

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: P1178380

Luminaire Tested: LDA2B059027R2060D010 2LBDC1MB

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1178380  
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: LDA2B059027R2060D010 2LBDC1MB  
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2700K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

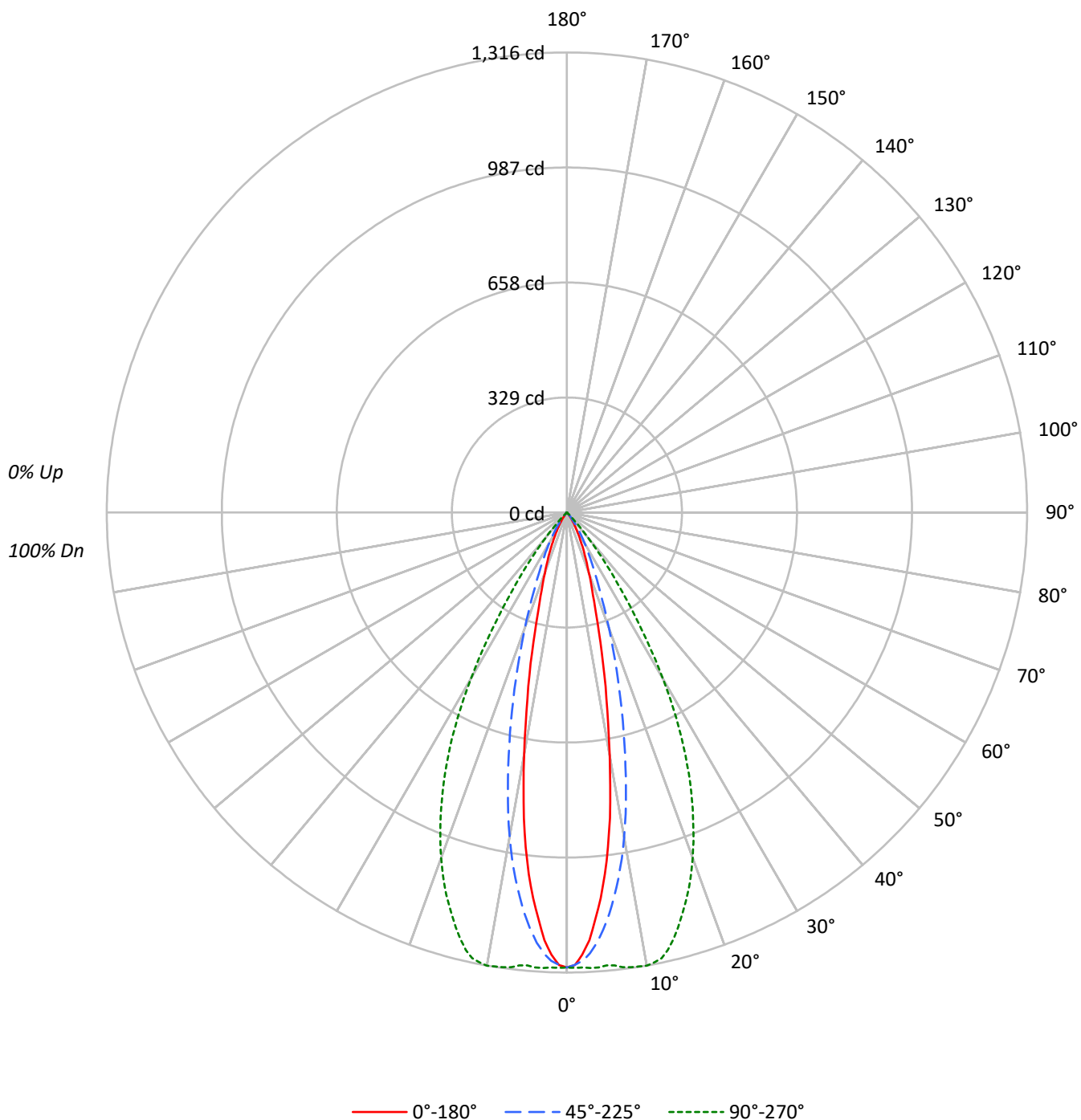
Lumens per Lamp: N/A  
Luminaire Lumens: 518.4 lumens  
Efficiency: N/A  
Efficacy: 74.1 lumens/watt  
Spacing Criteria (0/90/45): 0.36 / 0.9 / 0.52  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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  |
| RCR |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |  |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 |  | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 |
| 1   | 114 | 112 | 110 | 108 | 112 | 110 | 108 | 106 |  | 106 | 104 | 103 |  | 102 | 101 | 100 |  | 99  | 98  | 97  |
| 2   | 110 | 106 | 102 | 99  | 108 | 104 | 101 | 98  |  | 101 | 98  | 96  |  | 98  | 96  | 94  |  | 95  | 93  | 92  |
| 3   | 105 | 100 | 96  | 92  | 103 | 99  | 95  | 92  |  | 96  | 93  | 90  |  | 94  | 91  | 89  |  | 91  | 89  | 87  |
| 4   | 101 | 95  | 90  | 87  | 99  | 94  | 89  | 86  |  | 92  | 88  | 85  |  | 90  | 87  | 84  |  | 88  | 85  | 83  |
| 5   | 97  | 90  | 85  | 82  | 96  | 89  | 85  | 81  |  | 88  | 84  | 81  |  | 86  | 83  | 80  |  | 85  | 82  | 79  |
| 6   | 93  | 86  | 81  | 77  | 92  | 85  | 81  | 77  |  | 84  | 80  | 77  |  | 83  | 79  | 76  |  | 81  | 78  | 76  |
| 7   | 90  | 82  | 77  | 74  | 89  | 81  | 77  | 73  |  | 80  | 76  | 73  |  | 79  | 75  | 73  |  | 78  | 75  | 72  |
| 8   | 86  | 79  | 74  | 70  | 85  | 78  | 73  | 70  |  | 77  | 73  | 70  |  | 76  | 72  | 69  |  | 75  | 72  | 69  |
| 9   | 83  | 75  | 70  | 67  | 82  | 75  | 70  | 67  |  | 74  | 70  | 67  |  | 73  | 69  | 66  |  | 72  | 69  | 66  |
| 10  | 80  | 72  | 67  | 64  | 79  | 72  | 67  | 64  |  | 71  | 67  | 64  |  | 70  | 67  | 64  |  | 70  | 66  | 64  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 642209 | 642209 | 642209 |
| 5°  | 548436 | 592810 | 644068 |
| 10° | 353086 | 472568 | 659430 |
| 15° | 181118 | 315194 | 627476 |
