

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: P1179331

Luminaire Tested: LDA2B159024R2050D010 2LBD1MMS

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1179331  
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: LDA2B159024R2050D010 2LBD1MMS  
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2400K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

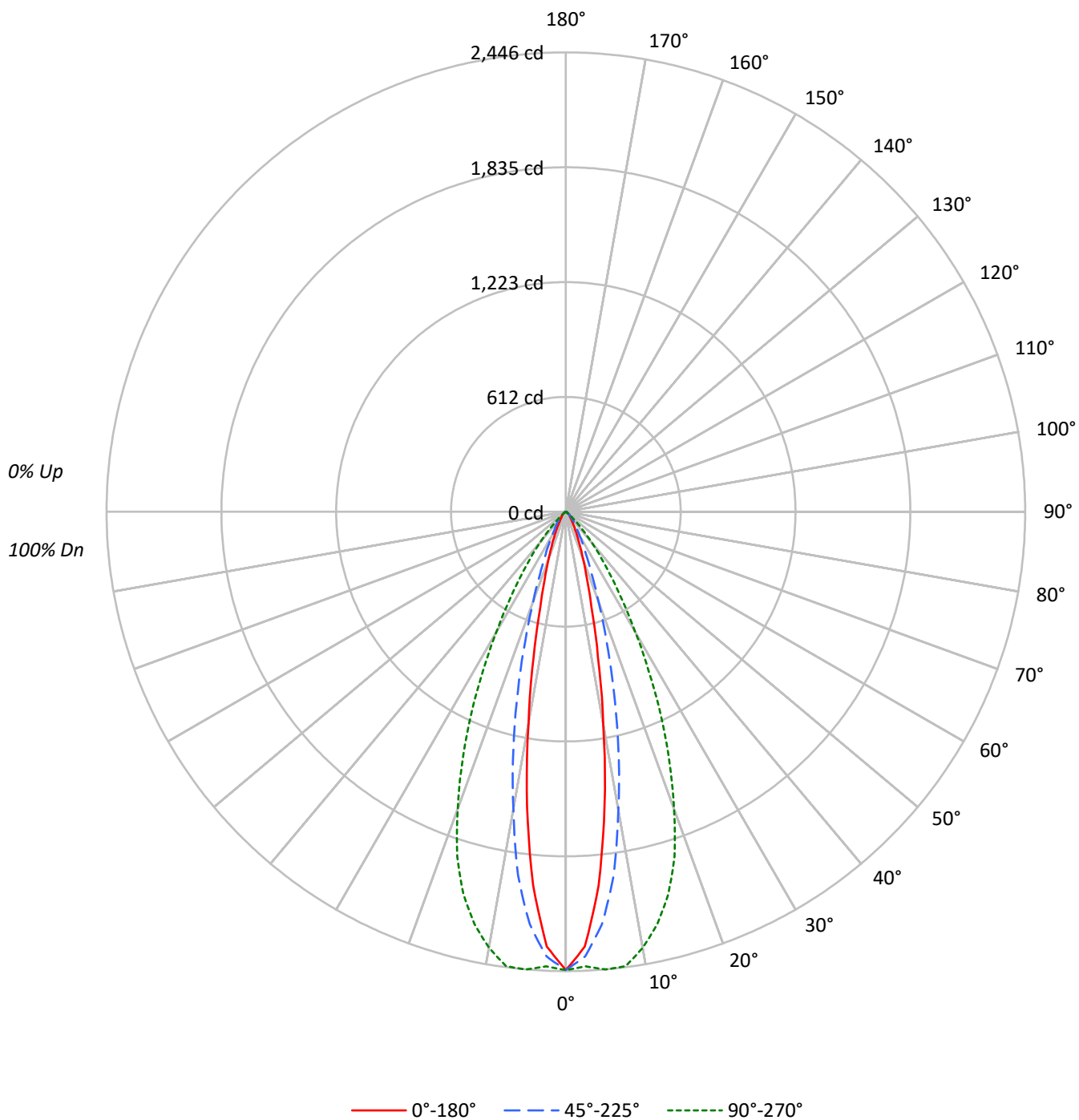
Lumens per Lamp: N/A  
Luminaire Lumens: 877.0 lumens  
Efficiency: N/A  
Efficacy: 62.2 lumens/watt  
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.1  
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°  | 1203753 | 1203753 | 1203753 |
| 5°  | 989651  | 1091969 | 1211373 |
| 10° | 574465  | 806917  | 1181043 |
| 15° | 267641  | 502542  | 1076285 |
| 20° | 141022  | 264980  | 884614  |
| 25° | 78116   | 143440  | 652475  |
| 30° | 45803   | 84029   | 421966  |
| 35° | 29391   | 56374   | 250008  |
| 40° | 22928   | 37998   | 138919  |
| 45° | 19885   | 22746   | 61748   |
| 50° | 17960   | 15581   | 22642   |
| 55° | 12214   | 11354   | 10494   |
| 60° | 9078    | 7992    | 7992    |
| 65° | 7121    | 5954    | 7121    |
| 70° | 5914    | 5914    | 5914    |
| 75° | 5909    | 5909    | 5909    |
| 80° | 5682    | 5682    | 5682    |
| 85° | 5661    | 5661    | 5661    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 61748 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 194.3  | 22.2      |
| 10°-20°   | 318.1  | 36.3      |
| 20°-30°   | 212.2  | 24.2      |
| 30°-40°   | 95.6   | 10.9      |
| 40°-50°   | 35.0   | 4.0       |
| 50°-60°   | 12.2   | 1.4       |
| 60°-70°   | 5.7    | 0.7       |
| 70°-80°   | 3.0    | 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°    | 724.5  | 82.6      |
| 0°-40°    | 820.2  | 93.5      |
| 0°-60°    | 867.4  | 98.9      |
| 0°-90°    | 877.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 877.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2440 | 2440  | 2440 | 2440  | 2440 |      |
| 5°  | 1998 | 2060  | 2205 | 2366  | 2446 | 163  |
| 15° | 524  | 616   | 984  | 1662  | 2107 | 157  |
