

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: P1178759

Luminaire Tested: LDA2B108040R2060D010 2LBD1H

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1178759  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2010-034-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/17/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDA2B108040R2060D010 2LBD1H  
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

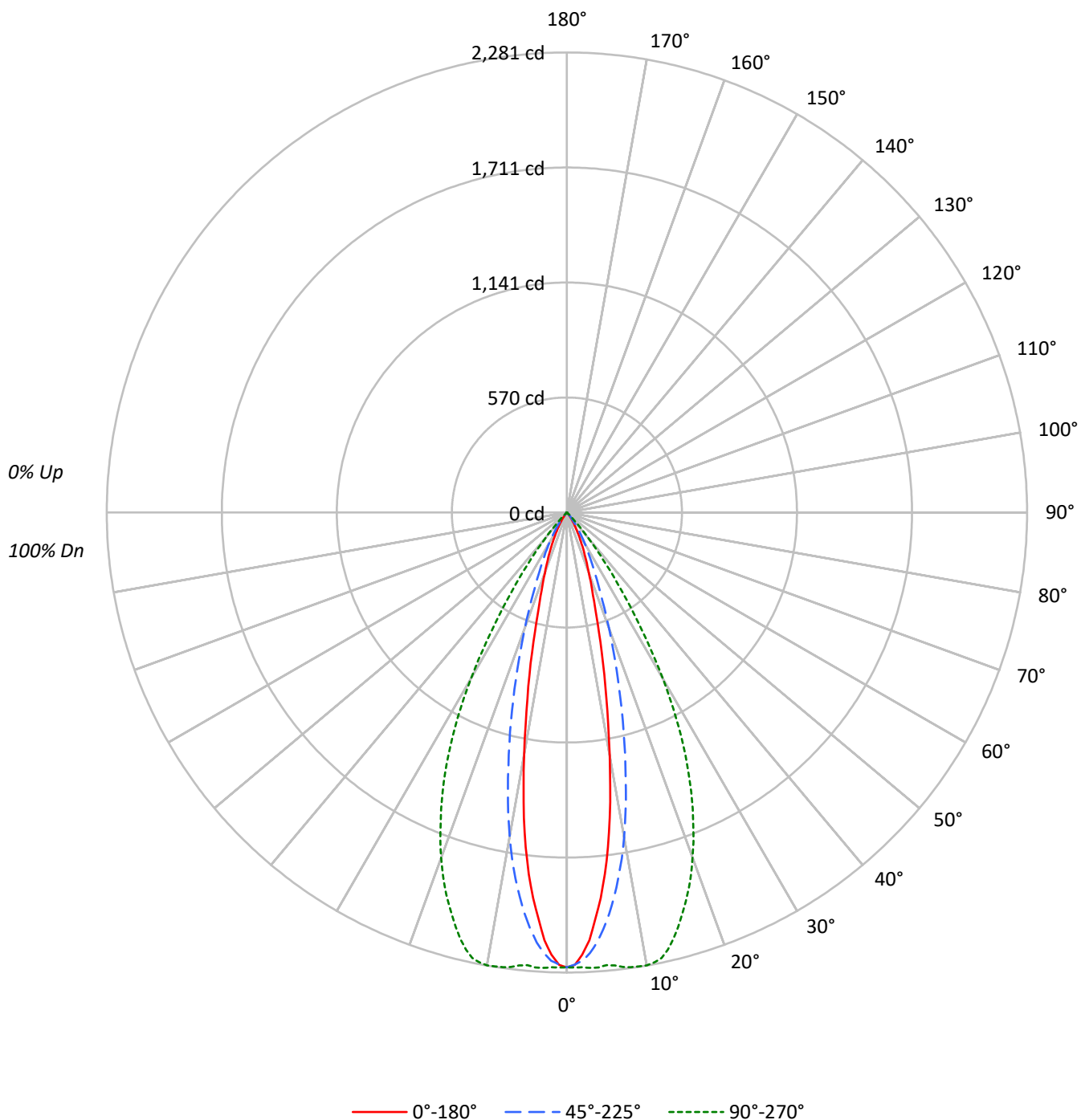
Lumens per Lamp: N/A  
Luminaire Lumens: 898.4 lumens  
Efficiency: N/A  
Efficacy: 89.8 lumens/watt  
Spacing Criteria (0/90/45): 0.36 / 0.9 / 0.52  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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 | 99  | 108 | 104 | 101 | 98  |  | 101 | 98  | 96  |  |  | 98  | 96  | 94  |  |  | 95  |
| 3   | 105 | 100 | 96  | 92  | 103 | 99  | 95  | 92  |  | 96  | 93  | 90  |  |  | 94  | 91  | 89  |  |  | 91  |
| 4   | 101 | 95  | 90  | 87  | 99  | 94  | 89  | 86  |  | 92  | 88  | 85  |  |  | 90  | 87  | 84  |  |  | 88  |
| 5   | 97  | 90  | 85  | 82  | 96  | 89  | 85  | 81  |  | 88  | 84  | 81  |  |  | 86  | 83  | 80  |  |  | 85  |
| 6   | 93  | 86  | 81  | 77  | 92  | 85  | 81  | 77  |  | 84  | 80  | 77  |  |  | 82  | 79  | 76  |  |  | 81  |
| 7   | 90  | 82  | 77  | 74  | 89  | 81  | 77  | 73  |  | 80  | 76  | 73  |  |  | 79  | 75  | 73  |  |  | 78  |
| 8   | 86  | 79  | 74  | 70  | 85  | 78  | 73  | 70  |  | 77  | 73  | 70  |  |  | 76  | 72  | 69  |  |  | 75  |
| 9   | 83  | 75  | 70  | 67  | 82  | 75  | 70  | 67  |  | 74  | 70  | 67  |  |  | 73  | 69  | 66  |  |  | 72  |
| 10  | 80  | 72  | 67  | 64  | 79  | 72  | 67  | 64  |  | 71  | 67  | 64  |  |  | 70  | 66  | 64  |  |  | 70  |

