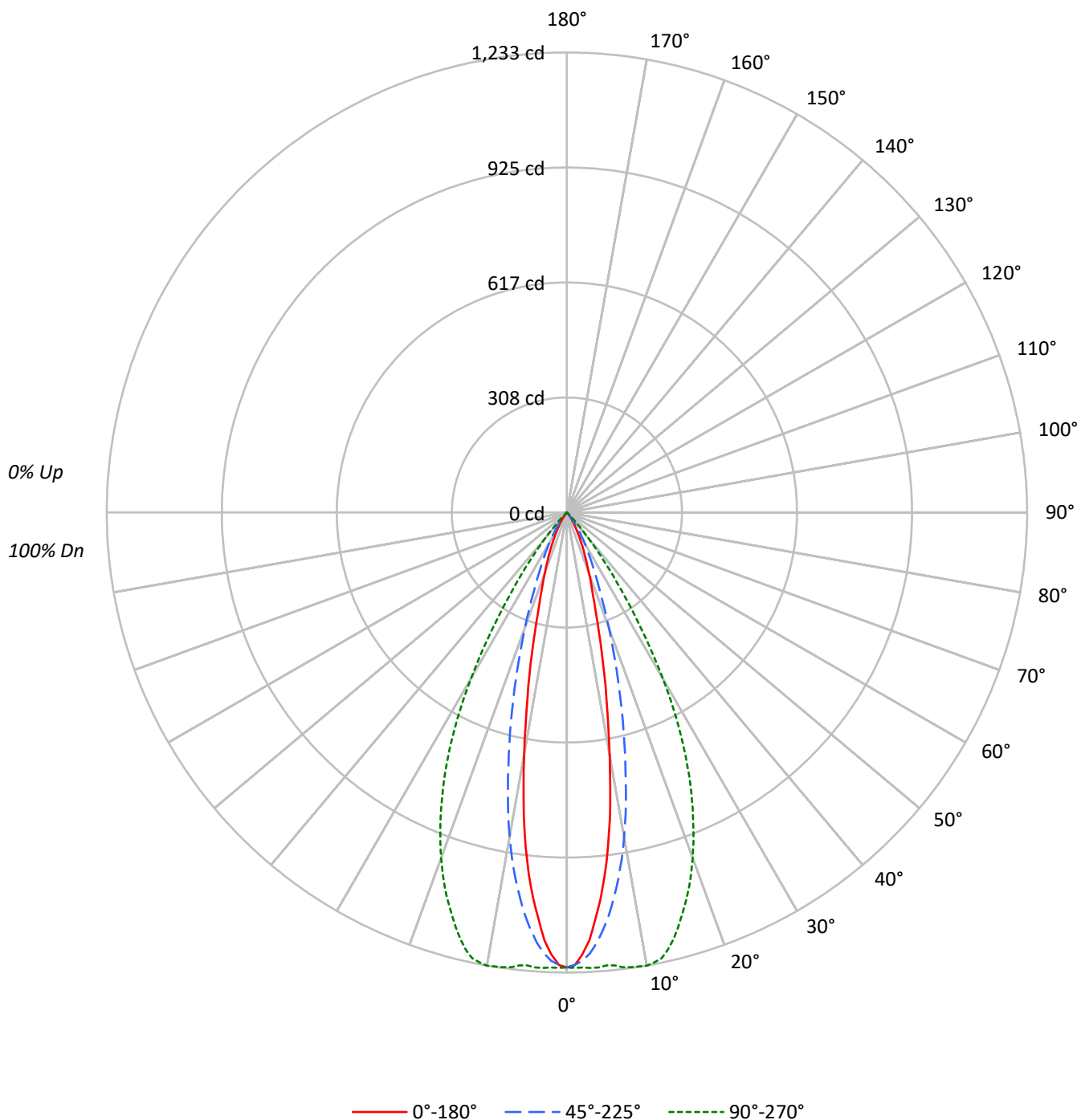
Lumens per Lamp: N/A  
Luminaire Lumens: 485.8 lumens  
Efficiency: N/A  
Efficacy: 69.4 lumens/watt  
Spacing Criteria (0/90/45): 0.36 / 0.9 / 0.52  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P1178372

