

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: P1179462

Luminaire Tested: LDA2B159035R2060D010 2LBD1MW

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1179462  
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: LDA2B159035R2060D010 2LBD1MW  
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

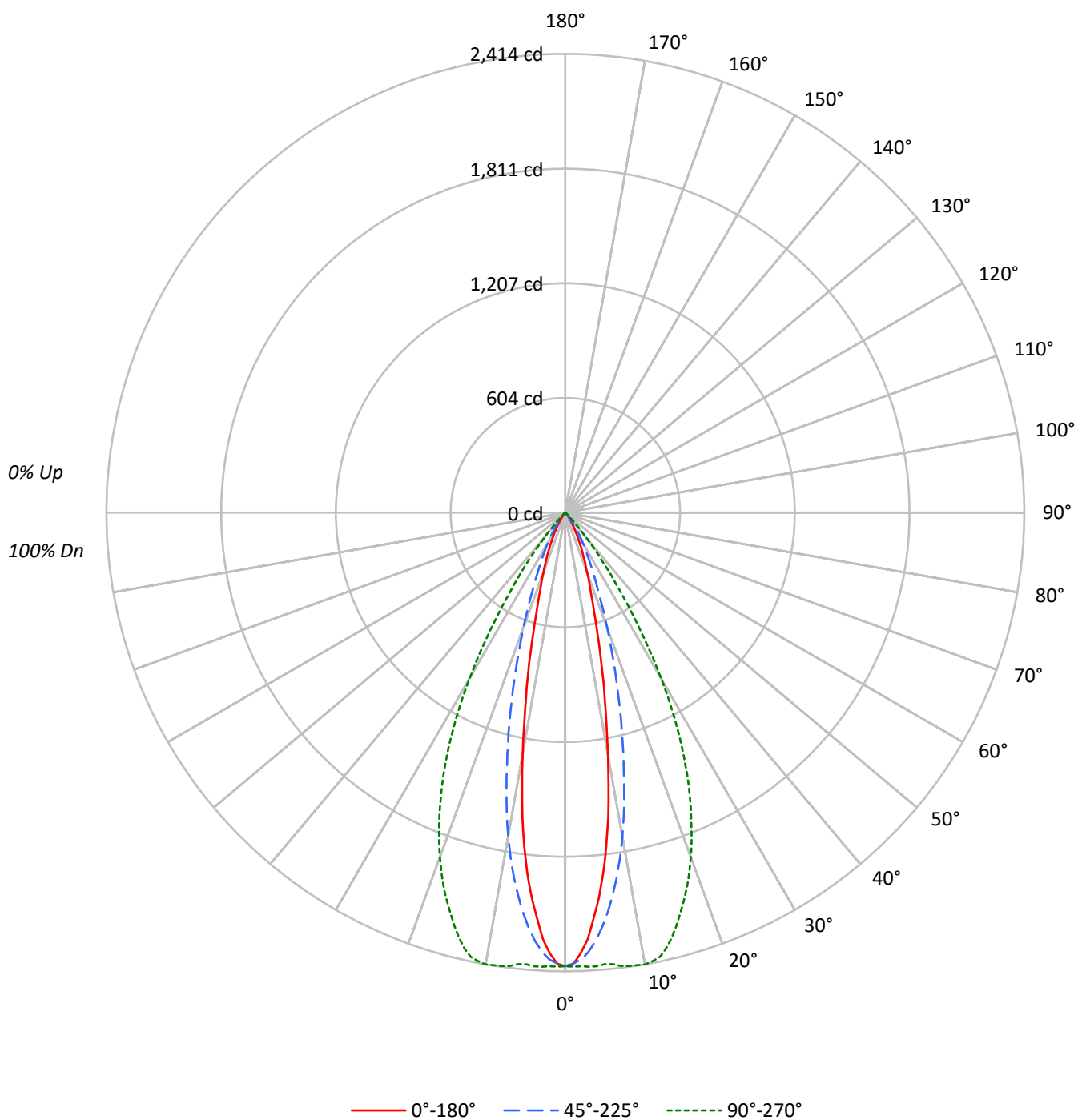
Lumens per Lamp: N/A  
Luminaire Lumens: 951.2 lumens  
Efficiency: N/A  
Efficacy: 67.5 lumens/watt  
Spacing Criteria (0/90/45): 0.36 / 0.9 / 0.52  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.1  
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°  | 1178049 | 1178049 | 1178049 |
| 5°  | 1005994 | 1087412 | 1181410 |
| 10° | 647708  | 866883  | 1209599 |
| 15° | 332253  | 578187  | 1151062 |
| 20° | 177458  | 337853  | 1012405 |
| 25° | 98911   | 185247  | 823515  |
| 30° | 52753   | 105506  | 573673  |
| 35° | 23007   | 50893   | 299094  |
| 40° | 6698    | 14877   | 113286  |
| 45° | 1605    | 4047    | 16955   |
| 50° | 921     | 921     | 1765    |
| 55° | 1032    | 1032    | 1032    |
| 60° | 0       | 1184    | 1184    |
| 65° | 0       | 1401    | 1401    |
| 70° | 0       | 1731    | 1731    |
| 75° | 0       | 2287    | 2287    |
| 80° | 0       | 3409    | 3409    |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 16955 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 197.1  | 20.7      |
| 10°-20°   | 358.8  | 37.7      |
| 20°-30°   | 272.0  | 28.6      |
| 30°-40°   | 108.8  | 11.4      |
| 40°-50°   | 11.0   | 1.2       |
| 50°-60°   | 1.2    | 0.1       |
| 60°-70°   | 1.0    | 0.1       |
| 70°-80°   | 1.1    | 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°    | 827.8  | 87.0      |
| 0°-40°    | 936.6  | 98.5      |
| 0°-60°    | 948.8  | 99.7      |
| 0°-90°    | 951.2  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 951.2  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2388 | 2388  | 2388 | 2388  | 2388 |      |
| 5°  | 2031 | 2076  | 2196 | 2323  | 2386 | 170  |
| 15° | 650  | 755   | 1132 | 1864  | 2254 | 186  |
| 25° | 182  | 212   | 340  | 972   | 1513 | 86   |
| 35° | 38   | 48    | 84   | 257   | 497  | 26   |
| 45° | 2    | 4     | 6    | 12    | 24   | 3    |
| 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°    | 2387.8 | 2387.8 | 2387.8 | 2387.8 | 2387.8 |
| 1°    | 2375.1 | 2376.3 | 2373.9 | 2377.4 | 2389.0 |
| 2°    | 2321.9 | 2339.2 | 2354.3 | 2369.3 | 2389.0 |
| 3°    | 2247.8 | 2268.6 | 2316.1 | 2363.5 | 2393.6 |
| 4°    | 2139.0 | 2181.8 | 2262.8 | 2349.6 | 2393.6 |
| 5°    | 2031.3 | 2076.5 | 2195.7 | 2323.0 | 2385.5 |
