

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: P1179003

Luminaire Tested: LDA2B109040R2060D010 2LBDC1MW

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1179003  
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: LDA2B109040R2060D010 2LBDC1MW  
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

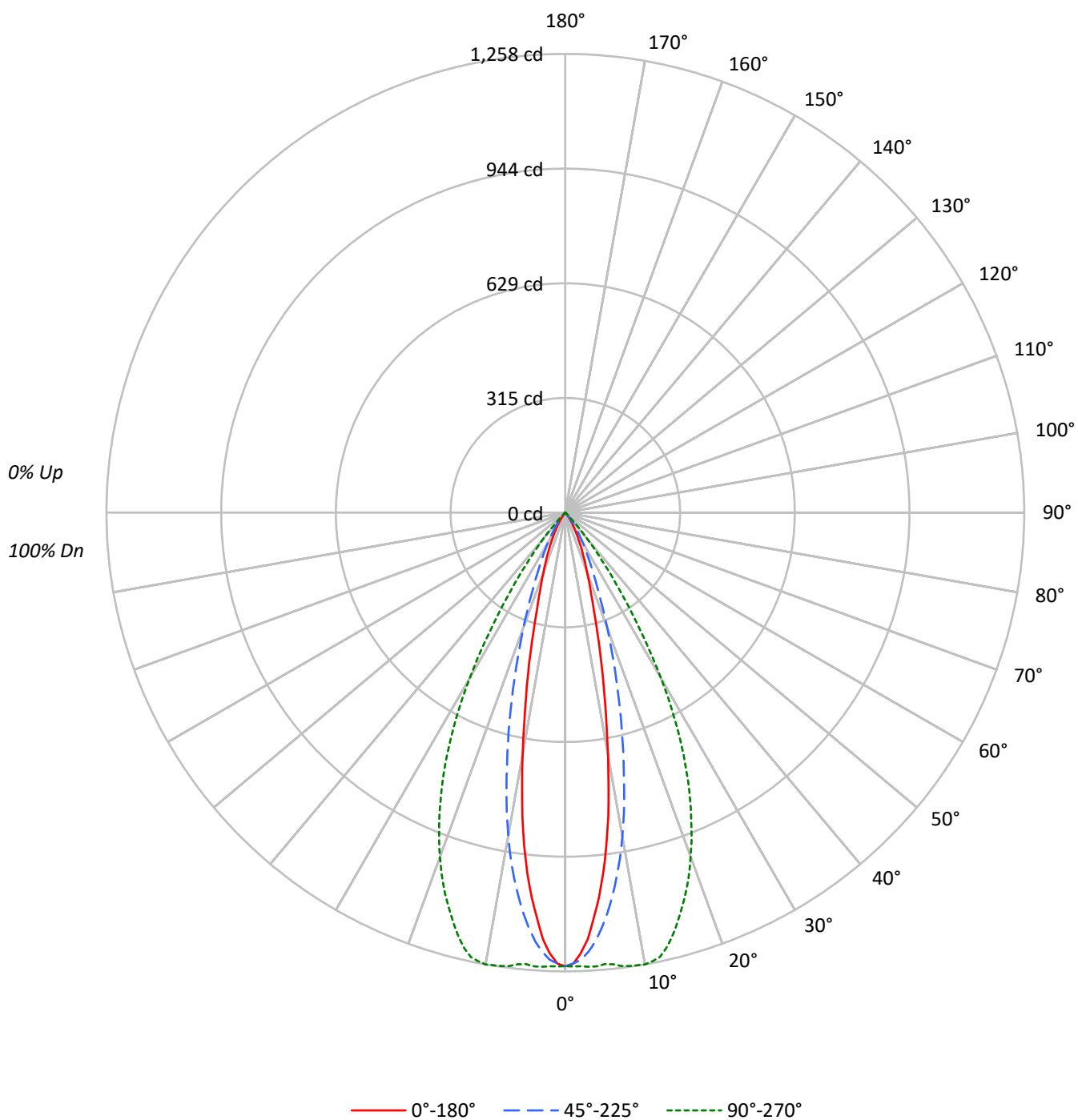
Lumens per Lamp: N/A  
Luminaire Lumens: 495.5 lumens  
Efficiency: N/A  
Efficacy: 49.6 lumens/watt  
Spacing Criteria (0/90/45): 0.36 / 0.9 / 0.52  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 613791 | 613791 | 613791 |
| 5°  | 524169 | 566562 | 615542 |
| 10° | 337455 | 451677 | 630224 |
| 15° | 173098 | 301250 | 599741 |
| 20° | 92457  | 176041 | 527492 |
| 25° | 51551  | 96516  | 429068 |
| 30° | 27459  | 54975  | 298914 |
| 35° | 11985  | 26500  | 155811 |
| 40° | 3478   | 7793   | 59058  |
| 45° | 837    | 2093   | 8861   |
| 50° | 461    | 461    | 921    |
| 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: 8861 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 102.7  | 20.7      |
| 10°-20°   | 186.9  | 37.7      |
| 20°-30°   | 141.7  | 28.6      |
| 30°-40°   | 56.7   | 11.4      |
| 40°-50°   | 5.7    | 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°    | 431.3  | 87.0      |
| 0°-40°    | 488.0  | 98.5      |
| 0°-60°    | 494.3  | 99.8      |
| 0°-90°    | 495.5  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 495.5  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1244 | 1244  | 1244 | 1244  | 1244 |      |
| 5°  | 1058 | 1082  | 1144 | 1210  | 1243 | 89   |
| 15° | 339  | 393   | 590  | 971   | 1174 | 97   |
| 25° | 95   | 110   | 177  | 507   | 788  | 45   |
| 35° | 20   | 25    | 44   | 134   | 259  | 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°    | 1244.1 | 1244.1 | 1244.1 | 1244.1 | 1244.1 |
| 1°    | 1237.5 | 1238.1 | 1236.9 | 1238.7 | 1244.7 |
| 2°    | 1209.8 | 1218.8 | 1226.6 | 1234.5 | 1244.7 |
| 3°    | 1171.2 | 1182.0 | 1206.7 | 1231.5 | 1247.1 |