CATALOG NUMBER: LDA2B059027R2060D010 2LBD1H

### Luminous Intensity Polar Plot



TEST NUMBER: P1178372

CATALOG NUMBER: LDA2B059027R2060D010 2LBD1H

**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  |  | 82  | 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  | 66  | 64  |  | 70  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 601704 | 601704 | 601704 |
| 5°  | 513818 | 555369 | 603408 |
| 10° | 330792 | 442760 | 617800 |
| 15° | 169676 | 295325 | 587891 |
| 20° | 90619  | 172576 | 517097 |
| 25° | 50517  | 94611  | 420630 |
| 30° | 26946  | 53892  | 292989 |
| 35° | 11745  | 26019  | 152739 |
| 40° | 3413   | 7600   | 57899  |
| 45° | 837    | 2093   | 8652   |
| 50° | 461    | 461    | 921    |
| 55° | 516    | 516    | 516    |
| 60° | 0      | 592    | 592    |
| 65° | 0      | 700    | 700    |
| 70° | 0      | 865    | 865    |
| 75° | 0      | 1144   | 1144   |
| 80° | 0      | 1705   | 1705   |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8652 cd/sqm

TEST NUMBER: P1178372

CATALOG NUMBER: LDA2B059027R2060D010 2LBD1H

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 100.7  | 20.7      |
| 10°-20°   | 183.2  | 37.7      |
| 20°-30°   | 138.9  | 28.6      |
| 30°-40°   | 55.6   | 11.4      |
| 40°-50°   | 5.6    | 1.2       |
| 50°-60°   | 0.6    | 0.1       |
| 60°-70°   | 0.5    | 0.1       |
| 70°-80°   | 0.5    | 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°    | 422.8  | 87.0      |
| 0°-40°    | 478.4  | 98.5      |
| 0°-60°    | 484.6  | 99.8      |
| 0°-90°    | 485.8  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 485.8  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1220 | 1220  | 1220 | 1220  | 1220 |      |
| 5°  | 1038 | 1060  | 1121 | 1186  | 1218 | 87   |
| 15° | 332  | 385   | 578  | 952   | 1151 | 95   |
| 25° | 93   | 108   | 174  | 497   | 773  | 44   |
| 35° | 20   | 24    | 43   | 131   | 254  | 13   |
| 45° | 1    | 2     | 3    | 6     | 12   | 1    |
| 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    |

