

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: P1178888

Luminaire Tested: LDA2B109030R2040D010 2LBD1GPH

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1178888  
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: LDA2B109030R2040D010 2LBD1GPH  
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

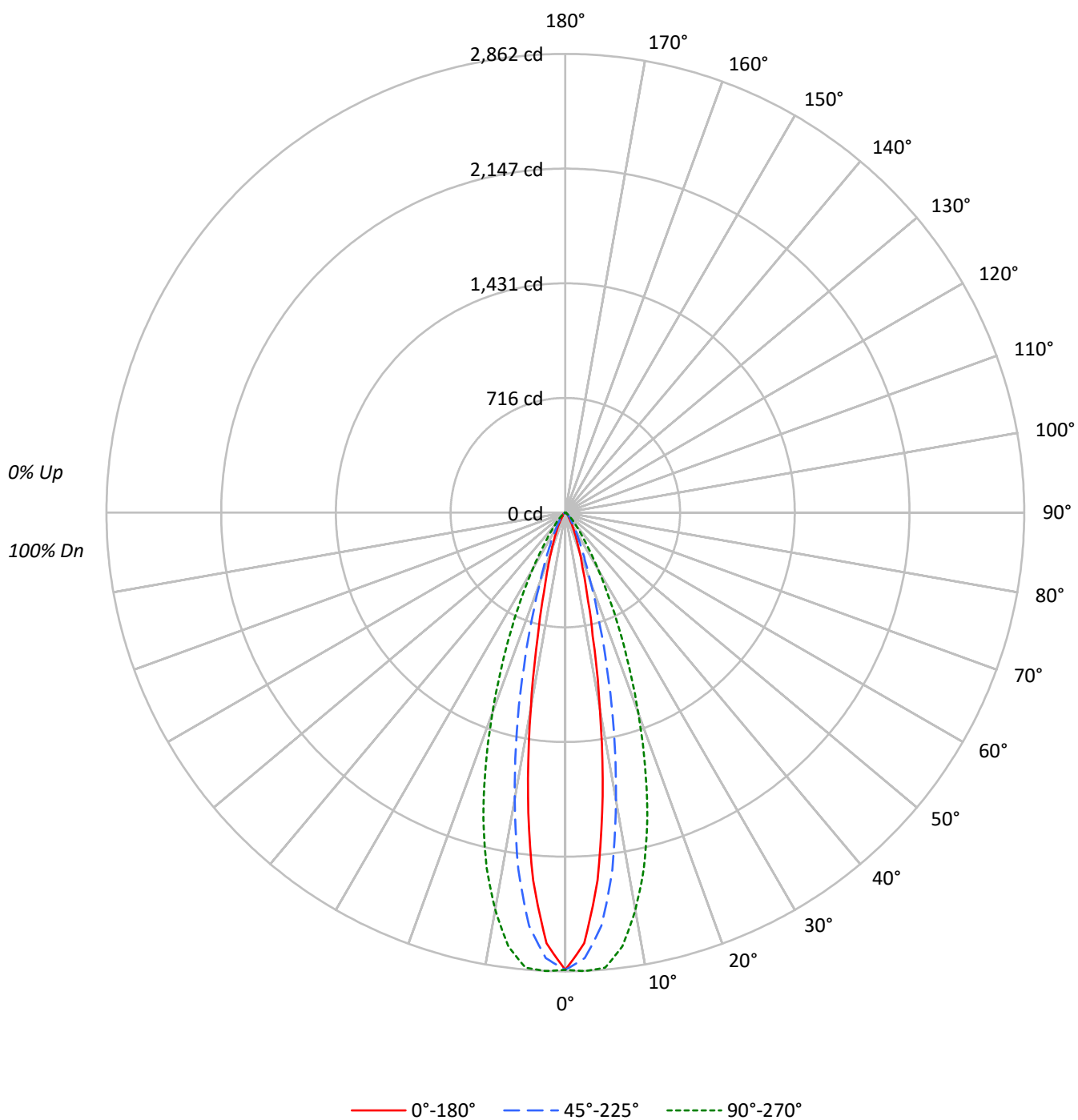
Lumens per Lamp: N/A  
Luminaire Lumens: 804.0 lumens  
Efficiency: N/A  
Efficacy: 80.4 lumens/watt  
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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 | 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°  | 1407413 | 1407413 | 1407413 |
| 5°  | 1140800 | 1281301 | 1411105 |
| 10° | 620254  | 909716  | 1260047 |
| 15° | 262329  | 510510  | 1008609 |
| 20° | 133934  | 240041  | 697390  |
| 25° | 74142   | 122809  | 425094  |
| 30° | 41530   | 68191   | 231805  |
| 35° | 24031   | 41256   | 118108  |
| 40° | 17904   | 31300   | 65370   |
| 45° | 15768   | 21211   | 38723   |
| 50° | 16656   | 13969   | 20647   |
| 55° | 11956   | 9720    | 11182   |
| 60° | 7696    | 6808    | 6808    |
| 65° | 6070    | 6070    | 6070    |
| 70° | 5049    | 5049    | 5049    |
| 75° | 4956    | 4956    | 4956    |
| 80° | 4830    | 4830    | 4830    |
| 85° | 5095    | 5095    | 5095    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 38723 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 222.3  | 27.6      |
| 10°-20°   | 314.3  | 39.1      |
| 20°-30°   | 161.9  | 20.1      |
| 30°-40°   | 59.6   | 7.4       |
| 40°-50°   | 26.2   | 3.3       |
| 50°-60°   | 11.5   | 1.4       |
| 60°-70°   | 5.0    | 0.6       |
| 70°-80°   | 2.5    | 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°    | 698.5  | 86.9      |
| 0°-40°    | 758.1  | 94.3      |
| 0°-60°    | 795.7  | 99.0      |
| 0°-90°    | 804.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 804.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2853 | 2853  | 2853 | 2853  | 2853 |      |
| 5°  | 2304 | 2382  | 2587 | 2770  | 2849 | 185  |
| 15° | 514  | 597   | 1000 | 1668  | 1975 | 157  |
| 25° | 136  | 153   | 226  | 518   | 781  | 65   |
