

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: P1178311

Luminaire Tested: LDA2B059024R2040D010 2LBD1MW

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1178311  
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: LDA2B059024R2040D010 2LBD1MW  
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2400K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

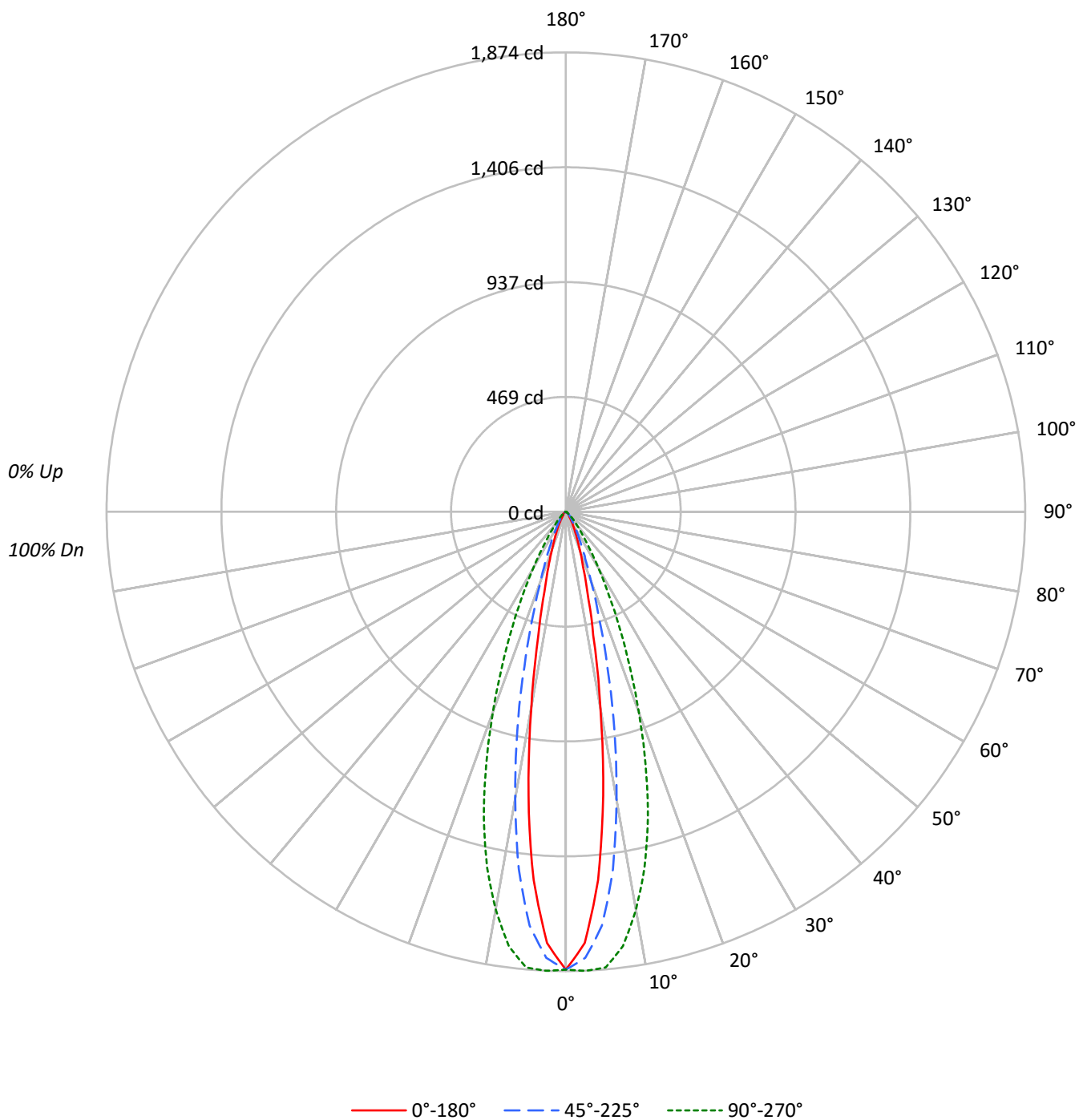
Lumens per Lamp: N/A  
Luminaire Lumens: 526.4 lumens  
Efficiency: N/A  
Efficacy: 75.2 lumens/watt  
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 7  
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

