

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: P1178293

Luminaire Tested: LDA2B058050R2060D010 2LBD1GPH

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1178293  
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: LDA2B058050R2060D010 2LBD1GPH  
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

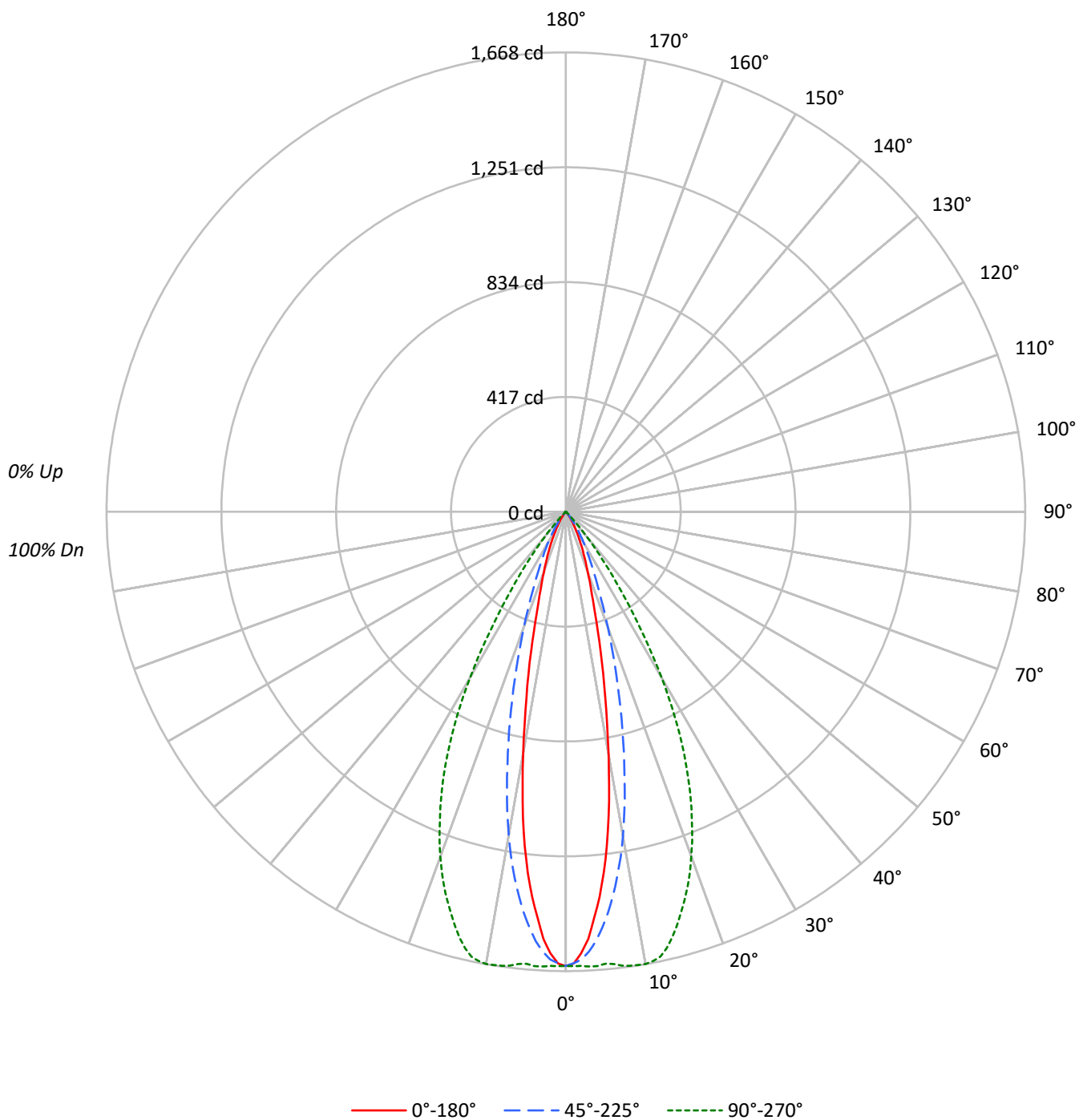
Lumens per Lamp: N/A  
Luminaire Lumens: 657.0 lumens  
Efficiency: N/A  
Efficacy: 93.9 lumens/watt  
Spacing Criteria (0/90/45): 0.36 / 0.9 / 0.52  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 7  
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°  | 813702 | 813702 | 813702 |
| 5°  | 694880 | 751091 | 816017 |
| 10° | 447369 | 598763 | 835472 |
| 15° | 229487 | 399368 | 795058 |
| 20° | 122593 | 233373 | 699333 |
| 25° | 68318  | 127980 | 568806 |
| 30° | 36460  | 72863  | 396273 |
| 35° | 15900  | 35173  | 206583 |
| 40° | 4637   | 10305  | 78251  |
| 45° | 1116   | 2791   | 11722  |
| 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: 11722 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 136.1  | 20.7      |
| 10°-20°   | 247.8  | 37.7      |
| 20°-30°   | 187.9  | 28.6      |
| 30°-40°   | 75.2   | 11.4      |
| 40°-50°   | 7.6    | 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°    | 571.8  | 87.0      |
| 0°-40°    | 647.0  | 98.5      |
| 0°-60°    | 655.4  | 99.8      |
| 0°-90°    | 657.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 657.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1649 | 1649  | 1649 | 1649  | 1649 |      |
| 5°  | 1403 | 1434  | 1517 | 1605  | 1648 | 117  |
| 15° | 449  | 521   | 782  | 1287  | 1557 | 129  |
| 25° | 126  | 146   | 235  | 672   | 1045 | 59   |
| 35° | 26   | 33    | 58   | 178   | 343  | 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°    | 1649.3 | 1649.3 | 1649.3 | 1649.3 | 1649.3 |
| 1°    | 1640.6 | 1641.4 | 1639.8 | 1642.2 | 1650.1 |
| 2°    | 1603.8 | 1615.8 | 1626.2 | 1636.6 | 1650.1 |
