

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: P1178464

Luminaire Tested: LDA2B059040R2040D010 2LBD1LI

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1178464  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2206-683-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/17/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDA2B059040R2040D010 2LBD1LI  
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

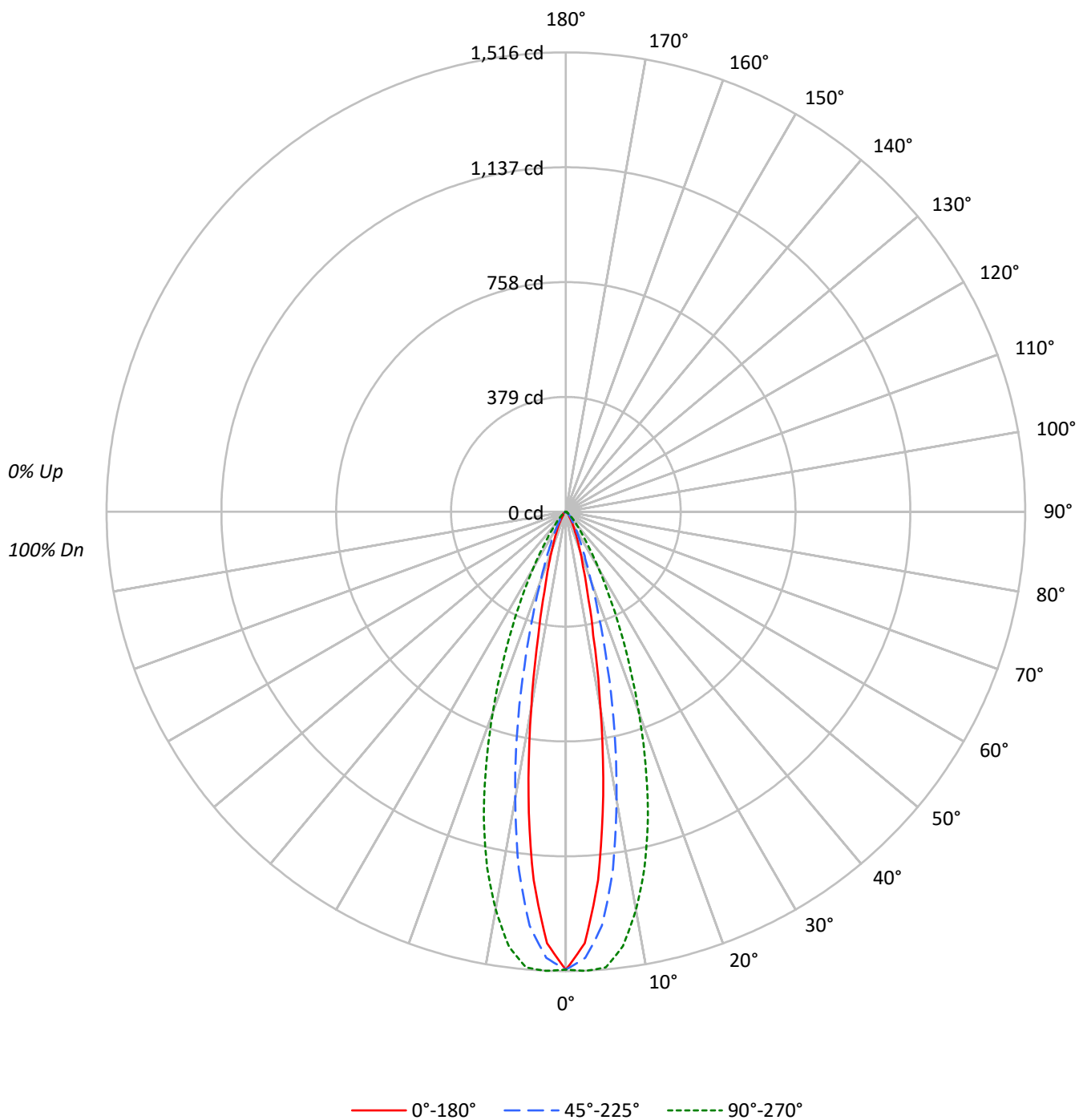
Lumens per Lamp: N/A  
Luminaire Lumens: 426.0 lumens  
Efficiency: N/A  
Efficacy: 60.9 lumens/watt  
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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  | 94  | 92  | 92  | 92  | 91  |
| 3   | 106 | 100 | 96  | 93  | 104 | 99  | 95  | 92  | 96  | 93  | 91  | 94  | 92  | 89  | 92  | 90  | 88  | 88  | 88  | 87  |
| 4   | 102 | 95  | 91  | 87  | 100 | 94  | 90  | 87  | 92  | 89  | 86  | 90  | 87  | 85  | 89  | 86  | 84  | 84  | 84  | 83  |
| 5   | 98  | 91  | 86  | 83  | 97  | 90  | 86  | 83  | 89  | 85  | 82  | 87  | 84  | 81  | 86  | 83  | 81  | 81  | 81  | 79  |
| 6   | 94  | 87  | 83  | 79  | 93  | 87  | 82  | 79  | 85  | 81  | 78  | 84  | 80  | 78  | 83  | 80  | 77  | 77  | 77  | 76  |
| 7   | 91  | 84  | 79  | 76  | 90  | 83  | 79  | 75  | 82  | 78  | 75  | 81  | 77  | 75  | 80  | 77  | 74  | 74  | 74  | 73  |
| 8   | 88  | 81  | 76  | 73  | 87  | 80  | 76  | 72  | 79  | 75  | 72  | 78  | 75  | 72  | 77  | 74  | 72  | 72  | 72  | 70  |
| 9   | 85  | 78  | 73  | 70  | 84  | 77  | 73  | 70  | 76  | 72  | 70  | 76  | 72  | 69  | 75  | 72  | 69  | 69  | 69  | 68  |
| 10  | 83  | 75  | 70  | 67  | 82  | 75  | 70  | 67  | 74  | 70  | 67  | 73  | 70  | 67  | 73  | 69  | 67  | 67  | 67  | 66  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 745618 | 745618 | 745618 |
| 5°  | 604399 | 678834 | 747574 |
| 10° | 328588 | 481936 | 667546 |
| 15° | 138979 | 270450 | 534363 |
| 20° | 70931  | 127161 | 369460 |
| 25° | 39303  | 65052  | 225204 |
| 30° | 21990  | 36118  | 122824 |
| 35° | 12708  | 21863  | 62577  |
| 40° | 9467   | 16552  | 34649  |
| 45° | 8373   | 11233  | 20513  |
| 50° | 8827   | 7445   | 10899  |
| 55° | 6365   | 5161   | 5935   |
| 60° | 4046   | 3651   | 3651   |
| 65° | 3269   | 3269   | 3269   |
| 70° | 2596   | 2596   | 2596   |
| 75° | 2669   | 2669   | 2669   |
| 80° | 2557   | 2557   | 2557   |
| 85° | 2830   | 2830   | 2830   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 20513 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 117.8  | 27.6      |
| 10°-20°   | 166.5  | 39.1      |
| 20°-30°   | 85.8   | 20.1      |
| 30°-40°   | 31.6   | 7.4       |
| 40°-50°   | 13.9   | 3.3       |
| 50°-60°   | 6.1    | 1.4       |
| 60°-70°   | 2.7    | 0.6       |
| 70°-80°   | 1.3    | 0.3       |
