

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: P1178812

Luminaire Tested: LDA2B109024R2040D010 2LBD1LI

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1178812  
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: LDA2B109024R2040D010 2LBD1LI  
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2400K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

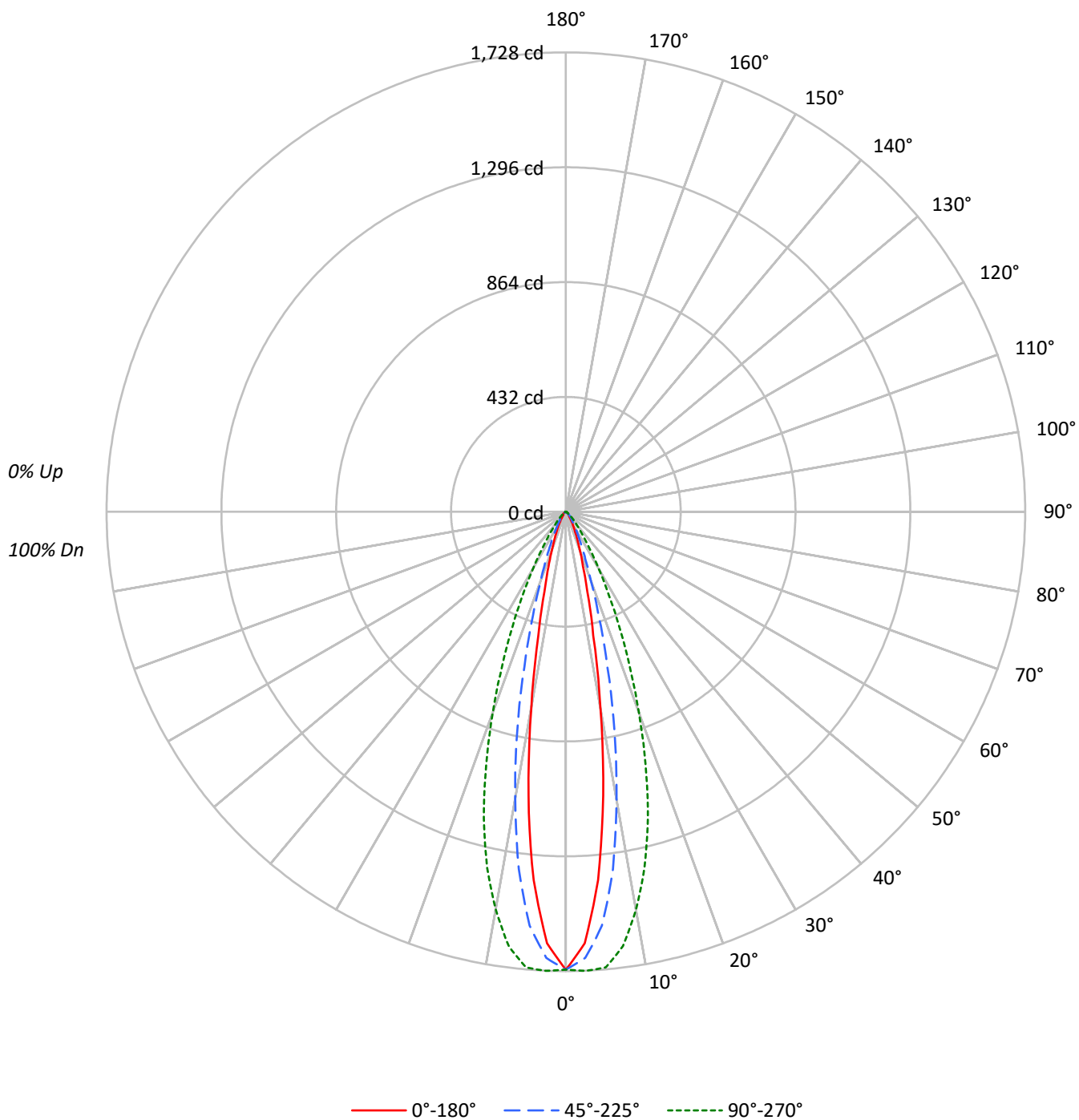
Lumens per Lamp: N/A  
Luminaire Lumens: 485.5 lumens  
Efficiency: N/A  
Efficacy: 48.5 lumens/watt  
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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  |
| 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 | 110 | 108 | 112 | 110 | 108 | 106 |  | 106 | 104 | 103 |  |  | 102 | 101 | 100 |  |  | 99  |
| 2   | 110 | 106 | 102 | 100 | 108 | 104 | 101 | 98  |  | 101 | 98  | 96  |  |  | 98  | 96  | 94  |  |  | 95  |
| 3   | 106 | 100 | 96  | 93  | 104 | 99  | 95  | 92  |  | 96  | 93  | 91  |  |  | 94  | 92  | 89  |  |  | 92  |
| 4   | 102 | 96  | 91  | 88  | 100 | 94  | 90  | 87  |  | 92  | 89  | 86  |  |  | 90  | 87  | 85  |  |  | 89  |
| 5   | 98  | 91  | 86  | 83  | 97  | 90  | 86  | 83  |  | 89  | 85  | 82  |  |  | 87  | 84  | 81  |  |  | 86  |
| 6   | 95  | 87  | 83  | 79  | 93  | 87  | 82  | 79  |  | 85  | 81  | 78  |  |  | 84  | 80  | 78  |  |  | 83  |
| 7   | 91  | 84  | 79  | 76  | 90  | 83  | 79  | 75  |  | 82  | 78  | 75  |  |  | 81  | 77  | 75  |  |  | 80  |
| 8   | 88  | 81  | 76  | 73  | 87  | 80  | 76  | 72  |  | 79  | 75  | 72  |  |  | 78  | 75  | 72  |  |  | 77  |
| 9   | 85  | 78  | 73  | 70  | 84  | 77  | 73  | 70  |  | 76  | 72  | 70  |  |  | 76  | 72  | 69  |  |  | 75  |
| 10  | 83  | 75  | 70  | 67  | 82  | 75  | 70  | 67  |  | 74  | 70  | 67  |  |  | 73  | 70  | 67  |  |  | 73  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 849914 | 849914 | 849914 |
| 5°  | 688888 | 773773 | 852121 |
| 10° | 374577 | 549367 | 760927 |
| 15° | 158440 | 308298 | 609088 |
| 20° | 80854  | 144959 | 421122 |
| 25° | 44801  | 74142  | 256668 |
| 30° | 25066  | 41188  | 139972 |
| 35° | 14515  | 24935  | 71310  |
| 40° | 10820  | 18870  | 39480  |
| 45° | 9489   | 12768  | 23374  |
| 50° | 10055  | 8443   | 12434  |
| 55° | 7225   | 5849   | 6795   |
| 60° | 4638   | 4144   | 4144   |
| 65° | 3619   | 3619   | 3619   |
| 70° | 3029   | 3029   | 3029   |
| 75° | 3050   | 3050   | 3050   |
| 80° | 2841   | 2841   | 2841   |
| 85° | 2830   | 2830   | 2830   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 23374 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 134.2  | 27.6      |
| 10°-20°   | 189.8  | 39.1      |
| 20°-30°   | 97.8   | 20.1      |
| 30°-40°   | 36.0   | 7.4       |
| 40°-50°   | 15.8   | 3.3       |
| 50°-60°   | 6.9    | 1.4       |
| 60°-70°   | 3.0    | 0.6       |
| 70°-80°   | 1.5    | 0.3       |
