

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: P1178886

Luminaire Tested: LDA2B109027R2060D010 2LBDC1MW

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1178886  
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: LDA2B109027R2060D010 2LBDC1MW  
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2700K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

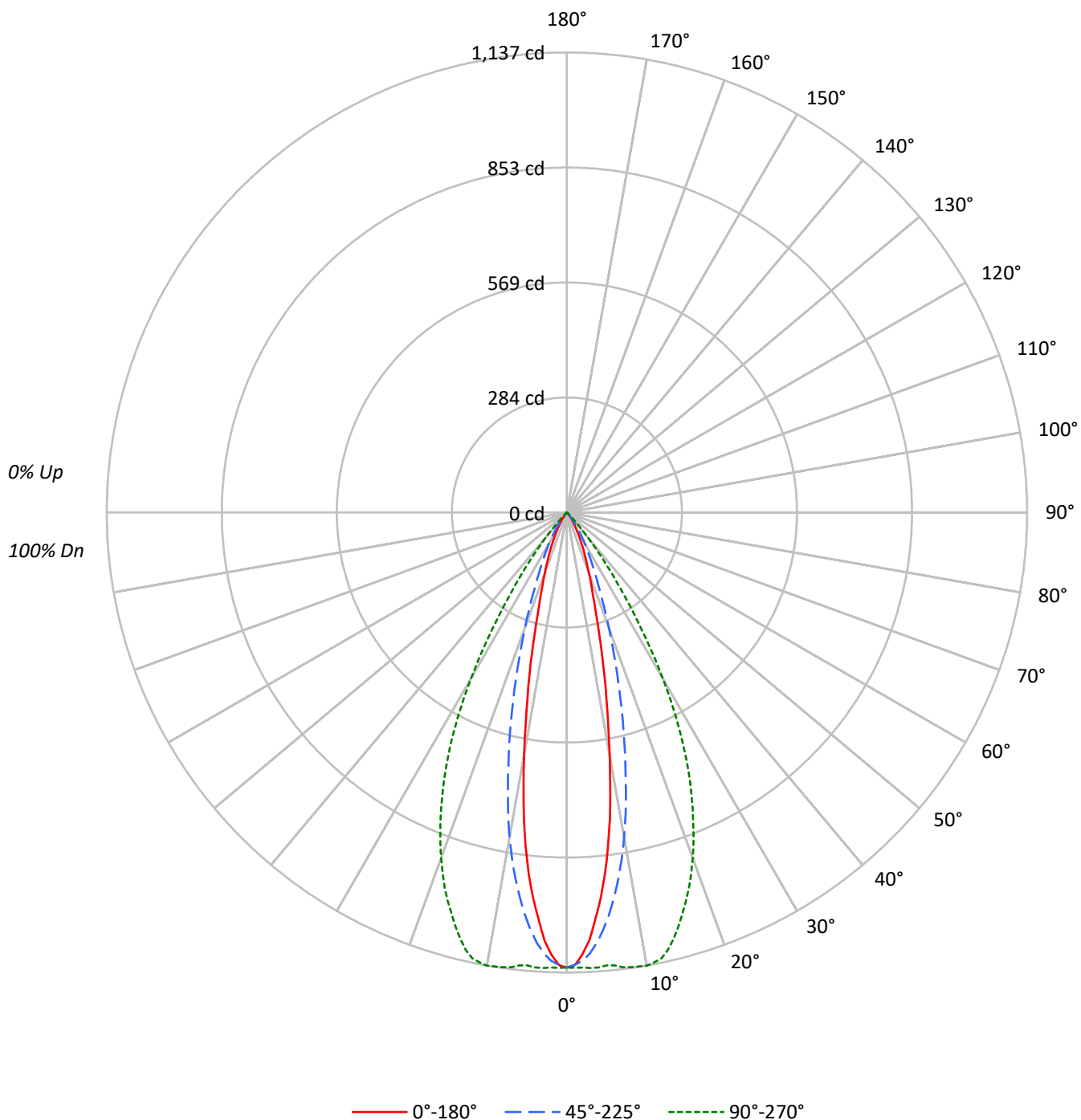
Lumens per Lamp: N/A  
Luminaire Lumens: 447.9 lumens  
Efficiency: N/A  
Efficacy: 44.8 lumens/watt  
Spacing Criteria (0/90/45): 0.36 / 0.9 / 0.52  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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  | 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  | 92  | 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   | 87  | 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  | 63  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 554933 | 554933 | 554933 |
| 5°  | 473852 | 512184 | 556508 |
| 10° | 305092 | 408343 | 569756 |
| 15° | 156499 | 272340 | 542178 |
| 20° | 83584  | 159135 | 476880 |
| 25° | 46598  | 87262  | 387914 |
| 30° | 24838  | 49677  | 270202 |
| 35° | 10841  | 23971  | 140874 |
| 40° | 3156   | 7020   | 53391  |
| 45° | 767    | 1884   | 7954   |
| 50° | 384    | 384    | 844    |
| 55° | 430    | 430    | 430    |
| 60° | 0      | 493    | 493    |
| 65° | 0      | 584    | 584    |
| 70° | 0      | 721    | 721    |
| 75° | 0      | 953    | 953    |
| 80° | 0      | 1421   | 1421   |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7954 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 92.8   | 20.7      |
| 10°-20°   | 169.0  | 37.7      |
| 20°-30°   | 128.1  | 28.6      |
| 30°-40°   | 51.2   | 11.4      |
| 40°-50°   | 5.2    | 1.2       |
| 50°-60°   | 0.5    | 0.1       |
| 60°-70°   | 0.4    | 0.1       |
| 70°-80°   | 0.4    | 0.1       |
