

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: P1179367

Luminaire Tested: LDA2B159027R2050D010 2LBD1H

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1179367  
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: LDA2B159027R2050D010 2LBD1H  
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2700K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

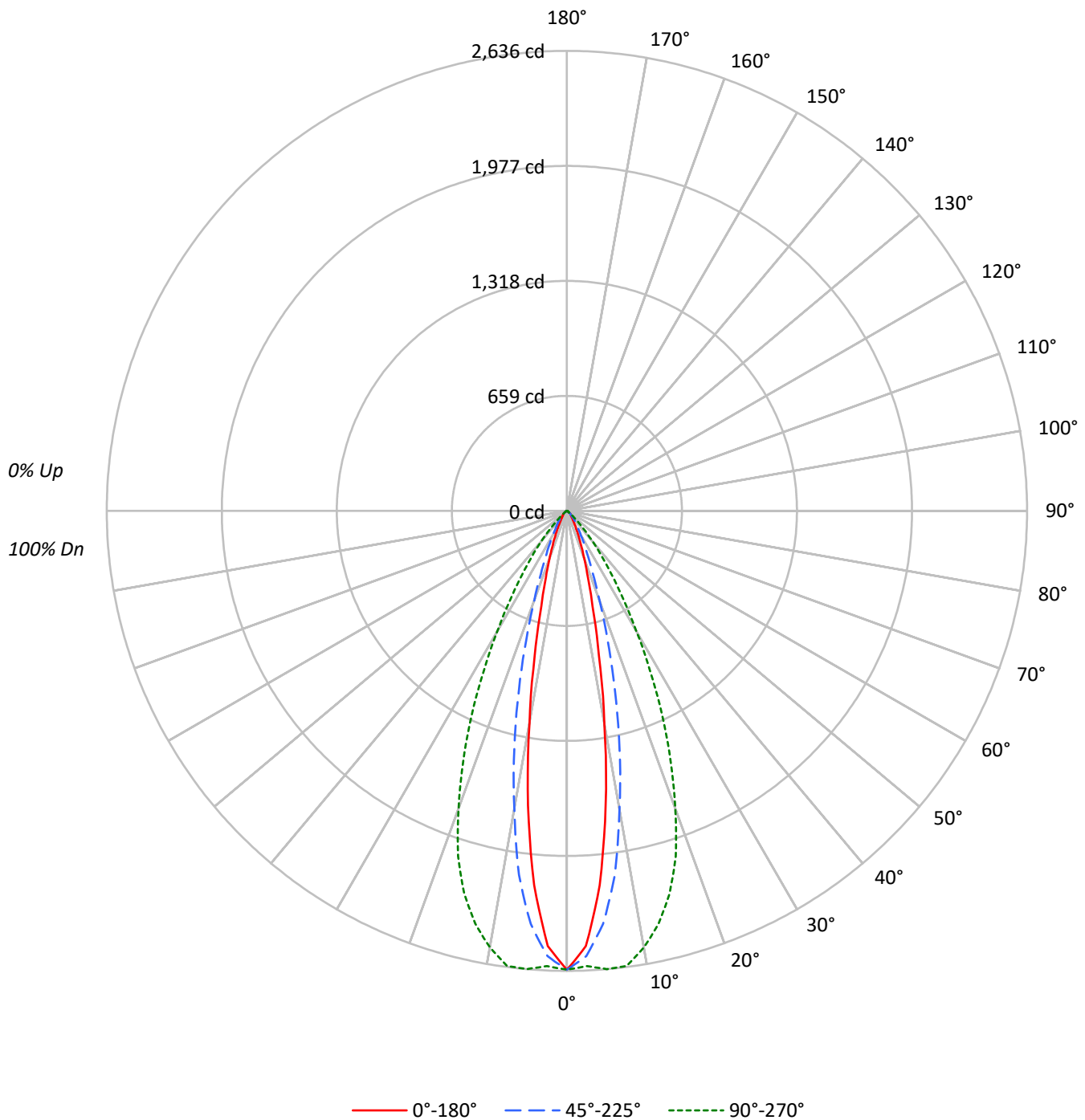
Lumens per Lamp: N/A  
Luminaire Lumens: 945.1 lumens  
Efficiency: N/A  
Efficacy: 67.0 lumens/watt  
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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°  | 1297048 | 1297048 | 1297048 |
| 5°  | 1066364 | 1176557 | 1305222 |
| 10° | 618952  | 869438  | 1272571 |
| 15° | 288378  | 541463  | 1159694 |
| 20° | 151942  | 285508  | 953182  |
| 25° | 84159   | 154545  | 703047  |
| 30° | 49335   | 90580   | 454666  |
| 35° | 31680   | 60770   | 269401  |
| 40° | 24731   | 40961   | 149674  |
| 45° | 21420   | 24490   | 66562   |
| 50° | 19342   | 16809   | 24408   |
| 55° | 13160   | 12300   | 11354   |
| 60° | 9769    | 8683    | 8683    |
| 65° | 7705    | 6421    | 7705    |
| 70° | 6347    | 6347    | 6347    |
| 75° | 6290    | 6290    | 6290    |
| 80° | 6251    | 6251    | 6251    |
| 85° | 6227    | 6227    | 6227    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 66562 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 209.3  | 22.1      |
| 10°-20°   | 342.7  | 36.3      |
| 20°-30°   | 228.6  | 24.2      |
| 30°-40°   | 103.1  | 10.9      |
| 40°-50°   | 37.7   | 4.0       |
| 50°-60°   | 13.2   | 1.4       |
| 60°-70°   | 6.2    | 0.7       |
| 70°-80°   | 3.3    | 0.3       |
| 80°-90°   | 0.9    | 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°    | 780.7  | 82.6      |
| 0°-40°    | 883.8  | 93.5      |
| 0°-60°    | 934.7  | 98.9      |
| 0°-90°    | 945.1  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 945.1  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2629 | 2629  | 2629 | 2629  | 2629 |      |
| 5°  | 2153 | 2220  | 2376 | 2549  | 2636 | 176  |
| 15° | 565  | 663   | 1060 | 1791  | 2270 | 169  |
| 25° | 155  | 180   | 284  | 774   | 1292 | 75   |
| 35° | 53   | 59    | 101  | 218   | 447  | 35   |
