

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: P1179521

Luminaire Tested: LDA2B159050R2050D010 2LBD1B

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1179521  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2206-683-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/17/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDA2B159050R2050D010 2LBD1B  
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

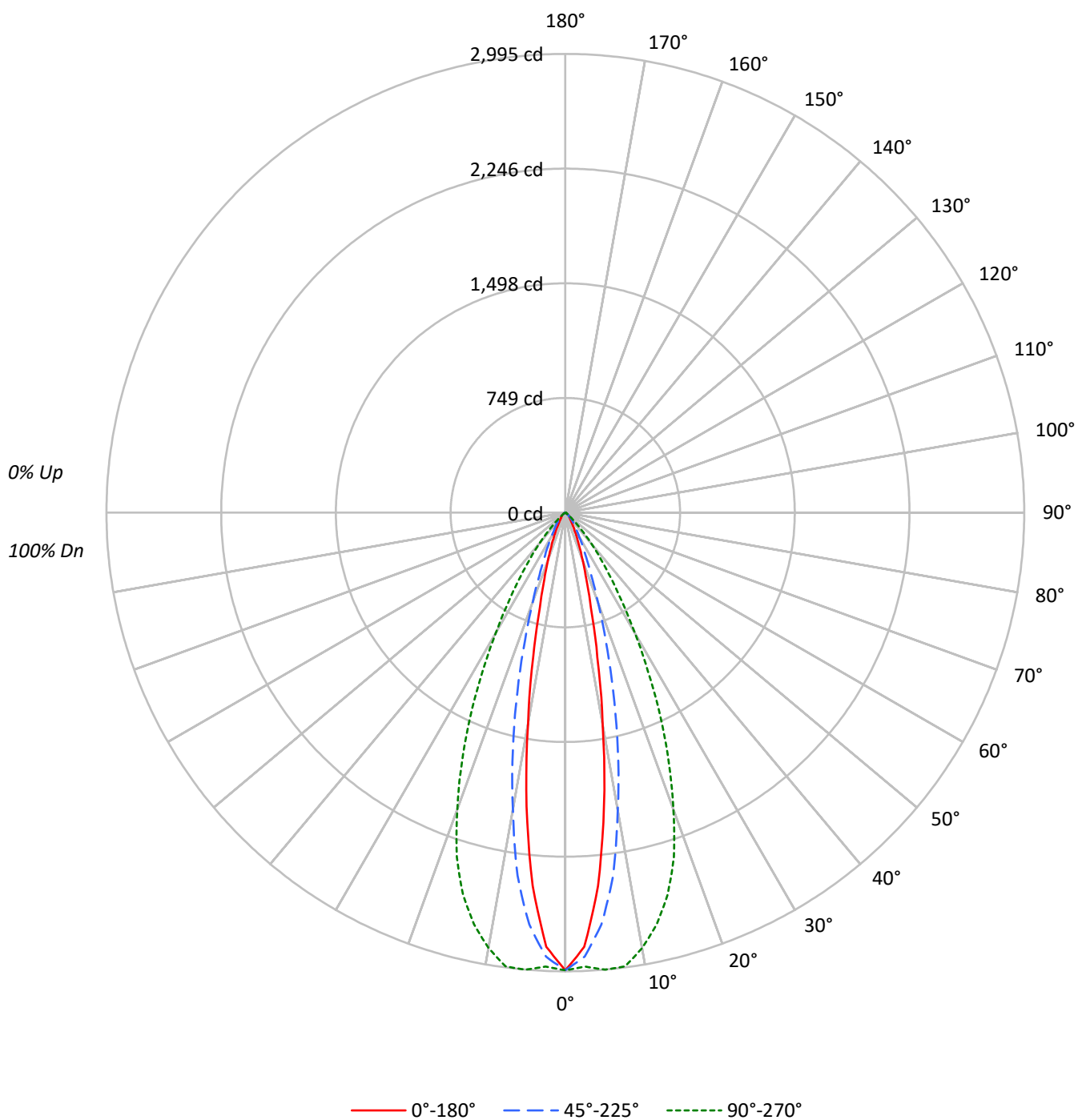
Lumens per Lamp: N/A  
Luminaire Lumens: 1073.9 lumens  
Efficiency: N/A  
Efficacy: 76.2 lumens/watt  
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.1  
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 | 109 | 107 | 112 | 109 | 107 | 106 | 105 | 104 | 102 |  | 102 | 100 | 99  |  | 98  |
| 2   | 109 | 105 | 101 | 98  | 107 | 103 | 100 | 97  | 100 | 97  | 95  |  | 97  | 95  | 93  |  | 94  |
| 3   | 105 | 99  | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 92  | 89  |  | 93  | 90  | 88  |  | 90  |
| 4   | 100 | 94  | 89  | 85  | 99  | 93  | 88  | 85  | 91  | 87  | 84  |  | 89  | 85  | 83  |  | 87  |
| 5   | 96  | 89  | 84  | 80  | 95  | 88  | 83  | 80  | 86  | 82  | 79  |  | 85  | 81  | 78  |  | 83  |
| 6   | 92  | 85  | 80  | 76  | 91  | 84  | 79  | 76  | 83  | 78  | 75  |  | 81  | 77  | 75  |  | 80  |
| 7   | 89  | 81  | 76  | 72  | 88  | 80  | 75  | 72  | 79  | 75  | 71  |  | 78  | 74  | 71  |  | 77  |
| 8   | 85  | 77  | 72  | 69  | 84  | 77  | 72  | 69  | 76  | 71  | 68  |  | 75  | 71  | 68  |  | 74  |
| 9   | 82  | 74  | 69  | 66  | 81  | 74  | 69  | 66  | 73  | 68  | 65  |  | 72  | 68  | 65  |  | 71  |
| 10  | 79  | 71  | 66  | 63  | 79  | 71  | 66  | 63  | 70  | 66  | 63  |  | 69  | 65  | 62  |  | 69  |

