

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: P1178208

Luminaire Tested: LDA2B058035R2050D010 2LBD1MW

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1178208  
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: LDA2B058035R2050D010 2LBD1MW  
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

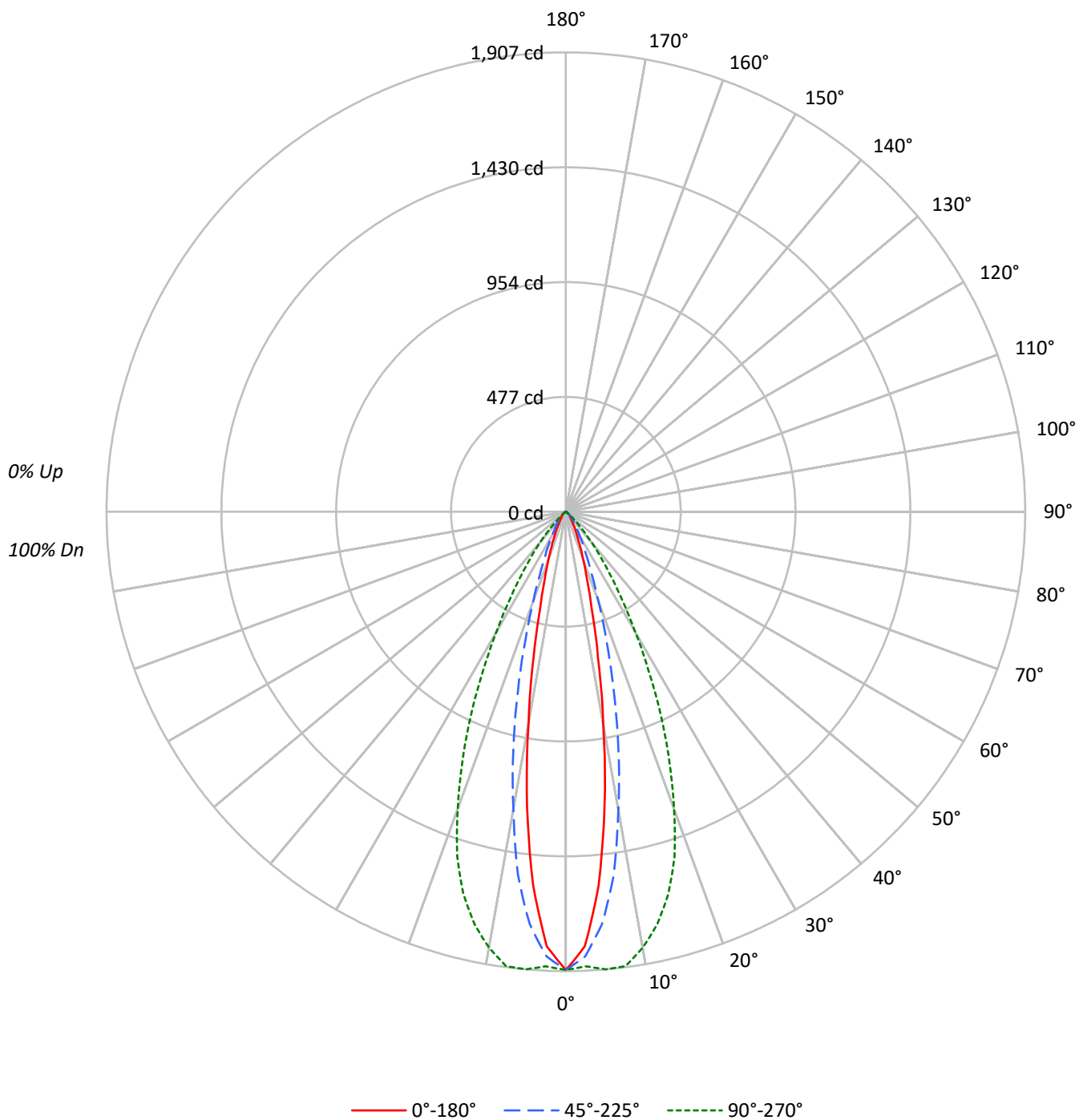
Lumens per Lamp: N/A  
Luminaire Lumens: 683.7 lumens  
Efficiency: N/A  
Efficacy: 97.7 lumens/watt  
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 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: P1178208

CATALOG NUMBER: LDA2B058035R2050D010 2LBD1MW

### Luminous Intensity Polar Plot



TEST NUMBER: P1178208

CATALOG NUMBER: LDA2B058035R2050D010 2LBD1MW

**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°  | 938325 | 938325 | 938325 |
| 5°  | 771445 | 851180 | 944286 |
| 10° | 447819 | 628971 | 920638 |
| 15° | 208648 | 391757 | 838984 |
| 20° | 109940 | 206545 | 689567 |
| 25° | 60860  | 111812 | 508600 |
| 30° | 35719  | 65514  | 328936 |
| 35° | 22947  | 43967  | 194899 |
| 40° | 17904  | 29626  | 108263 |
| 45° | 15489  | 17722  | 48143  |
| 50° | 13969  | 12204  | 17653  |
| 55° | 9548   | 8860   | 8171   |
| 60° | 7006   | 6216   | 6216   |
| 65° | 5603   | 4670   | 5603   |
| 70° | 4616   | 4616   | 4616   |
| 75° | 4575   | 4575   | 4575   |
| 80° | 4546   | 4546   | 4546   |
| 85° | 4529   | 4529   | 4529   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 48143 cd/sqm

