

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: P1179842

Luminaire Tested: LDA2B209024R2050D010 2LBDC1MW

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1179842  
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 2LBDC1MW  
Description: 2000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2400K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

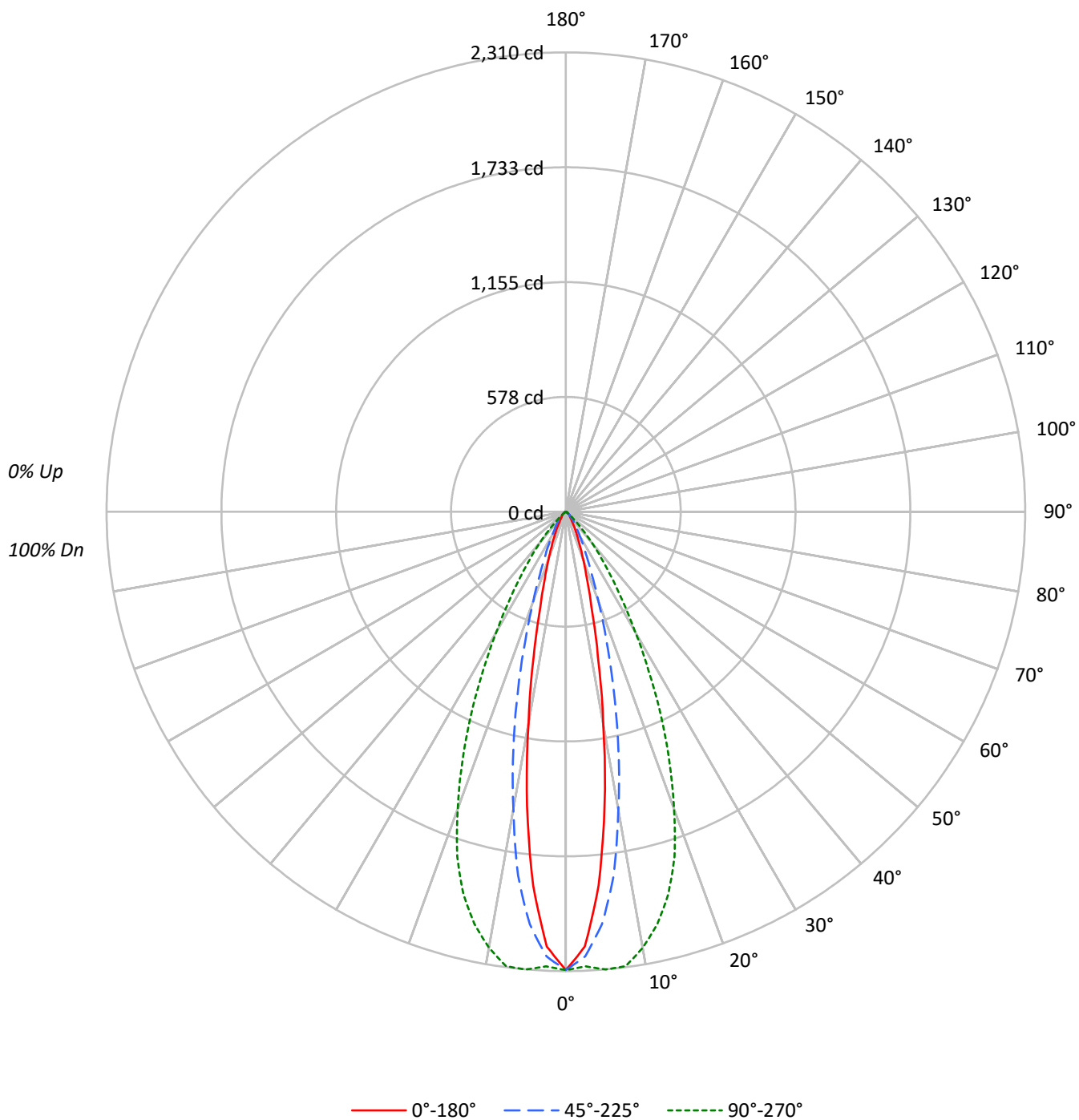
Lumens per Lamp: N/A  
Luminaire Lumens: 828.3 lumens  
Efficiency: N/A  
Efficacy: 40.2 lumens/watt  
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 114 | 112 | 109 | 107 | 112 | 109 | 107 | 106 | 105 | 104 | 102 |  | 102 | 100 | 99  |  | 98  |
| 2   | 109 | 105 | 101 | 98  | 107 | 103 | 100 | 97  | 100 | 97  | 95  |  | 97  | 95  | 93  |  | 94  |
| 3   | 105 | 99  | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 92  | 89  |  | 93  | 90  | 88  |  | 90  |
| 4   | 100 | 94  | 89  | 85  | 99  | 93  | 88  | 85  | 91  | 87  | 84  |  | 89  | 85  | 83  |  | 87  |
| 5   | 96  | 89  | 84  | 80  | 95  | 88  | 83  | 80  | 86  | 82  | 79  |  | 85  | 81  | 78  |  | 83  |
| 6   | 92  | 85  | 80  | 76  | 91  | 84  | 79  | 76  | 83  | 78  | 75  |  | 81  | 77  | 75  |  | 80  |
| 7   | 89  | 81  | 76  | 72  | 88  | 80  | 75  | 72  | 79  | 75  | 71  |  | 78  | 74  | 71  |  | 77  |
| 8   | 85  | 77  | 72  | 69  | 84  | 77  | 72  | 69  | 76  | 71  | 68  |  | 75  | 71  | 68  |  | 74  |
| 9   | 82  | 74  | 69  | 66  | 81  | 74  | 69  | 66  | 73  | 68  | 65  |  | 72  | 68  | 65  |  | 71  |
| 10  | 79  | 71  | 66  | 63  | 79  | 71  | 66  | 63  | 70  | 66  | 63  |  | 69  | 65  | 62  |  | 69  |

