

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: P1178927

Luminaire Tested: LDA2B109035R2040D010 2LBD1GPH

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1178927  
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: LDA2B109035R2040D010 2LBD1GPH  
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

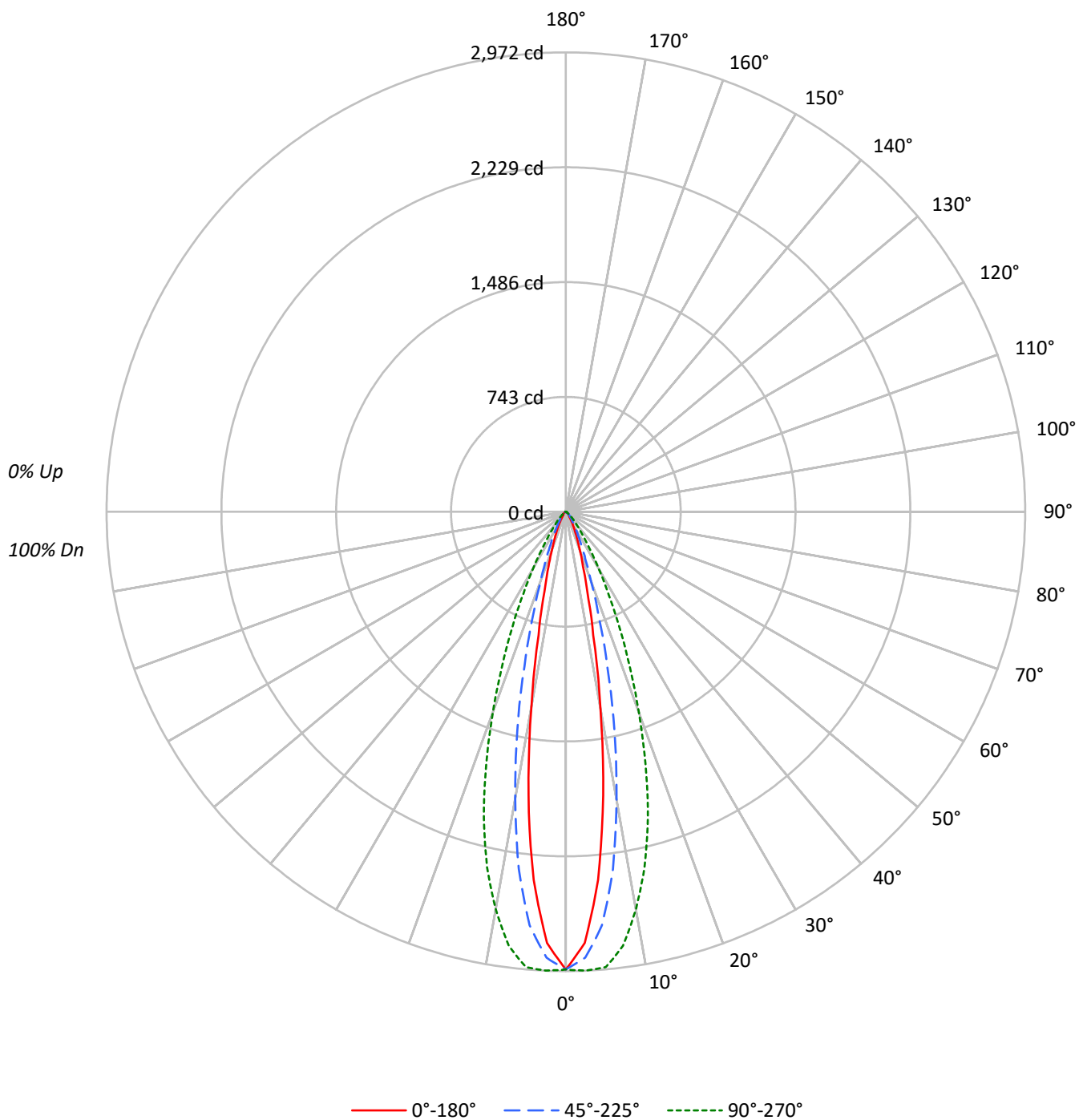
Lumens per Lamp: N/A  
Luminaire Lumens: 834.7 lumens  
Efficiency: N/A  
Efficacy: 83.5 lumens/watt  
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 10  
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  |     |     | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  | 30  | 10  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 | 100 |
| 1   | 114 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 104 | 103 |  | 102 | 101 | 100 |  | 99  | 98  | 97  | 95  |
| 2   | 110 | 106 | 102 | 99  | 108 | 104 | 101 | 98  | 101 | 98  | 96  |  | 98  | 96  | 94  |  | 95  | 94  | 92  | 91  |
| 3   | 106 | 100 | 96  | 93  | 104 | 99  | 95  | 92  | 96  | 93  | 91  |  | 94  | 92  | 89  |  | 92  | 90  | 88  | 87  |
| 4   | 102 | 95  | 91  | 88  | 100 | 94  | 90  | 87  | 92  | 89  | 86  |  | 90  | 87  | 85  |  | 89  | 86  | 84  | 83  |
| 5   | 98  | 91  | 86  | 83  | 97  | 90  | 86  | 83  | 89  | 85  | 82  |  | 87  | 84  | 81  |  | 86  | 83  | 81  | 79  |
| 6   | 95  | 87  | 83  | 79  | 93  | 87  | 82  | 79  | 85  | 81  | 78  |  | 84  | 80  | 78  |  | 83  | 80  | 77  | 76  |
| 7   | 91  | 84  | 79  | 76  | 90  | 83  | 79  | 75  | 82  | 78  | 75  |  | 81  | 77  | 75  |  | 80  | 77  | 74  | 73  |
| 8   | 88  | 81  | 76  | 73  | 87  | 80  | 76  | 72  | 79  | 75  | 72  |  | 78  | 75  | 72  |  | 77  | 74  | 72  | 70  |
| 9   | 85  | 78  | 73  | 70  | 84  | 77  | 73  | 70  | 76  | 72  | 70  |  | 76  | 72  | 69  |  | 75  | 72  | 69  | 68  |
| 10  | 83  | 75  | 70  | 67  | 82  | 75  | 70  | 67  | 74  | 70  | 67  |  | 73  | 70  | 67  |  | 73  | 69  | 67  | 66  |