| 20° | 96762  | 184179 | 551906 |
| 25° | 53947  | 100980 | 448937 |
| 30° | 28769  | 57538  | 312757 |
| 35° | 12527  | 27765  | 163038 |
| 40° | 3671   | 8115   | 61763  |
| 45° | 907    | 2233   | 9280   |
| 50° | 461    | 461    | 998    |
| 55° | 516    | 516    | 516    |
| 60° | 0      | 592    | 592    |
| 65° | 0      | 700    | 700    |
| 70° | 0      | 865    | 865    |
| 75° | 0      | 1144   | 1144   |
| 80° | 0      | 1705   | 1705   |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 9280 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 107.4  | 20.7      |
| 10°-20°   | 195.6  | 37.7      |
| 20°-30°   | 148.3  | 28.6      |
| 30°-40°   | 59.3   | 11.4      |
| 40°-50°   | 6.0    | 1.2       |
| 50°-60°   | 0.6    | 0.1       |
| 60°-70°   | 0.5    | 0.1       |
| 70°-80°   | 0.5    | 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°    | 451.3  | 87.0      |
| 0°-40°    | 510.6  | 98.5      |
| 0°-60°    | 517.2  | 99.8      |
| 0°-90°    | 518.4  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 518.4  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1302 | 1302  | 1302 | 1302  | 1302 |      |
| 5°  | 1107 | 1132  | 1197 | 1266  | 1300 | 93   |
| 15° | 355  | 411   | 617  | 1016  | 1228 | 101  |
| 25° | 99   | 116   | 186  | 530   | 825  | 47   |
| 35° | 21   | 26    | 46   | 140   | 271  | 14   |
| 45° | 1    | 2     | 3    | 6     | 13   | 1    |
| 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°    | 1301.7 | 1301.7 | 1301.7 | 1301.7 | 1301.7 |
| 1°    | 1294.8 | 1295.4 | 1294.2 | 1296.1 | 1302.4 |
| 2°    | 1265.8 | 1275.2 | 1283.4 | 1291.6 | 1302.4 |
| 3°    | 1225.4 | 1236.7 | 1262.6 | 1288.5 | 1304.9 |
| 4°    | 1166.1 | 1189.4 | 1233.6 | 1280.9 | 1304.9 |
| 5°    | 1107.4 | 1132.0 | 1197.0 | 1266.4 | 1300.5 |
| 6°    | 1040.5 | 1075.8 | 1154.7 | 1252.5 | 1303.0 |
| 7°    | 964.8  | 1008.3 | 1108.0 | 1243.7 | 1310.6 |
| 8°    | 882.8  | 932.0  | 1056.9 | 1224.8 | 1313.7 |
| 9°    | 791.9  | 851.8  | 1002.6 | 1202.0 | 1315.0 |
| 10°   | 704.8  | 767.9  | 943.3  | 1176.2 | 1316.3 |
| 11°   | 617.7  | 683.4  | 879.0  | 1150.9 | 1311.2 |
| 12°   | 543.9  | 606.4  | 811.5  | 1124.4 | 1303.6 |
| 13°   | 475.8  | 536.3  | 744.6  | 1092.9 | 1284.1 |
