

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: P1179081

Luminaire Tested: LDA2B109727R2060D010 2LBDC1MW

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1179081  
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: LDA2B109727R2060D010 2LBDC1MW  
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 97 CRI LEDS AND 2700K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

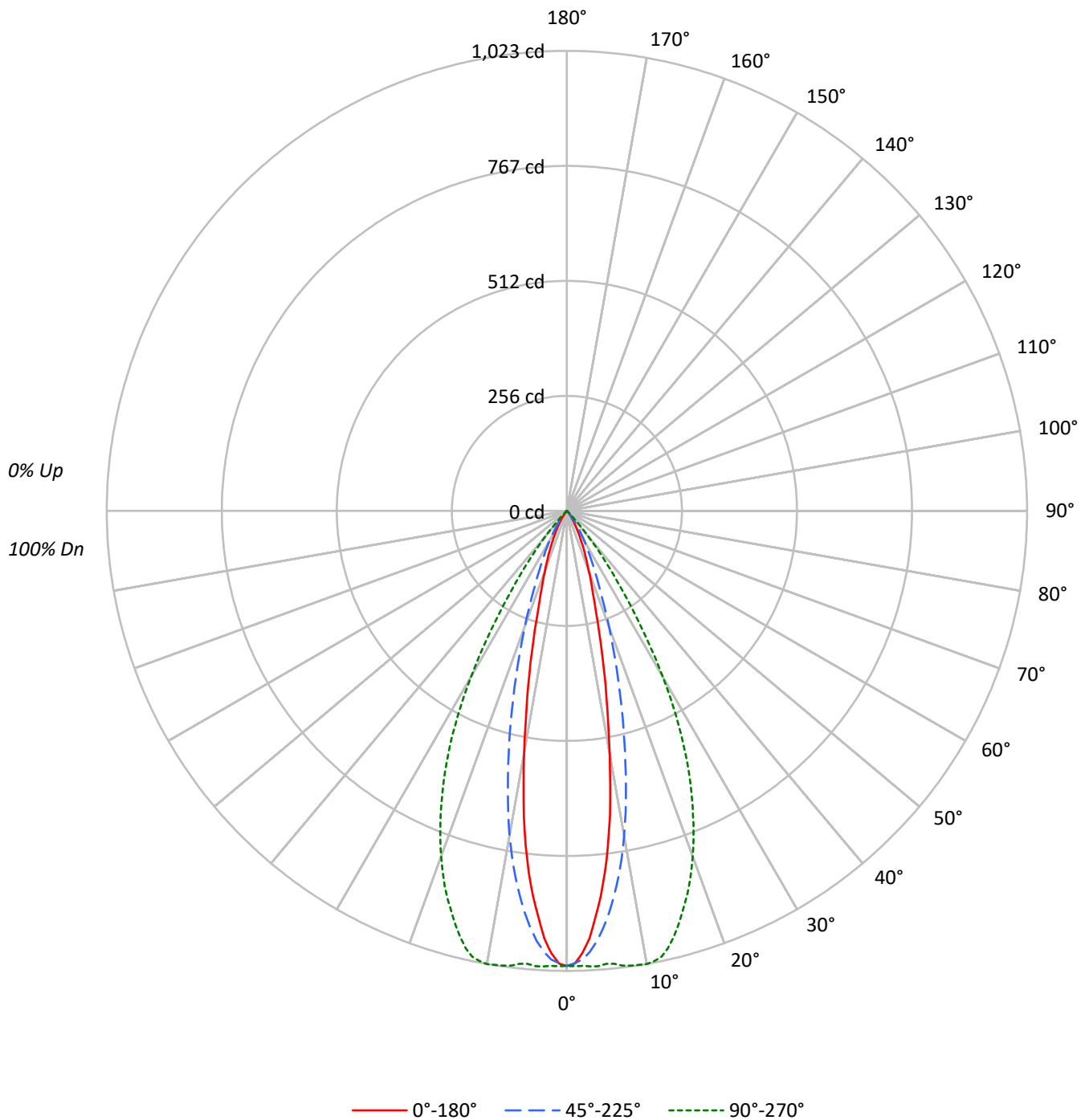
Lumens per Lamp: N/A  
Luminaire Lumens: 403.1 lumens  
Efficiency: N/A  
Efficacy: 40.3 lumens/watt  
Spacing Criteria (0/90/45): 0.36 / 0.9 / 0.52  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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  | 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  | 82  | 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  | 66  | 64  | 70  | 66  | 64  | 64  | 64  | 62  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 499282 | 499282 | 499282 |
| 5°  | 426358 | 460876 | 500694 |
| 10° | 274533 | 367413 | 512645 |
| 15° | 140818 | 245065 | 487832 |
| 20° | 75184  | 143227 | 429103 |
| 25° | 41916  | 78497  | 349047 |
| 30° | 22332  | 44720  | 243142 |
| 35° | 9757   | 21562  | 126720 |
| 40° | 2834   | 6312   | 48045  |
| 45° | 698    | 1744   | 7187   |
| 50° | 384    | 384    | 768    |
| 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: 7187 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 83.5   | 20.7      |
| 10°-20°   | 152.1  | 37.7      |
| 20°-30°   | 115.3  | 28.6      |
| 30°-40°   | 46.1   | 11.4      |
| 40°-50°   | 4.7    | 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°    | 350.8  | 87.0      |
| 0°-40°    | 397.0  | 98.5      |
| 0°-60°    | 402.1  | 99.8      |
| 0°-90°    | 403.1  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 403.1  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1012 | 1012  | 1012 | 1012  | 1012 |      |
| 5°  | 861  | 880   | 931  | 985   | 1011 | 72   |
| 15° | 276  | 320   | 480  | 790   | 955  | 79   |
| 25° | 77   | 90    | 144  | 412   | 641  | 36   |
| 35° | 16   | 20    | 36   | 109   | 210  | 11   |
| 45° | 1    | 2     | 2    | 5     | 10   | 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°    | 1012.0 | 1012.0 | 1012.0 | 1012.0 | 1012.0 |
