

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: P1179007

Luminaire Tested: LDA2B109050R2040D010 2LBD1LI

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1179007  
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 2LBD1LI  
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

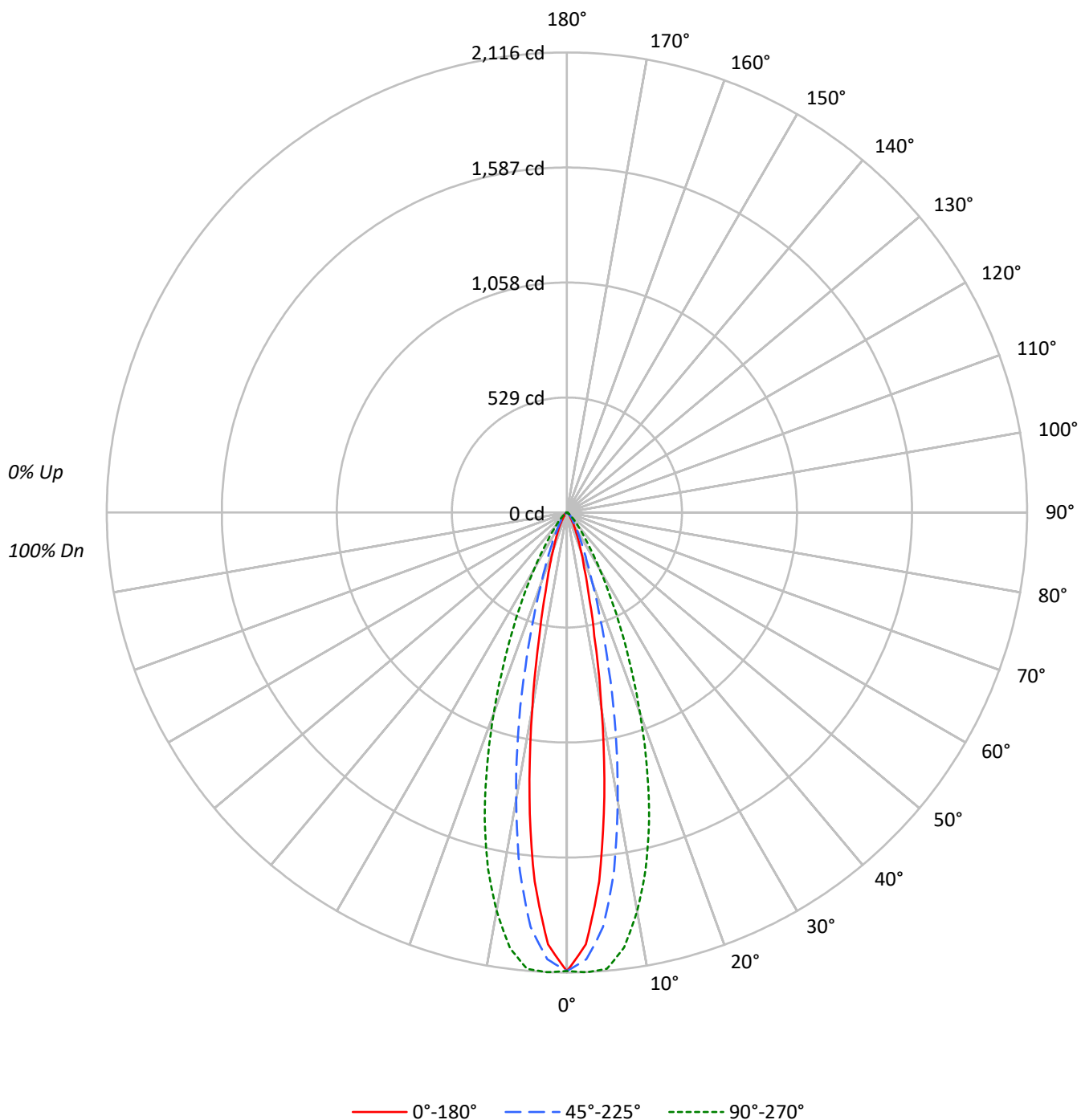
Lumens per Lamp: N/A  
Luminaire Lumens: 594.5 lumens  
Efficiency: N/A  
Efficacy: 59.4 lumens/watt  
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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 | 100 | 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°  | 1040697 | 1040697 | 1040697 |
| 5°  | 843553  | 947456  | 1043385 |
| 10° | 458640  | 672656  | 931709  |
| 15° | 193989  | 377507  | 745769  |
| 20° | 99020   | 177511  | 515679  |
| 25° | 54818   | 90800   | 314316  |
| 30° | 30706   | 50417   | 171418  |
| 35° | 17767   | 30536   | 87331   |
| 40° | 13203   | 23121   | 48367   |
| 45° | 11652   | 15699   | 28676   |
| 50° | 12281   | 10362   | 15274   |
| 55° | 8860    | 7139    | 8257    |
| 60° | 5723    | 5032    | 5032    |
| 65° | 4436    | 4436    | 4436    |
| 70° | 3750    | 3750    | 3750    |
| 75° | 3622    | 3622    | 3622    |
| 80° | 3694    | 3694    | 3694    |
| 85° | 3396    | 3396    | 3396    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 28676 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 164.4  | 27.6      |
| 10°-20°   | 232.4  | 39.1      |
| 20°-30°   | 119.7  | 20.1      |
| 30°-40°   | 44.1   | 7.4       |
| 40°-50°   | 19.4   | 3.3       |
| 50°-60°   | 8.5    | 1.4       |
| 60°-70°   | 3.7    | 0.6       |
| 70°-80°   | 1.9    | 0.3       |
| 80°-90°   | 0.5    | 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°    | 516.5  | 86.9      |
| 0°-40°    | 560.6  | 94.3      |
| 0°-60°    | 588.4  | 99.0      |
| 0°-90°    | 594.5  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 594.5  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2109 | 2109  | 2109 | 2109  | 2109 |      |
| 5°  | 1703 | 1761  | 1913 | 2048  | 2107 | 137  |
| 15° | 380  | 441   | 739  | 1233  | 1460 | 116  |
| 25° | 101  | 113   | 167  | 383   | 577  | 48   |
