

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: P1178164

Luminaire Tested: LDA2B058030R2040D010 2LBDC1MW

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1178164  
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: LDA2B058030R2040D010 2LBDC1MW  
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

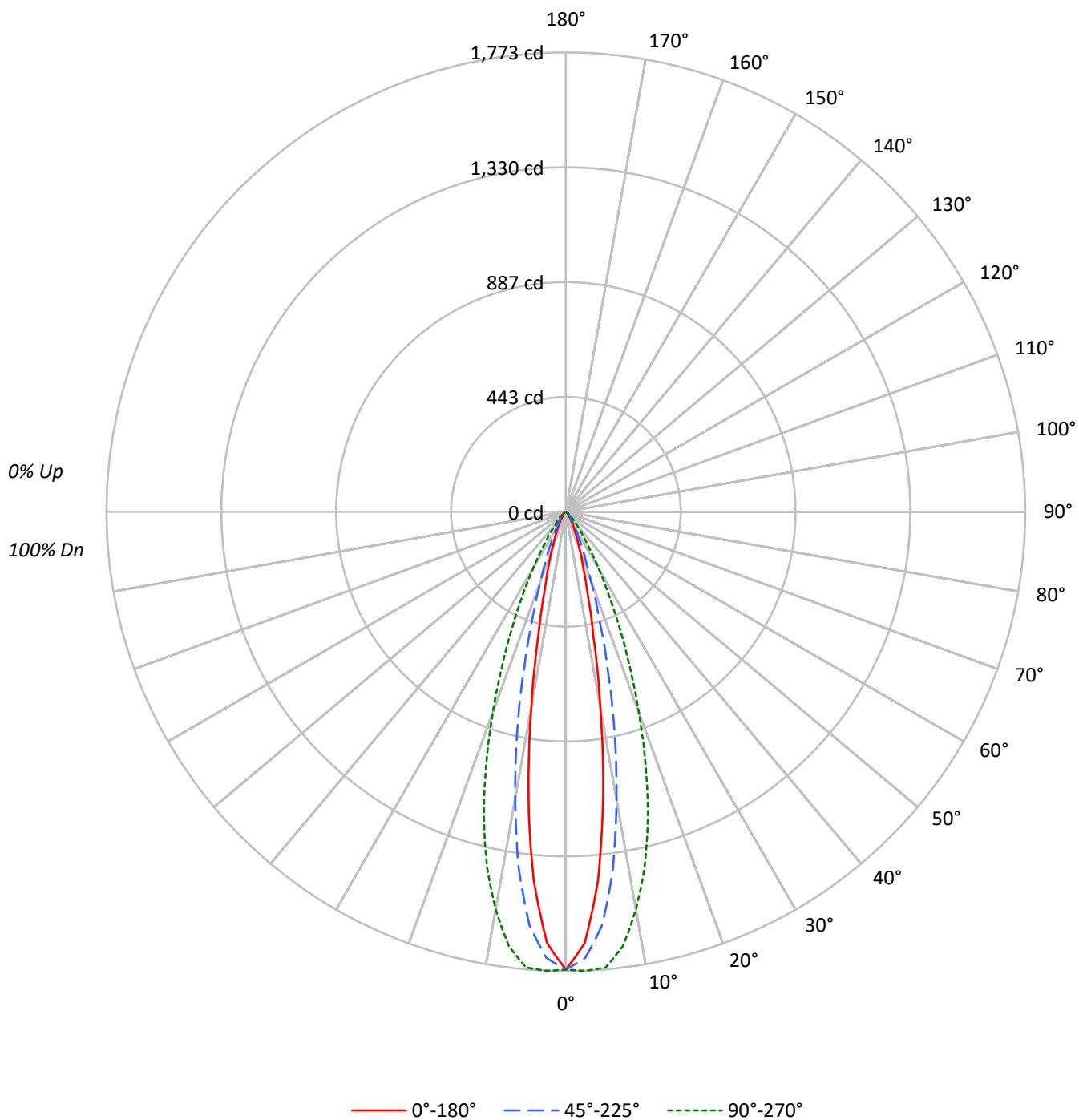
Lumens per Lamp: N/A  
Luminaire Lumens: 498.0 lumens  
Efficiency: N/A  
Efficacy: 71.1 lumens/watt  
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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 | 100 | 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 | 96  | 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   | 95  | 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°  | 871869 | 871869 | 871869 |
| 5°  | 706717 | 793731 | 874159 |
| 10° | 384246 | 563544 | 780566 |
| 15° | 162526 | 316266 | 624820 |
| 20° | 82954  | 148687 | 432043 |
| 25° | 45944  | 76048  | 263309 |
| 30° | 25693  | 42271  | 143618 |
| 35° | 14876  | 25597  | 73177  |
| 40° | 11077  | 19386  | 40510  |
| 45° | 9768   | 13117  | 24002  |
| 50° | 10285  | 8673   | 12818  |
| 55° | 7397   | 6021   | 6967   |
| 60° | 4736   | 4243   | 4243   |
| 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: 24002 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 137.7  | 27.6      |
| 10°-20°   | 194.7  | 39.1      |
| 20°-30°   | 100.3  | 20.1      |
| 30°-40°   | 36.9   | 7.4       |
| 40°-50°   | 16.2   | 3.3       |
| 50°-60°   | 7.1    | 1.4       |
| 60°-70°   | 3.1    | 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°    | 432.7  | 86.9      |
| 0°-40°    | 469.6  | 94.3      |
| 0°-60°    | 492.9  | 99.0      |
| 0°-90°    | 498.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 498.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1767 | 1767  | 1767 | 1767  | 1767 |      |
| 5°  | 1427 | 1475  | 1603 | 1716  | 1765 | 115  |
