

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: P1179550

Luminaire Tested: LDA2B159727R2040D010 2LBD1LI

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1179550  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2206-683-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/17/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDA2B159727R2040D010 2LBD1LI  
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 97 CRI LEDS AND 2700K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

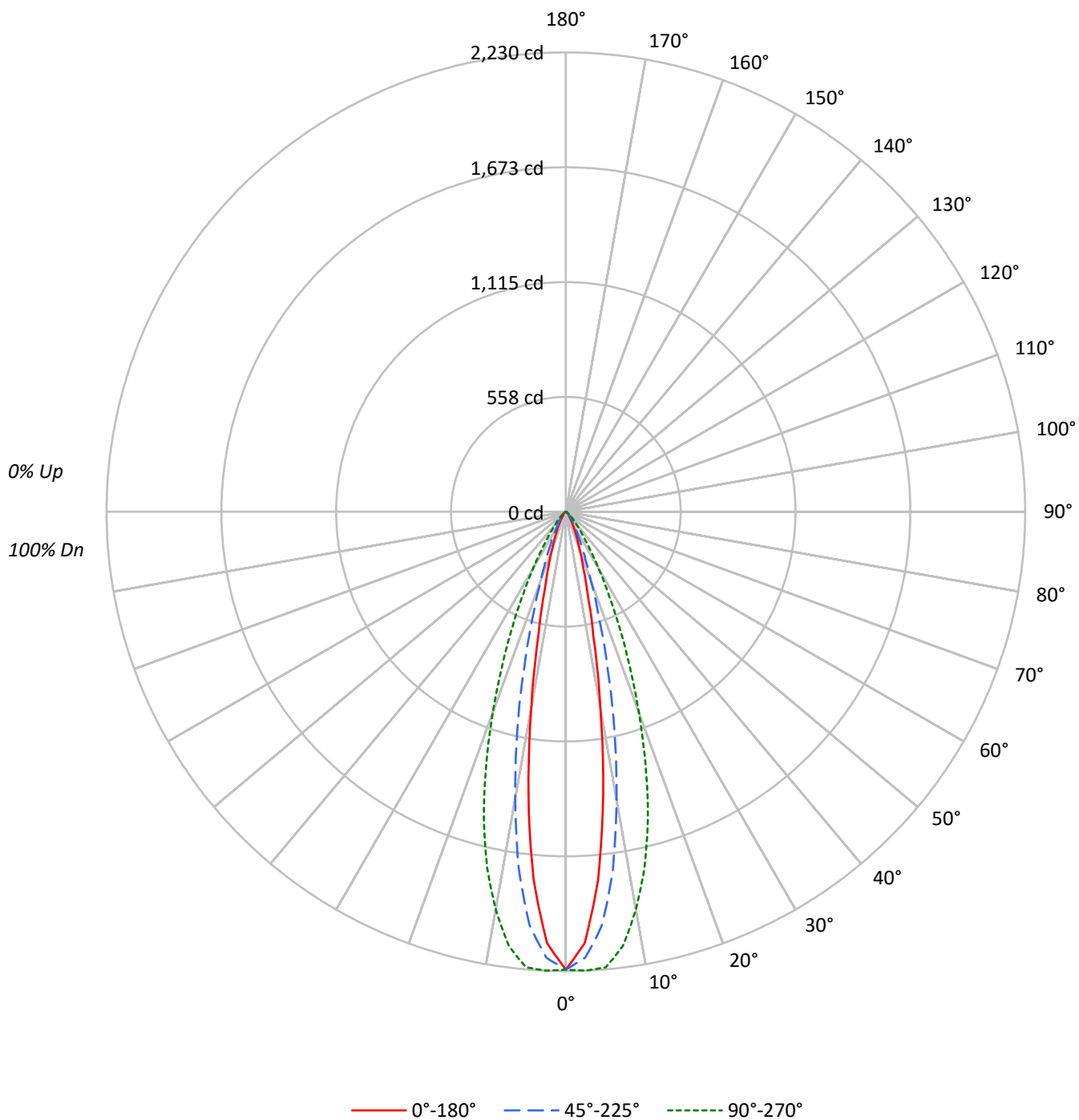
Lumens per Lamp: N/A  
Luminaire Lumens: 626.4 lumens  
Efficiency: N/A  
Efficacy: 44.4 lumens/watt  
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P1179550

