

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: P1178478

Luminaire Tested: LDA2B059040R2050D010 2LBD1MB

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1178478  
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: LDA2B059040R2050D010 2LBD1MB  
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

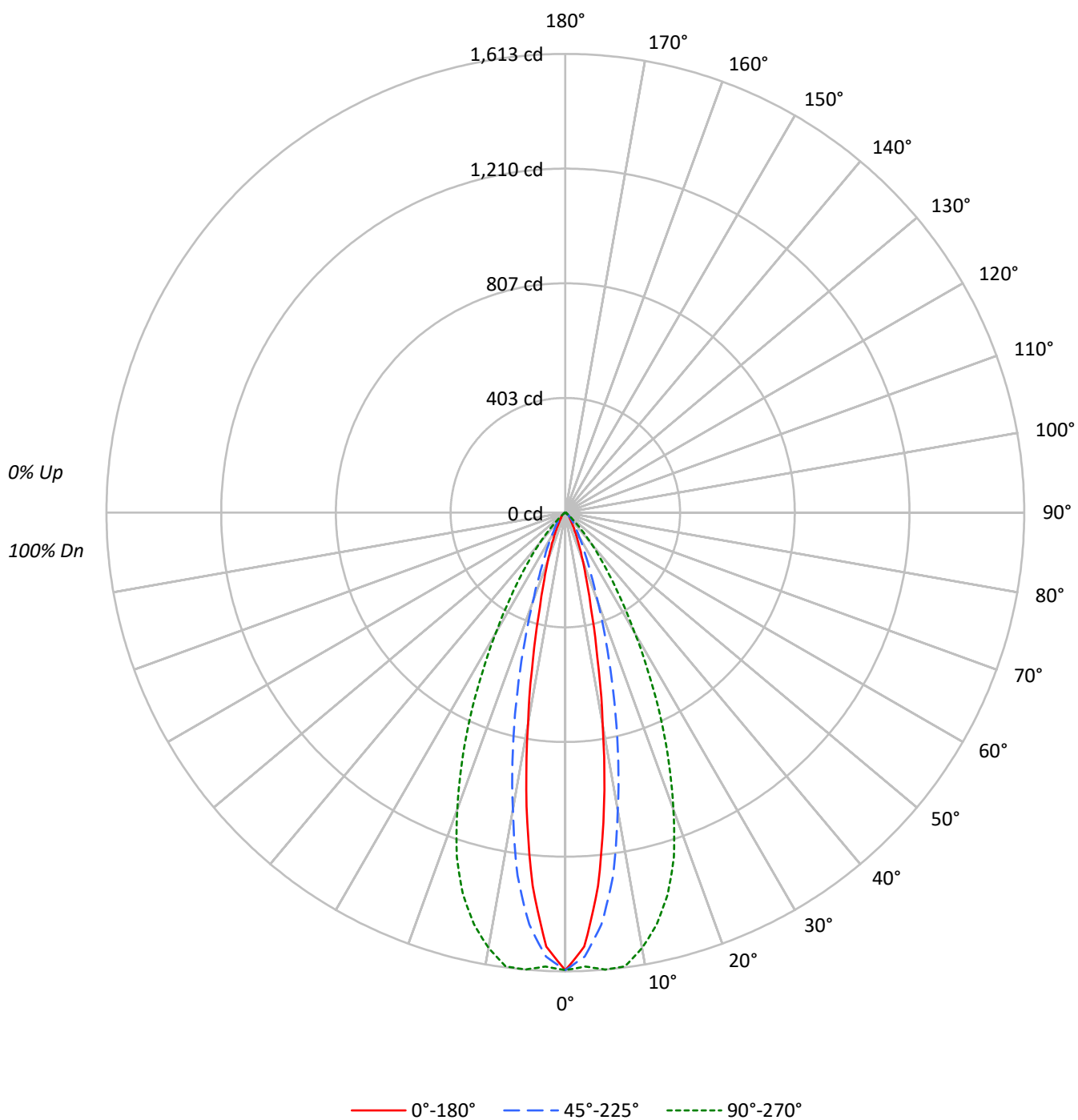
Lumens per Lamp: N/A  
Luminaire Lumens: 578.2 lumens  
Efficiency: N/A  
Efficacy: 82.6 lumens/watt  
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 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 | 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°  | 793671 | 793671 | 793671 |
| 5°  | 652487 | 719940 | 798684 |
| 10° | 378735 | 531983 | 778662 |
| 15° | 176470 | 331334 | 709607 |
| 20° | 92982  | 174676 | 583250 |
| 25° | 51497  | 94556  | 430211 |
| 30° | 30193  | 55430  | 278234 |
| 35° | 19394  | 37161  | 164845 |
| 40° | 15135  | 25053  | 91582  |
| 45° | 13117  | 15001  | 40747  |
| 50° | 11820  | 10285  | 14967  |
| 55° | 8085   | 7483   | 6967   |
| 60° | 5920   | 5328   | 5328   |
| 65° | 4670   | 3969   | 4670   |
| 70° | 3895   | 3895   | 3895   |
| 75° | 3812   | 3812   | 3812   |
| 80° | 3694   | 3694   | 3694   |
| 85° | 3962   | 3962   | 3962   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 40747 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 128.1  | 22.2      |
| 10°-20°   | 209.7  | 36.3      |
| 20°-30°   | 139.9  | 24.2      |
| 30°-40°   | 63.1   | 10.9      |
| 40°-50°   | 23.1   | 4.0       |
| 50°-60°   | 8.1    | 1.4       |
| 60°-70°   | 3.8    | 0.7       |
| 70°-80°   | 2.0    | 0.3       |
| 80°-90°   | 0.6    | 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       |
| <hr/>     |        |           |
| 0°-30°    | 477.7  | 82.6      |
| 0°-40°    | 540.8  | 93.5      |
| 0°-60°    | 571.9  | 98.9      |
| 0°-90°    | 578.2  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 578.2  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1609 | 1609  | 1609 | 1609  | 1609 |      |
| 5°  | 1318 | 1358  | 1454 | 1560  | 1613 | 108  |
| 15° | 346  | 406   | 649  | 1096  | 1389 | 103  |
| 25° | 95   | 110   | 174  | 474   | 790  | 46   |
| 35° | 32   | 36    | 62   | 134   | 274  | 21   |
| 45° | 19   | 19    | 22   | 34    | 58   | 15   |
