

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: P1179286

Luminaire Tested: LDA2B158050R2040D010 2LBDC1MW

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1179286  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2206-683-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/17/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDA2B158050R2040D010 2LBDC1MW  
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

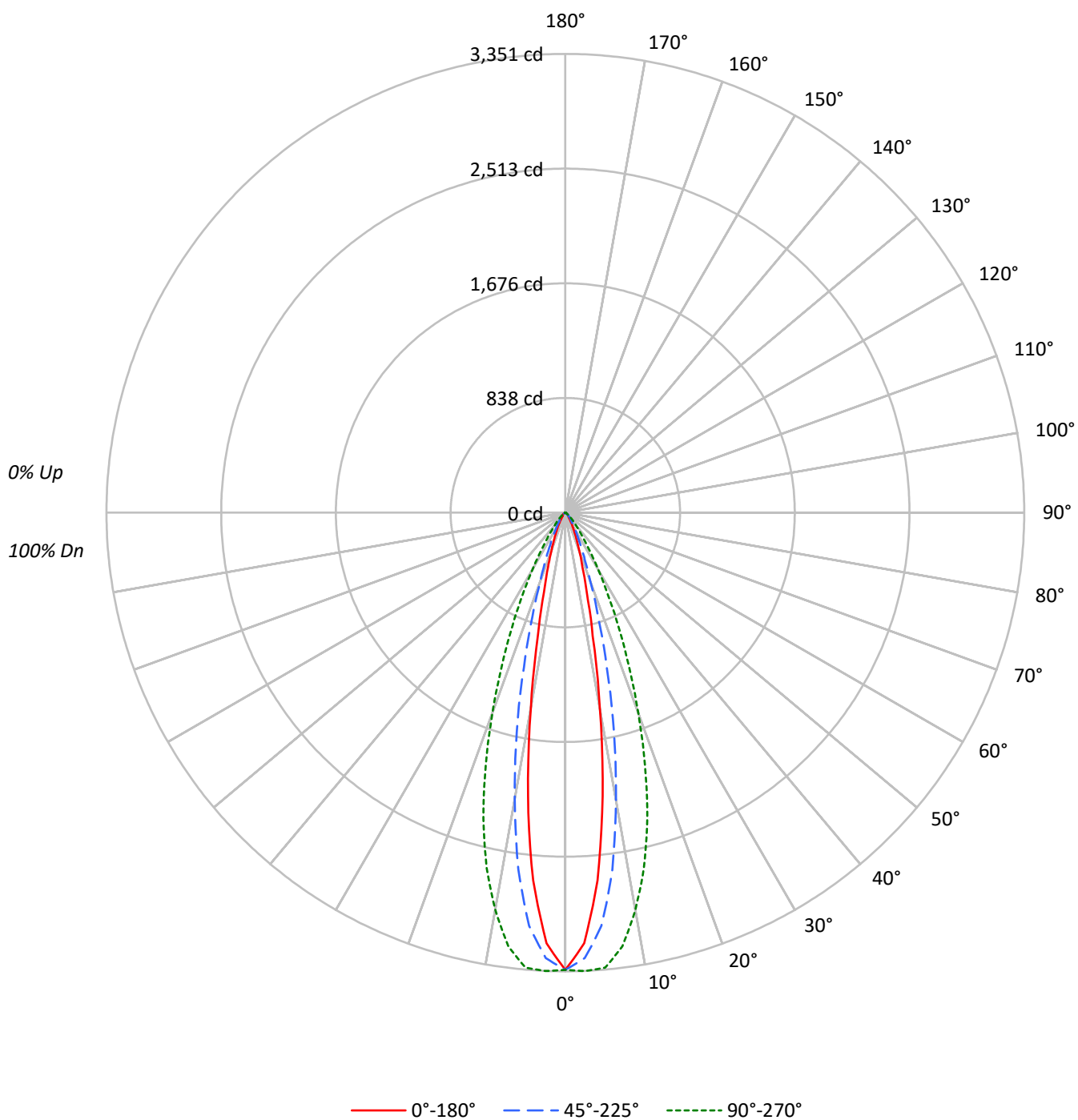
Lumens per Lamp: N/A  
Luminaire Lumens: 941.4 lumens  
Efficiency: N/A  
Efficacy: 66.8 lumens/watt  
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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  |     |     | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  | 30  | 10  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 | 100 |
| 1   | 114 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 104 | 103 |  | 102 | 101 | 100 |  | 99  | 98  | 97  | 95  |
| 2   | 110 | 106 | 102 | 99  | 108 | 104 | 101 | 98  | 101 | 98  | 96  |  | 98  | 96  | 94  |  | 95  | 94  | 92  | 91  |
| 3   | 106 | 100 | 96  | 93  | 104 | 99  | 95  | 92  | 96  | 93  | 91  |  | 94  | 92  | 89  |  | 92  | 90  | 88  | 87  |
| 4   | 102 | 96  | 91  | 88  | 100 | 94  | 90  | 87  | 92  | 89  | 86  |  | 90  | 87  | 85  |  | 89  | 86  | 84  | 83  |
| 5   | 98  | 91  | 86  | 83  | 97  | 90  | 86  | 83  | 89  | 85  | 82  |  | 87  | 84  | 81  |  | 86  | 83  | 81  | 79  |
| 6   | 95  | 87  | 83  | 79  | 93  | 87  | 82  | 79  | 85  | 81  | 78  |  | 84  | 80  | 78  |  | 83  | 80  | 77  | 76  |
| 7   | 91  | 84  | 79  | 76  | 90  | 83  | 79  | 75  | 82  | 78  | 75  |  | 81  | 77  | 75  |  | 80  | 77  | 74  | 73  |
| 8   | 88  | 81  | 76  | 73  | 87  | 80  | 76  | 72  | 79  | 75  | 72  |  | 78  | 75  | 72  |  | 77  | 74  | 72  | 70  |
| 9   | 85  | 78  | 73  | 70  | 84  | 77  | 73  | 70  | 76  | 72  | 70  |  | 76  | 72  | 69  |  | 75  | 72  | 69  | 68  |
| 10  | 83  | 75  | 70  | 67  | 82  | 75  | 70  | 67  | 74  | 70  | 67  |  | 73  | 70  | 67  |  | 73  | 69  | 67  | 66  |

