

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: P1178437

Luminaire Tested: LDA2B059035R2050D010 2LBD1H

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1178437  
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: LDA2B059035R2050D010 2LBD1H  
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

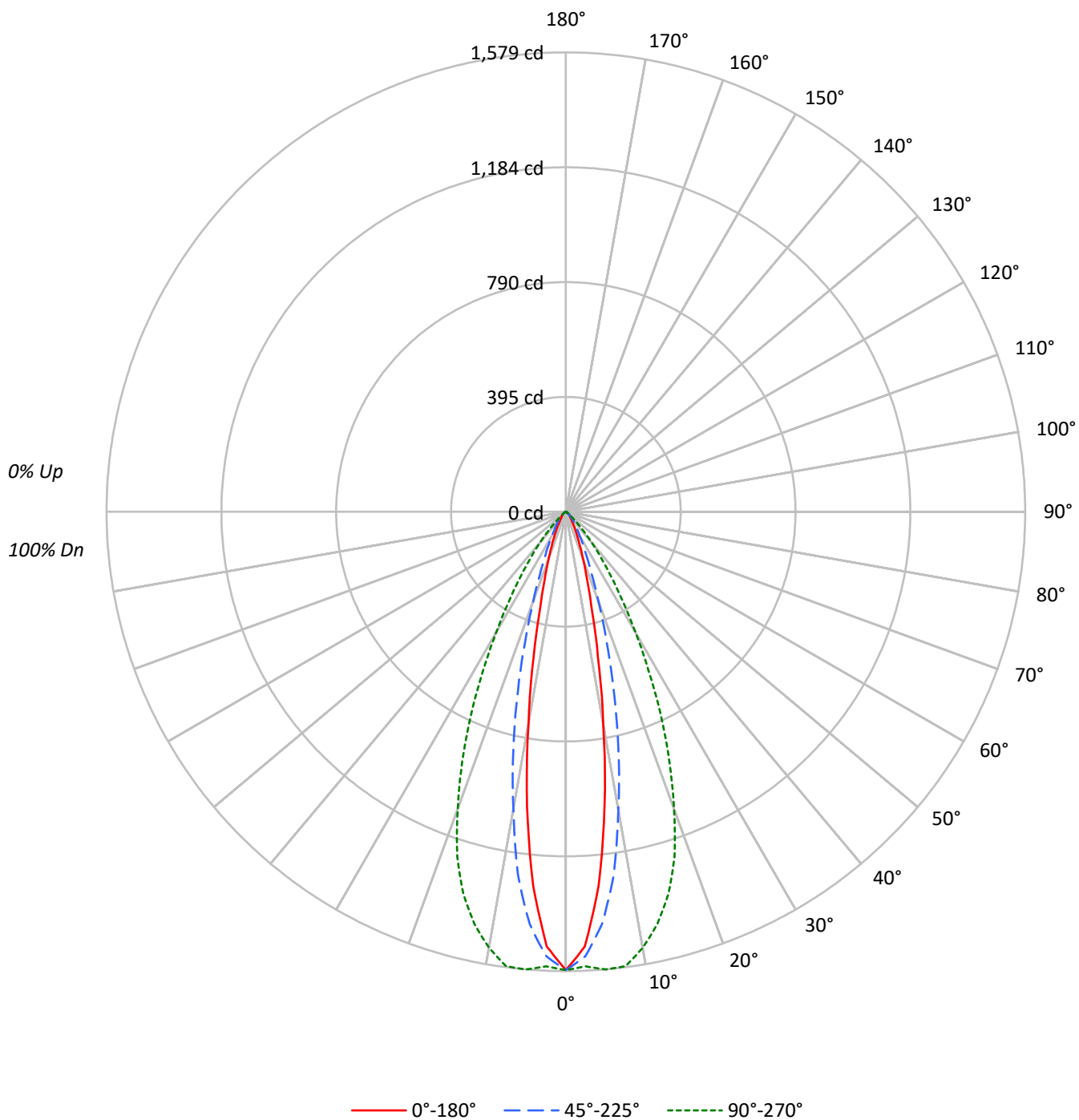
Lumens per Lamp: N/A  
Luminaire Lumens: 566.2 lumens  
Efficiency: N/A  
Efficacy: 80.9 lumens/watt  
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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

