

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: P1178937

Luminaire Tested: LDA2B109035R2040D010 2LBDC1MMS

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1178937  
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 2LBDC1MMS  
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

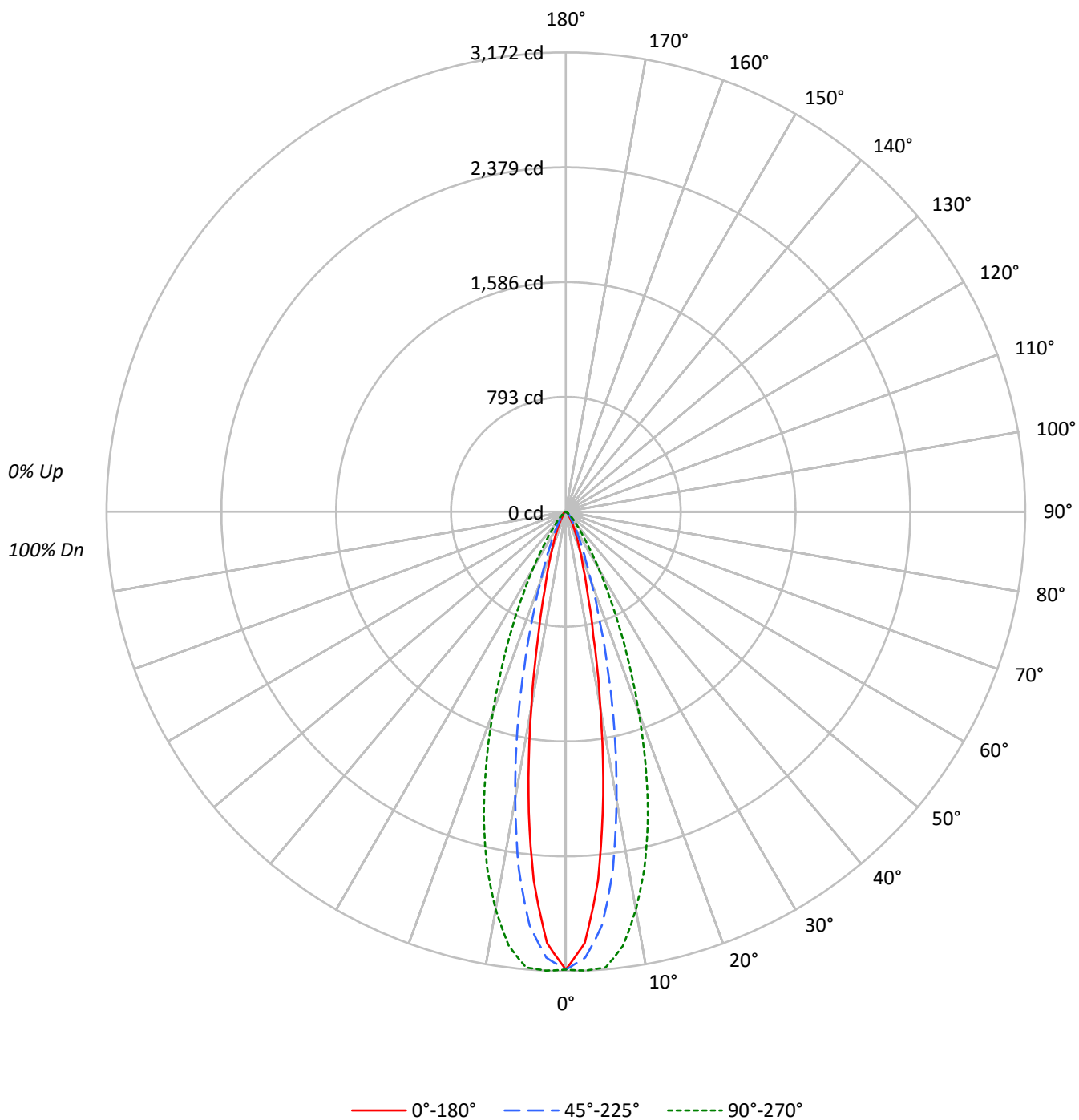
Lumens per Lamp: N/A  
Luminaire Lumens: 890.9 lumens  
Efficiency: N/A  
Efficacy: 89.1 lumens/watt  
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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

