

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: P1178302

Luminaire Tested: LDA2B058050R2060D010 2LBDC1MB

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1178302  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2010-034-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/17/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDA2B058050R2060D010 2LBDC1MB  
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

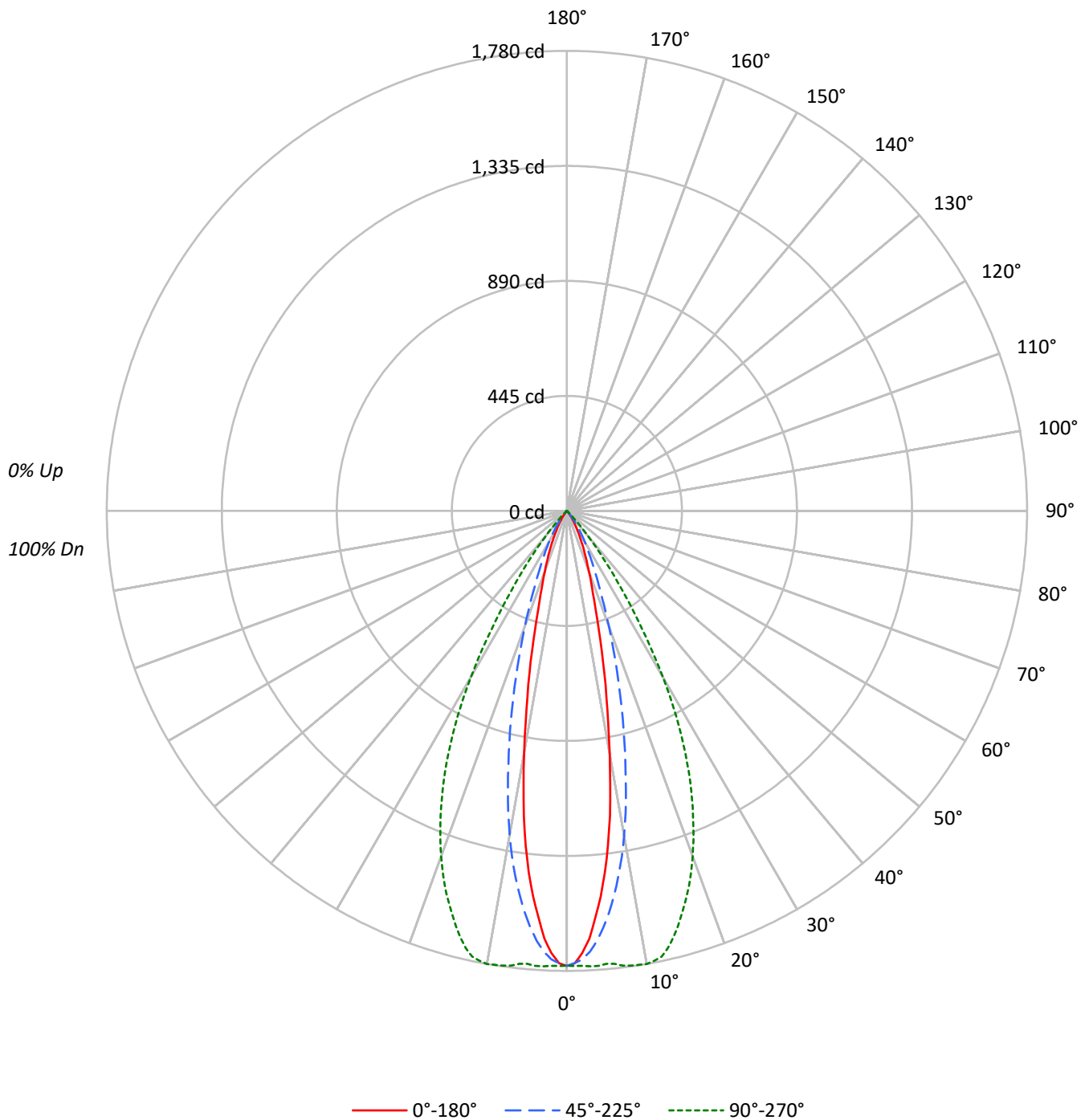
Lumens per Lamp: N/A  
Luminaire Lumens: 701.4 lumens  
Efficiency: N/A  
Efficacy: 100.2 lumens/watt  
Spacing Criteria (0/90/45): 0.36 / 0.9 / 0.52  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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 | 100 | 100 | 100 |
| 1   | 114 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 104 | 103 | 102 | 101 | 100 | 99  | 98  | 97  | 95  | 95  | 95  |
| 2   | 110 | 106 | 102 | 99  | 108 | 104 | 101 | 98  | 101 | 98  | 96  | 98  | 96  | 94  | 95  | 93  | 92  | 90  | 90  | 90  |
| 3   | 105 | 100 | 96  | 92  | 103 | 99  | 95  | 92  | 96  | 93  | 90  | 94  | 91  | 89  | 91  | 89  | 87  | 86  | 86  | 86  |
| 4   | 101 | 95  | 90  | 87  | 99  | 94  | 89  | 86  | 92  | 88  | 85  | 90  | 87  | 84  | 88  | 85  | 83  | 82  | 82  | 82  |
| 5   | 97  | 90  | 85  | 82  | 96  | 89  | 85  | 81  | 88  | 84  | 81  | 86  | 83  | 80  | 85  | 82  | 79  | 78  | 78  | 78  |
| 6   | 93  | 86  | 81  | 77  | 92  | 85  | 81  | 77  | 84  | 80  | 77  | 82  | 79  | 76  | 81  | 78  | 76  | 74  | 74  | 74  |
| 7   | 90  | 82  | 77  | 74  | 89  | 81  | 77  | 73  | 80  | 76  | 73  | 79  | 75  | 73  | 78  | 75  | 72  | 71  | 71  | 71  |
| 8   | 86  | 79  | 74  | 70  | 85  | 78  | 73  | 70  | 77  | 73  | 70  | 76  | 72  | 69  | 75  | 72  | 69  | 68  | 68  | 68  |
| 9   | 83  | 75  | 70  | 67  | 82  | 75  | 70  | 67  | 74  | 70  | 67  | 73  | 69  | 66  | 72  | 69  | 66  | 65  | 65  | 65  |
| 10  | 80  | 72  | 67  | 64  | 79  | 72  | 67  | 64  | 71  | 67  | 64  | 70  | 66  | 64  | 70  | 66  | 64  | 62  | 62  | 62  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 868563 | 868563 | 868563 |
| 5°  | 741681 | 801705 | 871039 |
| 10° | 477527 | 639141 | 891781 |
| 15° | 244963 | 426285 | 848637 |
| 20° | 130836 | 249124 | 746428 |
| 25° | 72945  | 136581 | 607130 |
| 30° | 38909  | 77762  | 422934 |
