

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: P1179343

Luminaire Tested: LDA2B159024R2060D010 2LBD1MB

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1179343  
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: LDA2B159024R2060D010 2LBD1MB  
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2400K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

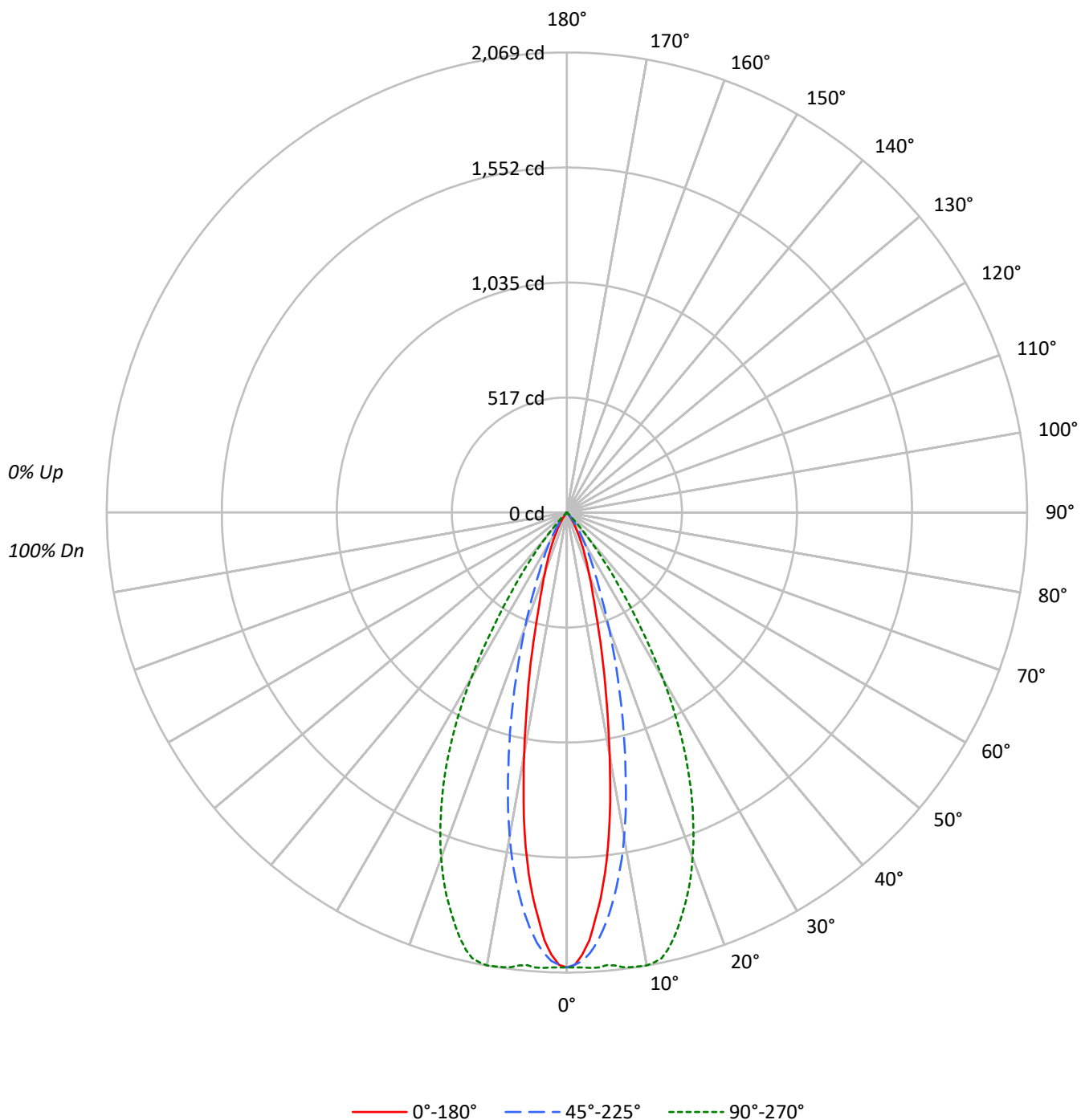
Lumens per Lamp: N/A  
Luminaire Lumens: 815.0 lumens  
Efficiency: N/A  
Efficacy: 57.8 lumens/watt  
Spacing Criteria (0/90/45): 0.36 / 0.9 / 0.52  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 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  | 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  | 93  | 92  | 92  | 92  | 90  |
| 3   | 105 | 100 | 96  | 92  | 103 | 99  | 95  | 92  | 96  | 93  | 90  | 94  | 91  | 89  | 91  | 89  | 87  | 87  | 87  | 86  |
| 4   | 101 | 95  | 90  | 87  | 99  | 94  | 89  | 86  | 92  | 88  | 85  | 90  | 87  | 84  | 88  | 85  | 83  | 83  | 83  | 82  |
| 5   | 97  | 90  | 85  | 82  | 96  | 89  | 85  | 81  | 88  | 84  | 81  | 86  | 83  | 80  | 85  | 82  | 79  | 79  | 79  | 78  |
| 6   | 93  | 86  | 81  | 77  | 92  | 85  | 81  | 77  | 84  | 80  | 77  | 82  | 79  | 76  | 81  | 78  | 76  | 76  | 76  | 74  |
| 7   | 90  | 82  | 77  | 74  | 89  | 81  | 77  | 73  | 80  | 76  | 73  | 79  | 75  | 73  | 78  | 75  | 72  | 72  | 72  | 71  |
| 8   | 86  | 79  | 74  | 70  | 85  | 78  | 73  | 70  | 77  | 73  | 70  | 76  | 72  | 69  | 75  | 72  | 69  | 69  | 69  | 68  |
| 9   | 83  | 75  | 70  | 67  | 82  | 75  | 70  | 67  | 74  | 70  | 67  | 73  | 69  | 66  | 72  | 69  | 66  | 66  | 66  | 65  |
| 10  | 80  | 72  | 67  | 64  | 79  | 72  | 67  | 64  | 71  | 67  | 64  | 70  | 66  | 64  | 70  | 66  | 64  | 64  | 64  | 62  |