| 35° | 30   | 34    | 51   | 88    | 145  | 20   |
| 45° | 17   | 19    | 22   | 27    | 41   | 13   |
| 55° | 10   | 9     | 8    | 9     | 10   | 9    |
| 65° | 4    | 4     | 4    | 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°    | 2109.4 | 2109.4 | 2109.4 | 2109.4 | 2109.4 |
| 2.5°  | 1988.8 | 2012.5 | 2056.8 | 2099.1 | 2116.4 |
| 5°    | 1703.3 | 1761.0 | 1913.1 | 2048.4 | 2106.8 |
| 7.5°  | 1319.0 | 1414.0 | 1660.3 | 1913.7 | 2017.6 |
| 10°   | 915.5  | 1011.7 | 1342.7 | 1707.1 | 1859.8 |
| 12.5° | 583.8  | 677.5  | 1034.8 | 1478.1 | 1676.3 |
| 15°   | 379.8  | 441.4  | 739.1  | 1233.0 | 1460.1 |
| 17.5° | 263.7  | 307.3  | 503.0  | 973.2  | 1220.9 |
| 20°   | 188.6  | 219.4  | 338.1  | 742.3  | 982.2  |
| 22.5° | 136.6  | 157.8  | 234.8  | 542.1  | 763.4  |
| 25°   | 100.7  | 112.9  | 166.8  | 383.0  | 577.4  |
| 27.5° | 74.4   | 82.1   | 120.6  | 264.3  | 422.1  |
| 30°   | 53.9   | 60.3   | 88.5   | 181.6  | 300.9  |
| 32.5° | 39.1   | 44.9   | 66.1   | 125.7  | 209.8  |
| 35°   | 29.5   | 34.0   | 50.7   | 88.5   | 145.0  |
| 37.5° | 24.4   | 26.9   | 41.7   | 64.2   | 102.6  |
| 40°   | 20.5   | 23.1   | 35.9   | 47.5   | 75.1   |
| 42.5° | 18.0   | 21.2   | 29.5   | 35.3   | 56.5   |
| 45°   | 16.7   | 19.2   | 22.5   | 26.9   | 41.1   |
| 47.5° | 16.7   | 16.0   | 17.3   | 20.5   | 28.9   |
| 50°   | 16.0   | 13.5   | 13.5   | 16.0   | 19.9   |
| 52.5° | 13.5   | 10.9   | 10.9   | 11.5   | 13.5   |
| 55°   | 10.3   | 9.0    | 8.3    | 9.0    | 9.6    |
| 57.5° | 7.7    | 7.7    | 7.1    | 6.4    | 7.1    |
| 60°   | 5.8    | 5.8    | 5.1    | 5.1    | 5.1    |
| 62.5° | 4.5    | 4.5    | 4.5    | 3.8    | 4.5    |
| 65°   | 3.8    | 3.8    | 3.8    | 3.2    | 3.8    |
| 67.5° | 3.2    | 3.2    | 2.6    | 3.2    | 3.2    |
| 70°   | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    |
| 72.5° | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    |
| 75°   | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    |
| 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° | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    |
| 85°   | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    |
| 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)