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

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 1112728 | 1112728 | 1112728 |
| 5°  | 950229  | 1027141 | 1115939 |
| 10° | 611788  | 818840  | 1142518 |
| 15° | 313814  | 546111  | 1087216 |
| 20° | 167588  | 319162  | 956280  |
| 25° | 93413   | 174959  | 777842  |
| 30° | 49847   | 99638   | 541884  |
| 35° | 21742   | 48062   | 282471  |
| 40° | 6312    | 14104   | 107039  |
| 45° | 1535    | 3837    | 16048   |
| 50° | 844     | 844     | 1689    |
| 55° | 946     | 946     | 946     |
| 60° | 0       | 1085    | 1085    |
| 65° | 0       | 1284    | 1284    |
| 70° | 0       | 1587    | 1587    |
| 75° | 0       | 2097    | 2097    |
| 80° | 0       | 3125    | 3125    |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 16048 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 186.2  | 20.7      |
| 10°-20°   | 338.9  | 37.7      |
| 20°-30°   | 256.9  | 28.6      |
| 30°-40°   | 102.8  | 11.4      |
| 40°-50°   | 10.4   | 1.2       |
| 50°-60°   | 1.1    | 0.1       |
| 60°-70°   | 1.0    | 0.1       |
| 70°-80°   | 1.0    | 0.1       |
| 80°-90°   | 0.3    | 0.0       |
| 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°    | 781.9  | 87.0      |
| 0°-40°    | 884.7  | 98.5      |
| 0°-60°    | 896.2  | 99.8      |
| 0°-90°    | 898.4  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 898.4  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2255 | 2255  | 2255 | 2255  | 2255 |      |
| 5°  | 1919 | 1961  | 2074 | 2194  | 2253 | 161  |
| 15° | 614  | 713   | 1069 | 1760  | 2129 | 176  |
| 25° | 172  | 200   | 321  | 918   | 1429 | 81   |
| 35° | 36   | 45    | 80   | 243   | 469  | 25   |
| 45° | 2    | 3     | 6    | 11    | 23   | 2    |
| 55° | 1    | 1     | 1    | 1     | 1    | 1    |
| 65° | 0    | 1     | 1    | 1     | 1    | 0    |
| 75° | 0    | 1     | 1    | 1     | 1    | 0    |
| 85° | 0    | 0     | 0    | 0     | 0    | 0    |
| 90° | 0    | 0     | 0    | 0     | 0    | 0    |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2255.4 | 2255.4 | 2255.4 | 2255.4 | 2255.4 |
| 1°    | 2243.4 | 2244.5 | 2242.3 | 2245.6 | 2256.5 |
| 2°    | 2193.1 | 2209.5 | 2223.7 | 2238.0 | 2256.5 |
| 3°    | 2123.2 | 2142.8 | 2187.7 | 2232.5 | 2260.9 |
| 4°    | 2020.4 | 2060.8 | 2137.4 | 2219.4 | 2260.9 |
| 5°    | 1918.7 | 1961.4 | 2074.0 | 2194.2 | 2253.3 |
| 6°    | 1802.8 | 1864.0 | 2000.7 | 2170.2 | 2257.6 |
| 7°    | 1671.6 | 1747.1 | 1919.8 | 2154.9 | 2270.8 |
| 8°    | 1529.5 | 1614.8 | 1831.3 | 2122.1 | 2276.2 |