| 35° | 16984  | 37522  | 220496 |
| 40° | 4959   | 11013  | 83532  |
| 45° | 1186   | 3000   | 12489  |
| 50° | 691    | 691    | 1305   |
| 55° | 774    | 774    | 774    |
| 60° | 0      | 888    | 888    |
| 65° | 0      | 1051   | 1051   |
| 70° | 0      | 1298   | 1298   |
| 75° | 0      | 1716   | 1716   |
| 80° | 0      | 2557   | 2557   |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 12489 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 145.3  | 20.7      |
| 10°-20°   | 264.5  | 37.7      |
| 20°-30°   | 200.5  | 28.6      |
| 30°-40°   | 80.2   | 11.4      |
| 40°-50°   | 8.1    | 1.2       |
| 50°-60°   | 0.9    | 0.1       |
| 60°-70°   | 0.8    | 0.1       |
| 70°-80°   | 0.8    | 0.1       |
| 80°-90°   | 0.2    | 0.0       |
| 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°    | 610.3  | 87.0      |
| 0°-40°    | 690.5  | 98.5      |
| 0°-60°    | 699.6  | 99.7      |
| 0°-90°    | 701.4  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 701.4  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1760 | 1760  | 1760 | 1760  | 1760 |      |
| 5°  | 1498 | 1531  | 1619 | 1713  | 1759 | 125  |
| 15° | 480  | 556   | 835  | 1374  | 1662 | 137  |
| 25° | 134  | 156   | 251  | 717   | 1115 | 63   |
| 35° | 28   | 35    | 62   | 189   | 366  | 19   |
| 45° | 2    | 3     | 4    | 8     | 18   | 2    |
| 55° | 1    | 1     | 1    | 1     | 1    | 0    |
| 65° | 0    | 1     | 1    | 1     | 1    | 0    |
| 75° | 0    | 1     | 1    | 1     | 1    | 0    |
| 85° | 0    | 0     | 0    | 0     | 0    | 0    |
| 90° | 0    | 0     | 0    | 0     | 0    | 0    |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1760.5 | 1760.5 | 1760.5 | 1760.5 | 1760.5 |
| 1°    | 1751.1 | 1751.9 | 1750.2 | 1752.8 | 1761.3 |
| 2°    | 1711.8 | 1724.6 | 1735.7 | 1746.8 | 1761.3 |
| 3°    | 1657.2 | 1672.6 | 1707.6 | 1742.6 | 1764.7 |
| 4°    | 1577.0 | 1608.6 | 1668.3 | 1732.3 | 1764.7 |
| 5°    | 1497.6 | 1530.9 | 1618.8 | 1712.7 | 1758.8 |
| 6°    | 1407.2 | 1455.0 | 1561.6 | 1693.9 | 1762.2 |
| 7°    | 1304.8 | 1363.7 | 1498.5 | 1682.0 | 1772.4 |
| 8°    | 1193.8 | 1260.4 | 1429.4 | 1656.4 | 1776.7 |
| 9°    | 1071.0 | 1152.0 | 1356.0 | 1625.6 | 1778.4 |
| 10°   | 953.2  | 1038.5 | 1275.8 | 1590.7 | 1780.1 |
| 11°   | 835.4  | 924.2  | 1188.7 | 1556.5 | 1773.3 |
| 12°   | 735.6  | 820.1  | 1097.4 | 1520.7 | 1763.0 |