TEST NUMBER: P1178208

CATALOG NUMBER: LDA2B058035R2050D010 2LBD1MW

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 151.4  | 22.1      |
| 10°-20°   | 248.0  | 36.3      |
| 20°-30°   | 165.4  | 24.2      |
| 30°-40°   | 74.6   | 10.9      |
| 40°-50°   | 27.3   | 4.0       |
| 50°-60°   | 9.5    | 1.4       |
| 60°-70°   | 4.5    | 0.7       |
| 70°-80°   | 2.4    | 0.3       |
| 80°-90°   | 0.7    | 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°    | 564.8  | 82.6      |
| 0°-40°    | 639.4  | 93.5      |
| 0°-60°    | 676.2  | 98.9      |
| 0°-90°    | 683.7  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 683.7  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1902 | 1902  | 1902 | 1902  | 1902 |      |
| 5°  | 1558 | 1606  | 1719 | 1844  | 1907 | 127  |
| 15° | 408  | 480   | 767  | 1296  | 1643 | 122  |
| 25° | 112  | 130   | 205  | 560   | 934  | 54   |
| 35° | 38   | 43    | 73   | 158   | 324  | 25   |
| 45° | 22   | 22    | 25   | 40    | 69   | 17   |
| 55° | 11   | 10    | 10   | 9     | 10   | 10   |
| 65° | 5    | 5     | 4    | 4     | 5    | 5    |
| 75° | 2    | 2     | 2    | 2     | 2    | 2    |
| 85° | 1    | 1     | 1    | 1     | 1    | 1    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

TEST NUMBER: P1178208

CATALOG NUMBER: LDA2B058035R2050D010 2LBD1MW

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1901.9 | 1901.9 | 1901.9 | 1901.9 | 1901.9 |
| 2.5°  | 1806.0 | 1825.0 | 1847.2 | 1870.2 | 1888.5 |
| 5°    | 1557.7 | 1606.1 | 1718.7 | 1844.0 | 1906.7 |
| 7.5°  | 1231.7 | 1303.1 | 1522.0 | 1769.5 | 1901.9 |
| 10°   | 893.9  | 985.1  | 1255.5 | 1640.2 | 1837.7 |
| 12.5° | 614.7  | 700.3  | 1007.3 | 1476.8 | 1752.8 |
| 15°   | 408.5  | 479.8  | 767.0  | 1296.0 | 1642.6 |
| 17.5° | 287.9  | 336.3  | 557.6  | 1098.5 | 1500.6 |
| 20°   | 209.4  | 241.9  | 393.4  | 905.0  | 1313.4 |
| 22.5° | 152.3  | 176.9  | 280.0  | 723.3  | 1123.9 |
| 25°   | 111.8  | 130.1  | 205.4  | 560.0  | 934.3  |
| 27.5° | 83.3   | 97.6   | 153.9  | 425.1  | 744.8  |
| 30°   | 62.7   | 74.6   | 115.0  | 313.3  | 577.4  |
| 32.5° | 48.4   | 56.3   | 88.0   | 223.7  | 437.0  |
| 35°   | 38.1   | 42.8   | 73.0   | 157.8  | 323.6  |
| 37.5° | 31.7   | 34.9   | 60.3   | 110.2  | 237.1  |
| 40°   | 27.8   | 30.1   | 46.0   | 78.5   | 168.1  |
| 42.5° | 24.6   | 26.2   | 33.3   | 56.3   | 109.5  |
| 45°   | 22.2   | 22.2   | 25.4   | 39.7   | 69.0   |
| 47.5° | 20.6   | 18.2   | 19.8   | 27.8   | 40.4   |
| 50°   | 18.2   | 15.1   | 15.9   | 19.0   | 23.0   |
| 52.5° | 14.3   | 12.7   | 12.7   | 12.7   | 13.5   |
| 55°   | 11.1   | 10.3   | 10.3   | 8.7    | 9.5    |
| 57.5° | 8.7    | 8.7    | 7.9    | 7.1    | 7.9    |
| 60°   | 7.1    | 7.1    | 6.3    | 5.6    | 6.3    |
| 62.5° | 5.6    | 5.6    | 4.8    | 4.8    | 5.6    |
| 65°   | 4.8    | 4.8    | 4.0    | 4.0    | 4.8    |
| 67.5° | 4.0    | 4.0    | 4.0    | 3.2    | 4.0    |
| 70°   | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    |
| 72.5° | 2.4    | 2.4    | 3.2    | 2.4    | 2.4    |
| 75°   | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    |
| 77.5° | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    |
| 80°   | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    |
| 82.5° | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    |
| 85°   | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    |
| 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)