

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: P1180068

Luminaire Tested: LDA2B209727R2050D010 2LBD1MB

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1180068  
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: LDA2B209727R2050D010 2LBD1MB  
Description: 2000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 97 CRI LEDS AND 2700K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

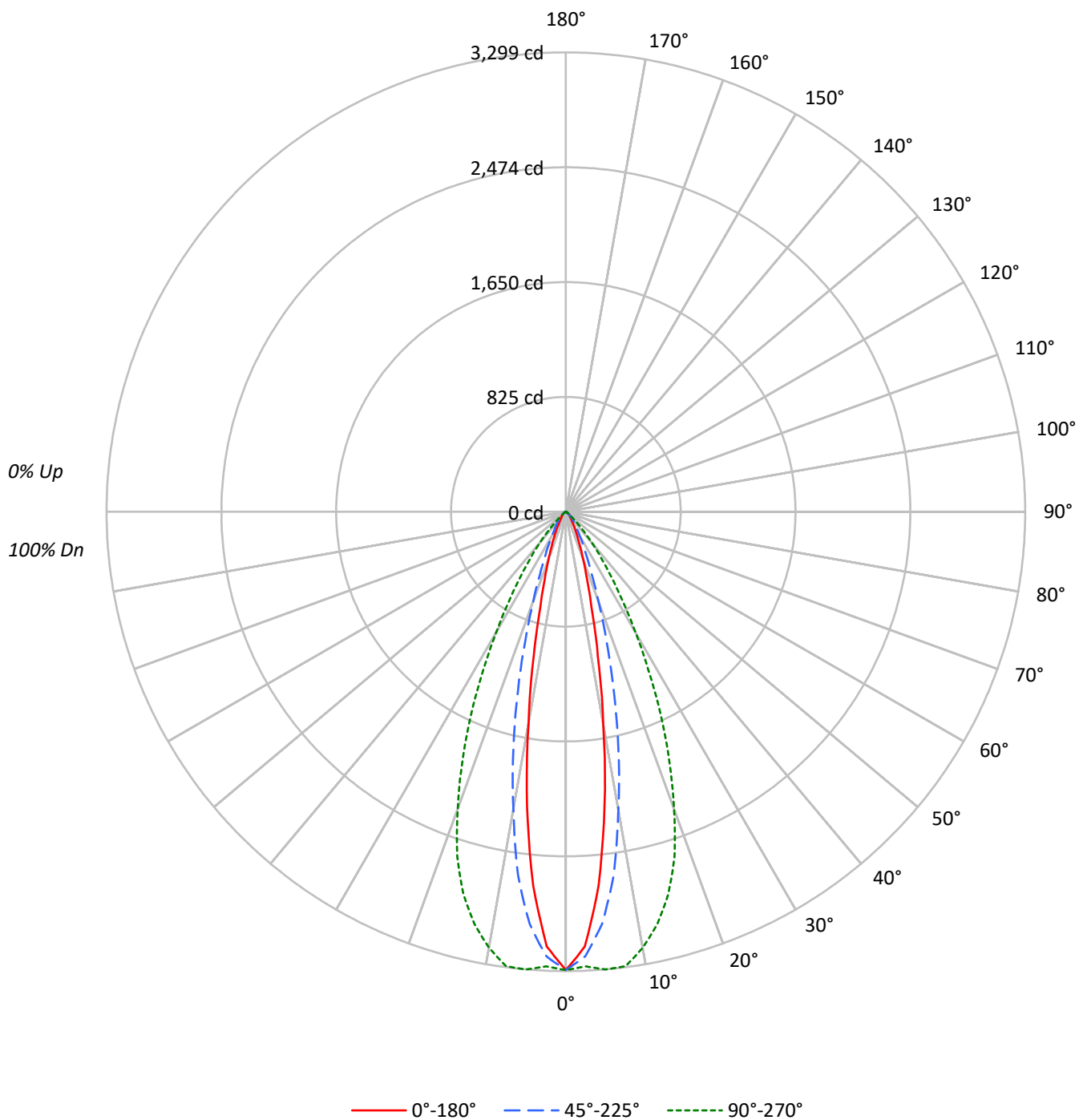
Lumens per Lamp: N/A  
Luminaire Lumens: 1182.9 lumens  
Efficiency: N/A  
Efficacy: 57.4 lumens/watt  
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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°  | 1623604 | 1623604 | 1623604 |
| 5°  | 1334837 | 1472813 | 1633867 |
| 10° | 774804  | 1088313 | 1592943 |
| 15° | 361009  | 677837  | 1451647 |
| 20° | 190216  | 357384  | 1193171 |
| 25° | 105335  | 193467  | 880020  |
| 30° | 61754   | 113367  | 569172  |
| 35° | 39690   | 76068   | 337219  |
| 40° | 30914   | 51265   | 187351  |
| 45° | 26792   | 30630   | 83308   |
| 50° | 24254   | 21030   | 30548   |
| 55° | 16515   | 15311   | 14192   |
| 60° | 12235   | 10854   | 10854   |
| 65° | 9573    | 8055    | 9573    |
| 70° | 7934    | 7934    | 7934    |
| 75° | 7815    | 7815    | 7815    |
| 80° | 7671    | 7671    | 7671    |
| 85° | 7925    | 7925    | 7925    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 83308 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 262.0  | 22.2      |
| 10°-20°   | 429.0  | 36.3      |
| 20°-30°   | 286.2  | 24.2      |
| 30°-40°   | 129.0  | 10.9      |
| 40°-50°   | 47.2   | 4.0       |
| 50°-60°   | 16.5   | 1.4       |
| 60°-70°   | 7.7    | 0.7       |
| 70°-80°   | 4.0    | 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       |
| 0°-30°    | 977.3  | 82.6      |
| 0°-40°    | 1106.3 | 93.5      |
| 0°-60°    | 1170.0 | 98.9      |
| 0°-90°    | 1182.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1182.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 3291 | 3291  | 3291 | 3291  | 3291 |      |
| 5°  | 2695 | 2779  | 2974 | 3191  | 3299 | 220  |
| 15° | 707  | 830   | 1327 | 2242  | 2842 | 212  |
| 25° | 194  | 225   | 355  | 969   | 1617 | 93   |