| 80°-90°   | 0.1    | 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°    | 389.9  | 87.1      |
| 0°-40°    | 441.2  | 98.5      |
| 0°-60°    | 446.9  | 99.8      |
| 0°-90°    | 447.9  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 447.9  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1125 | 1125  | 1125 | 1125  | 1125 |      |
| 5°  | 957  | 978   | 1034 | 1094  | 1124 | 80   |
| 15° | 306  | 356   | 533  | 878   | 1062 | 88   |
| 25° | 86   | 100   | 160  | 458   | 713  | 41   |
| 35° | 18   | 22    | 40   | 121   | 234  | 12   |
| 45° | 1    | 2     | 3    | 6     | 11   | 1    |
| 55° | 0    | 0     | 0    | 0     | 0    | 0    |
| 65° | 0    | 0     | 0    | 0     | 0    | 0    |
| 75° | 0    | 0     | 0    | 0     | 0    | 0    |
| 85° | 0    | 0     | 0    | 0     | 0    | 0    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1124.8 | 1124.8 | 1124.8 | 1124.8 | 1124.8 |
| 1°    | 1118.8 | 1119.3 | 1118.2 | 1119.8 | 1125.3 |
| 2°    | 1093.7 | 1101.9 | 1108.9 | 1116.0 | 1125.3 |
| 3°    | 1058.8 | 1068.6 | 1090.9 | 1113.3 | 1127.5 |
| 4°    | 1007.5 | 1027.7 | 1065.9 | 1106.8 | 1127.5 |
| 5°    | 956.8  | 978.1  | 1034.2 | 1094.2 | 1123.7 |
| 6°    | 899.0  | 929.6  | 997.7  | 1082.2 | 1125.8 |
| 7°    | 833.6  | 871.2  | 957.4  | 1074.6 | 1132.4 |
| 8°    | 762.7  | 805.3  | 913.2  | 1058.2 | 1135.1 |
| 9°    | 684.2  | 736.0  | 866.3  | 1038.6 | 1136.2 |
| 10°   | 609.0  | 663.5  | 815.1  | 1016.3 | 1137.3 |
| 11°   | 533.8  | 590.5  | 759.5  | 994.4  | 1132.9 |
| 12°   | 470.0  | 523.9  | 701.1  | 971.5  | 1126.4 |
| 13°   | 411.1  | 463.4  | 643.3  | 944.3  | 1109.5 |
| 14°   | 356.6  | 407.8  | 587.7  | 912.7  | 1087.1 |
| 15°   | 306.4  | 355.5  | 533.2  | 877.8  | 1061.5 |
| 16°   | 261.2  | 306.9  | 480.9  | 839.1  | 1033.2 |
| 17°   | 228.4  | 265.0  | 431.8  | 798.2  | 1005.4 |
| 18°   | 202.8  | 230.1  | 385.5  | 757.8  | 975.9  |