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

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 1473968 | 1473968 | 1473968 |
| 5°  | 1211818 | 1337066 | 1483263 |
| 10° | 703416  | 988018  | 1446108 |
| 15° | 327707  | 615319  | 1317878 |
| 20° | 172681  | 324413  | 1083178 |
| 25° | 95645   | 175666  | 798909  |
| 30° | 56057   | 102885  | 516704  |
| 35° | 36017   | 69022   | 306141  |
| 40° | 28080   | 46564   | 170090  |
| 45° | 24350   | 27839   | 75633   |
| 50° | 22028   | 19112   | 27708   |
| 55° | 14967   | 13934   | 12902   |
| 60° | 11051   | 9867    | 9867    |
| 65° | 8755    | 7238    | 8755    |
| 70° | 7212    | 7212    | 7212    |
| 75° | 7053    | 7053    | 7053    |
| 80° | 7103    | 7103    | 7103    |
| 85° | 6793    | 6793    | 6793    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 75633 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 237.9  | 22.2      |
| 10°-20°   | 389.5  | 36.3      |
| 20°-30°   | 259.8  | 24.2      |
| 30°-40°   | 117.1  | 10.9      |
| 40°-50°   | 42.9   | 4.0       |
| 50°-60°   | 15.0   | 1.4       |
| 60°-70°   | 7.0    | 0.7       |
| 70°-80°   | 3.7    | 0.3       |
| 80°-90°   | 1.0    | 0.1       |
| 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       |
| 0°-30°    | 887.2  | 82.6      |
| 0°-40°    | 1004.3 | 93.5      |
| 0°-60°    | 1062.2 | 98.9      |
| 0°-90°    | 1073.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1073.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2988 | 2988  | 2988 | 2988  | 2988 |      |
| 5°  | 2447 | 2523  | 2700 | 2897  | 2995 | 200  |
| 15° | 642  | 754   | 1205 | 2036  | 2580 | 192  |
| 25° | 176  | 204   | 323  | 880   | 1468 | 85   |
| 35° | 60   | 67    | 115  | 248   | 508  | 40   |
| 45° | 35   | 35    | 40   | 62    | 108  | 27   |
| 55° | 17   | 16    | 16   | 14    | 15   | 16   |
| 65° | 8    | 8     | 6    | 6     | 8    | 8    |
| 75° | 4    | 4     | 4    | 4     | 4    | 4    |
| 85° | 1    | 1     | 1    | 1     | 1    | 1    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2987.6 | 2987.6 | 2987.6 | 2987.6 | 2987.6 |
| 2.5°  | 2836.8 | 2866.7 | 2901.6 | 2937.7 | 2966.4 |
| 5°    | 2446.9 | 2522.9 | 2699.8 | 2896.6 | 2995.0 |
| 7.5°  | 1934.8 | 2046.9 | 2390.8 | 2779.5 | 2987.6 |
| 10°   | 1404.1 | 1547.4 | 1972.2 | 2576.4 | 2886.6 |
| 12.5° | 965.5  | 1100.1 | 1582.2 | 2319.8 | 2753.3 |
| 15°   | 641.6  | 753.7  | 1204.7 | 2035.7 | 2580.2 |
| 17.5° | 452.2  | 528.2  | 875.8  | 1725.5 | 2357.2 |
| 20°   | 328.9  | 380.0  | 617.9  | 1421.5 | 2063.1 |
| 22.5° | 239.2  | 277.8  | 439.8  | 1136.2 | 1765.4 |
| 25°   | 175.7  | 204.3  | 322.7  | 879.6  | 1467.6 |
| 27.5° | 130.8  | 153.2  | 241.7  | 667.8  | 1169.9 |
| 30°   | 98.4   | 117.1  | 180.6  | 492.1  | 907.0  |
| 32.5° | 76.0   | 88.5   | 138.3  | 351.3  | 686.5  |
| 35°   | 59.8   | 67.3   | 114.6  | 247.9  | 508.3  |
| 37.5° | 49.8   | 54.8   | 94.7   | 173.2  | 372.5  |
| 40°   | 43.6   | 47.3   | 72.3   | 123.3  | 264.1  |
| 42.5° | 38.6   | 41.1   | 52.3   | 88.5   | 171.9  |
| 45°   | 34.9   | 34.9   | 39.9   | 62.3   | 108.4  |
| 47.5° | 32.4   | 28.7   | 31.1   | 43.6   | 63.5   |
| 50°   | 28.7   | 23.7   | 24.9   | 29.9   | 36.1   |
| 52.5° | 22.4   | 19.9   | 19.9   | 19.9   | 21.2   |
| 55°   | 17.4   | 16.2   | 16.2   | 13.7   | 15.0   |
| 57.5° | 13.7   | 13.7   | 12.5   | 11.2   | 12.5   |
| 60°   | 11.2   | 11.2   | 10.0   | 8.7    | 10.0   |
| 62.5° | 8.7    | 8.7    | 7.5    | 7.5    | 8.7    |
| 65°   | 7.5    | 7.5    | 6.2    | 6.2    | 7.5    |
| 67.5° | 6.2    | 6.2    | 6.2    | 5.0    | 6.2    |
| 70°   | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    |
| 72.5° | 3.7    | 3.7    | 5.0    | 3.7    | 3.7    |
| 75°   | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    |
| 77.5° | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    |
| 80°   | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    |
| 82.5° | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    |
| 85°   | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    |
| 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)