

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: P1179923

Luminaire Tested: LDA2B209030R2060D010 2LBD1H

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1179923  
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: LDA2B209030R2060D010 2LBD1H  
Description: 2000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

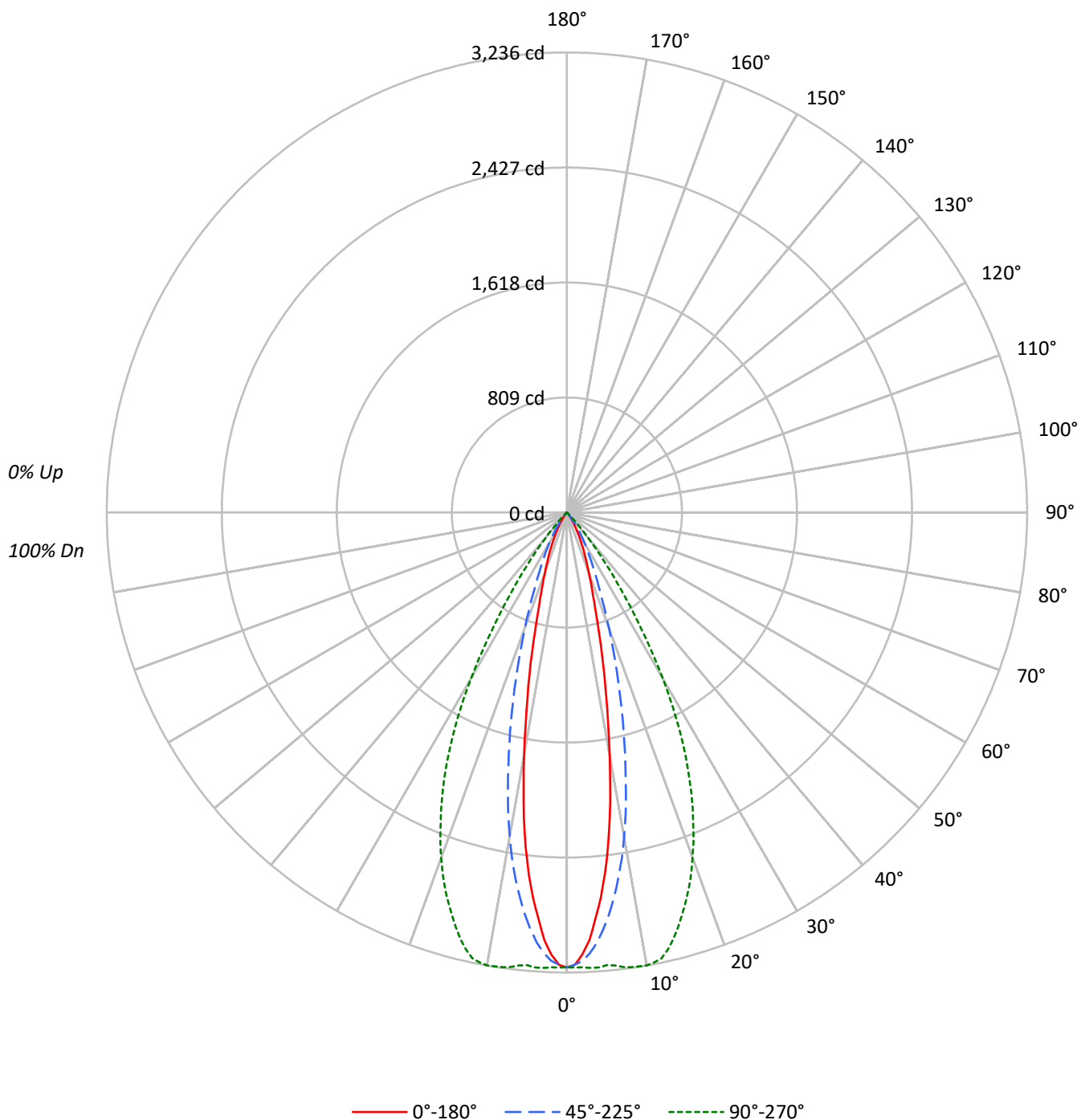
Lumens per Lamp: N/A  
Luminaire Lumens: 1274.7 lumens  
Efficiency: N/A  
Efficacy: 61.9 lumens/watt  
Spacing Criteria (0/90/45): 0.36 / 0.9 / 0.52  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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  |
| 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°  | 1578708 | 1578708 | 1578708 |
| 5°  | 1348110 | 1457213 | 1583204 |
| 10° | 867985  | 1161706 | 1620897 |
| 15° | 445234  | 774832  | 1542461 |
| 20° | 237784  | 452781  | 1356716 |
| 25° | 132553  | 248230  | 1103590 |
| 30° | 70698   | 141396  | 768733  |
| 35° | 30837   | 68178   | 400759  |
| 40° | 9017    | 19965   | 151864  |
| 45° | 2163    | 5442    | 22746   |
| 50° | 1228    | 1228    | 2379    |
| 55° | 1376    | 1376    | 1376    |
| 60° | 0       | 1579    | 1579    |
| 65° | 0       | 1868    | 1868    |
| 70° | 0       | 2308    | 2308    |
| 75° | 0       | 3050    | 3050    |
| 80° | 0       | 4546    | 4546    |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 22746 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 264.1  | 20.7      |
| 10°-20°   | 480.8  | 37.7      |
| 20°-30°   | 364.5  | 28.6      |
| 30°-40°   | 145.8  | 11.4      |
| 40°-50°   | 14.8   | 1.2       |
| 50°-60°   | 1.5    | 0.1       |
| 60°-70°   | 1.4    | 0.1       |
| 70°-80°   | 1.4    | 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°    | 1109.3 | 87.0      |
| 0°-40°    | 1255.1 | 98.5      |
| 0°-60°    | 1271.5 | 99.7      |
| 0°-90°    | 1274.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1274.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 3200 | 3200  | 3200 | 3200  | 3200 |      |
| 5°  | 2722 | 2783  | 2942 | 3113  | 3197 | 228  |
| 15° | 872  | 1011  | 1517 | 2497  | 3020 | 249  |
| 25° | 244  | 284   | 456  | 1303  | 2027 | 115  |
| 35° | 51   | 64    | 113  | 344   | 665  | 35   |
| 45° | 3    | 5     | 8    | 16    | 33   | 4    |
| 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°    | 3199.9 | 3199.9 | 3199.9 | 3199.9 | 3199.9 |
| 1°    | 3182.8 | 3184.4 | 3181.3 | 3185.9 | 3201.4 |
| 2°    | 3111.5 | 3134.7 | 3154.9 | 3175.1 | 3201.4 |
| 3°    | 3012.2 | 3040.1 | 3103.7 | 3167.3 | 3207.6 |
| 4°    | 2866.4 | 2923.8 | 3032.4 | 3148.7 | 3207.6 |
| 5°    | 2722.1 | 2782.6 | 2942.4 | 3113.0 | 3196.8 |
