

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: P1179011

Luminaire Tested: LDA2B109050R2040D010 2LBD1WH

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1179011  
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: LDA2B109050R2040D010 2LBD1WH  
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

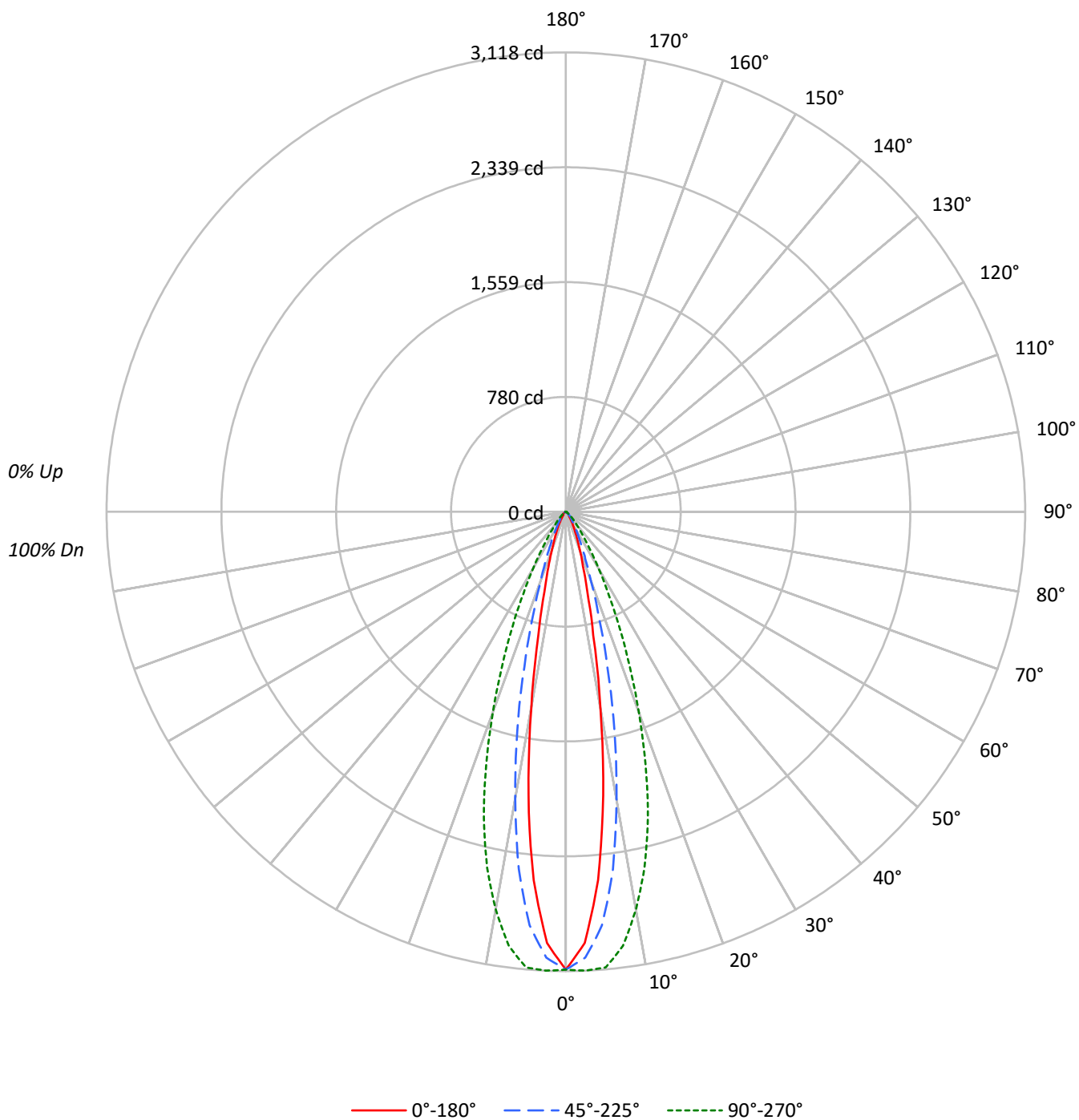
Lumens per Lamp: N/A  
Luminaire Lumens: 875.7 lumens  
Efficiency: N/A  
Efficacy: 87.6 lumens/watt  
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | 99 | 99 |
| 1   | 114 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 104 | 103 | 102 | 101 | 100 | 99  | 98  | 97  | 95  | 94 | 93 |
| 2   | 110 | 106 | 102 | 99  | 108 | 104 | 101 | 98  | 101 | 98  | 96  | 98  | 96  | 94  | 95  | 94  | 92  | 91  | 90 | 89 |
| 3   | 106 | 100 | 96  | 93  | 104 | 99  | 95  | 92  | 96  | 93  | 91  | 94  | 92  | 89  | 92  | 90  | 88  | 87  | 86 | 85 |
| 4   | 102 | 96  | 91  | 88  | 100 | 94  | 90  | 87  | 92  | 89  | 86  | 90  | 87  | 85  | 89  | 86  | 84  | 83  | 82 | 81 |
| 5   | 98  | 91  | 86  | 83  | 97  | 90  | 86  | 83  | 89  | 85  | 82  | 87  | 84  | 81  | 86  | 83  | 81  | 79  | 78 | 77 |
| 6   | 95  | 87  | 83  | 79  | 93  | 87  | 82  | 79  | 85  | 81  | 78  | 84  | 80  | 78  | 83  | 80  | 77  | 76  | 75 | 74 |
| 7   | 91  | 84  | 79  | 76  | 90  | 83  | 79  | 75  | 82  | 78  | 75  | 81  | 77  | 75  | 80  | 77  | 74  | 73  | 72 | 71 |
| 8   | 88  | 81  | 76  | 73  | 87  | 80  | 76  | 72  | 79  | 75  | 72  | 78  | 75  | 72  | 77  | 74  | 72  | 70  | 69 | 68 |
| 9   | 85  | 78  | 73  | 70  | 84  | 77  | 73  | 70  | 76  | 72  | 70  | 76  | 72  | 69  | 75  | 72  | 69  | 68  | 67 | 66 |
| 10  | 83  | 75  | 70  | 67  | 82  | 75  | 70  | 67  | 74  | 70  | 67  | 73  | 70  | 67  | 73  | 69  | 67  | 66  | 65 | 64 |