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

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 1559566 | 1559566 | 1559566 |
| 5°  | 1264166 | 1419822 | 1563641 |
| 10° | 687284  | 1008057 | 1396311 |
| 15° | 290728  | 565724  | 1117658 |
| 20° | 148424  | 266030  | 772784  |
| 25° | 82145   | 136091  | 471039  |
| 30° | 46031   | 75597   | 256871  |
| 35° | 26621   | 45774   | 130876  |
| 40° | 19836   | 34649   | 72454   |
| 45° | 17443   | 23443   | 42910   |
| 50° | 18421   | 15504   | 22873   |
| 55° | 13246   | 10752   | 12386   |
| 60° | 8584    | 7598    | 7598    |
| 65° | 6771    | 6771    | 6771    |
| 70° | 5481    | 5481    | 5481    |
| 75° | 5528    | 5528    | 5528    |
| 80° | 5398    | 5398    | 5398    |
| 85° | 5661    | 5661    | 5661    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 42910 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 246.3  | 27.6      |
| 10°-20°   | 348.3  | 39.1      |
| 20°-30°   | 179.4  | 20.1      |
| 30°-40°   | 66.0   | 7.4       |
| 40°-50°   | 29.0   | 3.3       |
| 50°-60°   | 12.7   | 1.4       |
| 60°-70°   | 5.6    | 0.6       |
| 70°-80°   | 2.8    | 0.3       |
| 80°-90°   | 0.8    | 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°    | 774.1  | 86.9      |
| 0°-40°    | 840.1  | 94.3      |
| 0°-60°    | 881.8  | 99.0      |
| 0°-90°    | 890.9  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 890.9  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 3161 | 3161  | 3161 | 3161  | 3161 |      |
| 5°  | 2553 | 2639  | 2867 | 3070  | 3157 | 205  |
| 15° | 569  | 662   | 1108 | 1848  | 2188 | 174  |
| 25° | 151  | 169   | 250  | 574   | 865  | 72   |
| 35° | 44   | 51    | 76   | 133   | 217  | 30   |
| 45° | 25   | 29    | 34   | 40    | 62   | 20   |
| 55° | 15   | 14    | 12   | 14    | 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°    | 3161.1 | 3161.1 | 3161.1 | 3161.1 | 3161.1 |
| 2.5°  | 2980.4 | 3016.0 | 3082.3 | 3145.8 | 3171.7 |
| 5°    | 2552.6 | 2639.1 | 2866.9 | 3069.8 | 3157.3 |
| 7.5°  | 1976.7 | 2119.0 | 2488.2 | 2867.9 | 3023.7 |
| 10°   | 1371.9 | 1516.2 | 2012.2 | 2558.3 | 2787.2 |
| 12.5° | 874.9  | 1015.3 | 1550.8 | 2215.1 | 2512.2 |
| 15°   | 569.2  | 661.5  | 1107.6 | 1847.8 | 2188.2 |
| 17.5° | 395.1  | 460.5  | 753.8  | 1458.5 | 1829.6 |
| 20°   | 282.7  | 328.8  | 506.7  | 1112.4 | 1471.9 |
| 22.5° | 204.8  | 236.5  | 351.9  | 812.4  | 1144.1 |
| 25°   | 150.9  | 169.2  | 250.0  | 574.0  | 865.3  |
| 27.5° | 111.5  | 123.1  | 180.7  | 396.1  | 632.6  |
| 30°   | 80.8   | 90.4   | 132.7  | 272.1  | 450.9  |
| 32.5° | 58.6   | 67.3   | 99.0   | 188.4  | 314.4  |
| 35°   | 44.2   | 51.0   | 76.0   | 132.7  | 217.3  |
| 37.5° | 36.5   | 40.4   | 62.5   | 96.1   | 153.8  |
| 40°   | 30.8   | 34.6   | 53.8   | 71.1   | 112.5  |
| 42.5° | 26.9   | 31.7   | 44.2   | 52.9   | 84.6   |
| 45°   | 25.0   | 28.8   | 33.6   | 40.4   | 61.5   |
| 47.5° | 25.0   | 24.0   | 26.0   | 30.8   | 43.3   |
| 50°   | 24.0   | 20.2   | 20.2   | 24.0   | 29.8   |
| 52.5° | 20.2   | 16.3   | 16.3   | 17.3   | 20.2   |
| 55°   | 15.4   | 13.5   | 12.5   | 13.5   | 14.4   |
| 57.5° | 11.5   | 11.5   | 10.6   | 9.6    | 10.6   |
| 60°   | 8.7    | 8.7    | 7.7    | 7.7    | 7.7    |
| 62.5° | 6.7    | 6.7    | 6.7    | 5.8    | 6.7    |
| 65°   | 5.8    | 5.8    | 5.8    | 4.8    | 5.8    |
| 67.5° | 4.8    | 4.8    | 3.8    | 4.8    | 4.8    |
| 70°   | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    |
| 72.5° | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    |
| 75°   | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    |
| 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° | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| 85°   | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| 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)