

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: P1178879

Luminaire Tested: LDA2B109027R2060D010 2LBD1MMS

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1178879  
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: LDA2B109027R2060D010 2LBD1MMS  
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2700K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

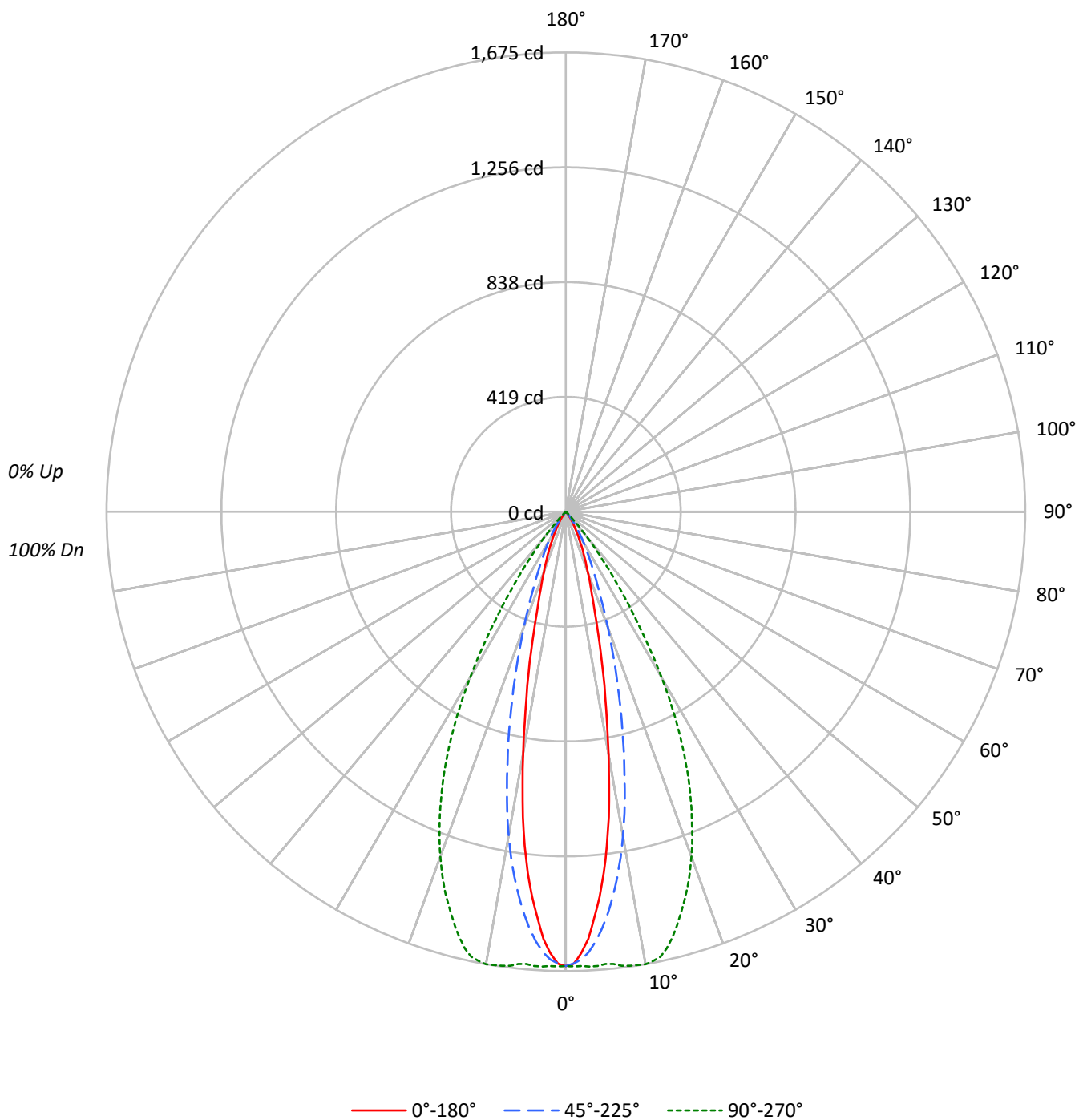
Lumens per Lamp: N/A  
Luminaire Lumens: 659.9 lumens  
Efficiency: N/A  
Efficacy: 66.0 lumens/watt  
Spacing Criteria (0/90/45): 0.36 / 0.9 / 0.52  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 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  | 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°  | 817451 | 817451 | 817451 |
| 5°  | 698050 | 754508 | 819781 |
| 10° | 449423 | 601518 | 839280 |
| 15° | 230560 | 401206 | 798684 |
| 20° | 123118 | 234424 | 702483 |
| 25° | 68644  | 128524 | 571419 |
| 30° | 36631  | 73205  | 398039 |
| 35° | 15961  | 35294  | 207487 |
| 40° | 4637   | 10369  | 78637  |
| 45° | 1116   | 2791   | 11791  |
| 50° | 614    | 614    | 1228   |
| 55° | 688    | 688    | 688    |
| 60° | 0      | 789    | 789    |
| 65° | 0      | 934    | 934    |
| 70° | 0      | 1154   | 1154   |
| 75° | 0      | 1525   | 1525   |
| 80° | 0      | 2273   | 2273   |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 11791 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 136.7  | 20.7      |
| 10°-20°   | 248.9  | 37.7      |
| 20°-30°   | 188.7  | 28.6      |
| 30°-40°   | 75.5   | 11.4      |
| 40°-50°   | 7.7    | 1.2       |
| 50°-60°   | 0.8    | 0.1       |
| 60°-70°   | 0.7    | 0.1       |
| 70°-80°   | 0.7    | 0.1       |
| 80°-90°   | 0.2    | 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°    | 574.4  | 87.0      |
| 0°-40°    | 649.9  | 98.5      |
| 0°-60°    | 658.3  | 99.8      |
| 0°-90°    | 659.9  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 659.9  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1657 | 1657  | 1657 | 1657  | 1657 |      |
| 5°  | 1410 | 1441  | 1524 | 1612  | 1655 | 118  |
| 15° | 451  | 524   | 786  | 1293  | 1564 | 129  |
| 25° | 126  | 147   | 236  | 675   | 1050 | 60   |
| 35° | 26   | 33    | 59   | 178   | 344  | 18   |
| 45° | 2    | 2     | 4    | 8     | 17   | 2    |
| 55° | 1    | 1     | 1    | 1     | 1    | 0    |
| 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°    | 1656.9 | 1656.9 | 1656.9 | 1656.9 | 1656.9 |
| 1°    | 1648.0 | 1648.8 | 1647.2 | 1649.6 | 1657.7 |
| 2°    | 1611.1 | 1623.1 | 1633.6 | 1644.0 | 1657.7 |
| 3°    | 1559.7 | 1574.1 | 1607.1 | 1640.0 | 1660.9 |
| 4°    | 1484.2 | 1513.9 | 1570.1 | 1630.4 | 1660.9 |
