

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: P1179832

Luminaire Tested: LDA2B209024R2050D010 2LBD1H

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1179832  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2206-683-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/17/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDA2B209024R2050D010 2LBD1H  
Description: 2000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2400K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

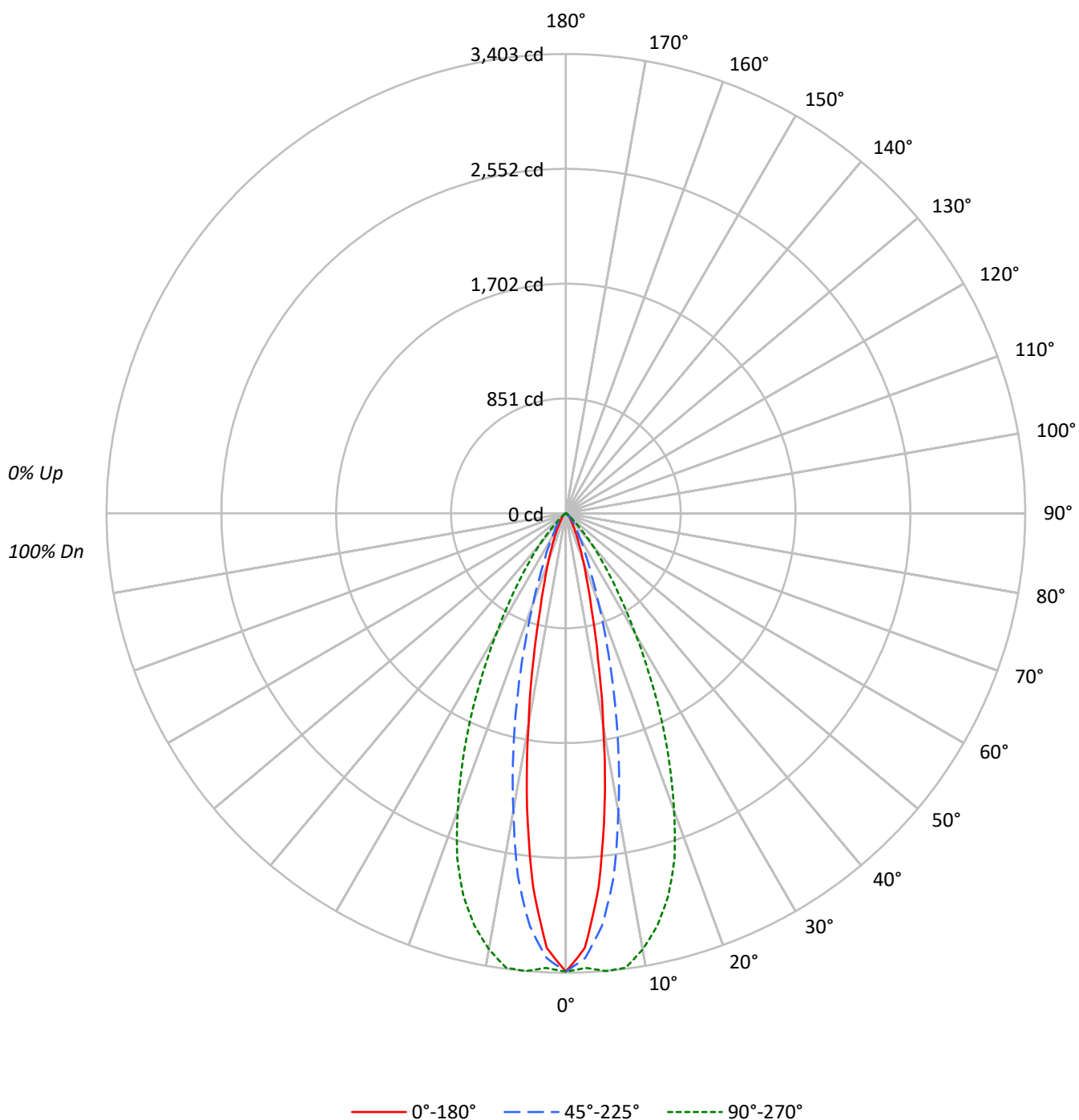
Lumens per Lamp: N/A  
Luminaire Lumens: 1220.1 lumens  
Efficiency: N/A  
Efficacy: 59.2 lumens/watt  
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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 | 109 | 107 | 112 | 109 | 107 | 106 | 105 | 104 | 102 | 102 | 100 | 99  | 98  | 97  | 96  | 96  | 96  | 95  |
| 2   | 109 | 105 | 101 | 98  | 107 | 103 | 100 | 97  | 100 | 97  | 95  | 97  | 95  | 93  | 94  | 93  | 91  | 91  | 91  | 90  |
