

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: P1179883

Luminaire Tested: LDA2B209027R2060D010 2LBD1GPH

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1179883  
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: LDA2B209027R2060D010 2LBD1GPH  
Description: 2000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2700K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

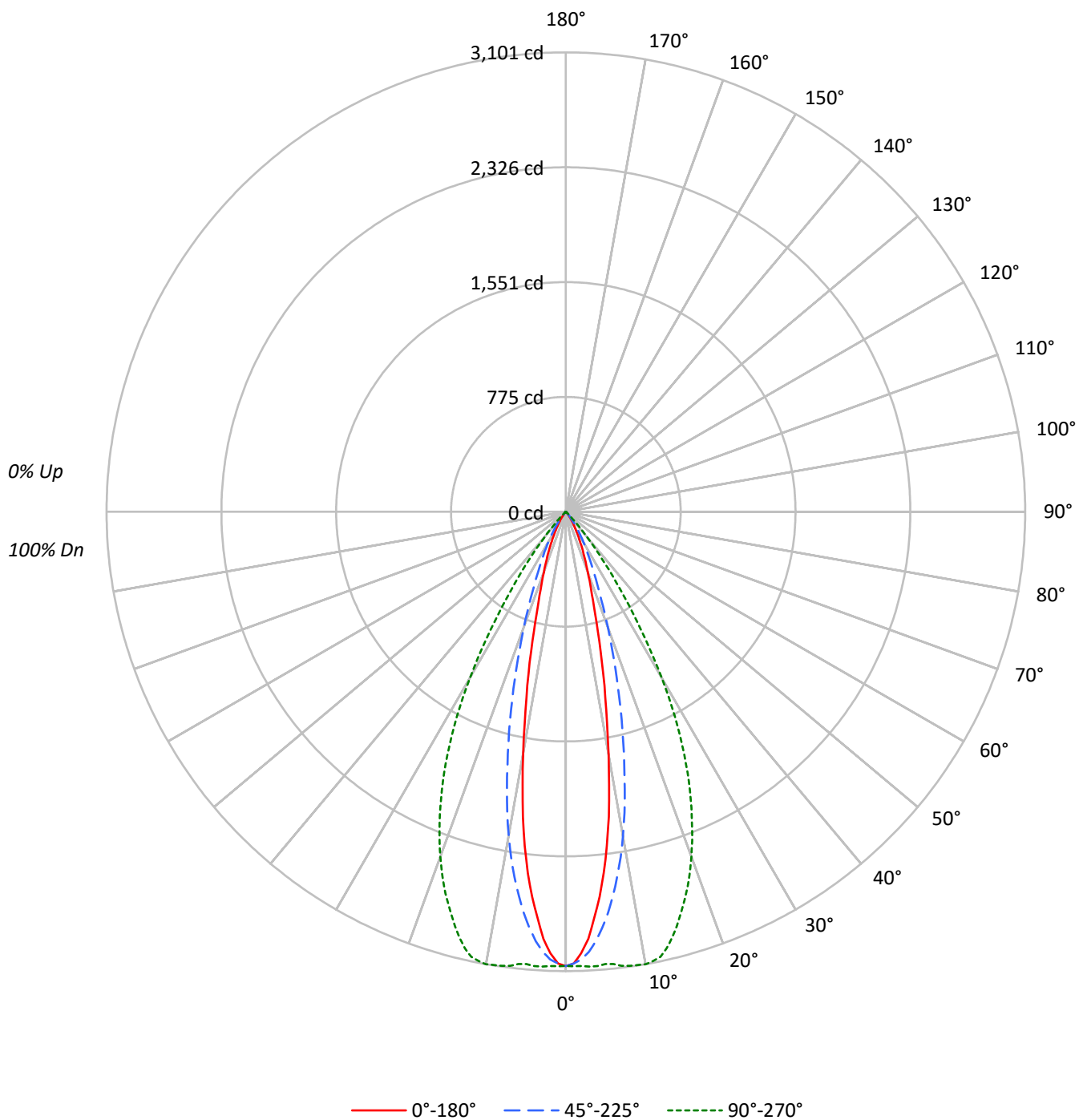
Lumens per Lamp: N/A  
Luminaire Lumens: 1221.7 lumens  
Efficiency: N/A  
Efficacy: 59.3 lumens/watt  
Spacing Criteria (0/90/45): 0.36 / 0.9 / 0.52  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 20.6  
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  |     |     | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  | 30  | 10  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 | 100 |
| 1   | 114 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 104 | 103 |  | 102 | 101 | 100 |  | 99  | 98  | 97  | 95  |
| 2   | 110 | 106 | 102 | 99  | 108 | 104 | 101 | 98  | 101 | 98  | 96  |  | 98  | 96  | 94  |  | 95  | 93  | 92  | 90  |
| 3   | 105 | 100 | 96  | 92  | 103 | 99  | 95  | 92  | 96  | 93  | 90  |  | 94  | 91  | 89  |  | 91  | 89  | 87  | 86  |
| 4   | 101 | 95  | 90  | 87  | 99  | 94  | 89  | 86  | 92  | 88  | 85  |  | 90  | 87  | 84  |  | 88  | 85  | 83  | 82  |
| 5   | 97  | 90  | 85  | 82  | 96  | 89  | 85  | 81  | 88  | 84  | 81  |  | 86  | 83  | 80  |  | 85  | 82  | 79  | 78  |
| 6   | 93  | 86  | 81  | 77  | 92  | 85  | 81  | 77  | 84  | 80  | 77  |  | 82  | 79  | 76  |  | 81  | 78  | 76  | 74  |
| 7   | 90  | 82  | 77  | 74  | 89  | 81  | 77  | 73  | 80  | 76  | 73  |  | 79  | 75  | 73  |  | 78  | 75  | 72  | 71  |
| 8   | 86  | 79  | 74  | 70  | 85  | 78  | 73  | 70  | 77  | 73  | 70  |  | 76  | 72  | 69  |  | 75  | 72  | 69  | 68  |
| 9   | 83  | 75  | 70  | 67  | 82  | 75  | 70  | 67  | 74  | 70  | 67  |  | 73  | 69  | 66  |  | 72  | 69  | 66  | 65  |
| 10  | 80  | 72  | 67  | 64  | 79  | 72  | 67  | 64  | 71  | 67  | 64  |  | 70  | 66  | 64  |  | 70  | 66  | 64  | 62  |

