

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: P1178456

Luminaire Tested: LDA2B059035R2060D010 2LBD1WHH

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1178456  
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: LDA2B059035R2060D010 2LBD1WHH  
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

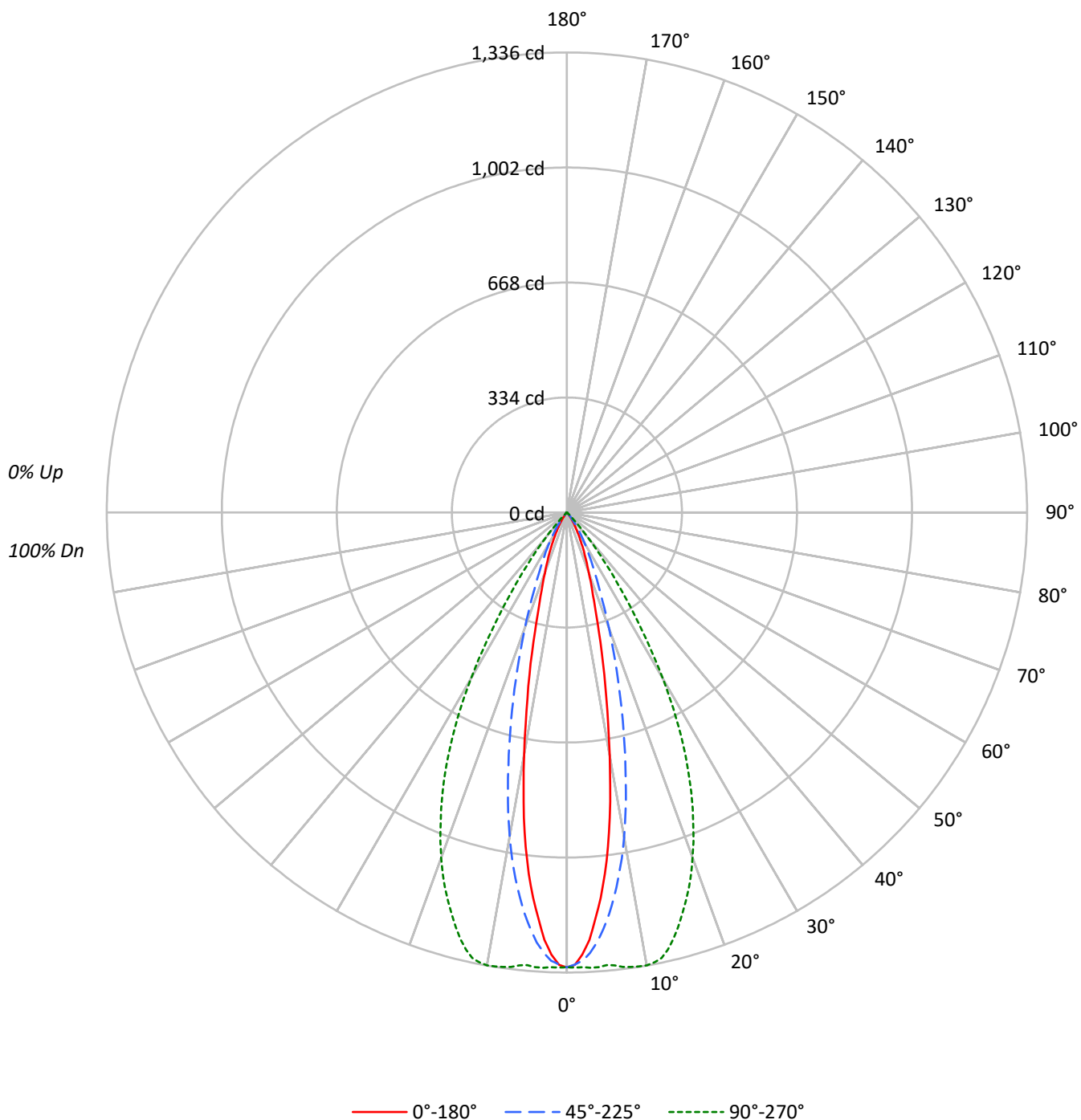
Lumens per Lamp: N/A  
Luminaire Lumens: 526.0 lumens  
Efficiency: N/A  
Efficacy: 75.1 lumens/watt  
Spacing Criteria (0/90/45): 0.36 / 0.9 / 0.52  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 651682 | 651682 | 651682 |
| 5°  | 556508 | 601526 | 653577 |
| 10° | 358296 | 479531 | 669149 |
| 15° | 183774 | 319841 | 636772 |
| 20° | 98180  | 186909 | 560044 |
| 25° | 54709  | 102449 | 455579 |
| 30° | 29168  | 58336  | 317372 |
| 35° | 12708  | 28127  | 165447 |
| 40° | 3735   | 8244   | 62665  |
| 45° | 907    | 2233   | 9349   |
| 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: 9349 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 109.0  | 20.7      |
| 10°-20°   | 198.5  | 37.7      |
| 20°-30°   | 150.4  | 28.6      |
| 30°-40°   | 60.2   | 11.4      |
| 40°-50°   | 6.1    | 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°    | 457.9  | 87.1      |
| 0°-40°    | 518.1  | 98.5      |
| 0°-60°    | 524.8  | 99.8      |
| 0°-90°    | 526.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 526.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1321 | 1321  | 1321 | 1321  | 1321 |      |
| 5°  | 1124 | 1149  | 1215 | 1285  | 1320 | 94   |
| 15° | 360  | 418   | 626  | 1031  | 1247 | 103  |
| 25° | 100  | 117   | 188  | 538   | 837  | 48   |
| 35° | 21   | 26    | 47   | 142   | 275  | 15   |
| 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°    | 1320.9 | 1320.9 | 1320.9 | 1320.9 | 1320.9 |
| 1°    | 1313.9 | 1314.5 | 1313.2 | 1315.2 | 1321.6 |
| 2°    | 1284.4 | 1294.0 | 1302.4 | 1310.7 | 1321.6 |
