

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: P1179762

Luminaire Tested: LDA2B208040R2050D010 2LBDC1MB

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1179762  
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: LDA2B208040R2050D010 2LBDC1MB  
Description: 2000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

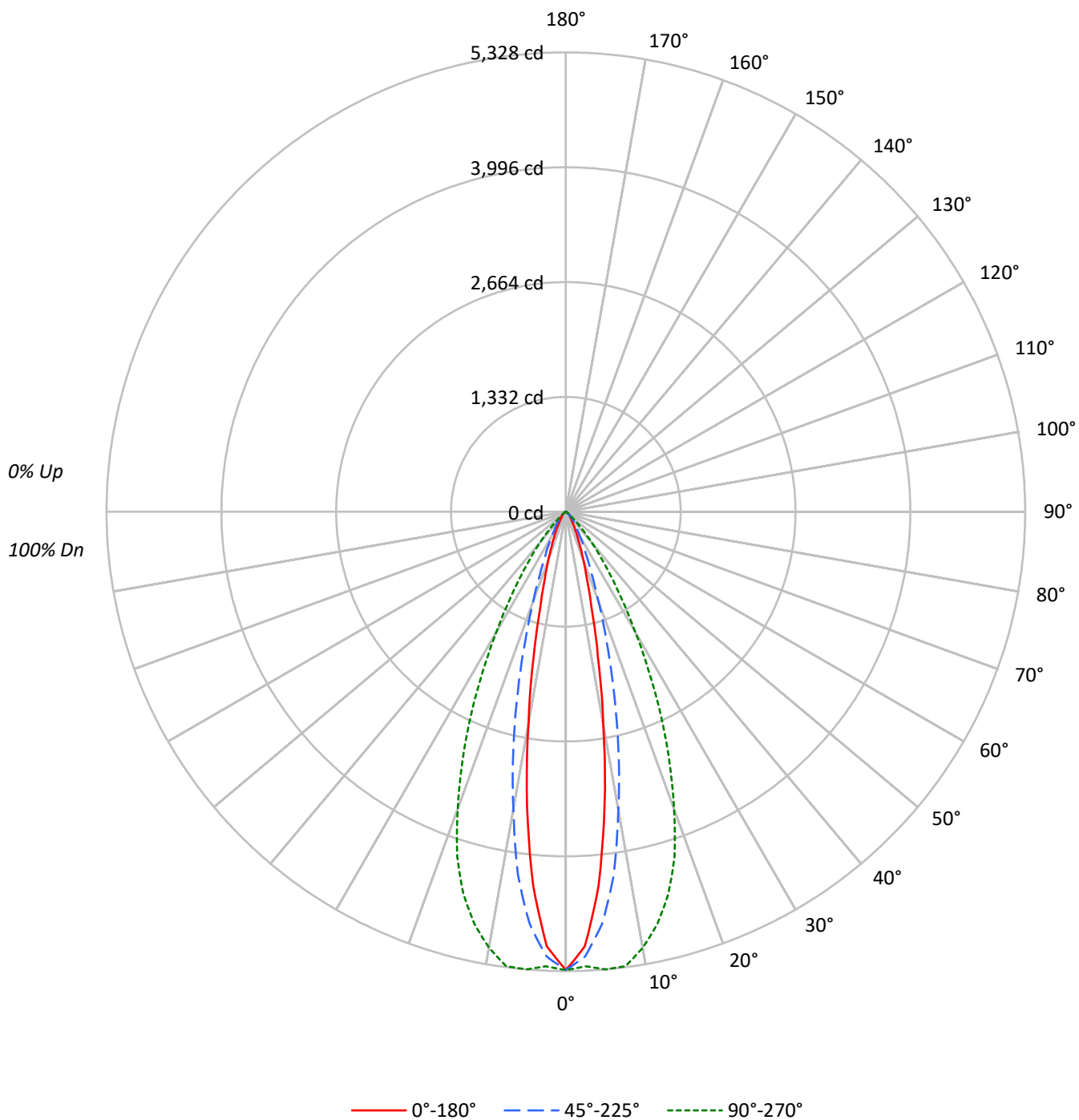
Lumens per Lamp: N/A  
Luminaire Lumens: 1910.2 lumens  
Efficiency: N/A  
Efficacy: 92.7 lumens/watt  
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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°  | 2621873 | 2621873 | 2621873 |
| 5°  | 2155560 | 2378322 | 2638474 |
| 10° | 1251229 | 1757462 | 2572395 |
| 15° | 582937  | 1094571 | 2344210 |
| 20° | 307192  | 577107  | 1926788 |
| 25° | 170114  | 312465  | 1421118 |
| 30° | 99752   | 183040  | 919073  |
| 35° | 64083   | 122806  | 544585  |
| 40° | 49977   | 82759   | 302569  |
| 45° | 43328   | 49468   | 134520  |
| 50° | 39144   | 34002   | 49352   |
| 55° | 26665   | 24772   | 22880   |
| 60° | 19636   | 17465   | 17465   |
| 65° | 15526   | 12958   | 15526   |
| 70° | 12838   | 12838   | 12838   |
| 75° | 12581   | 12581   | 12581   |
| 80° | 12501   | 12501   | 12501   |
| 85° | 12454   | 12454   | 12454   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 134520 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 423.1  | 22.2      |
| 10°-20°   | 692.8  | 36.3      |
| 20°-30°   | 462.2  | 24.2      |
| 30°-40°   | 208.3  | 10.9      |
| 40°-50°   | 76.3   | 4.0       |
| 50°-60°   | 26.7   | 1.4       |
| 60°-70°   | 12.5   | 0.7       |
| 70°-80°   | 6.5    | 0.3       |
| 80°-90°   | 1.8    | 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       |
| 0°-30°    | 1578.1 | 82.6      |
| 0°-40°    | 1786.5 | 93.5      |
| 0°-60°    | 1889.4 | 98.9      |
| 0°-90°    | 1910.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1910.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 5314 | 5314  | 5314 | 5314  | 5314 |      |
| 5°  | 4352 | 4488  | 4802 | 5152  | 5328 | 355  |
| 15° | 1141 | 1341  | 2143 | 3621  | 4590 | 342  |
| 25° | 312  | 363   | 574  | 1565  | 2611 | 151  |
| 35° | 106  | 120   | 204  | 441   | 904  | 71   |
| 45° | 62   | 62    | 71   | 111   | 193  | 49   |