| 35° | 40   | 46    | 68   | 120   | 196  | 27   |
| 45° | 23   | 26    | 30   | 36    | 56   | 18   |
| 55° | 14   | 12    | 11   | 12    | 13   | 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°    | 2852.7 | 2852.7 | 2852.7 | 2852.7 | 2852.7 |
| 2.5°  | 2689.6 | 2721.7 | 2781.6 | 2838.8 | 2862.3 |
| 5°    | 2303.5 | 2381.6 | 2587.2 | 2770.3 | 2849.3 |
| 7.5°  | 1783.8 | 1912.2 | 2245.4 | 2588.1 | 2728.7 |
| 10°   | 1238.1 | 1368.2 | 1815.9 | 2308.7 | 2515.2 |
| 12.5° | 789.5  | 916.2  | 1399.5 | 1999.0 | 2267.1 |
| 15°   | 513.6  | 596.9  | 999.5  | 1667.6 | 1974.7 |
| 17.5° | 356.6  | 415.6  | 680.2  | 1316.2 | 1651.1 |
| 20°   | 255.1  | 296.7  | 457.2  | 1003.8 | 1328.3 |
| 22.5° | 184.8  | 213.4  | 317.5  | 733.1  | 1032.5 |
| 25°   | 136.2  | 152.7  | 225.6  | 518.0  | 780.9  |
| 27.5° | 100.6  | 111.1  | 163.1  | 357.5  | 570.9  |
| 30°   | 72.9   | 81.6   | 119.7  | 245.5  | 406.9  |
| 32.5° | 52.9   | 60.7   | 89.4   | 170.1  | 283.7  |
| 35°   | 39.9   | 46.0   | 68.5   | 119.7  | 196.1  |
| 37.5° | 33.0   | 36.4   | 56.4   | 86.8   | 138.8  |
| 40°   | 27.8   | 31.2   | 48.6   | 64.2   | 101.5  |
| 42.5° | 24.3   | 28.6   | 39.9   | 47.7   | 76.4   |
| 45°   | 22.6   | 26.0   | 30.4   | 36.4   | 55.5   |
| 47.5° | 22.6   | 21.7   | 23.4   | 27.8   | 39.0   |
| 50°   | 21.7   | 18.2   | 18.2   | 21.7   | 26.9   |
| 52.5° | 18.2   | 14.7   | 14.7   | 15.6   | 18.2   |
| 55°   | 13.9   | 12.1   | 11.3   | 12.1   | 13.0   |
| 57.5° | 10.4   | 10.4   | 9.5    | 8.7    | 9.5    |
| 60°   | 7.8    | 7.8    | 6.9    | 6.9    | 6.9    |
| 62.5° | 6.1    | 6.1    | 6.1    | 5.2    | 6.1    |
| 65°   | 5.2    | 5.2    | 5.2    | 4.3    | 5.2    |
| 67.5° | 4.3    | 4.3    | 3.5    | 4.3    | 4.3    |
| 70°   | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    |
| 72.5° | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    |
| 75°   | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    |
| 77.5° | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    |
| 80°   | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    |
| 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)