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

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 1461140 | 1461140 | 1461140 |
| 5°  | 1184332 | 1330232 | 1464939 |
| 10° | 643900  | 944434  | 1308140 |
| 15° | 272340  | 529970  | 1047121 |
| 20° | 139027  | 249229  | 724009  |
| 25° | 76973   | 127490  | 441316  |
| 30° | 43125   | 70812   | 240635  |
| 35° | 24935   | 42883   | 122625  |
| 40° | 18548   | 32460   | 67882   |
| 45° | 16327   | 21978   | 40189   |
| 50° | 17270   | 14506   | 21414   |
| 55° | 12386   | 10064   | 11612   |
| 60° | 7992    | 7104    | 7104    |
| 65° | 6304    | 6304    | 6304    |
| 70° | 5193    | 5193    | 5193    |
| 75° | 5147    | 5147    | 5147    |
| 80° | 5114    | 5114    | 5114    |
| 85° | 5095    | 5095    | 5095    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 40189 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 230.8  | 27.6      |
| 10°-20°   | 326.3  | 39.1      |
| 20°-30°   | 168.1  | 20.1      |
| 30°-40°   | 61.9   | 7.4       |
| 40°-50°   | 27.2   | 3.3       |
| 50°-60°   | 11.9   | 1.4       |
| 60°-70°   | 5.2    | 0.6       |
| 70°-80°   | 2.6    | 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°    | 725.2  | 86.9      |
| 0°-40°    | 787.0  | 94.3      |
| 0°-60°    | 826.1  | 99.0      |
| 0°-90°    | 834.7  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 834.7  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2962 | 2962  | 2962 | 2962  | 2962 |      |
| 5°  | 2391 | 2472  | 2686 | 2876  | 2958 | 192  |
| 15° | 533  | 620   | 1038 | 1731  | 2050 | 163  |
| 25° | 141  | 158   | 234  | 538   | 811  | 68   |
| 35° | 41   | 48    | 71   | 124   | 204  | 28   |
| 45° | 23   | 27    | 32   | 38    | 58   | 19   |
| 55° | 14   | 13    | 12   | 13    | 14   | 13   |
| 65° | 5    | 5     | 5    | 4     | 5    | 5    |
| 75° | 3    | 3     | 3    | 3     | 3    | 3    |
| 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°    | 2961.6 | 2961.6 | 2961.6 | 2961.6 | 2961.6 |
| 2.5°  | 2792.3 | 2825.6 | 2887.7 | 2947.2 | 2971.5 |
| 5°    | 2391.4 | 2472.5 | 2686.0 | 2876.0 | 2958.0 |
| 7.5°  | 1851.9 | 1985.2 | 2331.1 | 2686.9 | 2832.8 |
| 10°   | 1285.3 | 1420.4 | 1885.2 | 2396.8 | 2611.2 |
| 12.5° | 819.7  | 951.2  | 1452.9 | 2075.3 | 2353.6 |
| 15°   | 533.2  | 619.7  | 1037.6 | 1731.2 | 2050.1 |
| 17.5° | 370.2  | 431.4  | 706.2  | 1366.4 | 1714.1 |
| 20°   | 264.8  | 308.0  | 474.7  | 1042.1 | 1379.0 |
| 22.5° | 191.9  | 221.6  | 329.7  | 761.1  | 1071.9 |
| 25°   | 141.4  | 158.5  | 234.2  | 537.7  | 810.7  |
| 27.5° | 104.5  | 115.3  | 169.3  | 371.1  | 592.7  |
| 30°   | 75.7   | 84.7   | 124.3  | 254.9  | 422.4  |
| 32.5° | 54.9   | 63.1   | 92.8   | 176.5  | 294.5  |
| 35°   | 41.4   | 47.7   | 71.2   | 124.3  | 203.6  |
| 37.5° | 34.2   | 37.8   | 58.5   | 90.1   | 144.1  |
| 40°   | 28.8   | 32.4   | 50.4   | 66.7   | 105.4  |
| 42.5° | 25.2   | 29.7   | 41.4   | 49.5   | 79.3   |
| 45°   | 23.4   | 27.0   | 31.5   | 37.8   | 57.6   |
| 47.5° | 23.4   | 22.5   | 24.3   | 28.8   | 40.5   |
| 50°   | 22.5   | 18.9   | 18.9   | 22.5   | 27.9   |
| 52.5° | 18.9   | 15.3   | 15.3   | 16.2   | 18.9   |
| 55°   | 14.4   | 12.6   | 11.7   | 12.6   | 13.5   |
| 57.5° | 10.8   | 10.8   | 9.9    | 9.0    | 9.9    |
| 60°   | 8.1    | 8.1    | 7.2    | 7.2    | 7.2    |
| 62.5° | 6.3    | 6.3    | 6.3    | 5.4    | 6.3    |
| 65°   | 5.4    | 5.4    | 5.4    | 4.5    | 5.4    |
| 67.5° | 4.5    | 4.5    | 3.6    | 4.5    | 4.5    |
| 70°   | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    |
| 72.5° | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    |
| 75°   | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    |
| 77.5° | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    |
| 80°   | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    |
| 82.5° | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    |
| 85°   | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    |
| 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)