| 55° | 9    | 9     | 9    | 7     | 8    | 9    |
| 65° | 4    | 4     | 3    | 3     | 4    | 4    |
| 75° | 2    | 2     | 2    | 2     | 2    | 2    |
| 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°    | 1608.7 | 1608.7 | 1608.7 | 1608.7 | 1608.7 |
| 2.5°  | 1527.5 | 1543.6 | 1562.4 | 1581.8 | 1597.3 |
| 5°    | 1317.5 | 1358.5 | 1453.7 | 1559.7 | 1612.7 |
| 7.5°  | 1041.8 | 1102.2 | 1287.3 | 1496.7 | 1608.7 |
| 10°   | 756.0  | 833.2  | 1061.9 | 1387.3 | 1554.3 |
| 12.5° | 519.9  | 592.4  | 852.0  | 1249.1 | 1482.6 |
| 15°   | 345.5  | 405.9  | 648.7  | 1096.2 | 1389.3 |
| 17.5° | 243.5  | 284.4  | 471.6  | 929.1  | 1269.2 |
| 20°   | 177.1  | 204.6  | 332.7  | 765.4  | 1110.9 |
| 22.5° | 128.8  | 149.6  | 236.8  | 611.8  | 950.6  |
| 25°   | 94.6   | 110.0  | 173.7  | 473.6  | 790.3  |
| 27.5° | 70.4   | 82.5   | 130.1  | 359.6  | 629.9  |
| 30°   | 53.0   | 63.1   | 97.3   | 265.0  | 488.4  |
| 32.5° | 40.9   | 47.6   | 74.5   | 189.2  | 369.6  |
| 35°   | 32.2   | 36.2   | 61.7   | 133.5  | 273.7  |
| 37.5° | 26.8   | 29.5   | 51.0   | 93.2   | 200.6  |
| 40°   | 23.5   | 25.5   | 38.9   | 66.4   | 142.2  |
| 42.5° | 20.8   | 22.1   | 28.2   | 47.6   | 92.6   |
| 45°   | 18.8   | 18.8   | 21.5   | 33.5   | 58.4   |
| 47.5° | 17.4   | 15.4   | 16.8   | 23.5   | 34.2   |
| 50°   | 15.4   | 12.7   | 13.4   | 16.1   | 19.5   |
| 52.5° | 12.1   | 10.7   | 10.7   | 10.7   | 11.4   |
| 55°   | 9.4    | 8.7    | 8.7    | 7.4    | 8.1    |
| 57.5° | 7.4    | 7.4    | 6.7    | 6.0    | 6.7    |
| 60°   | 6.0    | 6.0    | 5.4    | 4.7    | 5.4    |
| 62.5° | 4.7    | 4.7    | 4.0    | 4.0    | 4.7    |
| 65°   | 4.0    | 4.0    | 3.4    | 3.4    | 4.0    |
| 67.5° | 3.4    | 3.4    | 3.4    | 2.7    | 3.4    |
| 70°   | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    |
| 72.5° | 2.0    | 2.0    | 2.7    | 2.0    | 2.0    |
| 75°   | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    |
| 77.5° | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    |
| 80°   | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    |
| 82.5° | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    |
| 85°   | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    |
| 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)