

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: P1179104

Luminaire Tested: LDA2B109730R2050D010 2LBD1WMH

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1179104  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2206-683-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/17/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDA2B109730R2050D010 2LBD1WMH  
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 97 CRI LEDS AND 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

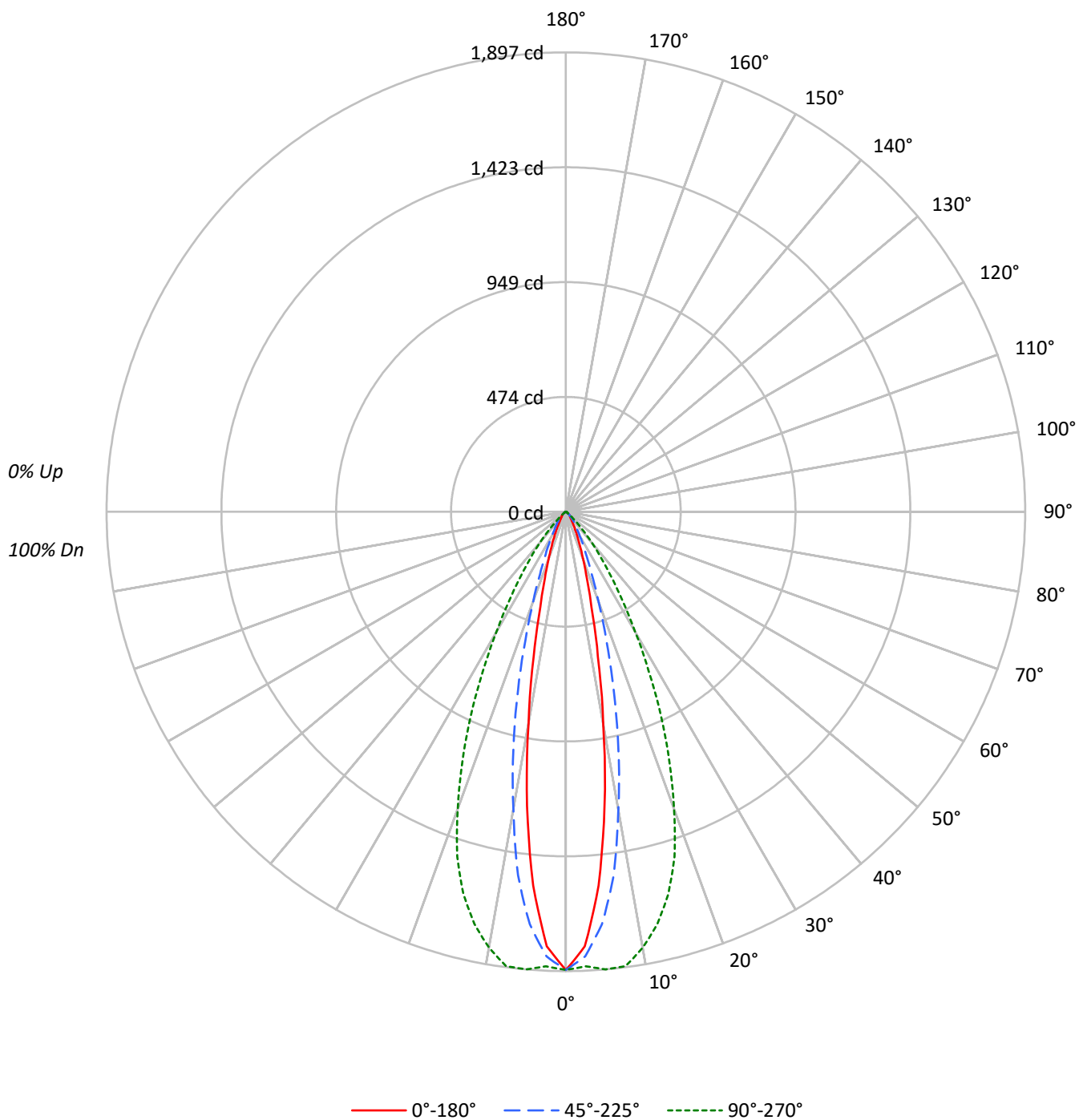
Lumens per Lamp: N/A  
Luminaire Lumens: 680.1 lumens  
Efficiency: N/A  
Efficacy: 68.0 lumens/watt  
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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 | 109 | 107 | 112 | 109 | 107 | 106 | 105 | 104 | 102 | 102 | 100 | 99  | 98  | 97  | 96  | 96  | 96  | 95  |
| 2   | 109 | 105 | 101 | 98  | 107 | 103 | 100 | 97  | 100 | 97  | 95  | 97  | 95  | 93  | 94  | 93  | 91  | 91  | 91  | 90  |
| 3   | 105 | 99  | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 92  | 89  | 93  | 90  | 88  | 90  | 88  | 86  | 86  | 86  | 85  |
| 4   | 100 | 94  | 89  | 85  | 99  | 93  | 88  | 85  | 91  | 87  | 84  | 89  | 85  | 83  | 87  | 84  | 82  | 82  | 82  | 80  |
| 5   | 96  | 89  | 84  | 80  | 95  | 88  | 83  | 80  | 86  | 82  | 79  | 85  | 81  | 78  | 83  | 80  | 78  | 78  | 78  | 76  |
| 6   | 92  | 85  | 80  | 76  | 91  | 84  | 79  | 76  | 83  | 78  | 75  | 81  | 77  | 75  | 80  | 77  | 74  | 74  | 74  | 73  |
| 7   | 89  | 81  | 76  | 72  | 88  | 80  | 75  | 72  | 79  | 75  | 71  | 78  | 74  | 71  | 77  | 73  | 71  | 71  | 71  | 70  |
| 8   | 85  | 77  | 72  | 69  | 84  | 77  | 72  | 69  | 76  | 71  | 68  | 75  | 71  | 68  | 74  | 70  | 68  | 68  | 68  | 67  |
| 9   | 82  | 74  | 69  | 66  | 81  | 74  | 69  | 66  | 73  | 68  | 65  | 72  | 68  | 65  | 71  | 68  | 65  | 65  | 65  | 64  |
| 10  | 79  | 71  | 66  | 63  | 79  | 71  | 66  | 63  | 70  | 66  | 63  | 69  | 65  | 62  | 69  | 65  | 62  | 62  | 62  | 61  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 933490 | 933490 | 933490 |