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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 | 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°  | 777143 | 777143 | 777143 |
| 5°  | 638917 | 704983 | 782044 |
| 10° | 370870 | 520911 | 762480 |
| 15° | 172792 | 324438 | 694846 |
| 20° | 91039  | 171053 | 571122 |
| 25° | 50408  | 92596  | 421229 |
| 30° | 29567  | 54234  | 272423 |
| 35° | 18972  | 36378  | 161412 |
| 40° | 14813  | 24538  | 89715  |
| 45° | 12838  | 14652  | 39840  |
| 50° | 11590  | 10055  | 14583  |
| 55° | 7913   | 7311   | 6795   |
| 60° | 5822   | 5230   | 5230   |
| 65° | 4553   | 3852   | 4553   |
| 70° | 3750   | 3750   | 3750   |
| 75° | 3812   | 3812   | 3812   |
| 80° | 3694   | 3694   | 3694   |
| 85° | 3962   | 3962   | 3962   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 39840 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 125.4  | 22.2      |
| 10°-20°   | 205.4  | 36.3      |
| 20°-30°   | 137.0  | 24.2      |
| 30°-40°   | 61.7   | 10.9      |
| 40°-50°   | 22.6   | 4.0       |
| 50°-60°   | 7.9    | 1.4       |
| 60°-70°   | 3.7    | 0.7       |
| 70°-80°   | 2.0    | 0.3       |
| 80°-90°   | 0.6    | 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°    | 467.8  | 82.6      |
| 0°-40°    | 529.5  | 93.5      |
| 0°-60°    | 560.0  | 98.9      |
| 0°-90°    | 566.2  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 566.2  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1575 | 1575  | 1575 | 1575  | 1575 |      |
| 5°  | 1290 | 1330  | 1424 | 1527  | 1579 | 105  |
| 15° | 338  | 397   | 635  | 1073  | 1360 | 101  |
| 25° | 93   | 108   | 170  | 464   | 774  | 45   |
| 35° | 32   | 36    | 60   | 131   | 268  | 21   |
| 45° | 18   | 18    | 21   | 33    | 57   | 14   |
| 55° | 9    | 8     | 8    | 7     | 8    | 9    |
| 65° | 4    | 4     | 3    | 3     | 4    | 4    |
| 75° | 2    | 2     | 2    | 2     | 2    | 2    |
| 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°    | 1575.2 | 1575.2 | 1575.2 | 1575.2 | 1575.2 |
| 2.5°  | 1495.7 | 1511.5 | 1529.9 | 1548.9 | 1564.0 |
| 5°    | 1290.1 | 1330.2 | 1423.5 | 1527.2 | 1579.1 |
| 7.5°  | 1020.1 | 1079.3 | 1260.5 | 1465.5 | 1575.2 |
| 10°   | 740.3  | 815.8  | 1039.8 | 1358.4 | 1522.0 |
| 12.5° | 509.1  | 580.0  | 834.2  | 1223.1 | 1451.7 |
| 15°   | 338.3  | 397.4  | 635.2  | 1073.3 | 1360.4 |
| 17.5° | 238.4  | 278.5  | 461.8  | 909.8  | 1242.8 |
| 20°   | 173.4  | 200.3  | 325.8  | 749.5  | 1087.8 |
| 22.5° | 126.1  | 146.5  | 231.9  | 599.1  | 930.8  |
| 25°   | 92.6   | 107.7  | 170.1  | 463.8  | 773.8  |
| 27.5° | 69.0   | 80.8   | 127.4  | 352.1  | 616.8  |
| 30°   | 51.9   | 61.7   | 95.2   | 259.5  | 478.2  |
| 32.5° | 40.1   | 46.6   | 72.9   | 185.2  | 361.9  |
| 35°   | 31.5   | 35.5   | 60.4   | 130.7  | 268.0  |
| 37.5° | 26.3   | 28.9   | 49.9   | 91.3   | 196.4  |
| 40°   | 23.0   | 25.0   | 38.1   | 65.0   | 139.3  |
| 42.5° | 20.4   | 21.7   | 27.6   | 46.6   | 90.6   |
| 45°   | 18.4   | 18.4   | 21.0   | 32.8   | 57.1   |
| 47.5° | 17.1   | 15.1   | 16.4   | 23.0   | 33.5   |
| 50°   | 15.1   | 12.5   | 13.1   | 15.8   | 19.0   |
| 52.5° | 11.8   | 10.5   | 10.5   | 10.5   | 11.2   |
| 55°   | 9.2    | 8.5    | 8.5    | 7.2    | 7.9    |
| 57.5° | 7.2    | 7.2    | 6.6    | 5.9    | 6.6    |
| 60°   | 5.9    | 5.9    | 5.3    | 4.6    | 5.3    |
| 62.5° | 4.6    | 4.6    | 3.9    | 3.9    | 4.6    |
| 65°   | 3.9    | 3.9    | 3.3    | 3.3    | 3.9    |
| 67.5° | 3.3    | 3.3    | 3.3    | 2.6    | 3.3    |
| 70°   | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    |
| 72.5° | 2.0    | 2.0    | 2.6    | 2.0    | 2.0    |
| 75°   | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    |
| 77.5° | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    |
| 80°   | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    |
| 82.5° | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    |
| 85°   | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    |
| 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)