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

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 1136854 | 1136854 | 1136854 |
| 5°  | 934629  | 1031251 | 1144019 |
| 10° | 542553  | 762030  | 1115366 |
| 15° | 252778  | 474603  | 1016475 |
| 20° | 133199  | 250227  | 835472  |
| 25° | 73761   | 135492  | 616221  |
| 30° | 43239   | 79357   | 398495  |
| 35° | 27765   | 53242   | 236155  |
| 40° | 21640   | 35873   | 131191  |
| 45° | 18769   | 21420   | 58329   |
| 50° | 16963   | 14737   | 21414   |
| 55° | 11612   | 10752   | 9892    |
| 60° | 8486    | 7598    | 7598    |
| 65° | 6771    | 5603    | 6771    |
| 70° | 5481    | 5481    | 5481    |
| 75° | 5528    | 5528    | 5528    |
| 80° | 5398    | 5398    | 5398    |
| 85° | 5661    | 5661    | 5661    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 58329 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 183.5  | 22.2      |
| 10°-20°   | 300.4  | 36.3      |
| 20°-30°   | 200.4  | 24.2      |
| 30°-40°   | 90.3   | 10.9      |
| 40°-50°   | 33.1   | 4.0       |
| 50°-60°   | 11.6   | 1.4       |
| 60°-70°   | 5.4    | 0.7       |
| 70°-80°   | 2.8    | 0.3       |
| 80°-90°   | 0.8    | 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°    | 684.3  | 82.6      |
| 0°-40°    | 774.6  | 93.5      |
| 0°-60°    | 819.2  | 98.9      |
| 0°-90°    | 828.3  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 828.3  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2304 | 2304  | 2304 | 2304  | 2304 |      |
| 5°  | 1887 | 1946  | 2082 | 2234  | 2310 | 154  |
| 15° | 495  | 581   | 929  | 1570  | 1990 | 148  |
| 25° | 136  | 158   | 249  | 678   | 1132 | 65   |
| 35° | 46   | 52    | 88   | 191   | 392  | 31   |
| 45° | 27   | 27    | 31   | 48    | 84   | 21   |
| 55° | 14   | 12    | 12   | 11    | 12   | 13   |
| 65° | 6    | 6     | 5    | 5     | 6    | 6    |
| 75° | 3    | 3     | 3    | 3     | 3    | 3    |
| 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°    | 2304.3 | 2304.3 | 2304.3 | 2304.3 | 2304.3 |
| 2.5°  | 2188.0 | 2211.1 | 2238.0 | 2265.8 | 2287.9 |
| 5°    | 1887.2 | 1945.9 | 2082.3 | 2234.1 | 2310.0 |
| 7.5°  | 1492.3 | 1578.8 | 1844.0 | 2143.8 | 2304.3 |
| 10°   | 1083.0 | 1193.5 | 1521.1 | 1987.2 | 2226.4 |
| 12.5° | 744.7  | 848.5  | 1220.4 | 1789.2 | 2123.6 |
| 15°   | 494.9  | 581.4  | 929.2  | 1570.1 | 1990.1 |
| 17.5° | 348.8  | 407.4  | 675.5  | 1330.9 | 1818.1 |
| 20°   | 253.7  | 293.1  | 476.6  | 1096.4 | 1591.3 |
| 22.5° | 184.5  | 214.3  | 339.2  | 876.4  | 1361.6 |
| 25°   | 135.5  | 157.6  | 248.9  | 678.4  | 1132.0 |
| 27.5° | 100.9  | 118.2  | 186.4  | 515.1  | 902.3  |
| 30°   | 75.9   | 90.3   | 139.3  | 379.6  | 699.5  |
| 32.5° | 58.6   | 68.2   | 106.7  | 271.0  | 529.5  |
| 35°   | 46.1   | 51.9   | 88.4   | 191.2  | 392.1  |
| 37.5° | 38.4   | 42.3   | 73.0   | 133.6  | 287.3  |
| 40°   | 33.6   | 36.5   | 55.7   | 95.1   | 203.7  |
| 42.5° | 29.8   | 31.7   | 40.4   | 68.2   | 132.6  |
| 45°   | 26.9   | 26.9   | 30.7   | 48.0   | 83.6   |
| 47.5° | 25.0   | 22.1   | 24.0   | 33.6   | 49.0   |
| 50°   | 22.1   | 18.3   | 19.2   | 23.1   | 27.9   |
| 52.5° | 17.3   | 15.4   | 15.4   | 15.4   | 16.3   |
| 55°   | 13.5   | 12.5   | 12.5   | 10.6   | 11.5   |
| 57.5° | 10.6   | 10.6   | 9.6    | 8.6    | 9.6    |
| 60°   | 8.6    | 8.6    | 7.7    | 6.7    | 7.7    |
| 62.5° | 6.7    | 6.7    | 5.8    | 5.8    | 6.7    |
| 65°   | 5.8    | 5.8    | 4.8    | 4.8    | 5.8    |
| 67.5° | 4.8    | 4.8    | 4.8    | 3.8    | 4.8    |
| 70°   | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    |
| 72.5° | 2.9    | 2.9    | 3.8    | 2.9    | 2.9    |
| 75°   | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    |
| 77.5° | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    |
| 80°   | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    |
| 82.5° | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| 85°   | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| 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)