

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: P1179581

Luminaire Tested: LDA2B159727R2060D010 2LBD1WHH

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1179581  
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: LDA2B159727R2060D010 2LBD1WHH  
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 97 CRI LEDS AND 2700K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

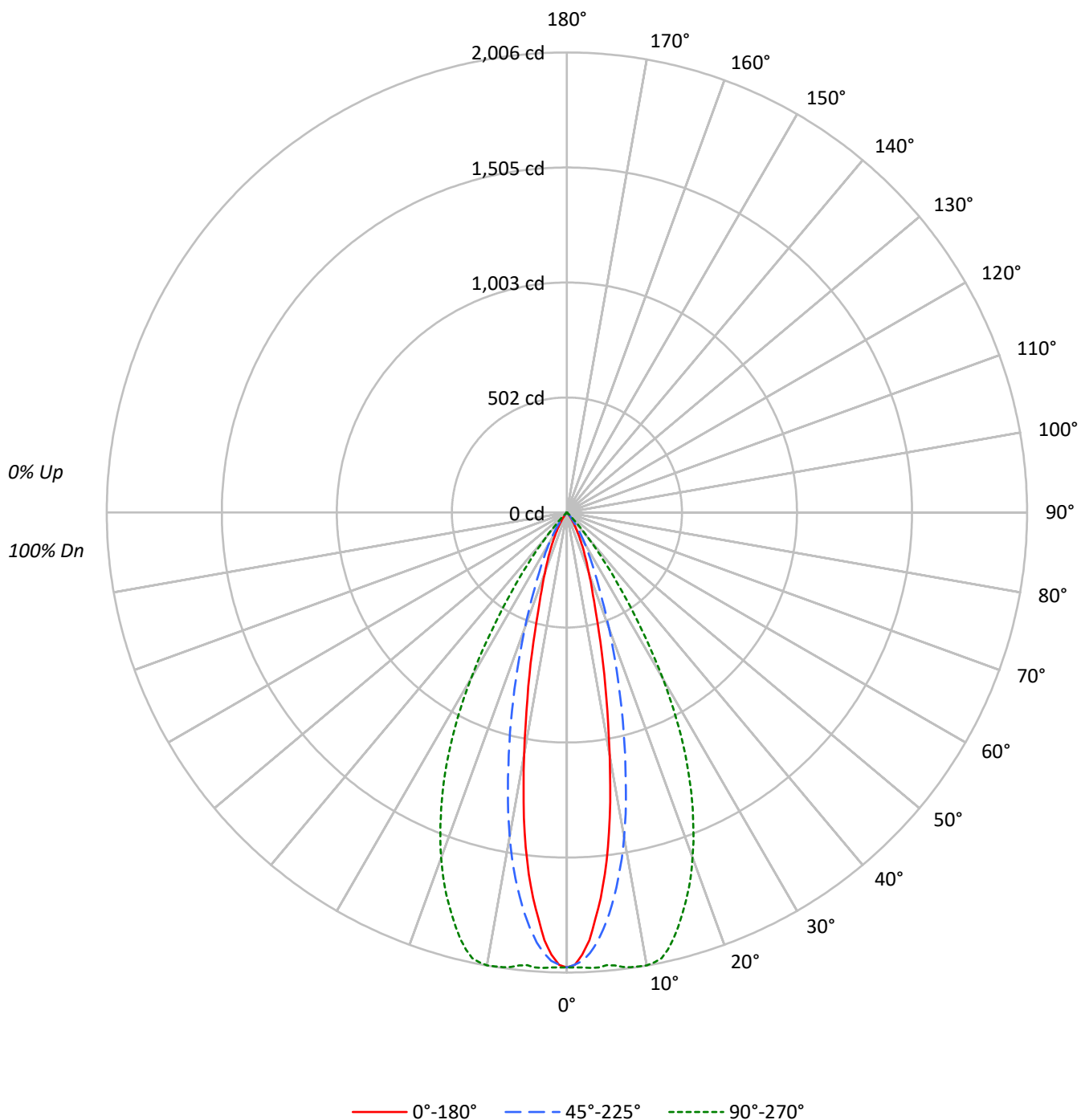
Lumens per Lamp: N/A  
Luminaire Lumens: 790.2 lumens  
Efficiency: N/A  
Efficacy: 56.0 lumens/watt  
Spacing Criteria (0/90/45): 0.36 / 0.9 / 0.52  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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  |     |     |     |     | 0   |
| 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°  | 978682 | 978682 | 978682  |
| 5°  | 835728 | 903329 | 981430  |
| 10° | 538045 | 720148 | 1004851 |
| 15° | 276018 | 480324 | 956204  |
| 20° | 147427 | 280678 | 841037  |
| 25° | 82199  | 153892 | 684103  |
| 30° | 43809  | 87618  | 476542  |
| 35° | 19092  | 42280  | 248442  |
| 40° | 5603   | 12366  | 94158   |
| 45° | 1326   | 3349   | 14094   |
| 50° | 768    | 768    | 1458    |
| 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: 14094 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 163.7  | 20.7      |
| 10°-20°   | 298.0  | 37.7      |
| 20°-30°   | 225.9  | 28.6      |
| 30°-40°   | 90.4   | 11.4      |
| 40°-50°   | 9.2    | 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°    | 687.7  | 87.0      |
| 0°-40°    | 778.1  | 98.5      |
| 0°-60°    | 788.2  | 99.7      |
| 0°-90°    | 790.2  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 790.2  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1984 | 1984  | 1984 | 1984  | 1984 |      |
| 5°  | 1688 | 1725  | 1824 | 1930  | 1982 | 141  |
| 15° | 540  | 627   | 940  | 1548  | 1872 | 155  |
| 25° | 151  | 176   | 283  | 808   | 1257 | 72   |
| 35° | 32   | 39    | 70   | 214   | 412  | 22   |
| 45° | 2    | 3     | 5    | 10    | 20   | 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°    | 1983.7 | 1983.7 | 1983.7 | 1983.7 | 1983.7 |
| 1°    | 1973.1 | 1974.0 | 1972.1 | 1975.0 | 1984.6 |