TEST NUMBER: P1178372

CATALOG NUMBER: LDA2B059027R2060D010 2LBD1H

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1219.6 | 1219.6 | 1219.6 | 1219.6 | 1219.6 |
| 1°    | 1213.1 | 1213.7 | 1212.5 | 1214.2 | 1220.2 |
| 2°    | 1185.9 | 1194.7 | 1202.4 | 1210.1 | 1220.2 |
| 3°    | 1148.0 | 1158.7 | 1182.9 | 1207.2 | 1222.5 |
| 4°    | 1092.5 | 1114.3 | 1155.7 | 1200.1 | 1222.5 |
| 5°    | 1037.5 | 1060.5 | 1121.4 | 1186.5 | 1218.4 |
| 6°    | 974.8  | 1007.9 | 1081.8 | 1173.5 | 1220.8 |
| 7°    | 903.9  | 944.7  | 1038.1 | 1165.2 | 1227.8 |
| 8°    | 827.0  | 873.1  | 990.2  | 1147.4 | 1230.8 |
| 9°    | 741.9  | 798.1  | 939.4  | 1126.2 | 1232.0 |
| 10°   | 660.3  | 719.4  | 883.8  | 1101.9 | 1233.2 |
| 11°   | 578.7  | 640.2  | 823.5  | 1078.3 | 1228.4 |
| 12°   | 509.6  | 568.1  | 760.2  | 1053.5 | 1221.3 |
| 13°   | 445.7  | 502.5  | 697.6  | 1023.9 | 1203.0 |
| 14°   | 386.6  | 442.2  | 637.3  | 989.6  | 1178.8 |
| 15°   | 332.2  | 385.4  | 578.2  | 951.8  | 1151.0 |
| 16°   | 283.2  | 332.8  | 521.4  | 909.8  | 1120.3 |
| 17°   | 247.7  | 287.3  | 468.2  | 865.5  | 1090.1 |
| 18°   | 219.9  | 249.5  | 418.0  | 821.7  | 1058.2 |
| 19°   | 195.1  | 218.7  | 371.3  | 776.2  | 1022.7 |
| 20°   | 172.6  | 193.9  | 328.7  | 728.9  | 984.9  |
| 21°   | 153.7  | 172.0  | 289.1  | 682.2  | 946.5  |
| 22°   | 137.1  | 153.1  | 253.6  | 636.1  | 904.5  |
| 23°   | 121.8  | 136.0  | 223.5  | 589.4  | 862.5  |
| 24°   | 107.0  | 122.4  | 196.9  | 542.1  | 818.8  |
| 25°   | 92.8   | 108.2  | 173.8  | 496.6  | 772.7  |
| 26°   | 81.6   | 95.8   | 154.3  | 452.2  | 724.8  |
| 27°   | 70.3   | 85.1   | 137.1  | 409.7  | 676.3  |
| 28°   | 61.5   | 75.1   | 121.8  | 368.9  | 623.7  |
| 29°   | 53.2   | 66.2   | 107.6  | 328.7  | 569.9  |
| 30°   | 47.3   | 57.3   | 94.6   | 290.9  | 514.3  |
| 32.5° | 32.5   | 38.4   | 66.2   | 204.5  | 375.4  |
| 35°   | 19.5   | 24.2   | 43.2   | 131.2  | 253.6  |
| 37.5° | 10.6   | 13.0   | 24.8   | 78.6   | 159.6  |
| 40°   | 5.3    | 6.5    | 11.8   | 38.4   | 89.9   |
| 42.5° | 2.4    | 3.0    | 5.3    | 14.8   | 38.4   |
| 45°   | 1.2    | 1.8    | 3.0    | 5.9    | 12.4   |
| 47.5° | 0.6    | 1.2    | 1.2    | 2.4    | 3.5    |
| 50°   | 0.6    | 0.6    | 0.6    | 1.2    | 1.2    |
| 52.5° | 0.6    | 0.6    | 0.6    | 1.2    | 1.2    |
| 55°   | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    |
| 57.5° | 0.0    | 0.6    | 0.6    | 0.6    | 0.6    |
| 60°   | 0.0    | 0.6    | 0.6    | 0.6    | 0.6    |
| 62.5° | 0.0    | 0.6    | 0.6    | 0.6    | 0.6    |
| 65°   | 0.0    | 0.6    | 0.6    | 0.6    | 0.6    |



TEST NUMBER: P1178372

CATALOG NUMBER: LDA2B059027R2060D010 2LBD1H

**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 22.5° | 45° | 67.5° | 90° |
|-------|-----|-------|-----|-------|-----|
| 67.5° | 0.0 | 0.6   | 0.6 | 0.6   | 0.6 |
| 70°   | 0.0 | 0.6   | 0.6 | 0.6   | 0.6 |
| 72.5° | 0.0 | 0.6   | 0.6 | 0.6   | 0.6 |
| 75°   | 0.0 | 0.6   | 0.6 | 0.6   | 0.6 |
| 77.5° | 0.0 | 0.6   | 0.6 | 0.6   | 0.6 |
| 80°   | 0.0 | 0.0   | 0.6 | 0.6   | 0.6 |
| 82.5° | 0.0 | 0.0   | 0.6 | 0.6   | 0.6 |
| 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)