| 80°-90°   | 0.4    | 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°    | 421.8  | 86.9      |
| 0°-40°    | 457.8  | 94.3      |
| 0°-60°    | 480.5  | 99.0      |
| 0°-90°    | 485.5  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 485.5  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1723 | 1723  | 1723 | 1723  | 1723 |      |
| 5°  | 1391 | 1438  | 1562 | 1673  | 1721 | 112  |
| 15° | 310  | 360   | 604  | 1007  | 1192 | 95   |
| 25° | 82   | 92    | 136  | 313   | 472  | 39   |
| 35° | 24   | 28    | 41   | 72    | 118  | 16   |
| 45° | 14   | 16    | 18   | 22    | 34   | 11   |
| 55° | 8    | 7     | 7    | 7     | 8    | 8    |
| 65° | 3    | 3     | 3    | 3     | 3    | 3    |
| 75° | 2    | 2     | 2    | 2     | 2    | 2    |
| 85° | 0    | 0     | 0    | 0     | 0    | 0    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1722.7 | 1722.7 | 1722.7 | 1722.7 | 1722.7 |
| 2.5°  | 1624.2 | 1643.6 | 1679.7 | 1714.3 | 1728.5 |
| 5°    | 1391.0 | 1438.2 | 1562.4 | 1672.9 | 1720.6 |
| 7.5°  | 1077.2 | 1154.8 | 1355.9 | 1562.9 | 1647.8 |
| 10°   | 747.7  | 826.2  | 1096.6 | 1394.2 | 1518.9 |
| 12.5° | 476.8  | 553.3  | 845.1  | 1207.1 | 1369.0 |
| 15°   | 310.2  | 360.5  | 603.6  | 1007.0 | 1192.5 |
| 17.5° | 215.3  | 251.0  | 410.8  | 794.8  | 997.0  |
| 20°   | 154.0  | 179.2  | 276.1  | 606.2  | 802.1  |
| 22.5° | 111.6  | 128.9  | 191.8  | 442.7  | 623.5  |
| 25°   | 82.3   | 92.2   | 136.2  | 312.8  | 471.5  |
| 27.5° | 60.8   | 67.1   | 98.5   | 215.9  | 344.7  |
| 30°   | 44.0   | 49.2   | 72.3   | 148.3  | 245.7  |
| 32.5° | 32.0   | 36.7   | 54.0   | 102.7  | 171.3  |
| 35°   | 24.1   | 27.8   | 41.4   | 72.3   | 118.4  |
| 37.5° | 19.9   | 22.0   | 34.1   | 52.4   | 83.8   |
| 40°   | 16.8   | 18.9   | 29.3   | 38.8   | 61.3   |
| 42.5° | 14.7   | 17.3   | 24.1   | 28.8   | 46.1   |
| 45°   | 13.6   | 15.7   | 18.3   | 22.0   | 33.5   |
| 47.5° | 13.6   | 13.1   | 14.1   | 16.8   | 23.6   |
| 50°   | 13.1   | 11.0   | 11.0   | 13.1   | 16.2   |
| 52.5° | 11.0   | 8.9    | 8.9    | 9.4    | 11.0   |
| 55°   | 8.4    | 7.3    | 6.8    | 7.3    | 7.9    |
| 57.5° | 6.3    | 6.3    | 5.8    | 5.2    | 5.8    |
| 60°   | 4.7    | 4.7    | 4.2    | 4.2    | 4.2    |
| 62.5° | 3.7    | 3.7    | 3.7    | 3.1    | 3.7    |
| 65°   | 3.1    | 3.1    | 3.1    | 2.6    | 3.1    |
| 67.5° | 2.6    | 2.6    | 2.1    | 2.6    | 2.6    |
| 70°   | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    |
| 72.5° | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    |
| 75°   | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    |
| 77.5° | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| 80°   | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| 82.5° | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    |
| 85°   | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    |
| 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)