

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: P1178498

Luminaire Tested: LDA2B059040R2060D010 2LBDC1MMS

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1178498  
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: LDA2B059040R2060D010 2LBDC1MMS  
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

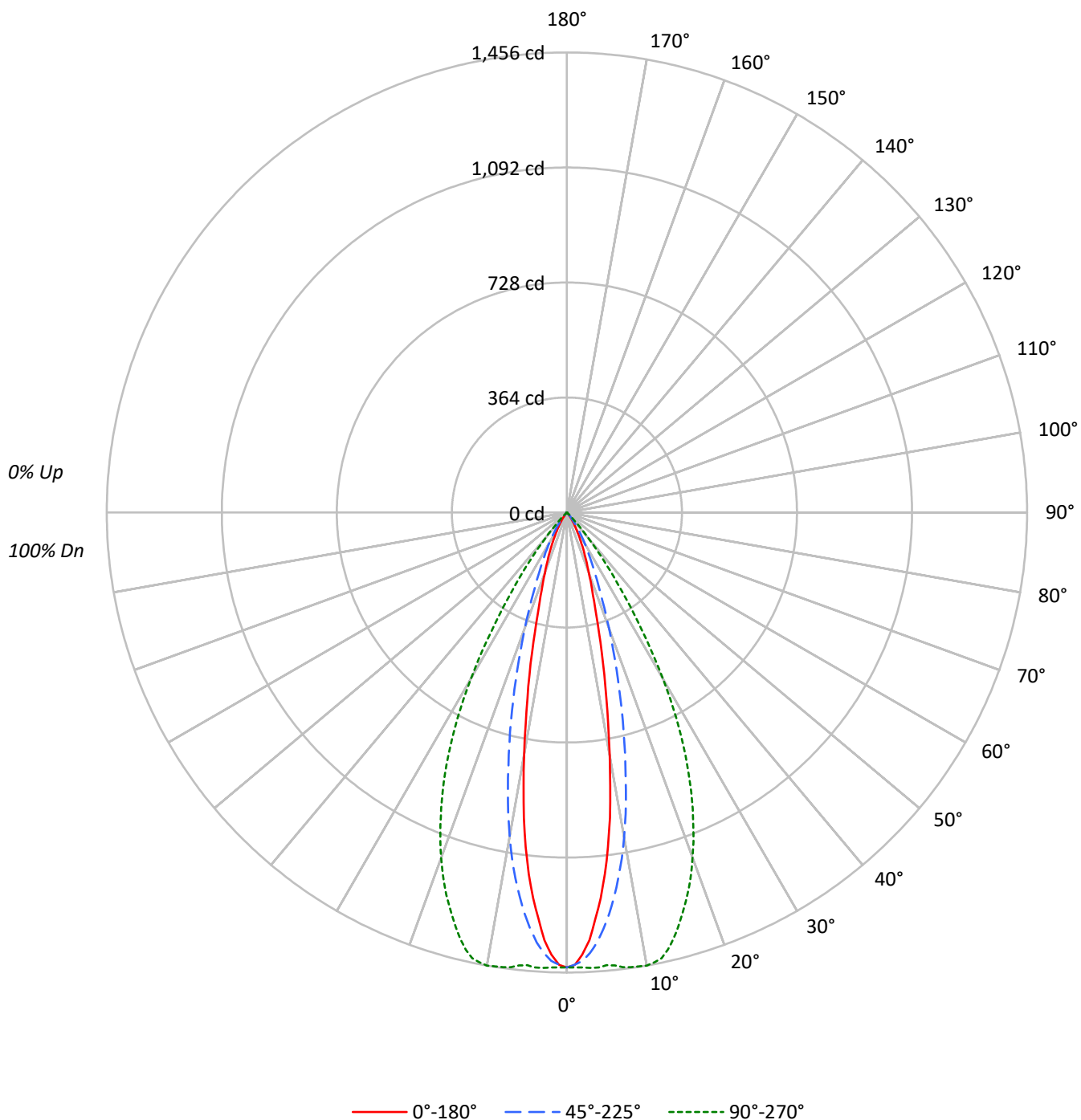
Lumens per Lamp: N/A  
Luminaire Lumens: 573.6 lumens  
Efficiency: N/A  
Efficacy: 81.9 lumens/watt  
Spacing Criteria (0/90/45): 0.36 / 0.9 / 0.52  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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°  | 710392 | 710392 | 710392 |
| 5°  | 606627 | 655706 | 712412 |
| 10° | 390558 | 522765 | 729416 |
| 15° | 200373 | 348649 | 694080 |
| 20° | 107000 | 203762 | 610499 |
| 25° | 59662  | 111704 | 496569 |
| 30° | 31788  | 63634  | 345913 |
| 35° | 13853  | 30716  | 180324 |
| 40° | 4057   | 9017   | 68332  |
| 45° | 977    | 2442   | 10256  |
| 50° | 537    | 537    | 1075   |
| 55° | 602    | 602    | 602    |
| 60° | 0      | 691    | 691    |
| 65° | 0      | 817    | 817    |
| 70° | 0      | 1010   | 1010   |
| 75° | 0      | 1334   | 1334   |
| 80° | 0      | 1989   | 1989   |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 10256 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 118.8  | 20.7      |
| 10°-20°   | 216.3  | 37.7      |
| 20°-30°   | 164.0  | 28.6      |
| 30°-40°   | 65.6   | 11.4      |
| 40°-50°   | 6.7    | 1.2       |
| 50°-60°   | 0.7    | 0.1       |
| 60°-70°   | 0.6    | 0.1       |
| 70°-80°   | 0.6    | 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°    | 499.2  | 87.0      |
| 0°-40°    | 564.8  | 98.5      |
| 0°-60°    | 572.1  | 99.8      |
| 0°-90°    | 573.6  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 573.6  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1440 | 1440  | 1440 | 1440  | 1440 |      |
| 5°  | 1225 | 1252  | 1324 | 1401  | 1438 | 103  |
| 15° | 392  | 455   | 683  | 1124  | 1359 | 112  |
| 25° | 110  | 128   | 205  | 586   | 912  | 52   |
| 35° | 23   | 29    | 51   | 155   | 299  | 16   |
| 45° | 1    | 2     | 4    | 7     | 15   | 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°    | 1439.9 | 1439.9 | 1439.9 | 1439.9 | 1439.9 |
| 1°    | 1432.2 | 1432.9 | 1431.5 | 1433.6 | 1440.6 |
| 2°    | 1400.1 | 1410.6 | 1419.7 | 1428.7 | 1440.6 |
| 3°    | 1355.5 | 1368.0 | 1396.6 | 1425.3 | 1443.4 |
| 4°    | 1289.8 | 1315.7 | 1364.5 | 1416.9 | 1443.4 |
| 5°    | 1224.9 | 1252.2 | 1324.0 | 1400.8 | 1438.5 |
| 6°    | 1150.9 | 1190.0 | 1277.3 | 1385.5 | 1441.3 |