| 2°    | 1928.8 | 1943.3 | 1955.8 | 1968.3 | 1984.6 |
| 3°    | 1867.3 | 1884.6 | 1924.0 | 1963.5 | 1988.5 |
| 4°    | 1776.9 | 1812.5 | 1879.8 | 1951.9 | 1988.5 |
| 5°    | 1687.5 | 1725.0 | 1824.0 | 1929.8 | 1981.7 |
| 6°    | 1585.6 | 1639.4 | 1759.6 | 1908.7 | 1985.6 |
| 7°    | 1470.2 | 1536.5 | 1688.5 | 1895.2 | 1997.1 |
| 8°    | 1345.2 | 1420.2 | 1610.6 | 1866.3 | 2001.9 |
| 9°    | 1206.7 | 1298.1 | 1527.9 | 1831.7 | 2003.8 |
| 10°   | 1074.0 | 1170.2 | 1437.5 | 1792.3 | 2005.8 |
| 11°   | 941.3  | 1041.3 | 1339.4 | 1753.8 | 1998.1 |
| 12°   | 828.8  | 924.0  | 1236.5 | 1713.5 | 1986.5 |
| 13°   | 725.0  | 817.3  | 1134.6 | 1665.4 | 1956.7 |
| 14°   | 628.8  | 719.2  | 1036.5 | 1609.6 | 1917.3 |
| 15°   | 540.4  | 626.9  | 940.4  | 1548.1 | 1872.1 |
| 16°   | 460.6  | 541.3  | 848.1  | 1479.8 | 1822.1 |
| 17°   | 402.9  | 467.3  | 761.5  | 1407.7 | 1773.1 |
| 18°   | 357.7  | 405.8  | 679.8  | 1336.5 | 1721.2 |
| 19°   | 317.3  | 355.8  | 603.8  | 1262.5 | 1663.5 |
| 20°   | 280.8  | 315.4  | 534.6  | 1185.6 | 1601.9 |
| 21°   | 250.0  | 279.8  | 470.2  | 1109.6 | 1539.4 |
| 22°   | 223.1  | 249.0  | 412.5  | 1034.6 | 1471.2 |
| 23°   | 198.1  | 221.2  | 363.5  | 958.7  | 1402.9 |
| 24°   | 174.0  | 199.0  | 320.2  | 881.7  | 1331.7 |
| 25°   | 151.0  | 176.0  | 282.7  | 807.7  | 1256.7 |
| 26°   | 132.7  | 155.8  | 251.0  | 735.6  | 1178.8 |
| 27°   | 114.4  | 138.5  | 223.1  | 666.3  | 1100.0 |
| 28°   | 100.0  | 122.1  | 198.1  | 600.0  | 1014.4 |
| 29°   | 86.5   | 107.7  | 175.0  | 534.6  | 926.9  |
| 30°   | 76.9   | 93.3   | 153.8  | 473.1  | 836.5  |
| 32.5° | 52.9   | 62.5   | 107.7  | 332.7  | 610.6  |
| 35°   | 31.7   | 39.4   | 70.2   | 213.5  | 412.5  |
| 37.5° | 17.3   | 21.2   | 40.4   | 127.9  | 259.6  |
| 40°   | 8.7    | 10.6   | 19.2   | 62.5   | 146.2  |
| 42.5° | 3.8    | 4.8    | 8.7    | 24.0   | 62.5   |
| 45°   | 1.9    | 2.9    | 4.8    | 9.6    | 20.2   |
| 47.5° | 1.0    | 1.9    | 1.9    | 3.8    | 5.8    |
| 50°   | 1.0    | 1.0    | 1.0    | 1.9    | 1.9    |
| 52.5° | 1.0    | 1.0    | 1.0    | 1.9    | 1.9    |
| 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)