

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: P1179426

Luminaire Tested: LDA2B159030R2060D010 2LBD1WMH

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1179426  
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: LDA2B159030R2060D010 2LBD1WMH  
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

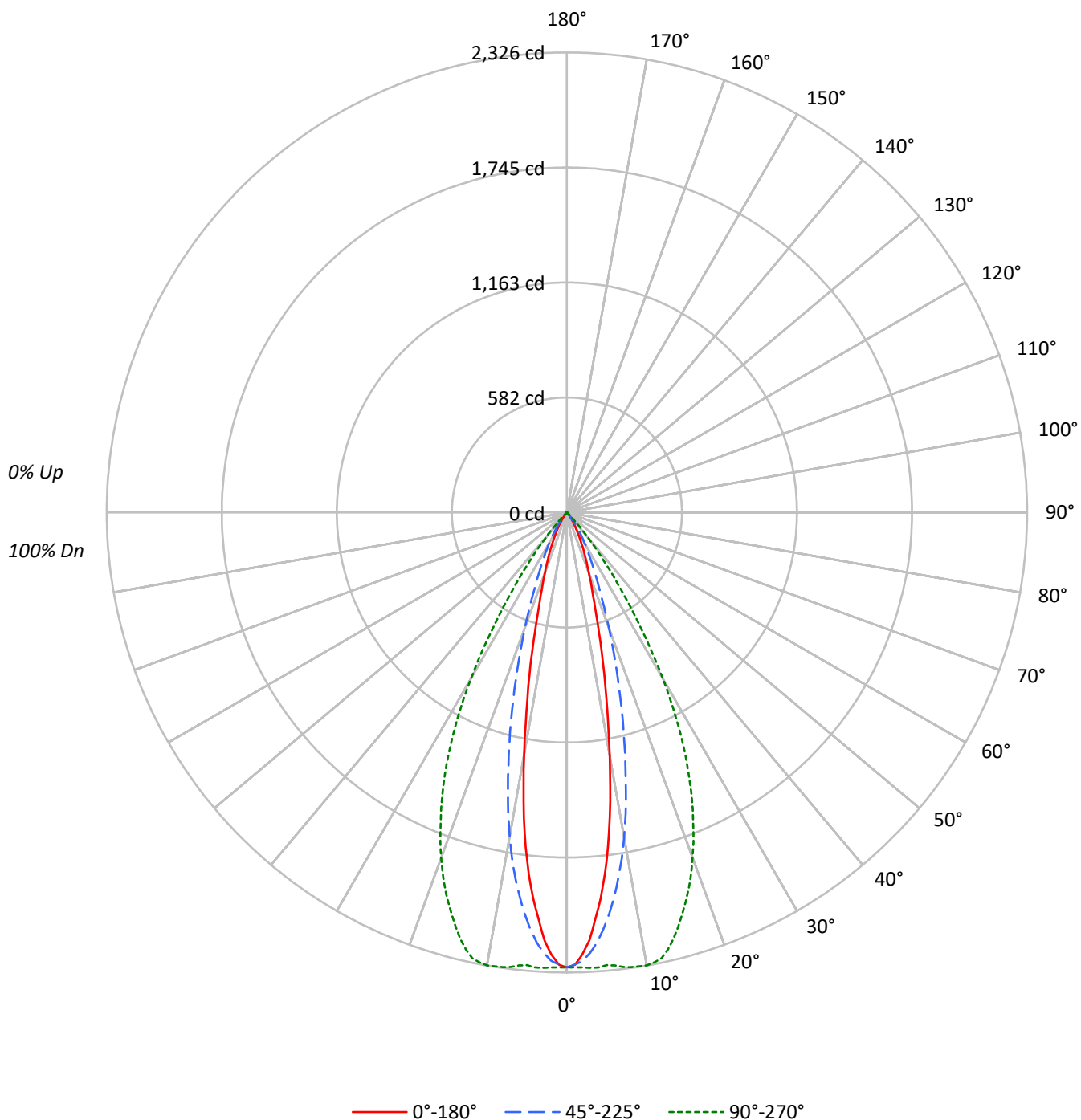
Lumens per Lamp: N/A  
Luminaire Lumens: 916.1 lumens  
Efficiency: N/A  
Efficacy: 65.0 lumens/watt  
Spacing Criteria (0/90/45): 0.36 / 0.9 / 0.52  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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°  | 1134781 | 1134781 | 1134781 |
| 5°  | 969049  | 1047446 | 1137977 |
| 10° | 623911  | 835021  | 1165112 |
| 15° | 320046  | 556939  | 1108719 |
| 20° | 170948  | 325463  | 975181  |
| 25° | 95264   | 178443  | 793248  |
| 30° | 50816   | 101632  | 552595  |
| 35° | 22164   | 49026   | 288072  |
| 40° | 6440    | 14362   | 109164  |
| 45° | 1535    | 3907    | 16327   |
| 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: 16327 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 189.8  | 20.7      |
| 10°-20°   | 345.6  | 37.7      |
| 20°-30°   | 262.0  | 28.6      |
| 30°-40°   | 104.8  | 11.4      |
| 40°-50°   | 10.6   | 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°    | 797.4  | 87.0      |
| 0°-40°    | 902.2  | 98.5      |
| 0°-60°    | 913.9  | 99.8      |
| 0°-90°    | 916.1  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 916.1  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2300 | 2300  | 2300 | 2300  | 2300 |      |
| 5°  | 1957 | 2000  | 2115 | 2238  | 2298 | 164  |
| 15° | 627  | 727   | 1090 | 1795  | 2171 | 179  |
| 25° | 175  | 204   | 328  | 936   | 1457 | 83   |
| 35° | 37   | 46    | 81   | 248   | 478  | 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°    | 2300.1 | 2300.1 | 2300.1 | 2300.1 | 2300.1 |
| 1°    | 2287.8 | 2288.9 | 2286.7 | 2290.0 | 2301.2 |
| 2°    | 2236.5 | 2253.2 | 2267.7 | 2282.2 | 2301.2 |