| 45° | 31   | 31    | 35   | 55    | 95   | 24   |
| 55° | 15   | 14    | 14   | 12    | 13   | 14   |
| 65° | 7    | 7     | 6    | 6     | 7    | 7    |
| 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°    | 2629.0 | 2629.0 | 2629.0 | 2629.0 | 2629.0 |
| 2.5°  | 2496.3 | 2522.6 | 2553.3 | 2585.1 | 2610.3 |
| 5°    | 2153.2 | 2220.0 | 2375.7 | 2548.9 | 2635.5 |
| 7.5°  | 1702.6 | 1801.2 | 2103.8 | 2445.9 | 2629.0 |
| 10°   | 1235.5 | 1361.6 | 1735.5 | 2267.2 | 2540.2 |
| 12.5° | 849.6  | 968.0  | 1392.3 | 2041.3 | 2422.9 |
| 15°   | 564.6  | 663.3  | 1060.1 | 1791.4 | 2270.5 |
| 17.5° | 398.0  | 464.8  | 770.7  | 1518.4 | 2074.2 |
| 20°   | 289.4  | 334.4  | 543.8  | 1250.9 | 1815.5 |
| 22.5° | 210.5  | 244.5  | 387.0  | 999.8  | 1553.5 |
| 25°   | 154.6  | 179.8  | 283.9  | 774.0  | 1291.5 |
| 27.5° | 115.1  | 134.8  | 212.7  | 587.6  | 1029.4 |
| 30°   | 86.6   | 103.1  | 159.0  | 433.0  | 798.1  |
| 32.5° | 66.9   | 77.8   | 121.7  | 309.2  | 604.1  |
| 35°   | 52.6   | 59.2   | 100.9  | 218.2  | 447.3  |
| 37.5° | 43.9   | 48.2   | 83.3   | 152.4  | 327.8  |
| 40°   | 38.4   | 41.7   | 63.6   | 108.5  | 232.4  |
| 42.5° | 34.0   | 36.2   | 46.0   | 77.8   | 151.3  |
| 45°   | 30.7   | 30.7   | 35.1   | 54.8   | 95.4   |
| 47.5° | 28.5   | 25.2   | 27.4   | 38.4   | 55.9   |
| 50°   | 25.2   | 20.8   | 21.9   | 26.3   | 31.8   |
| 52.5° | 19.7   | 17.5   | 17.5   | 17.5   | 18.6   |
| 55°   | 15.3   | 14.3   | 14.3   | 12.1   | 13.2   |
| 57.5° | 12.1   | 12.1   | 11.0   | 9.9    | 11.0   |
| 60°   | 9.9    | 9.9    | 8.8    | 7.7    | 8.8    |
| 62.5° | 7.7    | 7.7    | 6.6    | 6.6    | 7.7    |
| 65°   | 6.6    | 6.6    | 5.5    | 5.5    | 6.6    |
| 67.5° | 5.5    | 5.5    | 5.5    | 4.4    | 5.5    |
| 70°   | 4.4    | 4.4    | 4.4    | 4.4    | 4.4    |
| 72.5° | 3.3    | 3.3    | 4.4    | 3.3    | 3.3    |
| 75°   | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    |
| 77.5° | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    |
| 80°   | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    |
| 82.5° | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    |
| 85°   | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    |
| 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)