

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: P1178393

Luminaire Tested: LDA2B059030R2040D010 2LBDC1MB

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1178393  
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: LDA2B059030R2040D010 2LBDC1MB  
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

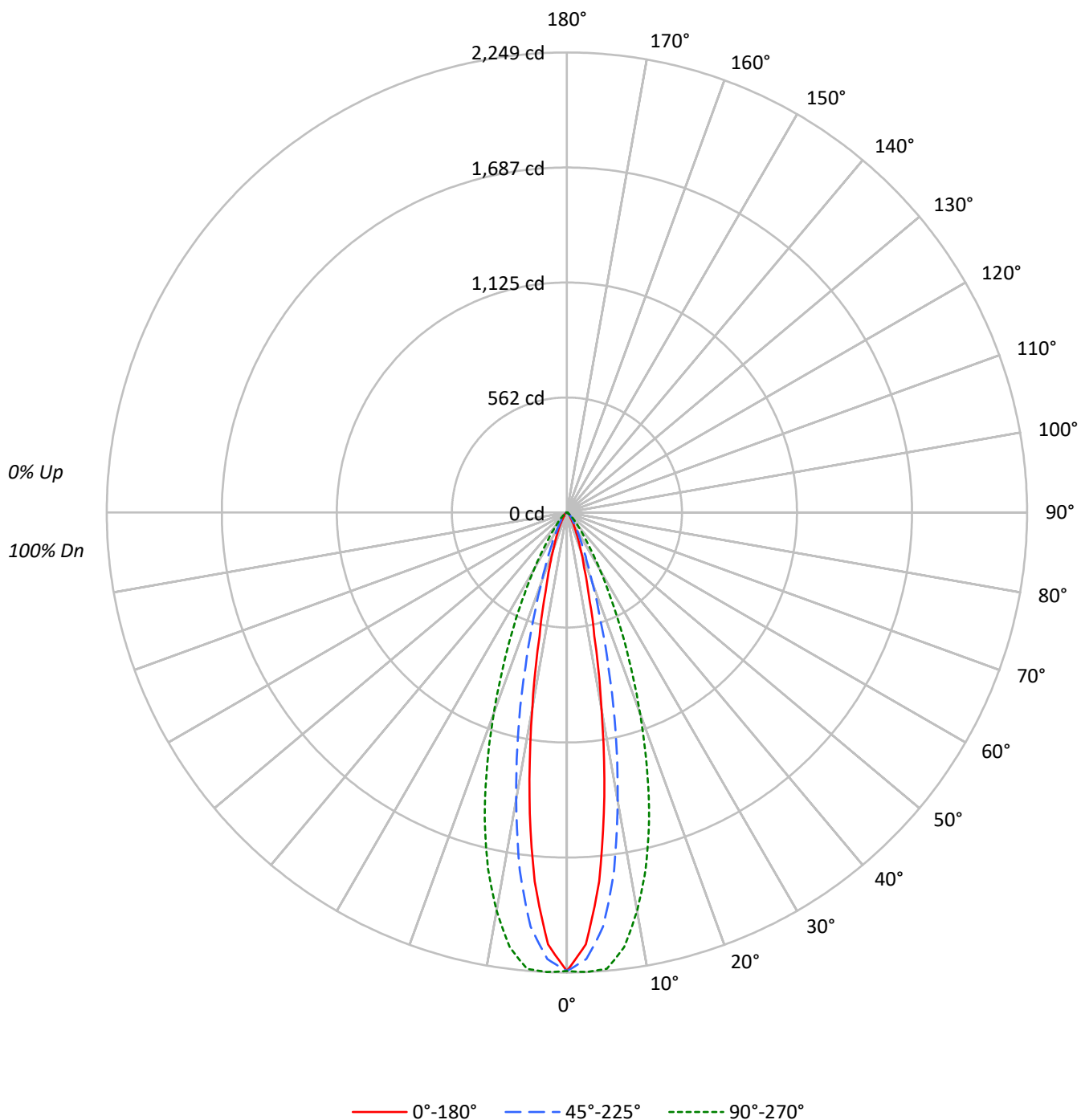
Lumens per Lamp: N/A  
Luminaire Lumens: 631.7 lumens  
Efficiency: N/A  
Efficacy: 90.2 lumens/watt  
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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