| 80°-90°   | 0.4    | 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°    | 370.1  | 86.9      |
| 0°-40°    | 401.6  | 94.3      |
| 0°-60°    | 421.6  | 99.0      |
| 0°-90°    | 426.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 426.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1511 | 1511  | 1511 | 1511  | 1511 |      |
| 5°  | 1220 | 1262  | 1371 | 1468  | 1510 | 98   |
| 15° | 272  | 316   | 530  | 883   | 1046 | 83   |
| 25° | 72   | 81    | 120  | 274   | 414  | 35   |
| 35° | 21   | 24    | 36   | 63    | 104  | 14   |
| 45° | 12   | 14    | 16   | 19    | 29   | 10   |
| 55° | 7    | 6     | 6    | 6     | 7    | 7    |
| 65° | 3    | 3     | 3    | 2     | 3    | 3    |
| 75° | 1    | 1     | 1    | 1     | 1    | 1    |
| 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°    | 1511.3 | 1511.3 | 1511.3 | 1511.3 | 1511.3 |
| 2.5°  | 1424.9 | 1441.9 | 1473.6 | 1504.0 | 1516.4 |
| 5°    | 1220.4 | 1261.7 | 1370.7 | 1467.6 | 1509.5 |
| 7.5°  | 945.0  | 1013.1 | 1189.6 | 1371.1 | 1445.6 |
| 10°   | 655.9  | 724.9  | 962.0  | 1223.1 | 1332.5 |
| 12.5° | 418.3  | 485.4  | 741.4  | 1059.0 | 1201.1 |
| 15°   | 272.1  | 316.2  | 529.5  | 883.4  | 1046.2 |
| 17.5° | 188.9  | 220.2  | 360.4  | 697.3  | 874.7  |
| 20°   | 135.1  | 157.2  | 242.2  | 531.8  | 703.7  |
| 22.5° | 97.9   | 113.1  | 168.2  | 388.4  | 547.0  |
| 25°   | 72.2   | 80.9   | 119.5  | 274.4  | 413.7  |
| 27.5° | 53.3   | 58.8   | 86.4   | 189.4  | 302.4  |
| 30°   | 38.6   | 43.2   | 63.4   | 130.1  | 215.6  |
| 32.5° | 28.0   | 32.2   | 47.3   | 90.1   | 150.3  |
| 35°   | 21.1   | 24.4   | 36.3   | 63.4   | 103.9  |
| 37.5° | 17.5   | 19.3   | 29.9   | 46.0   | 73.5   |
| 40°   | 14.7   | 16.5   | 25.7   | 34.0   | 53.8   |
| 42.5° | 12.9   | 15.2   | 21.1   | 25.3   | 40.4   |
| 45°   | 12.0   | 13.8   | 16.1   | 19.3   | 29.4   |
| 47.5° | 12.0   | 11.5   | 12.4   | 14.7   | 20.7   |
| 50°   | 11.5   | 9.7    | 9.7    | 11.5   | 14.2   |
| 52.5° | 9.7    | 7.8    | 7.8    | 8.3    | 9.7    |
| 55°   | 7.4    | 6.4    | 6.0    | 6.4    | 6.9    |
| 57.5° | 5.5    | 5.5    | 5.1    | 4.6    | 5.1    |
| 60°   | 4.1    | 4.1    | 3.7    | 3.7    | 3.7    |
| 62.5° | 3.2    | 3.2    | 3.2    | 2.8    | 3.2    |
| 65°   | 2.8    | 2.8    | 2.8    | 2.3    | 2.8    |
| 67.5° | 2.3    | 2.3    | 1.8    | 2.3    | 2.3    |
| 70°   | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    |
| 72.5° | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    |
| 75°   | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    |
| 77.5° | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    |
| 80°   | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    |
| 82.5° | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    |
| 85°   | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    |
| 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)