| 3°    | 1552.6 | 1567.0 | 1599.8 | 1632.6 | 1653.3 |
| 4°    | 1477.5 | 1507.0 | 1563.0 | 1623.0 | 1653.3 |
| 5°    | 1403.1 | 1434.3 | 1516.6 | 1604.6 | 1647.7 |
| 6°    | 1318.4 | 1363.1 | 1463.1 | 1587.0 | 1650.9 |
| 7°    | 1222.4 | 1277.6 | 1403.9 | 1575.8 | 1660.5 |
| 8°    | 1118.5 | 1180.8 | 1339.1 | 1551.8 | 1664.5 |
| 9°    | 1003.4 | 1079.3 | 1270.4 | 1523.0 | 1666.1 |
| 10°   | 893.0  | 973.0  | 1195.2 | 1490.3 | 1667.7 |
| 11°   | 782.7  | 865.8  | 1113.7 | 1458.3 | 1661.3 |
| 12°   | 689.2  | 768.3  | 1028.1 | 1424.7 | 1651.7 |
| 13°   | 602.8  | 679.6  | 943.4  | 1384.7 | 1627.0 |
| 14°   | 522.9  | 598.0  | 861.9  | 1338.3 | 1594.2 |
| 15°   | 449.3  | 521.3  | 781.9  | 1287.2 | 1556.6 |
| 16°   | 383.0  | 450.1  | 705.2  | 1230.4 | 1515.0 |
| 17°   | 335.0  | 388.6  | 633.2  | 1170.5 | 1474.3 |
| 18°   | 297.4  | 337.4  | 565.2  | 1111.3 | 1431.1 |
| 19°   | 263.8  | 295.8  | 502.1  | 1049.7 | 1383.1 |
| 20°   | 233.5  | 262.2  | 444.5  | 985.8  | 1332.0 |
| 21°   | 207.9  | 232.7  | 391.0  | 922.6  | 1280.0 |
| 22°   | 185.5  | 207.1  | 343.0  | 860.3  | 1223.2 |
| 23°   | 164.7  | 183.9  | 302.2  | 797.1  | 1166.5 |
| 24°   | 144.7  | 165.5  | 266.2  | 733.1  | 1107.3 |
| 25°   | 125.5  | 146.3  | 235.1  | 671.6  | 1044.9 |
| 26°   | 110.3  | 129.5  | 208.7  | 611.6  | 980.2  |
| 27°   | 95.1   | 115.1  | 185.5  | 554.0  | 914.6  |
| 28°   | 83.1   | 101.5  | 164.7  | 498.9  | 843.5  |
| 29°   | 72.0   | 89.5   | 145.5  | 444.5  | 770.7  |
| 30°   | 64.0   | 77.6   | 127.9  | 393.3  | 695.6  |
| 32.5° | 44.0   | 52.0   | 89.5   | 276.6  | 507.7  |
| 35°   | 26.4   | 32.8   | 58.4   | 177.5  | 343.0  |
| 37.5° | 14.4   | 17.6   | 33.6   | 106.3  | 215.9  |
| 40°   | 7.2    | 8.8    | 16.0   | 52.0   | 121.5  |
| 42.5° | 3.2    | 4.0    | 7.2    | 20.0   | 52.0   |
| 45°   | 1.6    | 2.4    | 4.0    | 8.0    | 16.8   |
| 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)