| 5°    | 1409.5 | 1440.8 | 1523.5 | 1611.9 | 1655.3 |
| 6°    | 1324.4 | 1369.3 | 1469.7 | 1594.2 | 1658.5 |
| 7°    | 1228.0 | 1283.4 | 1410.3 | 1583.0 | 1668.1 |
| 8°    | 1123.6 | 1186.2 | 1345.2 | 1558.9 | 1672.1 |
| 9°    | 1007.9 | 1084.2 | 1276.2 | 1530.0 | 1673.7 |
| 10°   | 897.1  | 977.4  | 1200.7 | 1497.0 | 1675.3 |
| 11°   | 786.3  | 869.8  | 1118.8 | 1464.9 | 1668.9 |
| 12°   | 692.3  | 771.8  | 1032.8 | 1431.2 | 1659.3 |
| 13°   | 605.6  | 682.7  | 947.7  | 1391.0 | 1634.4 |
| 14°   | 525.2  | 600.7  | 865.8  | 1344.4 | 1601.4 |
| 15°   | 451.4  | 523.6  | 785.5  | 1293.0 | 1563.7 |
| 16°   | 384.7  | 452.2  | 708.4  | 1236.0 | 1521.9 |
| 17°   | 336.5  | 390.3  | 636.1  | 1175.8 | 1481.0 |
| 18°   | 298.8  | 338.9  | 567.8  | 1116.4 | 1437.6 |
| 19°   | 265.0  | 297.2  | 504.4  | 1054.5 | 1389.4 |
| 20°   | 234.5  | 263.4  | 446.5  | 990.3  | 1338.0 |
| 21°   | 208.8  | 233.7  | 392.7  | 926.8  | 1285.8 |
| 22°   | 186.3  | 208.0  | 344.5  | 864.2  | 1228.8 |
| 23°   | 165.4  | 184.7  | 303.6  | 800.7  | 1171.8 |
| 24°   | 145.4  | 166.2  | 267.4  | 736.5  | 1112.3 |
| 25°   | 126.1  | 147.0  | 236.1  | 674.6  | 1049.7 |
| 26°   | 110.8  | 130.1  | 209.6  | 614.4  | 984.6  |
| 27°   | 95.6   | 115.7  | 186.3  | 556.6  | 918.8  |
| 28°   | 83.5   | 102.0  | 165.4  | 501.2  | 847.3  |
| 29°   | 72.3   | 90.0   | 146.2  | 446.5  | 774.2  |
| 30°   | 64.3   | 77.9   | 128.5  | 395.1  | 698.7  |
| 32.5° | 44.2   | 52.2   | 90.0   | 277.9  | 510.0  |
| 35°   | 26.5   | 32.9   | 58.6   | 178.3  | 344.5  |
| 37.5° | 14.5   | 17.7   | 33.7   | 106.8  | 216.8  |
| 40°   | 7.2    | 8.8    | 16.1   | 52.2   | 122.1  |
| 42.5° | 3.2    | 4.0    | 7.2    | 20.1   | 52.2   |
| 45°   | 1.6    | 2.4    | 4.0    | 8.0    | 16.9   |
| 47.5° | 0.8    | 1.6    | 1.6    | 3.2    | 4.8    |
| 50°   | 0.8    | 0.8    | 0.8    | 1.6    | 1.6    |
| 52.5° | 0.8    | 0.8    | 0.8    | 1.6    | 1.6    |
| 55°   | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    |
| 57.5° | 0.0    | 0.8    | 0.8    | 0.8    | 0.8    |
| 60°   | 0.0    | 0.8    | 0.8    | 0.8    | 0.8    |
| 62.5° | 0.0    | 0.8    | 0.8    | 0.8    | 0.8    |
| 65°   | 0.0    | 0.8    | 0.8    | 0.8    | 0.8    |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 22.5° | 45° | 67.5° | 90° |
|-------|-----|-------|-----|-------|-----|
| 67.5° | 0.0 | 0.8   | 0.8 | 0.8   | 0.8 |
| 70°   | 0.0 | 0.8   | 0.8 | 0.8   | 0.8 |
| 72.5° | 0.0 | 0.8   | 0.8 | 0.8   | 0.8 |
| 75°   | 0.0 | 0.8   | 0.8 | 0.8   | 0.8 |
| 77.5° | 0.0 | 0.8   | 0.8 | 0.8   | 0.8 |
| 80°   | 0.0 | 0.0   | 0.8 | 0.8   | 0.8 |
| 82.5° | 0.0 | 0.0   | 0.8 | 0.8   | 0.8 |
| 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)