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

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 1533023 | 1533023 | 1533023 |
| 5°  | 1242623 | 1395654 | 1536997 |
| 10° | 675612  | 990924  | 1372515 |
| 15° | 285773  | 556071  | 1098606 |
| 20° | 145852  | 261462  | 759658  |
| 25° | 80784   | 133750  | 462982  |
| 30° | 45233   | 74287   | 252484  |
| 35° | 26199   | 44991   | 128648  |
| 40° | 19450   | 34070   | 71231   |
| 45° | 17164   | 23094   | 42212   |
| 50° | 18114   | 15197   | 22489   |
| 55° | 12988   | 10580   | 12214   |
| 60° | 8387    | 7499    | 7499    |
| 65° | 6654    | 6654    | 6654    |
| 70° | 5481    | 5481    | 5481    |
| 75° | 5337    | 5337    | 5337    |
| 80° | 5398    | 5398    | 5398    |
| 85° | 5095    | 5095    | 5095    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 42212 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 242.1  | 27.6      |
| 10°-20°   | 342.4  | 39.1      |
| 20°-30°   | 176.4  | 20.1      |
| 30°-40°   | 64.9   | 7.4       |
| 40°-50°   | 28.5   | 3.3       |
| 50°-60°   | 12.5   | 1.4       |
| 60°-70°   | 5.5    | 0.6       |
| 70°-80°   | 2.7    | 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       |
| 0°-30°    | 760.9  | 86.9      |
| 0°-40°    | 825.8  | 94.3      |
| 0°-60°    | 866.8  | 99.0      |
| 0°-90°    | 875.7  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 875.7  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 3107 | 3107  | 3107 | 3107  | 3107 |      |
| 5°  | 2509 | 2594  | 2818 | 3018  | 3104 | 202  |
| 15° | 560  | 650   | 1089 | 1816  | 2151 | 171  |
| 25° | 148  | 166   | 246  | 564   | 850  | 71   |
| 35° | 44   | 50    | 75   | 130   | 214  | 30   |
| 45° | 25   | 28    | 33   | 40    | 60   | 20   |
| 55° | 15   | 13    | 12   | 13    | 14   | 14   |
| 65° | 6    | 6     | 6    | 5     | 6    | 6    |
| 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°    | 3107.3 | 3107.3 | 3107.3 | 3107.3 | 3107.3 |
| 2.5°  | 2929.6 | 2964.6 | 3029.8 | 3092.2 | 3117.7 |
| 5°    | 2509.1 | 2594.2 | 2818.1 | 3017.5 | 3103.5 |
| 7.5°  | 1943.0 | 2082.9 | 2445.8 | 2819.1 | 2972.2 |
| 10°   | 1348.6 | 1490.3 | 1978.0 | 2514.8 | 2739.7 |
| 12.5° | 860.0  | 998.0  | 1524.4 | 2177.4 | 2469.4 |
| 15°   | 559.5  | 650.2  | 1088.7 | 1816.4 | 2150.9 |
| 17.5° | 388.4  | 452.7  | 740.9  | 1433.6 | 1798.4 |
| 20°   | 277.8  | 323.2  | 498.0  | 1093.4 | 1446.9 |
| 22.5° | 201.3  | 232.5  | 345.9  | 798.6  | 1124.6 |
| 25°   | 148.4  | 166.3  | 245.7  | 564.2  | 850.5  |
| 27.5° | 109.6  | 121.0  | 177.7  | 389.4  | 621.8  |
| 30°   | 79.4   | 88.8   | 130.4  | 267.4  | 443.2  |
| 32.5° | 57.6   | 66.2   | 97.3   | 185.2  | 309.0  |
| 35°   | 43.5   | 50.1   | 74.7   | 130.4  | 213.6  |
| 37.5° | 35.9   | 39.7   | 61.4   | 94.5   | 151.2  |
| 40°   | 30.2   | 34.0   | 52.9   | 69.9   | 110.6  |
| 42.5° | 26.5   | 31.2   | 43.5   | 52.0   | 83.2   |
| 45°   | 24.6   | 28.4   | 33.1   | 39.7   | 60.5   |
| 47.5° | 24.6   | 23.6   | 25.5   | 30.2   | 42.5   |
| 50°   | 23.6   | 19.8   | 19.8   | 23.6   | 29.3   |
| 52.5° | 19.8   | 16.1   | 16.1   | 17.0   | 19.8   |
| 55°   | 15.1   | 13.2   | 12.3   | 13.2   | 14.2   |
| 57.5° | 11.3   | 11.3   | 10.4   | 9.5    | 10.4   |
| 60°   | 8.5    | 8.5    | 7.6    | 7.6    | 7.6    |
| 62.5° | 6.6    | 6.6    | 6.6    | 5.7    | 6.6    |
| 65°   | 5.7    | 5.7    | 5.7    | 4.7    | 5.7    |
| 67.5° | 4.7    | 4.7    | 3.8    | 4.7    | 4.7    |
| 70°   | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    |
| 72.5° | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    |
| 75°   | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    |
| 77.5° | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    |
| 80°   | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    |
| 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)