| 9°    | 1372.1 | 1475.9 | 1737.2 | 2082.7 | 2278.4 |
| 10°   | 1221.2 | 1330.5 | 1634.5 | 2037.9 | 2280.6 |
| 11°   | 1070.3 | 1184.0 | 1522.9 | 1994.2 | 2271.8 |
| 12°   | 942.4  | 1050.6 | 1406.0 | 1948.2 | 2258.7 |
| 13°   | 824.3  | 929.3  | 1290.1 | 1893.6 | 2224.8 |
| 14°   | 715.0  | 817.8  | 1178.6 | 1830.2 | 2180.0 |
| 15°   | 614.4  | 712.8  | 1069.2 | 1760.2 | 2128.6 |
| 16°   | 523.7  | 615.5  | 964.3  | 1682.6 | 2071.8 |
| 17°   | 458.1  | 531.3  | 865.9  | 1600.6 | 2016.0 |
| 18°   | 406.7  | 461.4  | 773.0  | 1519.7 | 1957.0 |
| 19°   | 360.8  | 404.5  | 686.6  | 1435.5 | 1891.4 |
| 20°   | 319.2  | 358.6  | 607.9  | 1348.0 | 1821.4 |
| 21°   | 284.3  | 318.1  | 534.6  | 1261.6 | 1750.3 |
| 22°   | 253.6  | 283.2  | 469.0  | 1176.4 | 1672.7 |
| 23°   | 225.2  | 251.5  | 413.3  | 1090.0 | 1595.1 |
| 24°   | 197.9  | 226.3  | 364.1  | 1002.5 | 1514.2 |
| 25°   | 171.6  | 200.1  | 321.4  | 918.4  | 1428.9 |
| 26°   | 150.9  | 177.1  | 285.3  | 836.4  | 1340.4 |
| 27°   | 130.1  | 157.4  | 253.6  | 757.6  | 1250.7 |
| 28°   | 113.7  | 138.8  | 225.2  | 682.2  | 1153.4 |
| 29°   | 98.4   | 122.4  | 199.0  | 607.9  | 1053.9 |
| 30°   | 87.5   | 106.0  | 174.9  | 537.9  | 951.2  |
| 32.5° | 60.1   | 71.1   | 122.4  | 378.3  | 694.2  |
| 35°   | 36.1   | 44.8   | 79.8   | 242.7  | 469.0  |
| 37.5° | 19.7   | 24.1   | 45.9   | 145.4  | 295.2  |
| 40°   | 9.8    | 12.0   | 21.9   | 71.1   | 166.2  |
| 42.5° | 4.4    | 5.5    | 9.8    | 27.3   | 71.1   |
| 45°   | 2.2    | 3.3    | 5.5    | 10.9   | 23.0   |
| 47.5° | 1.1    | 2.2    | 2.2    | 4.4    | 6.6    |
| 50°   | 1.1    | 1.1    | 1.1    | 2.2    | 2.2    |
| 52.5° | 1.1    | 1.1    | 1.1    | 2.2    | 2.2    |
| 55°   | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    |
| 57.5° | 0.0    | 1.1    | 1.1    | 1.1    | 1.1    |
| 60°   | 0.0    | 1.1    | 1.1    | 1.1    | 1.1    |
| 62.5° | 0.0    | 1.1    | 1.1    | 1.1    | 1.1    |
| 65°   | 0.0    | 1.1    | 1.1    | 1.1    | 1.1    |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 22.5° | 45° | 67.5° | 90° |
|-------|-----|-------|-----|-------|-----|
| 67.5° | 0.0 | 1.1   | 1.1 | 1.1   | 1.1 |
| 70°   | 0.0 | 1.1   | 1.1 | 1.1   | 1.1 |
| 72.5° | 0.0 | 1.1   | 1.1 | 1.1   | 1.1 |
| 75°   | 0.0 | 1.1   | 1.1 | 1.1   | 1.1 |
| 77.5° | 0.0 | 1.1   | 1.1 | 1.1   | 1.1 |
| 80°   | 0.0 | 0.0   | 1.1 | 1.1   | 1.1 |
| 82.5° | 0.0 | 0.0   | 1.1 | 1.1   | 1.1 |
| 85°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 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)