CATALOG NUMBER: LDA2B159727R2040D010 2LBD1LI

### Luminous Intensity Polar Plot



TEST NUMBER: P1179550

CATALOG NUMBER: LDA2B159727R2040D010 2LBD1LI

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|-----|--|-----|-----|-----|-----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |  | 20  |     |     |  | 20  |     |     |     |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |  | 30  |     |     |  | 10  |     |     | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  | 30  | 10  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 | 100 |
| 1   | 114 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 104 | 103 |  | 102 | 101 | 100 |  | 99  | 98  | 97  | 95  |
| 2   | 110 | 106 | 102 | 99  | 108 | 104 | 101 | 98  | 101 | 98  | 96  |  | 98  | 96  | 94  |  | 95  | 94  | 92  | 91  |
| 3   | 106 | 100 | 96  | 93  | 104 | 99  | 95  | 92  | 96  | 93  | 91  |  | 94  | 92  | 89  |  | 92  | 90  | 88  | 87  |
| 4   | 102 | 95  | 91  | 87  | 100 | 94  | 90  | 87  | 92  | 89  | 86  |  | 90  | 87  | 85  |  | 89  | 86  | 84  | 83  |
| 5   | 98  | 91  | 86  | 83  | 97  | 90  | 86  | 83  | 89  | 85  | 82  |  | 87  | 84  | 81  |  | 86  | 83  | 81  | 79  |
| 6   | 94  | 87  | 82  | 79  | 93  | 87  | 82  | 79  | 85  | 81  | 78  |  | 84  | 80  | 78  |  | 83  | 80  | 77  | 76  |
| 7   | 91  | 84  | 79  | 76  | 90  | 83  | 79  | 75  | 82  | 78  | 75  |  | 81  | 77  | 75  |  | 80  | 77  | 74  | 73  |
| 8   | 88  | 81  | 76  | 73  | 87  | 80  | 76  | 72  | 79  | 75  | 72  |  | 78  | 75  | 72  |  | 77  | 74  | 72  | 70  |
| 9   | 85  | 78  | 73  | 70  | 84  | 77  | 73  | 70  | 76  | 72  | 70  |  | 76  | 72  | 69  |  | 75  | 72  | 69  | 68  |
| 10  | 83  | 75  | 70  | 67  | 82  | 75  | 70  | 67  | 74  | 70  | 67  |  | 73  | 70  | 67  |  | 73  | 69  | 67  | 66  |

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

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 1096398 | 1096398 | 1096398 |
| 5°  | 888720  | 998169  | 1099249 |
| 10° | 483188  | 708676  | 981606  |
| 15° | 204357  | 397682  | 785711  |
| 20° | 104322  | 187014  | 543296  |
| 25° | 57757   | 95645   | 331137  |
| 30° | 32358   | 53152   | 180590  |
| 35° | 18731   | 32162   | 91969   |
| 40° | 13911   | 24345   | 50943   |
| 45° | 12280   | 16536   | 30211   |
| 50° | 12971   | 10899   | 16118   |
| 55° | 9290    | 7569    | 8688    |
| 60° | 6019    | 5328    | 5328    |
| 65° | 4786    | 4786    | 4786    |
| 70° | 3895    | 3895    | 3895    |
| 75° | 3812    | 3812    | 3812    |
| 80° | 3978    | 3978    | 3978    |
| 85° | 3962    | 3962    | 3962    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 30211 cd/sqm