| 3   | 105 | 99  | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 92  | 89  | 93  | 90  | 88  | 90  | 88  | 86  | 86  | 86  | 85  |
| 4   | 100 | 94  | 89  | 85  | 99  | 93  | 88  | 85  | 91  | 87  | 84  | 89  | 85  | 83  | 87  | 84  | 82  | 82  | 82  | 80  |
| 5   | 96  | 89  | 84  | 80  | 95  | 88  | 83  | 80  | 86  | 82  | 79  | 85  | 81  | 78  | 83  | 80  | 78  | 78  | 78  | 76  |
| 6   | 92  | 85  | 80  | 76  | 91  | 84  | 79  | 76  | 83  | 78  | 75  | 81  | 77  | 75  | 80  | 77  | 74  | 74  | 74  | 73  |
| 7   | 89  | 81  | 76  | 72  | 88  | 80  | 75  | 72  | 79  | 75  | 71  | 78  | 74  | 71  | 77  | 73  | 71  | 71  | 71  | 70  |
| 8   | 85  | 77  | 72  | 69  | 84  | 77  | 72  | 69  | 76  | 71  | 68  | 75  | 71  | 68  | 74  | 70  | 68  | 68  | 68  | 67  |
| 9   | 82  | 74  | 69  | 66  | 81  | 74  | 69  | 66  | 73  | 68  | 65  | 72  | 68  | 65  | 71  | 68  | 65  | 65  | 65  | 64  |
| 10  | 79  | 71  | 66  | 63  | 79  | 71  | 66  | 63  | 70  | 66  | 63  | 69  | 65  | 62  | 69  | 65  | 62  | 62  | 62  | 61  |