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

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 1647927 | 1647927 | 1647927 |
| 5°  | 1335778 | 1500299 | 1652241 |
| 10° | 726260  | 1065168 | 1475365 |
| 15° | 307174  | 597749  | 1180941 |
| 20° | 156825  | 281098  | 816571  |
| 25° | 86826   | 143767  | 497712  |
| 30° | 48594   | 79870   | 271398  |
| 35° | 28127   | 48363   | 138284  |
| 40° | 20931   | 36646   | 76576   |
| 45° | 18420   | 24839   | 45352   |
| 50° | 19495   | 16348   | 24177   |
| 55° | 14020   | 11354   | 13074   |
| 60° | 8979    | 7992    | 7992    |
| 65° | 7121    | 7121    | 7121    |
| 70° | 5914    | 5914    | 5914    |
| 75° | 5719    | 5719    | 5719    |
| 80° | 5682    | 5682    | 5682    |
| 85° | 5661    | 5661    | 5661    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 45352 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 260.3  | 27.6      |
| 10°-20°   | 368.0  | 39.1      |
| 20°-30°   | 189.6  | 20.1      |
| 30°-40°   | 69.8   | 7.4       |
| 40°-50°   | 30.6   | 3.3       |
| 50°-60°   | 13.4   | 1.4       |
| 60°-70°   | 5.9    | 0.6       |
| 70°-80°   | 2.9    | 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       |
| 0°-30°    | 817.9  | 86.9      |
| 0°-40°    | 887.7  | 94.3      |
| 0°-60°    | 931.7  | 99.0      |
| 0°-90°    | 941.4  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 941.4  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 3340 | 3340  | 3340 | 3340  | 3340 |      |
| 5°  | 2697 | 2789  | 3029 | 3244  | 3336 | 217  |
| 15° | 601  | 699   | 1170 | 1952  | 2312 | 184  |
| 25° | 160  | 179   | 264  | 606   | 914  | 77   |
| 35° | 47   | 54    | 80   | 140   | 230  | 32   |
| 45° | 26   | 30    | 36   | 43    | 65   | 21   |
| 55° | 16   | 14    | 13   | 14    | 15   | 15   |
| 65° | 6    | 6     | 6    | 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°    | 3340.2 | 3340.2 | 3340.2 | 3340.2 | 3340.2 |
| 2.5°  | 3149.2 | 3186.8 | 3256.9 | 3324.0 | 3351.4 |
| 5°    | 2697.2 | 2788.6 | 3029.4 | 3243.7 | 3336.2 |
| 7.5°  | 2088.6 | 2239.0 | 2629.1 | 3030.4 | 3194.9 |
| 10°   | 1449.7 | 1602.0 | 2126.2 | 2703.3 | 2945.0 |
| 12.5° | 924.5  | 1072.8 | 1638.6 | 2340.6 | 2654.5 |
| 15°   | 601.4  | 698.9  | 1170.3 | 1952.5 | 2312.1 |
| 17.5° | 417.5  | 486.6  | 796.5  | 1541.1 | 1933.2 |
| 20°   | 298.7  | 347.4  | 535.4  | 1175.4 | 1555.3 |
| 22.5° | 216.4  | 249.9  | 371.8  | 858.4  | 1208.9 |
| 25°   | 159.5  | 178.8  | 264.1  | 606.5  | 914.3  |
| 27.5° | 117.8  | 130.0  | 191.0  | 418.5  | 668.4  |
| 30°   | 85.3   | 95.5   | 140.2  | 287.5  | 476.4  |
| 32.5° | 62.0   | 71.1   | 104.6  | 199.1  | 332.2  |
| 35°   | 46.7   | 53.8   | 80.3   | 140.2  | 229.6  |
| 37.5° | 38.6   | 42.7   | 66.0   | 101.6  | 162.5  |
| 40°   | 32.5   | 36.6   | 56.9   | 75.2   | 118.9  |
| 42.5° | 28.4   | 33.5   | 46.7   | 55.9   | 89.4   |
| 45°   | 26.4   | 30.5   | 35.6   | 42.7   | 65.0   |
| 47.5° | 26.4   | 25.4   | 27.4   | 32.5   | 45.7   |
| 50°   | 25.4   | 21.3   | 21.3   | 25.4   | 31.5   |
| 52.5° | 21.3   | 17.3   | 17.3   | 18.3   | 21.3   |
| 55°   | 16.3   | 14.2   | 13.2   | 14.2   | 15.2   |
| 57.5° | 12.2   | 12.2   | 11.2   | 10.2   | 11.2   |
| 60°   | 9.1    | 9.1    | 8.1    | 8.1    | 8.1    |
| 62.5° | 7.1    | 7.1    | 7.1    | 6.1    | 7.1    |
| 65°   | 6.1    | 6.1    | 6.1    | 5.1    | 6.1    |
| 67.5° | 5.1    | 5.1    | 4.1    | 5.1    | 5.1    |
| 70°   | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    |
| 72.5° | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    |
| 75°   | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    |
| 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)