TEST NUMBER: P1178311

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

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 921550 | 921550 | 921550 |
| 5°  | 746980 | 838997 | 923932 |
| 10° | 406139 | 595657 | 825052 |
| 15° | 171771 | 334296 | 660420 |
| 20° | 87679  | 157192 | 456666 |
| 25° | 48557  | 80403  | 278334 |
| 30° | 27174  | 44663  | 151764 |
| 35° | 15720  | 27043  | 77333  |
| 40° | 11721  | 20480  | 42829  |
| 45° | 10326  | 13885  | 25397  |
| 50° | 10899  | 9134   | 13509  |
| 55° | 7827   | 6365   | 7311   |
| 60° | 5032   | 4440   | 4440   |
| 65° | 3969   | 3969   | 3969   |
| 70° | 3318   | 3318   | 3318   |
| 75° | 3241   | 3241   | 3241   |
| 80° | 3125   | 3125   | 3125   |
| 85° | 3396   | 3396   | 3396   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 25397 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 145.5  | 27.6      |
| 10°-20°   | 205.8  | 39.1      |
| 20°-30°   | 106.0  | 20.1      |
| 30°-40°   | 39.0   | 7.4       |
| 40°-50°   | 17.1   | 3.3       |
| 50°-60°   | 7.5    | 1.4       |
| 60°-70°   | 3.3    | 0.6       |
| 70°-80°   | 1.6    | 0.3       |
| 80°-90°   | 0.5    | 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°    | 457.4  | 86.9      |
| 0°-40°    | 496.4  | 94.3      |
| 0°-60°    | 521.0  | 99.0      |
| 0°-90°    | 526.4  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 526.4  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1868 | 1868  | 1868 | 1868  | 1868 |      |
| 5°  | 1508 | 1559  | 1694 | 1814  | 1866 | 121  |
| 15° | 336  | 391   | 654  | 1092  | 1293 | 103  |
| 25° | 89   | 100   | 148  | 339   | 511  | 43   |
| 35° | 26   | 30    | 45   | 78    | 128  | 18   |
| 45° | 15   | 17    | 20   | 24    | 36   | 12   |
| 55° | 9    | 8     | 7    | 8     | 8    | 8    |
| 65° | 3    | 3     | 3    | 3     | 3    | 3    |
| 75° | 2    | 2     | 2    | 2     | 2    | 2    |
| 85° | 1    | 1     | 1    | 1     | 1    | 0    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1867.9 | 1867.9 | 1867.9 | 1867.9 | 1867.9 |
| 2.5°  | 1761.1 | 1782.1 | 1821.3 | 1858.8 | 1874.2 |
| 5°    | 1508.3 | 1559.4 | 1694.1 | 1814.0 | 1865.6 |
| 7.5°  | 1168.0 | 1252.1 | 1470.2 | 1694.6 | 1786.7 |
| 10°   | 810.7  | 895.9  | 1189.0 | 1511.7 | 1646.9 |
| 12.5° | 517.0  | 599.9  | 916.3  | 1308.9 | 1484.5 |
| 15°   | 336.3  | 390.9  | 654.5  | 1091.9 | 1293.0 |
| 17.5° | 233.5  | 272.1  | 445.4  | 861.8  | 1081.1 |
| 20°   | 167.0  | 194.3  | 299.4  | 657.3  | 869.8  |
| 22.5° | 121.0  | 139.8  | 207.9  | 480.0  | 676.0  |
| 25°   | 89.2   | 100.0  | 147.7  | 339.2  | 511.3  |
| 27.5° | 65.9   | 72.7   | 106.8  | 234.1  | 373.8  |
| 30°   | 47.7   | 53.4   | 78.4   | 160.8  | 266.4  |
| 32.5° | 34.7   | 39.8   | 58.5   | 111.3  | 185.8  |
| 35°   | 26.1   | 30.1   | 44.9   | 78.4   | 128.4  |
| 37.5° | 21.6   | 23.9   | 36.9   | 56.8   | 90.9   |
| 40°   | 18.2   | 20.5   | 31.8   | 42.0   | 66.5   |
| 42.5° | 15.9   | 18.7   | 26.1   | 31.2   | 50.0   |
| 45°   | 14.8   | 17.0   | 19.9   | 23.9   | 36.4   |
| 47.5° | 14.8   | 14.2   | 15.3   | 18.2   | 25.6   |
| 50°   | 14.2   | 11.9   | 11.9   | 14.2   | 17.6   |
| 52.5° | 11.9   | 9.7    | 9.7    | 10.2   | 11.9   |
| 55°   | 9.1    | 8.0    | 7.4    | 8.0    | 8.5    |
| 57.5° | 6.8    | 6.8    | 6.2    | 5.7    | 6.2    |
| 60°   | 5.1    | 5.1    | 4.5    | 4.5    | 4.5    |
| 62.5° | 4.0    | 4.0    | 4.0    | 3.4    | 4.0    |
| 65°   | 3.4    | 3.4    | 3.4    | 2.8    | 3.4    |
| 67.5° | 2.8    | 2.8    | 2.3    | 2.8    | 2.8    |
| 70°   | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    |
| 72.5° | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    |
| 75°   | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    |
| 77.5° | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    |
| 80°   | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    |
| 82.5° | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    |
| 85°   | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    |
| 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)