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

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 1105772 | 1105772 | 1105772 |
| 5°  | 896297  | 1006687 | 1108658 |
| 10° | 487296  | 714738  | 989972  |
| 15° | 206094  | 401104  | 792453  |
| 20° | 105215  | 188589  | 547916  |
| 25° | 58247   | 96461   | 333968  |
| 30° | 32643   | 53607   | 182128  |
| 35° | 18912   | 32463   | 92812   |
| 40° | 14040   | 24602   | 51394   |
| 45° | 12350   | 16675   | 30421   |
| 50° | 13048   | 10976   | 16195   |
| 55° | 9376    | 7655    | 8774    |
| 60° | 6019    | 5427    | 5427    |
| 65° | 4786    | 4786    | 4786    |
| 70° | 3895    | 3895    | 3895    |
| 75° | 3812    | 3812    | 3812    |
| 80° | 3978    | 3978    | 3978    |
| 85° | 3962    | 3962    | 3962    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 30421 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 174.6  | 27.6      |
| 10°-20°   | 247.0  | 39.1      |
| 20°-30°   | 127.2  | 20.1      |
| 30°-40°   | 46.8   | 7.4       |
| 40°-50°   | 20.6   | 3.3       |
| 50°-60°   | 9.0    | 1.4       |
| 60°-70°   | 3.9    | 0.6       |
| 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°    | 548.8  | 86.9      |
| 0°-40°    | 595.6  | 94.3      |
| 0°-60°    | 625.2  | 99.0      |
| 0°-90°    | 631.7  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 631.7  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2241 | 2241  | 2241 | 2241  | 2241 |      |
| 5°  | 1810 | 1871  | 2033 | 2176  | 2239 | 146  |
| 15° | 404  | 469   | 785  | 1310  | 1552 | 123  |
| 25° | 107  | 120   | 177  | 407   | 614  | 51   |
| 35° | 31   | 36    | 54   | 94    | 154  | 21   |
| 45° | 18   | 20    | 24   | 29    | 44   | 14   |
| 55° | 11   | 10    | 9    | 10    | 10   | 10   |
| 65° | 4    | 4     | 4    | 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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CATALOG NUMBER: LDA2B059030R2040D010 2LBDC1MB

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2241.3 | 2241.3 | 2241.3 | 2241.3 | 2241.3 |
| 2.5°  | 2113.1 | 2138.4 | 2185.4 | 2230.4 | 2248.8 |
| 5°    | 1809.8 | 1871.2 | 2032.7 | 2176.5 | 2238.6 |
| 7.5°  | 1401.5 | 1502.4 | 1764.1 | 2033.4 | 2143.8 |
| 10°   | 972.7  | 1075.0 | 1426.7 | 1813.9 | 1976.1 |
| 12.5° | 620.3  | 719.8  | 1099.5 | 1570.5 | 1781.2 |
| 15°   | 403.5  | 469.0  | 785.3  | 1310.1 | 1551.5 |
| 17.5° | 280.2  | 326.5  | 534.4  | 1034.1 | 1297.2 |
| 20°   | 200.4  | 233.1  | 359.2  | 788.7  | 1043.6 |
| 22.5° | 145.2  | 167.7  | 249.5  | 576.0  | 811.2  |
| 25°   | 107.0  | 120.0  | 177.2  | 406.9  | 613.5  |
| 27.5° | 79.1   | 87.3   | 128.2  | 280.8  | 448.5  |
| 30°   | 57.3   | 64.1   | 94.1   | 192.9  | 319.7  |
| 32.5° | 41.6   | 47.7   | 70.2   | 133.6  | 222.9  |
| 35°   | 31.4   | 36.1   | 53.9   | 94.1   | 154.1  |
| 37.5° | 25.9   | 28.6   | 44.3   | 68.2   | 109.1  |
| 40°   | 21.8   | 24.5   | 38.2   | 50.4   | 79.8   |
| 42.5° | 19.1   | 22.5   | 31.4   | 37.5   | 60.0   |
| 45°   | 17.7   | 20.4   | 23.9   | 28.6   | 43.6   |
| 47.5° | 17.7   | 17.0   | 18.4   | 21.8   | 30.7   |
| 50°   | 17.0   | 14.3   | 14.3   | 17.0   | 21.1   |
| 52.5° | 14.3   | 11.6   | 11.6   | 12.3   | 14.3   |
| 55°   | 10.9   | 9.5    | 8.9    | 9.5    | 10.2   |
| 57.5° | 8.2    | 8.2    | 7.5    | 6.8    | 7.5    |
| 60°   | 6.1    | 6.1    | 5.5    | 5.5    | 5.5    |
| 62.5° | 4.8    | 4.8    | 4.8    | 4.1    | 4.8    |
| 65°   | 4.1    | 4.1    | 4.1    | 3.4    | 4.1    |
| 67.5° | 3.4    | 3.4    | 2.7    | 3.4    | 3.4    |
| 70°   | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    |
| 72.5° | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    |
| 75°   | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    |
| 77.5° | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    |
| 80°   | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    |
| 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)