| 6°    | 1908.7 | 1973.5 | 2118.2 | 2297.6 | 2390.2 |
| 7°    | 1769.8 | 1849.6 | 2032.5 | 2281.4 | 2404.0 |
| 8°    | 1619.3 | 1709.6 | 1938.7 | 2246.6 | 2409.8 |
| 9°    | 1452.6 | 1562.6 | 1839.2 | 2205.0 | 2412.1 |
| 10°   | 1292.9 | 1408.6 | 1730.4 | 2157.5 | 2414.5 |
| 11°   | 1133.2 | 1253.5 | 1612.3 | 2111.2 | 2405.2 |
| 12°   | 997.7  | 1112.3 | 1488.5 | 2062.6 | 2391.3 |
| 13°   | 872.7  | 983.8  | 1365.8 | 2004.7 | 2355.4 |
| 14°   | 757.0  | 865.8  | 1247.7 | 1937.6 | 2308.0 |
| 15°   | 650.5  | 754.7  | 1132.0 | 1863.5 | 2253.6 |
| 16°   | 554.4  | 651.6  | 1020.9 | 1781.3 | 2193.4 |
| 17°   | 485.0  | 562.5  | 916.7  | 1694.5 | 2134.4 |
| 18°   | 430.6  | 488.4  | 818.3  | 1608.9 | 2071.9 |
| 19°   | 382.0  | 428.3  | 726.9  | 1519.7 | 2002.4 |
| 20°   | 338.0  | 379.6  | 643.5  | 1427.1 | 1928.3 |
| 21°   | 300.9  | 336.8  | 566.0  | 1335.7 | 1853.1 |
| 22°   | 268.5  | 299.8  | 496.6  | 1245.4 | 1770.9 |
| 23°   | 238.4  | 266.2  | 437.5  | 1154.0 | 1688.7 |
| 24°   | 209.5  | 239.6  | 385.4  | 1061.4 | 1603.1 |
| 25°   | 181.7  | 211.8  | 340.3  | 972.3  | 1512.8 |
| 26°   | 159.7  | 187.5  | 302.1  | 885.5  | 1419.0 |
| 27°   | 137.7  | 166.7  | 268.5  | 802.1  | 1324.1 |
| 28°   | 120.4  | 147.0  | 238.4  | 722.3  | 1221.1 |
| 29°   | 104.2  | 129.6  | 210.7  | 643.5  | 1115.8 |
| 30°   | 92.6   | 112.3  | 185.2  | 569.5  | 1007.0 |
| 32.5° | 63.7   | 75.2   | 129.6  | 400.5  | 735.0  |
| 35°   | 38.2   | 47.5   | 84.5   | 257.0  | 496.6  |
| 37.5° | 20.8   | 25.5   | 48.6   | 153.9  | 312.5  |
| 40°   | 10.4   | 12.7   | 23.1   | 75.2   | 175.9  |
| 42.5° | 4.6    | 5.8    | 10.4   | 28.9   | 75.2   |
| 45°   | 2.3    | 3.5    | 5.8    | 11.6   | 24.3   |
| 47.5° | 1.2    | 2.3    | 2.3    | 4.6    | 6.9    |
| 50°   | 1.2    | 1.2    | 1.2    | 2.3    | 2.3    |
| 52.5° | 1.2    | 1.2    | 1.2    | 2.3    | 2.3    |
| 55°   | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    |
| 57.5° | 0.0    | 1.2    | 1.2    | 1.2    | 1.2    |
| 60°   | 0.0    | 1.2    | 1.2    | 1.2    | 1.2    |
| 62.5° | 0.0    | 1.2    | 1.2    | 1.2    | 1.2    |
| 65°   | 0.0    | 1.2    | 1.2    | 1.2    | 1.2    |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 22.5° | 45° | 67.5° | 90° |
|-------|-----|-------|-----|-------|-----|
| 67.5° | 0.0 | 1.2   | 1.2 | 1.2   | 1.2 |
| 70°   | 0.0 | 1.2   | 1.2 | 1.2   | 1.2 |
| 72.5° | 0.0 | 1.2   | 1.2 | 1.2   | 1.2 |
| 75°   | 0.0 | 1.2   | 1.2 | 1.2   | 1.2 |
| 77.5° | 0.0 | 1.2   | 1.2 | 1.2   | 1.2 |
| 80°   | 0.0 | 0.0   | 1.2 | 1.2   | 1.2 |
| 82.5° | 0.0 | 0.0   | 1.2 | 1.2   | 1.2 |
| 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)