| 6°    | 2557.7 | 2644.6 | 2838.5 | 3078.9 | 3203.0 |
| 7°    | 2371.6 | 2478.6 | 2723.7 | 3057.2 | 3221.6 |
| 8°    | 2170.0 | 2290.9 | 2598.1 | 3010.6 | 3229.3 |
| 9°    | 1946.6 | 2094.0 | 2464.7 | 2954.8 | 3232.4 |
| 10°   | 1732.6 | 1887.7 | 2318.9 | 2891.2 | 3235.5 |
| 11°   | 1518.5 | 1679.8 | 2160.7 | 2829.2 | 3223.1 |
| 12°   | 1337.0 | 1490.6 | 1994.7 | 2764.0 | 3204.5 |
| 13°   | 1169.5 | 1318.4 | 1830.3 | 2686.5 | 3156.4 |
| 14°   | 1014.4 | 1160.2 | 1672.1 | 2596.5 | 3092.8 |
| 15°   | 871.7  | 1011.3 | 1517.0 | 2497.2 | 3019.9 |
| 16°   | 743.0  | 873.3  | 1368.1 | 2387.1 | 2939.3 |
| 17°   | 649.9  | 753.8  | 1228.5 | 2270.8 | 2860.2 |
| 18°   | 577.0  | 654.6  | 1096.6 | 2156.0 | 2776.4 |
| 19°   | 511.9  | 573.9  | 974.1  | 2036.6 | 2683.4 |
| 20°   | 452.9  | 508.8  | 862.4  | 1912.5 | 2584.1 |
| 21°   | 403.3  | 451.4  | 758.5  | 1789.9 | 2483.3 |
| 22°   | 359.8  | 401.7  | 665.4  | 1669.0 | 2373.1 |
| 23°   | 319.5  | 356.7  | 586.3  | 1546.4 | 2263.0 |
| 24°   | 280.7  | 321.1  | 516.5  | 1422.3 | 2148.2 |
| 25°   | 243.5  | 283.8  | 456.0  | 1302.9 | 2027.3 |
| 26°   | 214.0  | 251.3  | 404.8  | 1186.6 | 1901.6 |
| 27°   | 184.6  | 223.4  | 359.8  | 1074.9 | 1774.4 |
| 28°   | 161.3  | 197.0  | 319.5  | 967.9  | 1636.4 |
| 29°   | 139.6  | 173.7  | 282.3  | 862.4  | 1495.2 |
| 30°   | 124.1  | 150.5  | 248.2  | 763.1  | 1349.4 |
| 32.5° | 85.3   | 100.8  | 173.7  | 536.7  | 984.9  |
| 35°   | 51.2   | 63.6   | 113.2  | 344.3  | 665.4  |
| 37.5° | 27.9   | 34.1   | 65.1   | 206.3  | 418.8  |
| 40°   | 14.0   | 17.1   | 31.0   | 100.8  | 235.8  |
| 42.5° | 6.2    | 7.8    | 14.0   | 38.8   | 100.8  |
| 45°   | 3.1    | 4.7    | 7.8    | 15.5   | 32.6   |
| 47.5° | 1.6    | 3.1    | 3.1    | 6.2    | 9.3    |
| 50°   | 1.6    | 1.6    | 1.6    | 3.1    | 3.1    |
| 52.5° | 1.6    | 1.6    | 1.6    | 3.1    | 3.1    |
| 55°   | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    |
| 57.5° | 0.0    | 1.6    | 1.6    | 1.6    | 1.6    |
| 60°   | 0.0    | 1.6    | 1.6    | 1.6    | 1.6    |
| 62.5° | 0.0    | 1.6    | 1.6    | 1.6    | 1.6    |
| 65°   | 0.0    | 1.6    | 1.6    | 1.6    | 1.6    |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 22.5° | 45° | 67.5° | 90° |
|-------|-----|-------|-----|-------|-----|
| 67.5° | 0.0 | 1.6   | 1.6 | 1.6   | 1.6 |
| 70°   | 0.0 | 1.6   | 1.6 | 1.6   | 1.6 |
| 72.5° | 0.0 | 1.6   | 1.6 | 1.6   | 1.6 |
| 75°   | 0.0 | 1.6   | 1.6 | 1.6   | 1.6 |
| 77.5° | 0.0 | 1.6   | 1.6 | 1.6   | 1.6 |
| 80°   | 0.0 | 0.0   | 1.6 | 1.6   | 1.6 |
| 82.5° | 0.0 | 0.0   | 1.6 | 1.6   | 1.6 |
| 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)