| 5°  | 767434 | 846772 | 939383 |
| 10° | 445465 | 625715 | 915828 |
| 15° | 207524 | 389714 | 834591 |
| 20° | 109363 | 205495 | 685997 |
| 25° | 60588  | 111268 | 505987 |
| 30° | 35491  | 65172  | 327227 |
| 35° | 22827  | 43726  | 193875 |
| 40° | 17775  | 29497  | 107748 |
| 45° | 15420  | 17583  | 47864  |
| 50° | 13892  | 12127  | 17577  |
| 55° | 9462   | 8860   | 8171   |
| 60° | 7006   | 6216   | 6216   |
| 65° | 5487   | 4553   | 5487   |
| 70° | 4616   | 4616   | 4616   |
| 75° | 4575   | 4575   | 4575   |
| 80° | 4546   | 4546   | 4546   |
| 85° | 4529   | 4529   | 4529   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 47864 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 150.6  | 22.1      |
| 10°-20°   | 246.7  | 36.3      |
| 20°-30°   | 164.5  | 24.2      |
| 30°-40°   | 74.2   | 10.9      |
| 40°-50°   | 27.1   | 4.0       |
| 50°-60°   | 9.5    | 1.4       |
| 60°-70°   | 4.4    | 0.7       |
| 70°-80°   | 2.4    | 0.3       |
| 80°-90°   | 0.7    | 0.1       |
| 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°    | 561.9  | 82.6      |
| 0°-40°    | 636.0  | 93.5      |
| 0°-60°    | 672.7  | 98.9      |
| 0°-90°    | 680.1  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 680.1  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1892 | 1892  | 1892 | 1892  | 1892 |      |
| 5°  | 1550 | 1598  | 1710 | 1834  | 1897 | 127  |
| 15° | 406  | 477   | 763  | 1289  | 1634 | 122  |
| 25° | 111  | 129   | 204  | 557   | 930  | 54   |
| 35° | 38   | 43    | 73   | 157   | 322  | 25   |
| 45° | 22   | 22    | 25   | 40    | 69   | 17   |
| 55° | 11   | 10    | 10   | 9     | 10   | 10   |
| 65° | 5    | 5     | 4    | 4     | 5    | 5    |
| 75° | 2    | 2     | 2    | 2     | 2    | 2    |
| 85° | 1    | 1     | 1    | 1     | 1    | 1    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1892.1 | 1892.1 | 1892.1 | 1892.1 | 1892.1 |