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

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 1674667 | 1674667 | 1674667 |
| 5°  | 1376834 | 1519119 | 1685274 |
| 10° | 799202  | 1122580 | 1643090 |
| 15° | 372348  | 699136  | 1497310 |
| 20° | 196202  | 368620  | 1230710 |
| 25° | 108655  | 199564  | 907728  |
| 30° | 63691   | 116899  | 587061  |
| 35° | 40895   | 78417   | 347819  |
| 40° | 31880   | 52876   | 193276  |
| 45° | 27630   | 31607   | 85889   |
| 50° | 25022   | 21721   | 31469   |
| 55° | 17031   | 15827   | 14623   |
| 60° | 12531   | 11150   | 11150   |
| 65° | 9923    | 8288    | 9923    |
| 70° | 8222    | 8222    | 8222    |
| 75° | 8006    | 8006    | 8006    |
| 80° | 7955    | 7955    | 7955    |
| 85° | 7925    | 7925    | 7925    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 85889 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 270.3  | 22.2      |
| 10°-20°   | 442.5  | 36.3      |
| 20°-30°   | 295.2  | 24.2      |
| 30°-40°   | 133.1  | 10.9      |
| 40°-50°   | 48.7   | 4.0       |
| 50°-60°   | 17.0   | 1.4       |
| 60°-70°   | 8.0    | 0.7       |
| 70°-80°   | 4.2    | 0.3       |
| 80°-90°   | 1.1    | 0.1       |
| 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°    | 1008.0 | 82.6      |
| 0°-40°    | 1141.1 | 93.5      |
| 0°-60°    | 1206.8 | 98.9      |
| 0°-90°    | 1220.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1220.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 3394 | 3394  | 3394 | 3394  | 3394 |      |
| 5°  | 2780 | 2866  | 3067 | 3291  | 3403 | 227  |
| 15° | 729  | 856   | 1369 | 2313  | 2932 | 218  |
| 25° | 200  | 232   | 367  | 999   | 1668 | 96   |
| 35° | 68   | 76    | 130  | 282   | 578  | 45   |
| 45° | 40   | 40    | 45   | 71    | 123  | 31   |
| 55° | 20   | 18    | 18   | 16    | 17   | 19   |
| 65° | 8    | 8     | 7    | 7     | 8    | 9    |
| 75° | 4    | 4     | 4    | 4     | 4    | 4    |
| 85° | 1    | 1     | 1    | 1     | 1    | 1    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 3394.4 | 3394.4 | 3394.4 | 3394.4 | 3394.4 |
| 2.5°  | 3223.1 | 3257.1 | 3296.7 | 3337.8 | 3370.3 |
| 5°    | 2780.1 | 2866.4 | 3067.4 | 3291.1 | 3402.9 |
| 7.5°  | 2198.3 | 2325.7 | 2716.4 | 3158.0 | 3394.4 |
| 10°   | 1595.3 | 1758.1 | 2240.8 | 2927.3 | 3279.8 |
| 12.5° | 1097.0 | 1249.9 | 1797.7 | 2635.7 | 3128.3 |
| 15°   | 729.0  | 856.4  | 1368.8 | 2313.0 | 2931.5 |
| 17.5° | 513.8  | 600.2  | 995.1  | 1960.5 | 2678.2 |
| 20°   | 373.7  | 431.7  | 702.1  | 1615.1 | 2344.1 |
| 22.5° | 271.8  | 315.7  | 499.7  | 1291.0 | 2005.8 |
| 25°   | 199.6  | 232.1  | 366.6  | 999.4  | 1667.5 |
| 27.5° | 148.6  | 174.1  | 274.6  | 758.7  | 1329.2 |
| 30°   | 111.8  | 133.1  | 205.2  | 559.1  | 1030.5 |
| 32.5° | 86.3   | 100.5  | 157.1  | 399.2  | 779.9  |
| 35°   | 67.9   | 76.4   | 130.2  | 281.7  | 577.5  |
| 37.5° | 56.6   | 62.3   | 107.6  | 196.8  | 423.2  |
| 40°   | 49.5   | 53.8   | 82.1   | 140.1  | 300.1  |
| 42.5° | 43.9   | 46.7   | 59.5   | 100.5  | 195.3  |
| 45°   | 39.6   | 39.6   | 45.3   | 70.8   | 123.1  |
| 47.5° | 36.8   | 32.6   | 35.4   | 49.5   | 72.2   |
| 50°   | 32.6   | 26.9   | 28.3   | 34.0   | 41.0   |
| 52.5° | 25.5   | 22.6   | 22.6   | 22.6   | 24.1   |
| 55°   | 19.8   | 18.4   | 18.4   | 15.6   | 17.0   |
| 57.5° | 15.6   | 15.6   | 14.2   | 12.7   | 14.2   |
| 60°   | 12.7   | 12.7   | 11.3   | 9.9    | 11.3   |
| 62.5° | 9.9    | 9.9    | 8.5    | 8.5    | 9.9    |
| 65°   | 8.5    | 8.5    | 7.1    | 7.1    | 8.5    |
| 67.5° | 7.1    | 7.1    | 7.1    | 5.7    | 7.1    |
| 70°   | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    |
| 72.5° | 4.2    | 4.2    | 5.7    | 4.2    | 4.2    |
| 75°   | 4.2    | 4.2    | 4.2    | 4.2    | 4.2    |
| 77.5° | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    |
| 80°   | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    |
| 82.5° | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    |
| 85°   | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    |
| 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)