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

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 1009468 | 1009468 | 1009468 |
| 5°  | 862026  | 931756  | 1012333 |
| 10° | 554978  | 742792  | 1036462 |
| 15° | 284701  | 495443  | 986289  |
| 20° | 152047  | 289499  | 867498  |
| 25° | 84758   | 158737  | 705660  |
| 30° | 45176   | 90409   | 491581  |
| 35° | 19695   | 43605   | 256272  |
| 40° | 5732    | 12752   | 97121   |
| 45° | 1395    | 3489    | 14513   |
| 50° | 768     | 768     | 1535    |
| 55° | 860     | 860     | 860     |
| 60° | 0       | 987     | 987     |
| 65° | 0       | 1167    | 1167    |
| 70° | 0       | 1442    | 1442    |
| 75° | 0       | 1906    | 1906    |
| 80° | 0       | 2841    | 2841    |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 14513 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 168.9  | 20.7      |
| 10°-20°   | 307.4  | 37.7      |
| 20°-30°   | 233.0  | 28.6      |
| 30°-40°   | 93.2   | 11.4      |
| 40°-50°   | 9.5    | 1.2       |
| 50°-60°   | 1.0    | 0.1       |
| 60°-70°   | 0.9    | 0.1       |
| 70°-80°   | 0.9    | 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°    | 709.3  | 87.0      |
| 0°-40°    | 802.6  | 98.5      |
| 0°-60°    | 813.0  | 99.8      |
| 0°-90°    | 815.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 815.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2046 | 2046  | 2046 | 2046  | 2046 |      |
| 5°  | 1741 | 1779  | 1881 | 1990  | 2044 | 146  |
| 15° | 557  | 647   | 970  | 1597  | 1931 | 160  |
| 25° | 156  | 182   | 292  | 833   | 1296 | 74   |
| 35° | 33   | 41    | 72   | 220   | 426  | 23   |
| 45° | 2    | 3     | 5    | 10    | 21   | 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°    | 2046.1 | 2046.1 | 2046.1 | 2046.1 | 2046.1 |
| 1°    | 2035.1 | 2036.1 | 2034.1 | 2037.1 | 2047.0 |
| 2°    | 1989.5 | 2004.4 | 2017.3 | 2030.2 | 2047.0 |
| 3°    | 1926.0 | 1943.9 | 1984.6 | 2025.2 | 2051.0 |
| 4°    | 1832.8 | 1869.5 | 1938.9 | 2013.3 | 2051.0 |
| 5°    | 1740.6 | 1779.3 | 1881.4 | 1990.5 | 2044.1 |
| 6°    | 1635.5 | 1691.0 | 1815.0 | 1968.7 | 2048.0 |
| 7°    | 1516.4 | 1584.9 | 1741.6 | 1954.8 | 2059.9 |
| 8°    | 1387.5 | 1464.9 | 1661.2 | 1925.1 | 2064.9 |
| 9°    | 1244.7 | 1338.9 | 1575.9 | 1889.3 | 2066.9 |
| 10°   | 1107.8 | 1207.0 | 1482.7 | 1848.7 | 2068.9 |