TEST NUMBER: P1179550

CATALOG NUMBER: LDA2B159727R2040D010 2LBD1LI

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 173.2  | 27.6      |
| 10°-20°   | 244.9  | 39.1      |
| 20°-30°   | 126.1  | 20.1      |
| 30°-40°   | 46.4   | 7.4       |
| 40°-50°   | 20.4   | 3.3       |
| 50°-60°   | 8.9    | 1.4       |
| 60°-70°   | 3.9    | 0.6       |
| 70°-80°   | 2.0    | 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°    | 544.2  | 86.9      |
| 0°-40°    | 590.6  | 94.3      |
| 0°-60°    | 619.9  | 99.0      |
| 0°-90°    | 626.4  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 626.4  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2222 | 2222  | 2222 | 2222  | 2222 |      |
| 5°  | 1794 | 1855  | 2016 | 2158  | 2220 | 144  |
| 15° | 400  | 465   | 779  | 1299  | 1538 | 122  |
| 25° | 106  | 119   | 176  | 404   | 608  | 51   |
| 35° | 31   | 36    | 53   | 93    | 153  | 21   |
| 45° | 18   | 20    | 24   | 28    | 43   | 14   |
| 55° | 11   | 10    | 9    | 10    | 10   | 10   |
| 65° | 4    | 4     | 4    | 3     | 4    | 4    |
| 75° | 2    | 2     | 2    | 2     | 2    | 2    |
| 85° | 1    | 1     | 1    | 1     | 1    | 1    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

TEST NUMBER: P1179550

CATALOG NUMBER: LDA2B159727R2040D010 2LBD1LI

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2222.3 | 2222.3 | 2222.3 | 2222.3 | 2222.3 |
| 2.5°  | 2095.2 | 2120.2 | 2166.9 | 2211.5 | 2229.7 |
| 5°    | 1794.5 | 1855.3 | 2015.5 | 2158.1 | 2219.6 |
| 7.5°  | 1389.6 | 1489.6 | 1749.2 | 2016.2 | 2125.6 |
| 10°   | 964.5  | 1065.9 | 1414.6 | 1798.5 | 1959.4 |
| 12.5° | 615.1  | 713.7  | 1090.2 | 1557.2 | 1766.1 |
| 15°   | 400.1  | 465.0  | 778.6  | 1299.0 | 1538.3 |
| 17.5° | 277.8  | 323.7  | 529.9  | 1025.3 | 1286.2 |
| 20°   | 198.7  | 231.2  | 356.2  | 782.0  | 1034.8 |
| 22.5° | 144.0  | 166.3  | 247.4  | 571.1  | 804.3  |
| 25°   | 106.1  | 119.0  | 175.7  | 403.5  | 608.3  |
| 27.5° | 78.4   | 86.5   | 127.1  | 278.5  | 444.7  |
| 30°   | 56.8   | 63.5   | 93.3   | 191.3  | 317.0  |
| 32.5° | 41.2   | 47.3   | 69.6   | 132.5  | 221.0  |
| 35°   | 31.1   | 35.8   | 53.4   | 93.3   | 152.7  |
| 37.5° | 25.7   | 28.4   | 43.9   | 67.6   | 108.1  |
| 40°   | 21.6   | 24.3   | 37.8   | 50.0   | 79.1   |
| 42.5° | 18.9   | 22.3   | 31.1   | 37.2   | 59.5   |
| 45°   | 17.6   | 20.3   | 23.7   | 28.4   | 43.3   |
| 47.5° | 17.6   | 16.9   | 18.2   | 21.6   | 30.4   |
| 50°   | 16.9   | 14.2   | 14.2   | 16.9   | 21.0   |
| 52.5° | 14.2   | 11.5   | 11.5   | 12.2   | 14.2   |
| 55°   | 10.8   | 9.5    | 8.8    | 9.5    | 10.1   |
| 57.5° | 8.1    | 8.1    | 7.4    | 6.8    | 7.4    |
| 60°   | 6.1    | 6.1    | 5.4    | 5.4    | 5.4    |
| 62.5° | 4.7    | 4.7    | 4.7    | 4.1    | 4.7    |
| 65°   | 4.1    | 4.1    | 4.1    | 3.4    | 4.1    |
| 67.5° | 3.4    | 3.4    | 2.7    | 3.4    | 3.4    |
| 70°   | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    |
| 72.5° | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    |
| 75°   | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    |
| 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)