

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: P1178125

Luminaire Tested: LDA2B058027R2040D010 2LBDC1MW

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1178125  
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: LDA2B058027R2040D010 2LBDC1MW  
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 2700K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

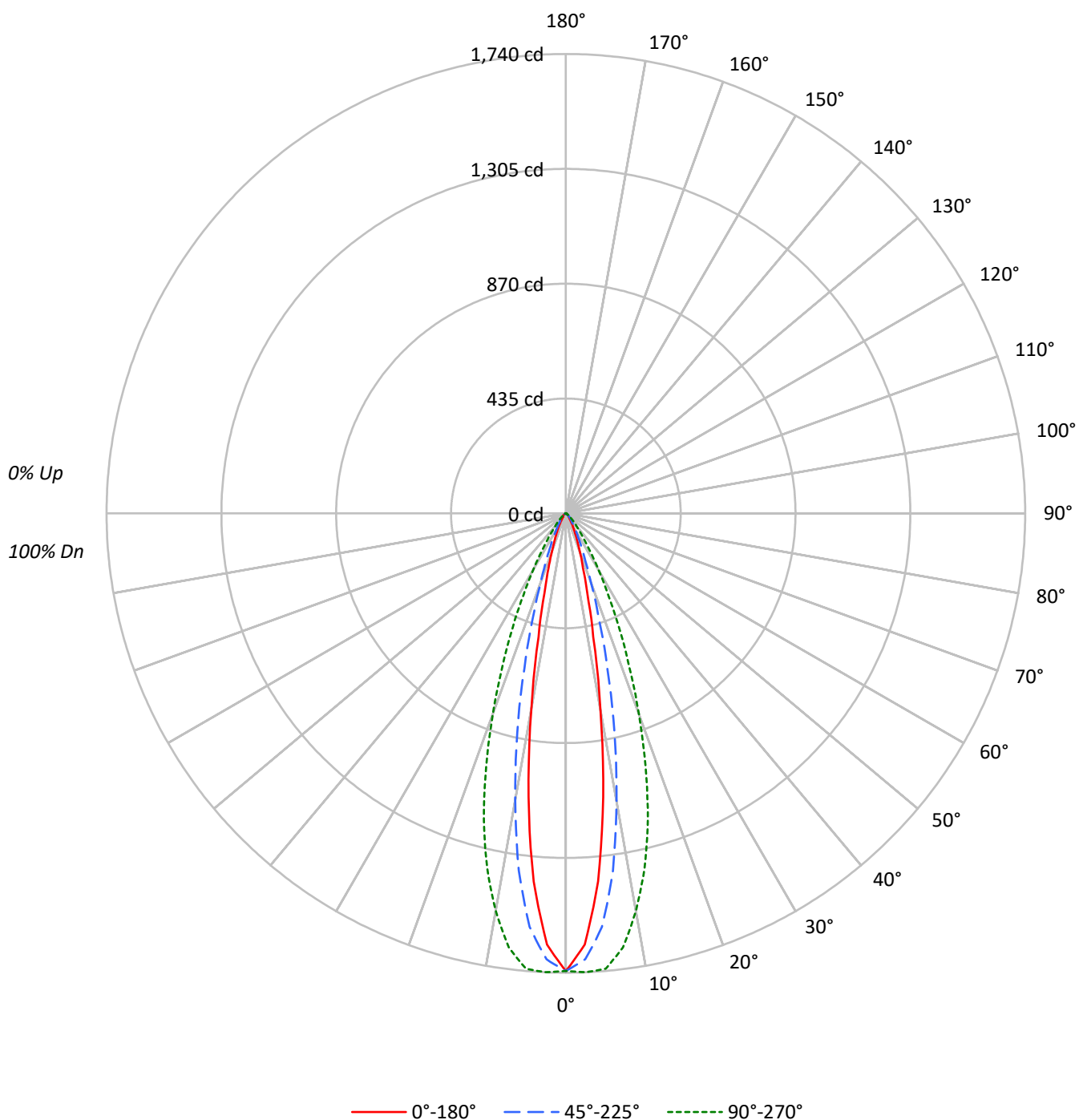
Lumens per Lamp: N/A  
Luminaire Lumens: 488.7 lumens  
Efficiency: N/A  
Efficacy: 69.8 lumens/watt  
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 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