| 11°   | 971.0  | 1074.1 | 1381.6 | 1809.0 | 2060.9 |
| 12°   | 854.9  | 953.1  | 1275.4 | 1767.4 | 2049.0 |
| 13°   | 747.8  | 843.0  | 1170.3 | 1717.8 | 2018.3 |
| 14°   | 648.6  | 741.9  | 1069.1 | 1660.2 | 1977.6 |
| 15°   | 557.4  | 646.6  | 970.0  | 1596.8 | 1931.0 |
| 16°   | 475.1  | 558.4  | 874.8  | 1526.4 | 1879.4 |
| 17°   | 415.6  | 482.0  | 785.5  | 1452.0 | 1828.9 |
| 18°   | 368.9  | 418.5  | 701.2  | 1378.6 | 1775.3 |
| 19°   | 327.3  | 367.0  | 622.8  | 1302.2 | 1715.8 |
| 20°   | 289.6  | 325.3  | 551.4  | 1222.9 | 1652.3 |
| 21°   | 257.9  | 288.6  | 485.0  | 1144.5 | 1587.8 |
| 22°   | 230.1  | 256.9  | 425.5  | 1067.2 | 1517.4 |
| 23°   | 204.3  | 228.1  | 374.9  | 988.8  | 1447.0 |
| 24°   | 179.5  | 205.3  | 330.3  | 909.5  | 1373.6 |
| 25°   | 155.7  | 181.5  | 291.6  | 833.1  | 1296.3 |
| 26°   | 136.9  | 160.7  | 258.9  | 758.7  | 1215.9 |
| 27°   | 118.0  | 142.8  | 230.1  | 687.3  | 1134.6 |
| 28°   | 103.1  | 126.0  | 204.3  | 618.9  | 1046.3 |
| 29°   | 89.3   | 111.1  | 180.5  | 551.4  | 956.1  |
| 30°   | 79.3   | 96.2   | 158.7  | 488.0  | 862.9  |
| 32.5° | 54.5   | 64.5   | 111.1  | 343.2  | 629.8  |
| 35°   | 32.7   | 40.7   | 72.4   | 220.2  | 425.5  |
| 37.5° | 17.9   | 21.8   | 41.7   | 131.9  | 267.8  |
| 40°   | 8.9    | 10.9   | 19.8   | 64.5   | 150.8  |
| 42.5° | 4.0    | 5.0    | 8.9    | 24.8   | 64.5   |
| 45°   | 2.0    | 3.0    | 5.0    | 9.9    | 20.8   |
| 47.5° | 1.0    | 2.0    | 2.0    | 4.0    | 6.0    |
| 50°   | 1.0    | 1.0    | 1.0    | 2.0    | 2.0    |
| 52.5° | 1.0    | 1.0    | 1.0    | 2.0    | 2.0    |
| 55°   | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| 57.5° | 0.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| 60°   | 0.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| 62.5° | 0.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| 65°   | 0.0    | 1.0    | 1.0    | 1.0    | 1.0    |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 22.5° | 45° | 67.5° | 90° |
|-------|-----|-------|-----|-------|-----|
| 67.5° | 0.0 | 1.0   | 1.0 | 1.0   | 1.0 |
| 70°   | 0.0 | 1.0   | 1.0 | 1.0   | 1.0 |
| 72.5° | 0.0 | 1.0   | 1.0 | 1.0   | 1.0 |
| 75°   | 0.0 | 1.0   | 1.0 | 1.0   | 1.0 |
| 77.5° | 0.0 | 1.0   | 1.0 | 1.0   | 1.0 |
| 80°   | 0.0 | 0.0   | 1.0 | 1.0   | 1.0 |
| 82.5° | 0.0 | 0.0   | 1.0 | 1.0   | 1.0 |
| 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)