| 2.5°  | 1796.6 | 1815.5 | 1837.6 | 1860.5 | 1878.6 |
| 5°    | 1549.6 | 1597.8 | 1709.8 | 1834.5 | 1896.8 |
| 7.5°  | 1225.3 | 1296.3 | 1514.1 | 1760.3 | 1892.1 |
| 10°   | 889.2  | 980.0  | 1249.0 | 1631.7 | 1828.1 |
| 12.5° | 611.5  | 696.7  | 1002.0 | 1469.1 | 1743.7 |
| 15°   | 406.3  | 477.4  | 763.0  | 1289.2 | 1634.0 |
| 17.5° | 286.4  | 334.5  | 554.7  | 1092.8 | 1492.8 |
| 20°   | 208.3  | 240.6  | 391.4  | 900.3  | 1306.6 |
| 22.5° | 151.5  | 176.0  | 278.5  | 719.6  | 1118.0 |
| 25°   | 111.3  | 129.4  | 204.4  | 557.0  | 929.5  |
| 27.5° | 82.8   | 97.0   | 153.1  | 422.9  | 740.9  |
| 30°   | 62.3   | 74.2   | 114.4  | 311.7  | 574.4  |
| 32.5° | 48.1   | 56.0   | 87.6   | 222.5  | 434.7  |
| 35°   | 37.9   | 42.6   | 72.6   | 157.0  | 321.9  |
| 37.5° | 31.6   | 34.7   | 60.0   | 109.7  | 235.9  |
| 40°   | 27.6   | 30.0   | 45.8   | 78.1   | 167.3  |
| 42.5° | 24.5   | 26.0   | 33.1   | 56.0   | 108.9  |
| 45°   | 22.1   | 22.1   | 25.2   | 39.5   | 68.6   |
| 47.5° | 20.5   | 18.1   | 19.7   | 27.6   | 40.2   |
| 50°   | 18.1   | 15.0   | 15.8   | 18.9   | 22.9   |
| 52.5° | 14.2   | 12.6   | 12.6   | 12.6   | 13.4   |
| 55°   | 11.0   | 10.3   | 10.3   | 8.7    | 9.5    |
| 57.5° | 8.7    | 8.7    | 7.9    | 7.1    | 7.9    |
| 60°   | 7.1    | 7.1    | 6.3    | 5.5    | 6.3    |
| 62.5° | 5.5    | 5.5    | 4.7    | 4.7    | 5.5    |
| 65°   | 4.7    | 4.7    | 3.9    | 3.9    | 4.7    |
| 67.5° | 3.9    | 3.9    | 3.9    | 3.2    | 3.9    |
| 70°   | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    |
| 72.5° | 2.4    | 2.4    | 3.2    | 2.4    | 2.4    |
| 75°   | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    |
| 77.5° | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    |
| 80°   | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    |
| 82.5° | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    |
| 85°   | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    |
| 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)