| 55° | 31   | 29    | 29   | 24    | 27   | 29   |
| 65° | 13   | 13    | 11   | 11    | 13   | 13   |
| 75° | 7    | 7     | 7    | 7     | 7    | 6    |
| 85° | 2    | 2     | 2    | 2     | 2    | 2    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 5314.3 | 5314.3 | 5314.3 | 5314.3 | 5314.3 |
| 2.5°  | 5046.1 | 5099.3 | 5161.4 | 5225.6 | 5276.6 |
| 5°    | 4352.5 | 4487.7 | 4802.3 | 5152.5 | 5327.6 |
| 7.5°  | 3441.6 | 3641.1 | 4252.7 | 4944.2 | 5314.3 |
| 10°   | 2497.6 | 2752.4 | 3508.1 | 4582.9 | 5134.8 |
| 12.5° | 1717.5 | 1956.8 | 2814.5 | 4126.4 | 4897.6 |
| 15°   | 1141.3 | 1340.8 | 2143.0 | 3621.1 | 4589.6 |
| 17.5° | 804.5  | 939.6  | 1557.9 | 3069.3 | 4192.9 |
| 20°   | 585.1  | 675.9  | 1099.2 | 2528.6 | 3669.9 |
| 22.5° | 425.5  | 494.2  | 782.3  | 2021.1 | 3140.2 |
| 25°   | 312.5  | 363.4  | 574.0  | 1564.6 | 2610.6 |
| 27.5° | 232.7  | 272.6  | 429.9  | 1187.8 | 2080.9 |
| 30°   | 175.1  | 208.3  | 321.3  | 875.4  | 1613.3 |
| 32.5° | 135.2  | 157.3  | 246.0  | 624.9  | 1221.1 |
| 35°   | 106.4  | 119.7  | 203.9  | 441.0  | 904.2  |
| 37.5° | 88.6   | 97.5   | 168.4  | 308.0  | 662.6  |
| 40°   | 77.6   | 84.2   | 128.5  | 219.4  | 469.8  |
| 42.5° | 68.7   | 73.1   | 93.1   | 157.3  | 305.8  |
| 45°   | 62.1   | 62.1   | 70.9   | 110.8  | 192.8  |
| 47.5° | 57.6   | 51.0   | 55.4   | 77.6   | 113.0  |
| 50°   | 51.0   | 42.1   | 44.3   | 53.2   | 64.3   |
| 52.5° | 39.9   | 35.5   | 35.5   | 35.5   | 37.7   |
| 55°   | 31.0   | 28.8   | 28.8   | 24.4   | 26.6   |
| 57.5° | 24.4   | 24.4   | 22.2   | 19.9   | 22.2   |
| 60°   | 19.9   | 19.9   | 17.7   | 15.5   | 17.7   |
| 62.5° | 15.5   | 15.5   | 13.3   | 13.3   | 15.5   |
| 65°   | 13.3   | 13.3   | 11.1   | 11.1   | 13.3   |
| 67.5° | 11.1   | 11.1   | 11.1   | 8.9    | 11.1   |
| 70°   | 8.9    | 8.9    | 8.9    | 8.9    | 8.9    |
| 72.5° | 6.6    | 6.6    | 8.9    | 6.6    | 6.6    |
| 75°   | 6.6    | 6.6    | 6.6    | 6.6    | 6.6    |
| 77.5° | 4.4    | 4.4    | 4.4    | 4.4    | 4.4    |
| 80°   | 4.4    | 4.4    | 4.4    | 4.4    | 4.4    |
| 82.5° | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    |
| 85°   | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    |
| 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)