| 35° | 66   | 74    | 126  | 273   | 560  | 44   |
| 45° | 38   | 38    | 44   | 69    | 119  | 30   |
| 55° | 19   | 18    | 18   | 15    | 16   | 18   |
| 65° | 8    | 8     | 7    | 7     | 8    | 8    |
| 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°    | 3290.9 | 3290.9 | 3290.9 | 3290.9 | 3290.9 |
| 2.5°  | 3124.8 | 3157.8 | 3196.2 | 3236.0 | 3267.6 |
| 5°    | 2695.3 | 2779.0 | 2973.9 | 3190.7 | 3299.1 |
| 7.5°  | 2131.3 | 2254.8 | 2633.5 | 3061.7 | 3290.9 |
| 10°   | 1546.6 | 1704.5 | 2172.4 | 2838.0 | 3179.7 |
| 12.5° | 1063.6 | 1211.8 | 1742.9 | 2555.3 | 3032.9 |
| 15°   | 706.8  | 830.3  | 1327.1 | 2242.4 | 2842.1 |
| 17.5° | 498.2  | 581.9  | 964.8  | 1900.7 | 2596.5 |
| 20°   | 362.3  | 418.6  | 680.7  | 1565.8 | 2272.6 |
| 22.5° | 263.5  | 306.0  | 484.4  | 1251.6 | 1944.6 |
| 25°   | 193.5  | 225.1  | 355.4  | 968.9  | 1616.6 |
| 27.5° | 144.1  | 168.8  | 266.2  | 735.6  | 1288.6 |
| 30°   | 108.4  | 129.0  | 199.0  | 542.1  | 999.1  |
| 32.5° | 83.7   | 97.4   | 152.3  | 387.0  | 756.2  |
| 35°   | 65.9   | 74.1   | 126.3  | 273.1  | 559.9  |
| 37.5° | 54.9   | 60.4   | 104.3  | 190.8  | 410.3  |
| 40°   | 48.0   | 52.1   | 79.6   | 135.9  | 290.9  |
| 42.5° | 42.5   | 45.3   | 57.6   | 97.4   | 189.4  |
| 45°   | 38.4   | 38.4   | 43.9   | 68.6   | 119.4  |
| 47.5° | 35.7   | 31.6   | 34.3   | 48.0   | 70.0   |
| 50°   | 31.6   | 26.1   | 27.4   | 32.9   | 39.8   |
| 52.5° | 24.7   | 22.0   | 22.0   | 22.0   | 23.3   |
| 55°   | 19.2   | 17.8   | 17.8   | 15.1   | 16.5   |
| 57.5° | 15.1   | 15.1   | 13.7   | 12.4   | 13.7   |
| 60°   | 12.4   | 12.4   | 11.0   | 9.6    | 11.0   |
| 62.5° | 9.6    | 9.6    | 8.2    | 8.2    | 9.6    |
| 65°   | 8.2    | 8.2    | 6.9    | 6.9    | 8.2    |
| 67.5° | 6.9    | 6.9    | 6.9    | 5.5    | 6.9    |
| 70°   | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    |
| 72.5° | 4.1    | 4.1    | 5.5    | 4.1    | 4.1    |
| 75°   | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    |
| 77.5° | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    |
| 80°   | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    |
| 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)