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

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 1513190 | 1513190 | 1513190 |
| 5°  | 1292197 | 1396743 | 1517484 |
| 10° | 831965  | 1113462 | 1553667 |
| 15° | 426745  | 742653  | 1478462 |
| 20° | 227913  | 433985  | 1300434 |
| 25° | 127055  | 237942  | 1057755 |
| 30° | 67736   | 135528  | 736831  |
| 35° | 29572   | 65348   | 384136  |
| 40° | 8630    | 19128   | 145553  |
| 45° | 2093    | 5163    | 21769   |
| 50° | 1151    | 1151    | 2303    |
| 55° | 1290    | 1290    | 1290    |
| 60° | 0       | 1480    | 1480    |
| 65° | 0       | 1751    | 1751    |
| 70° | 0       | 2164    | 2164    |
| 75° | 0       | 2859    | 2859    |
| 80° | 0       | 4262    | 4262    |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 21769 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 253.1  | 20.7      |
| 10°-20°   | 460.8  | 37.7      |
| 20°-30°   | 349.3  | 28.6      |
| 30°-40°   | 139.8  | 11.4      |
| 40°-50°   | 14.2   | 1.2       |
| 50°-60°   | 1.5    | 0.1       |
| 60°-70°   | 1.3    | 0.1       |
| 70°-80°   | 1.3    | 0.1       |
| 80°-90°   | 0.4    | 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       |
| 0°-30°    | 1063.3 | 87.0      |
| 0°-40°    | 1203.0 | 98.5      |
| 0°-60°    | 1218.7 | 99.8      |
| 0°-90°    | 1221.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1221.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 3067 | 3067  | 3067 | 3067  | 3067 |      |
| 5°  | 2609 | 2667  | 2820 | 2984  | 3064 | 218  |
| 15° | 836  | 969   | 1454 | 2394  | 2895 | 239  |
| 25° | 233  | 272   | 437  | 1249  | 1943 | 111  |
| 35° | 49   | 61    | 108  | 330   | 638  | 34   |
| 45° | 3    | 4     | 7    | 15    | 31   | 3    |
| 55° | 2    | 2     | 2    | 2     | 2    | 1    |
| 65° | 0    | 2     | 2    | 2     | 2    | 0    |
| 75° | 0    | 2     | 2    | 2     | 2    | 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°    | 3067.1 | 3067.1 | 3067.1 | 3067.1 | 3067.1 |
| 1°    | 3050.7 | 3052.2 | 3049.2 | 3053.7 | 3068.6 |
| 2°    | 2982.3 | 3004.6 | 3024.0 | 3043.3 | 3068.6 |
| 3°    | 2887.2 | 2913.9 | 2974.9 | 3035.9 | 3074.5 |
| 4°    | 2747.4 | 2802.4 | 2906.5 | 3018.0 | 3074.5 |
| 5°    | 2609.2 | 2667.2 | 2820.3 | 2983.8 | 3064.1 |
| 6°    | 2451.6 | 2534.8 | 2720.7 | 2951.1 | 3070.1 |
| 7°    | 2273.2 | 2375.8 | 2610.7 | 2930.3 | 3087.9 |
| 8°    | 2079.9 | 2195.9 | 2490.2 | 2885.7 | 3095.3 |