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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  | 87  | 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°  | 855391 | 855391 | 855391 |
| 5°  | 693345 | 778725 | 857618 |
| 10° | 376982 | 552924 | 765837 |
| 15° | 159461 | 310290 | 612970 |
| 20° | 81379  | 145904 | 423852 |
| 25° | 45073  | 74632  | 258355 |
| 30° | 25237  | 41473  | 140883 |
| 35° | 14635  | 25115  | 71792  |
| 40° | 10884  | 18999  | 39737  |
| 45° | 9559   | 12908  | 23513  |
| 50° | 10131  | 8520   | 12511  |
| 55° | 7225   | 5935   | 6795   |
| 60° | 4638   | 4144   | 4144   |
| 65° | 3736   | 3736   | 3736   |
| 70° | 3029   | 3029   | 3029   |
| 75° | 3050   | 3050   | 3050   |
| 80° | 3125   | 3125   | 3125   |
| 85° | 2830   | 2830   | 2830   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 23513 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 135.1  | 27.6      |
| 10°-20°   | 191.0  | 39.1      |
| 20°-30°   | 98.4   | 20.1      |
| 30°-40°   | 36.2   | 7.4       |
| 40°-50°   | 15.9   | 3.3       |
| 50°-60°   | 7.0    | 1.4       |
| 60°-70°   | 3.0    | 0.6       |
| 70°-80°   | 1.6    | 0.3       |
| 80°-90°   | 0.4    | 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°    | 424.5  | 86.9      |
| 0°-40°    | 460.8  | 94.3      |
| 0°-60°    | 483.6  | 99.0      |
| 0°-90°    | 488.7  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 488.7  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1734 | 1734  | 1734 | 1734  | 1734 |      |
| 5°  | 1400 | 1448  | 1572 | 1684  | 1732 | 113  |
| 15° | 312  | 363   | 608  | 1014  | 1200 | 95   |
| 25° | 83   | 93    | 137  | 315   | 475  | 40   |
| 35° | 24   | 28    | 42   | 73    | 119  | 16   |
| 45° | 14   | 16    | 18   | 22    | 34   | 11   |
| 55° | 8    | 7     | 7    | 7     | 8    | 8    |
| 65° | 3    | 3     | 3    | 3     | 3    | 3    |
| 75° | 2    | 2     | 2    | 2     | 2    | 2    |
| 85° | 0    | 0     | 0    | 0     | 0    | 0    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1733.8 | 1733.8 | 1733.8 | 1733.8 | 1733.8 |
| 2.5°  | 1634.7 | 1654.2 | 1690.5 | 1725.3 | 1739.6 |
| 5°    | 1400.0 | 1447.5 | 1572.4 | 1683.7 | 1731.7 |
| 7.5°  | 1084.1 | 1162.2 | 1364.7 | 1573.0 | 1658.4 |
| 10°   | 752.5  | 831.6  | 1103.7 | 1403.2 | 1528.7 |
| 12.5° | 479.8  | 556.8  | 850.5  | 1214.9 | 1377.9 |
| 15°   | 312.2  | 362.8  | 607.5  | 1013.5 | 1200.1 |
| 17.5° | 216.7  | 252.6  | 413.4  | 799.9  | 1003.5 |
| 20°   | 155.0  | 180.3  | 277.9  | 610.1  | 807.3  |
| 22.5° | 112.3  | 129.7  | 193.0  | 445.6  | 627.5  |
| 25°   | 82.8   | 92.8   | 137.1  | 314.8  | 474.6  |
| 27.5° | 61.2   | 67.5   | 99.1   | 217.3  | 347.0  |
| 30°   | 44.3   | 49.6   | 72.8   | 149.2  | 247.3  |
| 32.5° | 32.2   | 36.9   | 54.3   | 103.4  | 172.4  |
| 35°   | 24.3   | 27.9   | 41.7   | 72.8   | 119.2  |
| 37.5° | 20.0   | 22.1   | 34.3   | 52.7   | 84.4   |
| 40°   | 16.9   | 19.0   | 29.5   | 39.0   | 61.7   |
| 42.5° | 14.8   | 17.4   | 24.3   | 29.0   | 46.4   |
| 45°   | 13.7   | 15.8   | 18.5   | 22.1   | 33.7   |
| 47.5° | 13.7   | 13.2   | 14.2   | 16.9   | 23.7   |
| 50°   | 13.2   | 11.1   | 11.1   | 13.2   | 16.3   |
| 52.5° | 11.1   | 9.0    | 9.0    | 9.5    | 11.1   |
| 55°   | 8.4    | 7.4    | 6.9    | 7.4    | 7.9    |
| 57.5° | 6.3    | 6.3    | 5.8    | 5.3    | 5.8    |
| 60°   | 4.7    | 4.7    | 4.2    | 4.2    | 4.2    |
| 62.5° | 3.7    | 3.7    | 3.7    | 3.2    | 3.7    |
| 65°   | 3.2    | 3.2    | 3.2    | 2.6    | 3.2    |
| 67.5° | 2.6    | 2.6    | 2.1    | 2.6    | 2.6    |
| 70°   | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    |
| 72.5° | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    |
| 75°   | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    |
| 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° | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    |
| 85°   | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    |
| 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)