

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: P1178132

Luminaire Tested: LDA2B058027R2050D010 2LBD1MW

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1178132  
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: LDA2B058027R2050D010 2LBD1MW  
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 2700K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

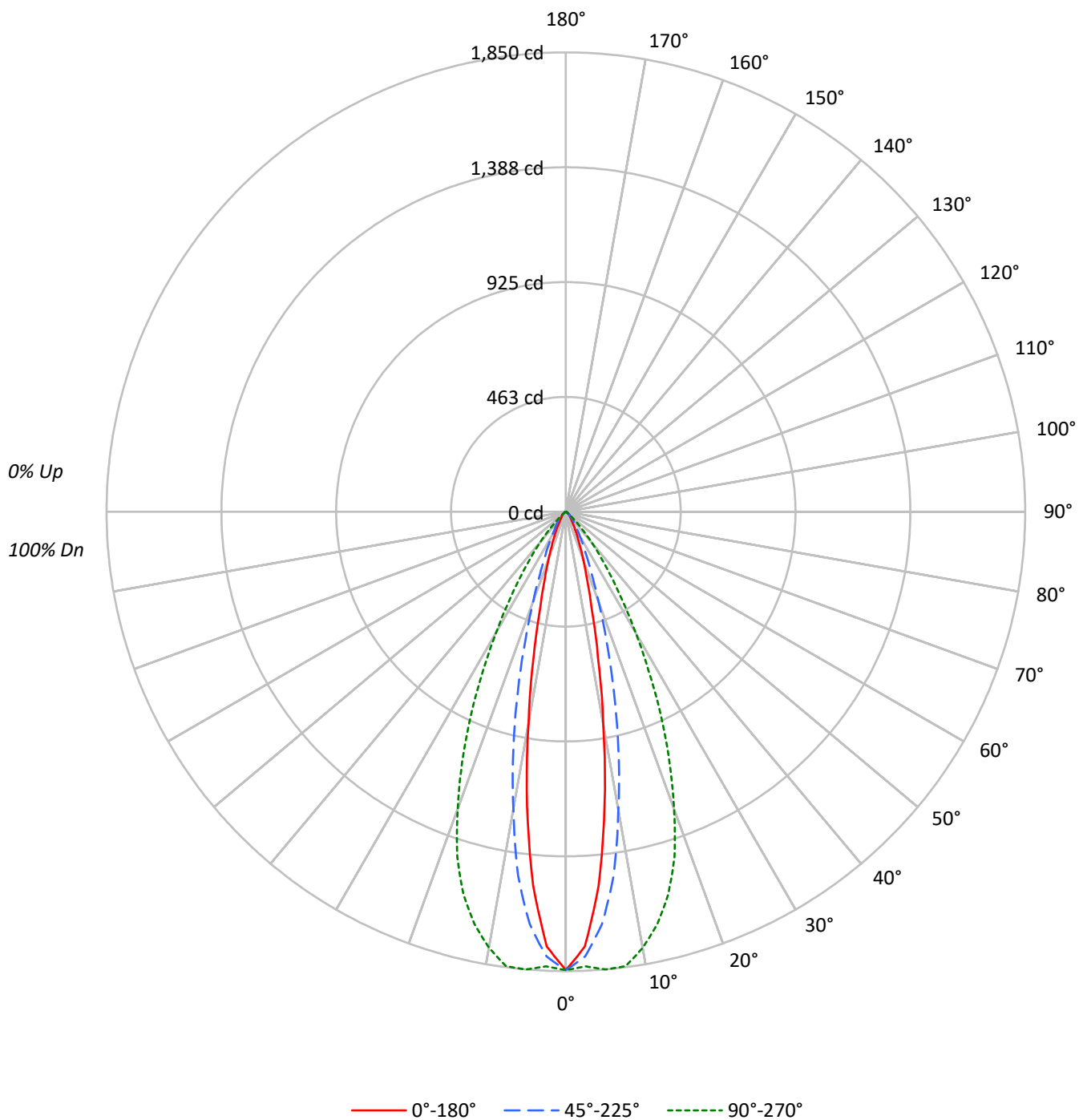
Lumens per Lamp: N/A  
Luminaire Lumens: 663.4 lumens  
Efficiency: N/A  
Efficacy: 94.8 lumens/watt  
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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°  | 910499 | 910499 | 910499 |
| 5°  | 748565 | 825922 | 916255 |
| 10° | 434494 | 610335 | 893284 |
| 15° | 202416 | 380112 | 814058 |
| 20° | 106685 | 200402 | 669091 |
| 25° | 59064  | 108492 | 493521 |
| 30° | 34637  | 63577  | 319195 |
| 35° | 22224  | 42642  | 189117 |
| 40° | 17325  | 28724  | 105107 |
| 45° | 15001  | 17164  | 46747  |
| 50° | 13585  | 11820  | 17116  |
| 55° | 9290   | 8602   | 7913   |
| 60° | 6808   | 6118   | 6118   |
| 65° | 5370   | 4436   | 5370   |
| 70° | 4472   | 4472   | 4472   |
| 75° | 4384   | 4384   | 4384   |
| 80° | 4262   | 4262   | 4262   |
| 85° | 4529   | 4529   | 4529   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 46747 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 146.9  | 22.2      |
| 10°-20°   | 240.6  | 36.3      |
| 20°-30°   | 160.5  | 24.2      |
| 30°-40°   | 72.3   | 10.9      |
| 40°-50°   | 26.5   | 4.0       |
| 50°-60°   | 9.3    | 1.4       |
| 60°-70°   | 4.3    | 0.7       |
| 70°-80°   | 2.3    | 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°    | 548.0  | 82.6      |
| 0°-40°    | 620.4  | 93.5      |
| 0°-60°    | 656.1  | 98.9      |
| 0°-90°    | 663.4  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 663.4  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1846 | 1846  | 1846 | 1846  | 1846 |      |
| 5°  | 1512 | 1558  | 1668 | 1789  | 1850 | 123  |
| 15° | 396  | 466   | 744  | 1258  | 1594 | 119  |
| 25° | 108  | 126   | 199  | 543   | 907  | 52   |
| 35° | 37   | 42    | 71   | 153   | 314  | 24   |
| 45° | 22   | 22    | 25   | 38    | 67   | 17   |