| 25° | 144  | 167   | 264  | 718   | 1199 | 69   |
| 35° | 49   | 55    | 94   | 202   | 415  | 32   |
| 45° | 28   | 28    | 33   | 51    | 88   | 22   |
| 55° | 14   | 13    | 13   | 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°    | 2439.9 | 2439.9 | 2439.9 | 2439.9 | 2439.9 |
| 2.5°  | 2316.8 | 2341.2 | 2369.7 | 2399.2 | 2422.6 |
| 5°    | 1998.3 | 2060.4 | 2204.9 | 2365.6 | 2446.0 |
| 7.5°  | 1580.1 | 1671.7 | 1952.5 | 2270.0 | 2439.9 |
| 10°   | 1146.7 | 1263.7 | 1610.7 | 2104.1 | 2357.5 |
| 12.5° | 788.5  | 898.4  | 1292.2 | 1894.5 | 2248.6 |
| 15°   | 524.0  | 615.6  | 983.9  | 1662.5 | 2107.2 |
| 17.5° | 369.3  | 431.4  | 715.3  | 1409.2 | 1925.0 |
| 20°   | 268.6  | 310.3  | 504.7  | 1160.9 | 1684.9 |
| 22.5° | 195.4  | 226.9  | 359.2  | 927.9  | 1441.8 |
| 25°   | 143.5  | 166.9  | 263.5  | 718.3  | 1198.6 |
| 27.5° | 106.8  | 125.1  | 197.4  | 545.4  | 955.4  |
| 30°   | 80.4   | 95.6   | 147.5  | 401.9  | 740.7  |
| 32.5° | 62.1   | 72.2   | 112.9  | 286.9  | 560.6  |
| 35°   | 48.8   | 54.9   | 93.6   | 202.5  | 415.1  |
| 37.5° | 40.7   | 44.8   | 77.3   | 141.4  | 304.2  |
| 40°   | 35.6   | 38.7   | 59.0   | 100.7  | 215.7  |
| 42.5° | 31.5   | 33.6   | 42.7   | 72.2   | 140.4  |
| 45°   | 28.5   | 28.5   | 32.6   | 50.9   | 88.5   |
| 47.5° | 26.5   | 23.4   | 25.4   | 35.6   | 51.9   |
| 50°   | 23.4   | 19.3   | 20.3   | 24.4   | 29.5   |
| 52.5° | 18.3   | 16.3   | 16.3   | 16.3   | 17.3   |
| 55°   | 14.2   | 13.2   | 13.2   | 11.2   | 12.2   |
| 57.5° | 11.2   | 11.2   | 10.2   | 9.2    | 10.2   |
| 60°   | 9.2    | 9.2    | 8.1    | 7.1    | 8.1    |
| 62.5° | 7.1    | 7.1    | 6.1    | 6.1    | 7.1    |
| 65°   | 6.1    | 6.1    | 5.1    | 5.1    | 6.1    |
| 67.5° | 5.1    | 5.1    | 5.1    | 4.1    | 5.1    |
| 70°   | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    |
| 72.5° | 3.1    | 3.1    | 4.1    | 3.1    | 3.1    |
| 75°   | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    |
| 77.5° | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    |
| 80°   | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    |
| 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)