| 14°   | 412.7  | 472.0  | 680.2  | 1056.3 | 1258.2 |
| 15°   | 354.6  | 411.4  | 617.1  | 1015.9 | 1228.5 |
| 16°   | 302.2  | 355.2  | 556.5  | 971.1  | 1195.7 |
| 17°   | 264.4  | 306.7  | 499.7  | 923.8  | 1163.6 |
| 18°   | 234.7  | 266.3  | 446.1  | 877.1  | 1129.5 |
| 19°   | 208.2  | 233.5  | 396.3  | 828.5  | 1091.6 |
| 20°   | 184.3  | 207.0  | 350.8  | 778.0  | 1051.2 |
| 21°   | 164.1  | 183.6  | 308.6  | 728.2  | 1010.2 |
| 22°   | 146.4  | 163.4  | 270.7  | 678.9  | 965.4  |
| 23°   | 130.0  | 145.1  | 238.5  | 629.1  | 920.6  |
| 24°   | 114.2  | 130.6  | 210.1  | 578.6  | 873.9  |
| 25°   | 99.1   | 115.5  | 185.5  | 530.0  | 824.7  |
| 26°   | 87.1   | 102.2  | 164.7  | 482.7  | 773.6  |
| 27°   | 75.1   | 90.9   | 146.4  | 437.3  | 721.9  |
| 28°   | 65.6   | 80.1   | 130.0  | 393.7  | 665.7  |
| 29°   | 56.8   | 70.7   | 114.8  | 350.8  | 608.3  |
| 30°   | 50.5   | 61.2   | 101.0  | 310.4  | 549.0  |
| 32.5° | 34.7   | 41.0   | 70.7   | 218.3  | 400.7  |
| 35°   | 20.8   | 25.9   | 46.1   | 140.1  | 270.7  |
| 37.5° | 11.4   | 13.9   | 26.5   | 83.9   | 170.4  |
| 40°   | 5.7    | 6.9    | 12.6   | 41.0   | 95.9   |
| 42.5° | 2.5    | 3.2    | 5.7    | 15.8   | 41.0   |
| 45°   | 1.3    | 1.9    | 3.2    | 6.3    | 13.3   |
| 47.5° | 0.6    | 1.3    | 1.3    | 2.5    | 3.8    |
| 50°   | 0.6    | 0.6    | 0.6    | 1.3    | 1.3    |
| 52.5° | 0.6    | 0.6    | 0.6    | 1.3    | 1.3    |
| 55°   | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    |
| 57.5° | 0.0    | 0.6    | 0.6    | 0.6    | 0.6    |
| 60°   | 0.0    | 0.6    | 0.6    | 0.6    | 0.6    |
| 62.5° | 0.0    | 0.6    | 0.6    | 0.6    | 0.6    |
| 65°   | 0.0    | 0.6    | 0.6    | 0.6    | 0.6    |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 22.5° | 45° | 67.5° | 90° |
|-------|-----|-------|-----|-------|-----|
| 67.5° | 0.0 | 0.6   | 0.6 | 0.6   | 0.6 |
| 70°   | 0.0 | 0.6   | 0.6 | 0.6   | 0.6 |
| 72.5° | 0.0 | 0.6   | 0.6 | 0.6   | 0.6 |
| 75°   | 0.0 | 0.6   | 0.6 | 0.6   | 0.6 |
| 77.5° | 0.0 | 0.6   | 0.6 | 0.6   | 0.6 |
| 80°   | 0.0 | 0.0   | 0.6 | 0.6   | 0.6 |
| 82.5° | 0.0 | 0.0   | 0.6 | 0.6   | 0.6 |
| 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)