| 55° | 11   | 10    | 10   | 8     | 9    | 10   |
| 65° | 5    | 5     | 4    | 4     | 5    | 5    |
| 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°    | 1845.5 | 1845.5 | 1845.5 | 1845.5 | 1845.5 |
| 2.5°  | 1752.4 | 1770.8 | 1792.4 | 1814.7 | 1832.4 |
| 5°    | 1511.5 | 1558.4 | 1667.7 | 1789.3 | 1850.1 |
| 7.5°  | 1195.2 | 1264.4 | 1476.9 | 1717.0 | 1845.5 |
| 10°   | 867.3  | 955.8  | 1218.3 | 1591.5 | 1783.1 |
| 12.5° | 596.4  | 679.6  | 977.4  | 1433.0 | 1700.8 |
| 15°   | 396.3  | 465.6  | 744.2  | 1257.5 | 1593.8 |
| 17.5° | 279.4  | 326.3  | 541.0  | 1065.9 | 1456.1 |
| 20°   | 203.2  | 234.7  | 381.7  | 878.1  | 1274.4 |
| 22.5° | 147.8  | 171.6  | 271.7  | 701.9  | 1090.5 |
| 25°   | 108.5  | 126.2  | 199.3  | 543.3  | 906.6  |
| 27.5° | 80.8   | 94.7   | 149.3  | 412.5  | 722.6  |
| 30°   | 60.8   | 72.3   | 111.6  | 304.0  | 560.3  |
| 32.5° | 46.9   | 54.6   | 85.4   | 217.0  | 424.0  |
| 35°   | 36.9   | 41.6   | 70.8   | 153.1  | 314.0  |
| 37.5° | 30.8   | 33.9   | 58.5   | 107.0  | 230.1  |
| 40°   | 26.9   | 29.2   | 44.6   | 76.2   | 163.2  |
| 42.5° | 23.9   | 25.4   | 32.3   | 54.6   | 106.2  |
| 45°   | 21.5   | 21.5   | 24.6   | 38.5   | 67.0   |
| 47.5° | 20.0   | 17.7   | 19.2   | 26.9   | 39.2   |
| 50°   | 17.7   | 14.6   | 15.4   | 18.5   | 22.3   |
| 52.5° | 13.9   | 12.3   | 12.3   | 12.3   | 13.1   |
| 55°   | 10.8   | 10.0   | 10.0   | 8.5    | 9.2    |
| 57.5° | 8.5    | 8.5    | 7.7    | 6.9    | 7.7    |
| 60°   | 6.9    | 6.9    | 6.2    | 5.4    | 6.2    |
| 62.5° | 5.4    | 5.4    | 4.6    | 4.6    | 5.4    |
| 65°   | 4.6    | 4.6    | 3.8    | 3.8    | 4.6    |
| 67.5° | 3.8    | 3.8    | 3.8    | 3.1    | 3.8    |
| 70°   | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    |
| 72.5° | 2.3    | 2.3    | 3.1    | 2.3    | 2.3    |
| 75°   | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    |
| 77.5° | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    |
| 80°   | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    |
| 82.5° | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    |
| 85°   | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    |
| 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)