| 3°    | 2165.2 | 2185.2 | 2230.9 | 2276.6 | 2305.6 |
| 4°    | 2060.4 | 2101.6 | 2179.6 | 2263.3 | 2305.6 |
| 5°    | 1956.7 | 2000.1 | 2115.0 | 2237.6 | 2297.8 |
| 6°    | 1838.5 | 1900.9 | 2040.3 | 2213.1 | 2302.3 |
| 7°    | 1704.7 | 1781.6 | 1957.8 | 2197.5 | 2315.7 |
| 8°    | 1559.8 | 1646.7 | 1867.5 | 2164.0 | 2321.2 |
| 9°    | 1399.2 | 1505.1 | 1771.6 | 2123.9 | 2323.5 |
| 10°   | 1245.4 | 1356.8 | 1666.8 | 2078.2 | 2325.7 |
| 11°   | 1091.5 | 1207.4 | 1553.1 | 2033.6 | 2316.8 |
| 12°   | 961.1  | 1071.4 | 1433.8 | 1986.8 | 2303.4 |
| 13°   | 840.6  | 947.7  | 1315.6 | 1931.0 | 2268.8 |
| 14°   | 729.2  | 834.0  | 1201.9 | 1866.4 | 2223.1 |
| 15°   | 626.6  | 726.9  | 1090.4 | 1795.0 | 2170.7 |
| 16°   | 534.0  | 627.7  | 983.3  | 1715.8 | 2112.8 |
| 17°   | 467.1  | 541.8  | 883.0  | 1632.2 | 2055.9 |
| 18°   | 414.7  | 470.5  | 788.2  | 1549.7 | 1995.7 |
| 19°   | 367.9  | 412.5  | 700.2  | 1463.9 | 1928.8 |
| 20°   | 325.6  | 365.7  | 619.9  | 1374.7 | 1857.4 |
| 21°   | 289.9  | 324.4  | 545.2  | 1286.6 | 1785.0 |
| 22°   | 258.7  | 288.8  | 478.3  | 1199.6 | 1705.8 |
| 23°   | 229.7  | 256.4  | 421.4  | 1111.6 | 1626.7 |
| 24°   | 201.8  | 230.8  | 371.3  | 1022.4 | 1544.1 |
| 25°   | 175.0  | 204.0  | 327.8  | 936.5  | 1457.2 |
| 26°   | 153.9  | 180.6  | 291.0  | 852.9  | 1366.9 |
| 27°   | 132.7  | 160.5  | 258.7  | 772.6  | 1275.5 |
| 28°   | 116.0  | 141.6  | 229.7  | 695.7  | 1176.2 |
| 29°   | 100.3  | 124.9  | 202.9  | 619.9  | 1074.8 |
| 30°   | 89.2   | 108.1  | 178.4  | 548.5  | 970.0  |
| 32.5° | 61.3   | 72.5   | 124.9  | 385.8  | 708.0  |
| 35°   | 36.8   | 45.7   | 81.4   | 247.5  | 478.3  |
| 37.5° | 20.1   | 24.5   | 46.8   | 148.3  | 301.0  |
| 40°   | 10.0   | 12.3   | 22.3   | 72.5   | 169.5  |
| 42.5° | 4.5    | 5.6    | 10.0   | 27.9   | 72.5   |
| 45°   | 2.2    | 3.3    | 5.6    | 11.1   | 23.4   |
| 47.5° | 1.1    | 2.2    | 2.2    | 4.5    | 6.7    |
| 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)