| 9°    | 1865.8 | 2007.1 | 2362.4 | 2832.2 | 3098.3 |
| 10°   | 1660.7 | 1809.3 | 2222.6 | 2771.2 | 3101.3 |
| 11°   | 1455.5 | 1610.1 | 2071.0 | 2711.8 | 3089.4 |
| 12°   | 1281.5 | 1428.7 | 1911.9 | 2649.3 | 3071.5 |
| 13°   | 1121.0 | 1263.7 | 1754.3 | 2575.0 | 3025.5 |
| 14°   | 972.3  | 1112.1 | 1602.7 | 2488.8 | 2964.5 |
| 15°   | 835.5  | 969.3  | 1454.0 | 2393.6 | 2894.6 |
| 16°   | 712.1  | 837.0  | 1311.3 | 2288.0 | 2817.3 |
| 17°   | 622.9  | 722.5  | 1177.5 | 2176.5 | 2741.5 |
| 18°   | 553.1  | 627.4  | 1051.1 | 2066.5 | 2661.2 |
| 19°   | 490.6  | 550.1  | 933.7  | 1952.0 | 2572.0 |
| 20°   | 434.1  | 487.6  | 826.6  | 1833.1 | 2476.9 |
| 21°   | 386.5  | 432.6  | 727.0  | 1715.7 | 2380.2 |
| 22°   | 344.9  | 385.1  | 637.8  | 1599.7 | 2274.7 |
| 23°   | 306.3  | 341.9  | 562.0  | 1482.2 | 2169.1 |
| 24°   | 269.1  | 307.7  | 495.1  | 1363.3 | 2059.1 |
| 25°   | 233.4  | 272.1  | 437.1  | 1248.8 | 1943.1 |
| 26°   | 205.2  | 240.8  | 388.0  | 1137.3 | 1822.7 |
| 27°   | 176.9  | 214.1  | 344.9  | 1030.3 | 1700.8 |
| 28°   | 154.6  | 188.8  | 306.3  | 927.7  | 1568.5 |
| 29°   | 133.8  | 166.5  | 270.6  | 826.6  | 1433.2 |
| 30°   | 118.9  | 144.2  | 237.9  | 731.5  | 1293.4 |
| 32.5° | 81.8   | 96.6   | 166.5  | 514.4  | 944.1  |
| 35°   | 49.1   | 61.0   | 108.5  | 330.0  | 637.8  |
| 37.5° | 26.8   | 32.7   | 62.4   | 197.7  | 401.4  |
| 40°   | 13.4   | 16.4   | 29.7   | 96.6   | 226.0  |
| 42.5° | 5.9    | 7.4    | 13.4   | 37.2   | 96.6   |
| 45°   | 3.0    | 4.5    | 7.4    | 14.9   | 31.2   |
| 47.5° | 1.5    | 3.0    | 3.0    | 5.9    | 8.9    |
| 50°   | 1.5    | 1.5    | 1.5    | 3.0    | 3.0    |
| 52.5° | 1.5    | 1.5    | 1.5    | 3.0    | 3.0    |
| 55°   | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    |
| 57.5° | 0.0    | 1.5    | 1.5    | 1.5    | 1.5    |
| 60°   | 0.0    | 1.5    | 1.5    | 1.5    | 1.5    |
| 62.5° | 0.0    | 1.5    | 1.5    | 1.5    | 1.5    |
| 65°   | 0.0    | 1.5    | 1.5    | 1.5    | 1.5    |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 22.5° | 45° | 67.5° | 90° |
|-------|-----|-------|-----|-------|-----|
| 67.5° | 0.0 | 1.5   | 1.5 | 1.5   | 1.5 |
| 70°   | 0.0 | 1.5   | 1.5 | 1.5   | 1.5 |
| 72.5° | 0.0 | 1.5   | 1.5 | 1.5   | 1.5 |
| 75°   | 0.0 | 1.5   | 1.5 | 1.5   | 1.5 |
| 77.5° | 0.0 | 1.5   | 1.5 | 1.5   | 1.5 |
| 80°   | 0.0 | 0.0   | 1.5 | 1.5   | 1.5 |
| 82.5° | 0.0 | 0.0   | 1.5 | 1.5   | 1.5 |
| 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)