| 1°    | 1006.6 | 1007.1 | 1006.1 | 1007.6 | 1012.5 |
| 2°    | 984.1  | 991.4  | 997.8  | 1004.2 | 1012.5 |
| 3°    | 952.7  | 961.5  | 981.6  | 1001.7 | 1014.5 |
| 4°    | 906.6  | 924.7  | 959.0  | 995.8  | 1014.5 |
| 5°    | 860.9  | 880.1  | 930.6  | 984.6  | 1011.0 |
| 6°    | 808.9  | 836.4  | 897.7  | 973.8  | 1013.0 |
| 7°    | 750.1  | 783.9  | 861.4  | 966.9  | 1018.9 |
| 8°    | 686.3  | 724.6  | 821.7  | 952.2  | 1021.3 |
| 9°    | 615.7  | 662.3  | 779.5  | 934.5  | 1022.3 |
| 10°   | 548.0  | 597.0  | 733.4  | 914.4  | 1023.3 |
| 11°   | 480.3  | 531.3  | 683.3  | 894.8  | 1019.4 |
| 12°   | 422.9  | 471.4  | 630.9  | 874.2  | 1013.5 |
| 13°   | 369.9  | 417.0  | 578.9  | 849.6  | 998.3  |
| 14°   | 320.8  | 366.9  | 528.8  | 821.2  | 978.2  |
| 15°   | 275.7  | 319.8  | 479.8  | 789.8  | 955.1  |
| 16°   | 235.0  | 276.2  | 432.7  | 755.0  | 929.6  |
| 17°   | 205.5  | 238.4  | 388.5  | 718.2  | 904.6  |
| 18°   | 182.5  | 207.0  | 346.8  | 681.9  | 878.1  |
| 19°   | 161.9  | 181.5  | 308.1  | 644.1  | 848.7  |
| 20°   | 143.2  | 160.9  | 272.8  | 604.9  | 817.3  |
| 21°   | 127.5  | 142.8  | 239.9  | 566.1  | 785.4  |
| 22°   | 113.8  | 127.1  | 210.4  | 527.8  | 750.6  |
| 23°   | 101.1  | 112.8  | 185.4  | 489.1  | 715.7  |
| 24°   | 88.8   | 101.5  | 163.4  | 449.8  | 679.4  |
| 25°   | 77.0   | 89.8   | 144.2  | 412.1  | 641.2  |
| 26°   | 67.7   | 79.5   | 128.0  | 375.3  | 601.4  |
| 27°   | 58.4   | 70.6   | 113.8  | 340.0  | 561.2  |
| 28°   | 51.0   | 62.3   | 101.1  | 306.1  | 517.5  |
| 29°   | 44.2   | 54.9   | 89.3   | 272.8  | 472.9  |
| 30°   | 39.2   | 47.6   | 78.5   | 241.4  | 426.8  |
| 32.5° | 27.0   | 31.9   | 54.9   | 169.7  | 311.5  |
| 35°   | 16.2   | 20.1   | 35.8   | 108.9  | 210.4  |
| 37.5° | 8.8    | 10.8   | 20.6   | 65.2   | 132.5  |
| 40°   | 4.4    | 5.4    | 9.8    | 31.9   | 74.6   |
| 42.5° | 2.0    | 2.5    | 4.4    | 12.3   | 31.9   |
| 45°   | 1.0    | 1.5    | 2.5    | 4.9    | 10.3   |
| 47.5° | 0.5    | 1.0    | 1.0    | 2.0    | 2.9    |
| 50°   | 0.5    | 0.5    | 0.5    | 1.0    | 1.0    |
| 52.5° | 0.5    | 0.5    | 0.5    | 1.0    | 1.0    |
| 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)