| 13°   | 643.4  | 725.4  | 1007.0 | 1478.0 | 1736.6 |
| 14°   | 558.1  | 638.3  | 919.9  | 1428.5 | 1701.6 |
| 15°   | 479.6  | 556.4  | 834.6  | 1373.9 | 1661.5 |
| 16°   | 408.8  | 480.4  | 752.7  | 1313.3 | 1617.1 |
| 17°   | 357.6  | 414.7  | 675.9  | 1249.3 | 1573.6 |
| 18°   | 317.4  | 360.1  | 603.3  | 1186.2 | 1527.5 |
| 19°   | 281.6  | 315.7  | 535.9  | 1120.5 | 1476.3 |
| 20°   | 249.2  | 279.9  | 474.5  | 1052.2 | 1421.7 |
| 21°   | 221.9  | 248.3  | 417.3  | 984.8  | 1366.2 |
| 22°   | 198.0  | 221.0  | 366.1  | 918.2  | 1305.6 |
| 23°   | 175.8  | 196.3  | 322.6  | 850.8  | 1245.0 |
| 24°   | 154.5  | 176.6  | 284.2  | 782.5  | 1181.9 |
| 25°   | 134.0  | 156.2  | 250.9  | 716.8  | 1115.3 |
| 26°   | 117.8  | 138.2  | 222.7  | 652.8  | 1046.2 |
| 27°   | 101.5  | 122.9  | 198.0  | 591.4  | 976.2  |
| 28°   | 88.7   | 108.4  | 175.8  | 532.5  | 900.3  |
| 29°   | 76.8   | 95.6   | 155.3  | 474.5  | 822.6  |
| 30°   | 68.3   | 82.8   | 136.5  | 419.9  | 742.4  |
| 32.5° | 46.9   | 55.5   | 95.6   | 295.3  | 541.9  |
| 35°   | 28.2   | 35.0   | 62.3   | 189.4  | 366.1  |
| 37.5° | 15.4   | 18.8   | 35.8   | 113.5  | 230.4  |
| 40°   | 7.7    | 9.4    | 17.1   | 55.5   | 129.7  |
| 42.5° | 3.4    | 4.3    | 7.7    | 21.3   | 55.5   |
| 45°   | 1.7    | 2.6    | 4.3    | 8.5    | 17.9   |
| 47.5° | 0.9    | 1.7    | 1.7    | 3.4    | 5.1    |
| 50°   | 0.9    | 0.9    | 0.9    | 1.7    | 1.7    |
| 52.5° | 0.9    | 0.9    | 0.9    | 1.7    | 1.7    |
| 55°   | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    |
| 57.5° | 0.0    | 0.9    | 0.9    | 0.9    | 0.9    |
| 60°   | 0.0    | 0.9    | 0.9    | 0.9    | 0.9    |
| 62.5° | 0.0    | 0.9    | 0.9    | 0.9    | 0.9    |
| 65°   | 0.0    | 0.9    | 0.9    | 0.9    | 0.9    |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 22.5° | 45° | 67.5° | 90° |
|-------|-----|-------|-----|-------|-----|
| 67.5° | 0.0 | 0.9   | 0.9 | 0.9   | 0.9 |
| 70°   | 0.0 | 0.9   | 0.9 | 0.9   | 0.9 |
| 72.5° | 0.0 | 0.9   | 0.9 | 0.9   | 0.9 |
| 75°   | 0.0 | 0.9   | 0.9 | 0.9   | 0.9 |
| 77.5° | 0.0 | 0.9   | 0.9 | 0.9   | 0.9 |
| 80°   | 0.0 | 0.0   | 0.9 | 0.9   | 0.9 |
| 82.5° | 0.0 | 0.0   | 0.9 | 0.9   | 0.9 |
| 85°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 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)