

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: P1179602

Luminaire Tested: LDA2B159730R2050D010 2LBD1LI

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1179602  
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: LDA2B159730R2050D010 2LBD1LI  
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 97 CRI LEDS AND 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

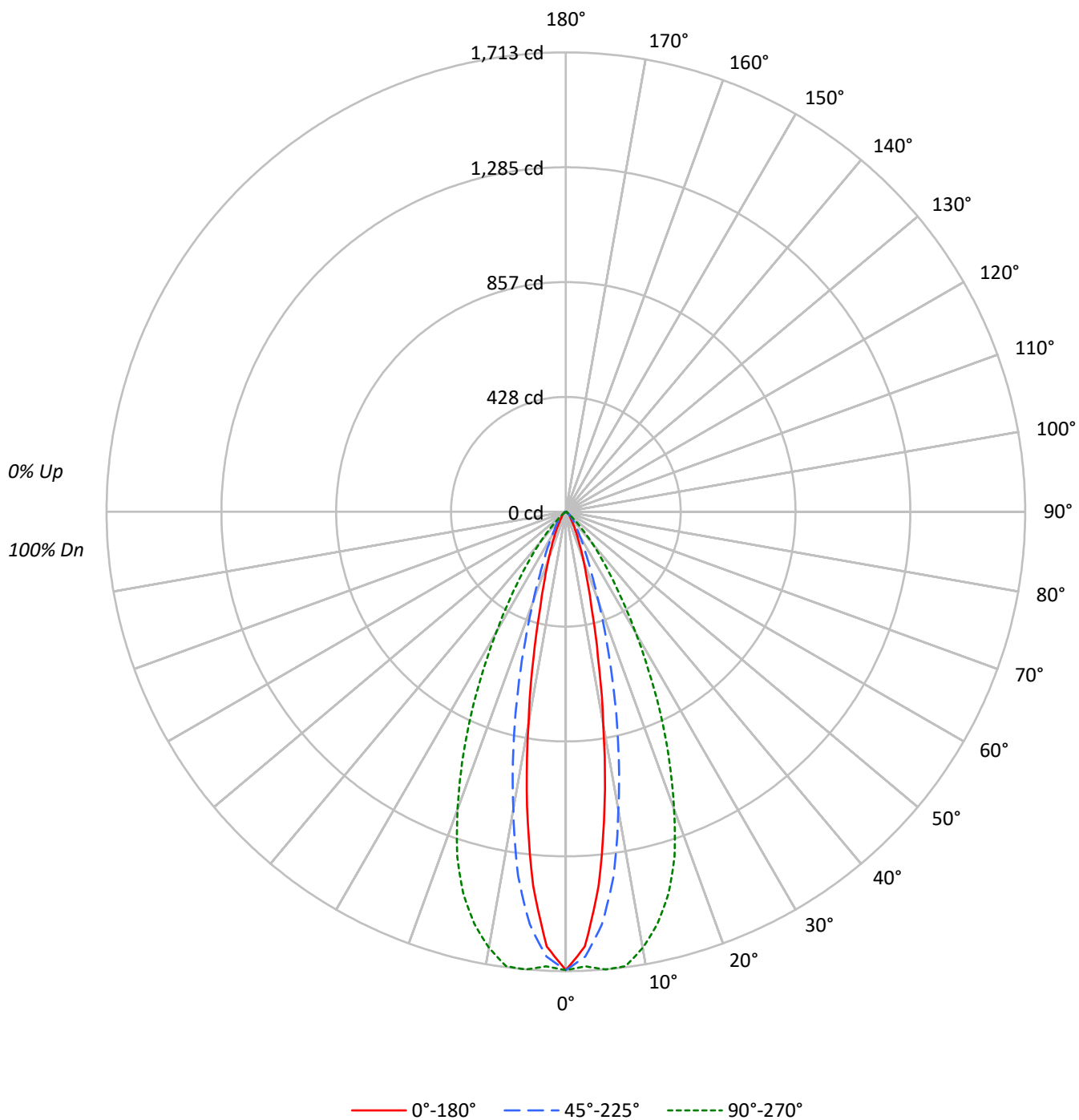
Lumens per Lamp: N/A  
Luminaire Lumens: 614.3 lumens  
Efficiency: N/A  
Efficacy: 43.6 lumens/watt  
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 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  |     |     |  | 10  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 114 | 112 | 109 | 107 | 112 | 109 | 107 | 106 | 105 | 104 | 102 |  | 102 | 100 | 99  |  | 98  |
| 2   | 109 | 105 | 101 | 98  | 107 | 103 | 100 | 97  | 100 | 97  | 95  |  | 97  | 95  | 93  |  | 94  |
| 3   | 105 | 99  | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 92  | 89  |  | 93  | 90  | 88  |  | 90  |
| 4   | 100 | 94  | 89  | 85  | 99  | 93  | 88  | 85  | 91  | 87  | 84  |  | 89  | 85  | 83  |  | 87  |
| 5   | 96  | 89  | 84  | 80  | 95  | 88  | 83  | 80  | 86  | 82  | 79  |  | 85  | 81  | 78  |  | 83  |
| 6   | 92  | 85  | 80  | 76  | 91  | 84  | 79  | 76  | 83  | 78  | 75  |  | 81  | 77  | 75  |  | 80  |
| 7   | 89  | 81  | 76  | 72  | 88  | 80  | 75  | 72  | 79  | 75  | 71  |  | 78  | 74  | 71  |  | 77  |
| 8   | 85  | 77  | 72  | 69  | 84  | 77  | 72  | 69  | 76  | 71  | 68  |  | 75  | 71  | 68  |  | 74  |
| 9   | 82  | 74  | 69  | 66  | 81  | 74  | 69  | 66  | 73  | 68  | 65  |  | 72  | 68  | 65  |  | 71  |
| 10  | 79  | 71  | 66  | 63  | 79  | 71  | 66  | 63  | 70  | 66  | 63  |  | 69  | 65  | 62  |  | 69  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 843155 | 843155 | 843155 |
| 5°  | 693196 | 764858 | 848506 |
| 10° | 402381 | 565197 | 827256 |
| 15° | 187451 | 352020 | 753890 |
| 20° | 98810  | 185596 | 619634 |
| 25° | 54709  | 100490 | 456994 |
| 30° | 32073  | 58848  | 295553 |
| 35° | 20598  | 39510  | 175144 |
| 40° | 16037  | 26599  | 97314  |
| 45° | 13954  | 15908  | 43259  |
| 50° | 12588  | 10976  | 15888  |
| 55° | 8602   | 7999   | 7397   |
| 60° | 6315   | 5624   | 5624   |
| 65° | 5020   | 4203   | 5020   |
| 70° | 4183   | 4183   | 4183   |
| 75° | 4003   | 4003   | 4003   |
| 80° | 3978   | 3978   | 3978   |
| 85° | 3962   | 3962   | 3962   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 43259 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 136.1  | 22.2      |
| 10°-20°   | 222.8  | 36.3      |
| 20°-30°   | 148.6  | 24.2      |
| 30°-40°   | 67.0   | 10.9      |
| 40°-50°   | 24.5   | 4.0       |
| 50°-60°   | 8.6    | 1.4       |
| 60°-70°   | 4.0    | 0.7       |
| 70°-80°   | 2.1    | 0.3       |