| 7°    | 1067.2 | 1115.4 | 1225.6 | 1375.7 | 1449.7 |
| 8°    | 976.5  | 1030.9 | 1169.1 | 1354.8 | 1453.2 |
| 9°    | 876.0  | 942.3  | 1109.1 | 1329.6 | 1454.6 |
| 10°   | 779.6  | 849.4  | 1043.5 | 1301.0 | 1456.0 |
| 11°   | 683.3  | 755.9  | 972.3  | 1273.1 | 1450.4 |
| 12°   | 601.6  | 670.7  | 897.6  | 1243.8 | 1442.0 |
| 13°   | 526.3  | 593.3  | 823.6  | 1208.9 | 1420.4 |
| 14°   | 456.5  | 522.1  | 752.4  | 1168.4 | 1391.7 |
| 15°   | 392.3  | 455.1  | 682.6  | 1123.7 | 1358.9 |
| 16°   | 334.3  | 393.0  | 615.6  | 1074.2 | 1322.6 |
| 17°   | 292.4  | 339.2  | 552.8  | 1021.8 | 1287.1 |
| 18°   | 259.6  | 294.5  | 493.5  | 970.2  | 1249.4 |
| 19°   | 230.3  | 258.2  | 438.3  | 916.4  | 1207.5 |
| 20°   | 203.8  | 228.9  | 388.1  | 860.6  | 1162.8 |
| 21°   | 181.5  | 203.1  | 341.3  | 805.5  | 1117.4 |
| 22°   | 161.9  | 180.8  | 299.4  | 751.0  | 1067.9 |
| 23°   | 143.8  | 160.5  | 263.8  | 695.9  | 1018.3 |
| 24°   | 126.3  | 144.5  | 232.4  | 640.0  | 966.7  |
| 25°   | 109.6  | 127.7  | 205.2  | 586.3  | 912.2  |
| 26°   | 96.3   | 113.1  | 182.2  | 533.9  | 855.7  |
| 27°   | 83.1   | 100.5  | 161.9  | 483.7  | 798.5  |
| 28°   | 72.6   | 88.6   | 143.8  | 435.5  | 736.4  |
| 29°   | 62.8   | 78.2   | 127.0  | 388.1  | 672.8  |
| 30°   | 55.8   | 67.7   | 111.7  | 343.4  | 607.2  |
| 32.5° | 38.4   | 45.4   | 78.2   | 241.5  | 443.2  |
| 35°   | 23.0   | 28.6   | 51.0   | 154.9  | 299.4  |
| 37.5° | 12.6   | 15.4   | 29.3   | 92.8   | 188.5  |
| 40°   | 6.3    | 7.7    | 14.0   | 45.4   | 106.1  |
| 42.5° | 2.8    | 3.5    | 6.3    | 17.4   | 45.4   |
| 45°   | 1.4    | 2.1    | 3.5    | 7.0    | 14.7   |
| 47.5° | 0.7    | 1.4    | 1.4    | 2.8    | 4.2    |
| 50°   | 0.7    | 0.7    | 0.7    | 1.4    | 1.4    |
| 52.5° | 0.7    | 0.7    | 0.7    | 1.4    | 1.4    |
| 55°   | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    |
| 57.5° | 0.0    | 0.7    | 0.7    | 0.7    | 0.7    |
| 60°   | 0.0    | 0.7    | 0.7    | 0.7    | 0.7    |
| 62.5° | 0.0    | 0.7    | 0.7    | 0.7    | 0.7    |
| 65°   | 0.0    | 0.7    | 0.7    | 0.7    | 0.7    |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 22.5° | 45° | 67.5° | 90° |
|-------|-----|-------|-----|-------|-----|
| 67.5° | 0.0 | 0.7   | 0.7 | 0.7   | 0.7 |
| 70°   | 0.0 | 0.7   | 0.7 | 0.7   | 0.7 |
| 72.5° | 0.0 | 0.7   | 0.7 | 0.7   | 0.7 |
| 75°   | 0.0 | 0.7   | 0.7 | 0.7   | 0.7 |
| 77.5° | 0.0 | 0.7   | 0.7 | 0.7   | 0.7 |
| 80°   | 0.0 | 0.0   | 0.7 | 0.7   | 0.7 |
| 82.5° | 0.0 | 0.0   | 0.7 | 0.7   | 0.7 |
| 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)