| 3°    | 1243.5 | 1255.0 | 1281.2 | 1307.5 | 1324.1 |
| 4°    | 1183.3 | 1207.0 | 1251.8 | 1299.8 | 1324.1 |
| 5°    | 1123.7 | 1148.7 | 1214.6 | 1285.1 | 1319.7 |
| 6°    | 1055.8 | 1091.7 | 1171.7 | 1271.0 | 1322.2 |
| 7°    | 979.0  | 1023.2 | 1124.4 | 1262.0 | 1329.9 |
| 8°    | 895.8  | 945.7  | 1072.5 | 1242.8 | 1333.1 |
| 9°    | 803.6  | 864.4  | 1017.4 | 1219.8 | 1334.4 |
| 10°   | 715.2  | 779.2  | 957.2  | 1193.5 | 1335.7 |
| 11°   | 626.9  | 693.4  | 891.9  | 1167.9 | 1330.5 |
| 12°   | 551.9  | 615.3  | 823.4  | 1141.0 | 1322.9 |
| 13°   | 482.8  | 544.3  | 755.6  | 1109.0 | 1303.0 |
| 14°   | 418.8  | 478.9  | 690.2  | 1071.9 | 1276.8 |
| 15°   | 359.8  | 417.5  | 626.2  | 1030.9 | 1246.7 |
| 16°   | 306.7  | 360.5  | 564.7  | 985.4  | 1213.4 |
| 17°   | 268.3  | 311.2  | 507.1  | 937.4  | 1180.7 |
| 18°   | 238.2  | 270.2  | 452.7  | 890.0  | 1146.1 |
| 19°   | 211.3  | 236.9  | 402.1  | 840.7  | 1107.7 |
| 20°   | 187.0  | 210.0  | 356.0  | 789.5  | 1066.7 |
| 21°   | 166.5  | 186.3  | 313.1  | 738.9  | 1025.1 |
| 22°   | 148.5  | 165.8  | 274.7  | 689.0  | 979.7  |
| 23°   | 131.9  | 147.3  | 242.0  | 638.4  | 934.2  |
| 24°   | 115.9  | 132.5  | 213.2  | 587.2  | 886.8  |
| 25°   | 100.5  | 117.2  | 188.2  | 537.8  | 836.9  |
| 26°   | 88.4   | 103.7  | 167.1  | 489.8  | 785.0  |
| 27°   | 76.2   | 92.2   | 148.5  | 443.7  | 732.5  |
| 28°   | 66.6   | 81.3   | 131.9  | 399.5  | 675.5  |
| 29°   | 57.6   | 71.7   | 116.5  | 356.0  | 617.2  |
| 30°   | 51.2   | 62.1   | 102.4  | 315.0  | 557.1  |
| 32.5° | 35.2   | 41.6   | 71.7   | 221.5  | 406.6  |
| 35°   | 21.1   | 26.3   | 46.7   | 142.1  | 274.7  |
| 37.5° | 11.5   | 14.1   | 26.9   | 85.2   | 172.9  |
| 40°   | 5.8    | 7.0    | 12.8   | 41.6   | 97.3   |
| 42.5° | 2.6    | 3.2    | 5.8    | 16.0   | 41.6   |
| 45°   | 1.3    | 1.9    | 3.2    | 6.4    | 13.4   |
| 47.5° | 0.6    | 1.3    | 1.3    | 2.6    | 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)