| 19°   | 179.9  | 201.7  | 342.4  | 715.8  | 943.2  |
| 20°   | 159.2  | 178.8  | 303.1  | 672.2  | 908.3  |
| 21°   | 141.8  | 158.7  | 266.6  | 629.2  | 872.9  |
| 22°   | 126.5  | 141.2  | 233.9  | 586.6  | 834.2  |
| 23°   | 112.3  | 125.4  | 206.1  | 543.6  | 795.4  |
| 24°   | 98.7   | 112.9  | 181.6  | 499.9  | 755.1  |
| 25°   | 85.6   | 99.8   | 160.3  | 458.0  | 712.6  |
| 26°   | 75.2   | 88.3   | 142.3  | 417.1  | 668.4  |
| 27°   | 64.9   | 78.5   | 126.5  | 377.8  | 623.7  |
| 28°   | 56.7   | 69.2   | 112.3  | 340.2  | 575.2  |
| 29°   | 49.1   | 61.1   | 99.2   | 303.1  | 525.6  |
| 30°   | 43.6   | 52.9   | 87.2   | 268.2  | 474.3  |
| 32.5° | 30.0   | 35.4   | 61.1   | 188.6  | 346.2  |
| 35°   | 18.0   | 22.4   | 39.8   | 121.0  | 233.9  |
| 37.5° | 9.8    | 12.0   | 22.9   | 72.5   | 147.2  |
| 40°   | 4.9    | 6.0    | 10.9   | 35.4   | 82.9   |
| 42.5° | 2.2    | 2.7    | 4.9    | 13.6   | 35.4   |
| 45°   | 1.1    | 1.6    | 2.7    | 5.5    | 11.4   |
| 47.5° | 0.5    | 1.1    | 1.1    | 2.2    | 3.3    |
| 50°   | 0.5    | 0.5    | 0.5    | 1.1    | 1.1    |
| 52.5° | 0.5    | 0.5    | 0.5    | 1.1    | 1.1    |
| 55°   | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    |
| 57.5° | 0.0    | 0.5    | 0.5    | 0.5    | 0.5    |
| 60°   | 0.0    | 0.5    | 0.5    | 0.5    | 0.5    |
| 62.5° | 0.0    | 0.5    | 0.5    | 0.5    | 0.5    |
| 65°   | 0.0    | 0.5    | 0.5    | 0.5    | 0.5    |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 22.5° | 45° | 67.5° | 90° |
|-------|-----|-------|-----|-------|-----|
| 67.5° | 0.0 | 0.5   | 0.5 | 0.5   | 0.5 |
| 70°   | 0.0 | 0.5   | 0.5 | 0.5   | 0.5 |
| 72.5° | 0.0 | 0.5   | 0.5 | 0.5   | 0.5 |
| 75°   | 0.0 | 0.5   | 0.5 | 0.5   | 0.5 |
| 77.5° | 0.0 | 0.5   | 0.5 | 0.5   | 0.5 |
| 80°   | 0.0 | 0.0   | 0.5 | 0.5   | 0.5 |
| 82.5° | 0.0 | 0.0   | 0.5 | 0.5   | 0.5 |
| 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)