| 4°    | 1114.5 | 1136.8 | 1179.0 | 1224.2 | 1247.1 |
| 5°    | 1058.4 | 1081.9 | 1144.0 | 1210.4 | 1242.9 |
| 6°    | 994.5  | 1028.2 | 1103.6 | 1197.1 | 1245.3 |
| 7°    | 922.1  | 963.7  | 1059.0 | 1188.7 | 1252.6 |
| 8°    | 843.7  | 890.7  | 1010.1 | 1170.6 | 1255.6 |
| 9°    | 756.9  | 814.1  | 958.3  | 1148.8 | 1256.8 |
| 10°   | 673.6  | 733.9  | 901.6  | 1124.1 | 1258.0 |
| 11°   | 590.4  | 653.1  | 840.1  | 1100.0 | 1253.2 |
| 12°   | 519.8  | 579.5  | 775.5  | 1074.7 | 1245.9 |
| 13°   | 454.7  | 512.6  | 711.6  | 1044.5 | 1227.2 |
| 14°   | 394.4  | 451.1  | 650.1  | 1009.5 | 1202.5 |
| 15°   | 338.9  | 393.2  | 589.8  | 970.9  | 1174.2 |
| 16°   | 288.9  | 339.5  | 531.9  | 928.1  | 1142.8 |
| 17°   | 252.7  | 293.1  | 477.6  | 882.9  | 1112.1 |
| 18°   | 224.3  | 254.5  | 426.4  | 838.3  | 1079.5 |
| 19°   | 199.0  | 223.1  | 378.7  | 791.8  | 1043.3 |
| 20°   | 176.1  | 197.8  | 335.3  | 743.6  | 1004.7 |
| 21°   | 156.8  | 175.5  | 294.9  | 695.9  | 965.5  |
| 22°   | 139.9  | 156.2  | 258.7  | 648.9  | 922.7  |
| 23°   | 124.2  | 138.7  | 228.0  | 601.3  | 879.9  |
| 24°   | 109.2  | 124.8  | 200.8  | 553.0  | 835.3  |
| 25°   | 94.7   | 110.4  | 177.3  | 506.6  | 788.2  |
| 26°   | 83.2   | 97.7   | 157.4  | 461.3  | 739.4  |
| 27°   | 71.8   | 86.8   | 139.9  | 417.9  | 689.9  |
| 28°   | 62.7   | 76.6   | 124.2  | 376.3  | 636.2  |
| 29°   | 54.3   | 67.5   | 109.8  | 335.3  | 581.4  |
| 30°   | 48.2   | 58.5   | 96.5   | 296.7  | 524.7  |
| 32.5° | 33.2   | 39.2   | 67.5   | 208.7  | 382.9  |
| 35°   | 19.9   | 24.7   | 44.0   | 133.9  | 258.7  |
| 37.5° | 10.9   | 13.3   | 25.3   | 80.2   | 162.8  |
| 40°   | 5.4    | 6.6    | 12.1   | 39.2   | 91.7   |
| 42.5° | 2.4    | 3.0    | 5.4    | 15.1   | 39.2   |
| 45°   | 1.2    | 1.8    | 3.0    | 6.0    | 12.7   |
| 47.5° | 0.6    | 1.2    | 1.2    | 2.4    | 3.6    |
| 50°   | 0.6    | 0.6    | 0.6    | 1.2    | 1.2    |
| 52.5° | 0.6    | 0.6    | 0.6    | 1.2    | 1.2    |
| 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)