| 15° | 318  | 370   | 619  | 1033  | 1223 | 97   |
| 25° | 84   | 95    | 140  | 321   | 484  | 40   |
| 35° | 25   | 28    | 42   | 74    | 122  | 17   |
| 45° | 14   | 16    | 19   | 23    | 34   | 11   |
| 55° | 9    | 8     | 7    | 8     | 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°    | 1767.2 | 1767.2 | 1767.2 | 1767.2 | 1767.2 |
| 2.5°  | 1666.2 | 1686.1 | 1723.1 | 1758.6 | 1773.1 |
| 5°    | 1427.0 | 1475.4 | 1602.7 | 1716.2 | 1765.1 |
| 7.5°  | 1105.0 | 1184.6 | 1391.0 | 1603.3 | 1690.4 |
| 10°   | 767.0  | 847.6  | 1124.9 | 1430.2 | 1558.1 |
| 12.5° | 489.1  | 567.6  | 866.9  | 1238.3 | 1404.4 |
| 15°   | 318.2  | 369.8  | 619.2  | 1033.0 | 1223.3 |
| 17.5° | 220.9  | 257.4  | 421.4  | 815.3  | 1022.8 |
| 20°   | 158.0  | 183.8  | 283.2  | 621.9  | 822.9  |
| 22.5° | 114.5  | 132.2  | 196.7  | 454.2  | 639.6  |
| 25°   | 84.4   | 94.6   | 139.7  | 320.9  | 483.7  |
| 27.5° | 62.3   | 68.8   | 101.0  | 221.4  | 353.7  |
| 30°   | 45.1   | 50.5   | 74.2   | 152.1  | 252.1  |
| 32.5° | 32.8   | 37.6   | 55.4   | 105.3  | 175.8  |
| 35°   | 24.7   | 28.5   | 42.5   | 74.2   | 121.5  |
| 37.5° | 20.4   | 22.6   | 34.9   | 53.7   | 86.0   |
| 40°   | 17.2   | 19.3   | 30.1   | 39.8   | 62.9   |
| 42.5° | 15.0   | 17.7   | 24.7   | 29.6   | 47.3   |
| 45°   | 14.0   | 16.1   | 18.8   | 22.6   | 34.4   |
| 47.5° | 14.0   | 13.4   | 14.5   | 17.2   | 24.2   |
| 50°   | 13.4   | 11.3   | 11.3   | 13.4   | 16.7   |
| 52.5° | 11.3   | 9.1    | 9.1    | 9.7    | 11.3   |
| 55°   | 8.6    | 7.5    | 7.0    | 7.5    | 8.1    |
| 57.5° | 6.4    | 6.4    | 5.9    | 5.4    | 5.9    |
| 60°   | 4.8    | 4.8    | 4.3    | 4.3    | 4.3    |
| 62.5° | 3.8    | 3.8    | 3.8    | 3.2    | 3.8    |
| 65°   | 3.2    | 3.2    | 3.2    | 2.7    | 3.2    |
| 67.5° | 2.7    | 2.7    | 2.1    | 2.7    | 2.7    |
| 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)