| 80°-90°   | 0.6    | 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°    | 507.5  | 82.6      |
| 0°-40°    | 574.5  | 93.5      |
| 0°-60°    | 607.6  | 98.9      |
| 0°-90°    | 614.3  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 614.3  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1709 | 1709  | 1709 | 1709  | 1709 |      |
| 5°  | 1400 | 1443  | 1544 | 1657  | 1713 | 114  |
| 15° | 367  | 431   | 689  | 1164  | 1476 | 110  |
| 25° | 100  | 117   | 185  | 503   | 840  | 49   |
| 35° | 34   | 38    | 66   | 142   | 291  | 23   |
| 45° | 20   | 20    | 23   | 36    | 62   | 16   |
| 55° | 10   | 9     | 9    | 8     | 9    | 9    |
| 65° | 4    | 4     | 4    | 4     | 4    | 4    |
| 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°    | 1709.0 | 1709.0 | 1709.0 | 1709.0 | 1709.0 |
| 2.5°  | 1622.8 | 1639.9 | 1659.9 | 1680.5 | 1696.9 |
| 5°    | 1399.7 | 1443.2 | 1544.4 | 1657.0 | 1713.3 |
| 7.5°  | 1106.8 | 1171.0 | 1367.7 | 1590.0 | 1709.0 |
| 10°   | 803.2  | 885.2  | 1128.2 | 1473.8 | 1651.3 |
| 12.5° | 552.3  | 629.3  | 905.1  | 1327.0 | 1575.0 |
| 15°   | 367.0  | 431.2  | 689.2  | 1164.5 | 1476.0 |
| 17.5° | 258.7  | 302.2  | 501.0  | 987.1  | 1348.4 |
| 20°   | 188.2  | 217.4  | 353.5  | 813.2  | 1180.2 |
| 22.5° | 136.8  | 158.9  | 251.6  | 650.0  | 1009.9 |
| 25°   | 100.5  | 116.9  | 184.6  | 503.2  | 839.5  |
| 27.5° | 74.8   | 87.7   | 138.3  | 382.0  | 669.2  |
| 30°   | 56.3   | 67.0   | 103.3  | 281.5  | 518.8  |
| 32.5° | 43.5   | 50.6   | 79.1   | 201.0  | 392.7  |
| 35°   | 34.2   | 38.5   | 65.6   | 141.8  | 290.8  |
| 37.5° | 28.5   | 31.4   | 54.2   | 99.1   | 213.1  |
| 40°   | 24.9   | 27.1   | 41.3   | 70.6   | 151.1  |
| 42.5° | 22.1   | 23.5   | 29.9   | 50.6   | 98.4   |
| 45°   | 20.0   | 20.0   | 22.8   | 35.6   | 62.0   |
| 47.5° | 18.5   | 16.4   | 17.8   | 24.9   | 36.3   |
| 50°   | 16.4   | 13.5   | 14.3   | 17.1   | 20.7   |
| 52.5° | 12.8   | 11.4   | 11.4   | 11.4   | 12.1   |
| 55°   | 10.0   | 9.3    | 9.3    | 7.8    | 8.6    |
| 57.5° | 7.8    | 7.8    | 7.1    | 6.4    | 7.1    |
| 60°   | 6.4    | 6.4    | 5.7    | 5.0    | 5.7    |
| 62.5° | 5.0    | 5.0    | 4.3    | 4.3    | 5.0    |
| 65°   | 4.3    | 4.3    | 3.6    | 3.6    | 4.3    |
| 67.5° | 3.6    | 3.6    | 3.6    | 2.9    | 3.6    |
| 70°   | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    |
| 72.5° | 2.1    | 2.1    | 2.9    | 2.1    | 2.1    |
| 75°   | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    |
| 77.5° | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    |
| 80°   | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    |
| 82.5° | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    |
| 85°   | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    |
| 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)