

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: P1179937

Luminaire Tested: LDA2B209035R2040D010 2LBD1LI

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1179937  
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: LDA2B209035R2040D010 2LBD1LI  
Description: 2000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

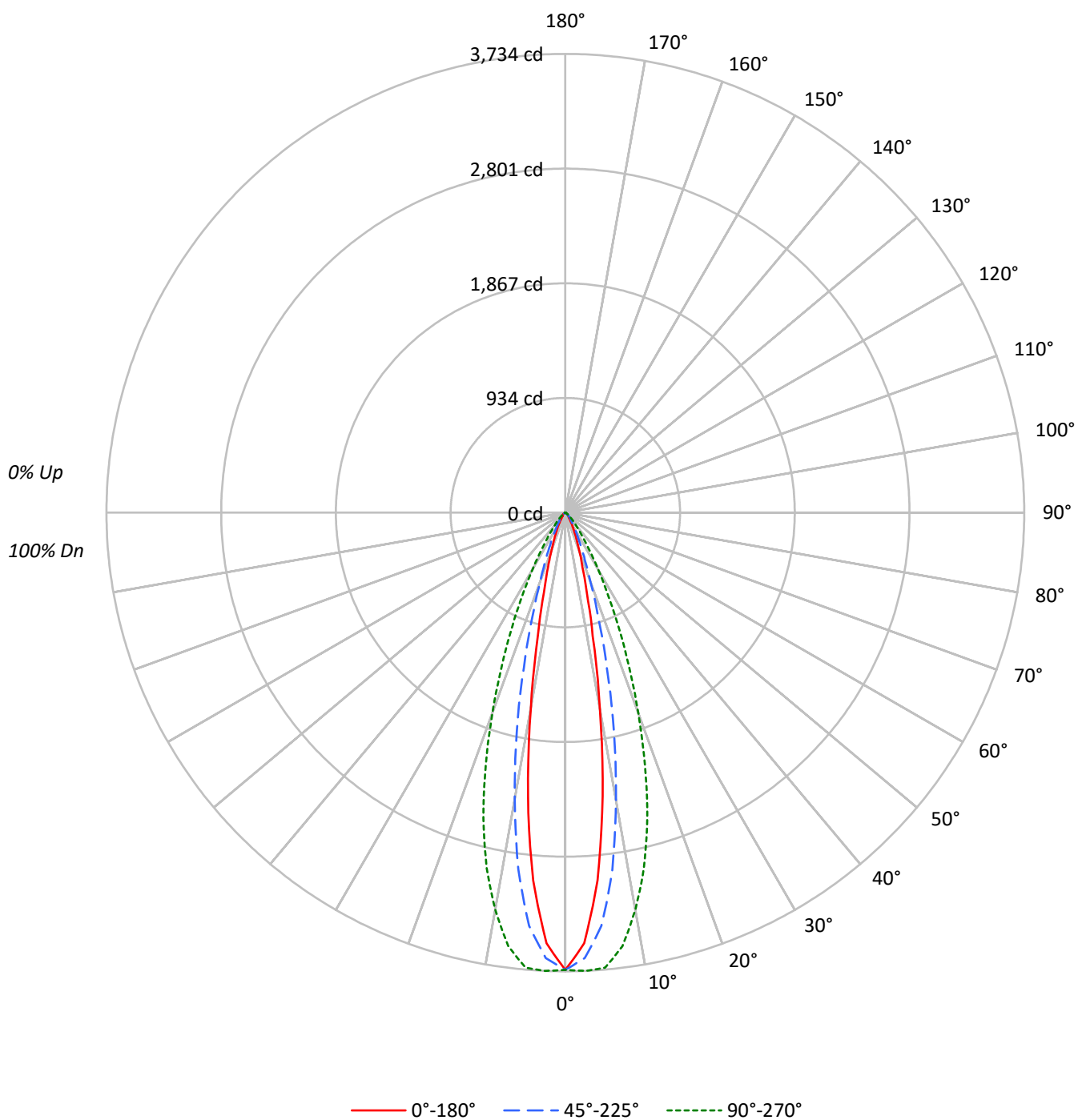
Lumens per Lamp: N/A  
Luminaire Lumens: 1048.9 lumens  
Efficiency: N/A  
Efficacy: 50.9 lumens/watt  
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 20.6  
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: P1179937

CATALOG NUMBER: LDA2B209035R2040D010 2LBD1LI

### Luminous Intensity Polar Plot



TEST NUMBER: P1179937

CATALOG NUMBER: LDA2B209035R2040D010 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  | 88  | 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  | 83  | 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°  | 1836145 | 1836145 | 1836145 |
| 5°  | 1488314 | 1671605 | 1840880 |
| 10° | 809171  | 1186804 | 1643892 |
| 15° | 342264  | 665987  | 1315835 |
| 20° | 174728  | 313177  | 909815  |
| 25° | 96734   | 160206  | 554544  |
| 30° | 54177   | 88985   | 302446  |
| 35° | 31379   | 53844   | 154064  |
| 40° | 23314   | 40832   | 85271   |
| 45° | 20513   | 27630   | 50515   |
| 50° | 21721   | 18267   | 26940   |
| 55° | 15569   | 12644   | 14623   |
| 60° | 10065   | 8979    | 8979    |
| 65° | 7938    | 7938    | 7938    |
| 70° | 6491    | 6491    | 6491    |
| 75° | 6481    | 6481    | 6481    |
| 80° | 6535    | 6535    | 6535    |
| 85° | 6227    | 6227    | 6227    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 50515 cd/sqm

TEST NUMBER: P1179937

CATALOG NUMBER: LDA2B209035R2040D010 2LBD1LI

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 290.0  | 27.6      |
| 10°-20°   | 410.1  | 39.1      |
| 20°-30°   | 211.2  | 20.1      |
| 30°-40°   | 77.7   | 7.4       |
| 40°-50°   | 34.2   | 3.3       |
| 50°-60°   | 15.0   | 1.4       |
| 60°-70°   | 6.6    | 0.6       |
| 70°-80°   | 3.3    | 0.3       |
| 80°-90°   | 0.9    | 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°    | 911.3  | 86.9      |
| 0°-40°    | 989.0  | 94.3      |
| 0°-60°    | 1038.2 | 99.0      |
| 0°-90°    | 1048.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1048.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 3722 | 3722  | 3722 | 3722  | 3722 |      |
| 5°  | 3005 | 3107  | 3375 | 3614  | 3717 | 242  |
| 15° | 670  | 779   | 1304 | 2176  | 2576 | 205  |
| 25° | 178  | 199   | 294  | 676   | 1019 | 85   |
| 35° | 52   | 60    | 89   | 156   | 256  | 35   |
| 45° | 29   | 34    | 40   | 48    | 72   | 24   |
| 55° | 18   | 16    | 15   | 16    | 17   | 17   |
| 65° | 7    | 7     | 7    | 6     | 7    | 7    |
| 75° | 3    | 3     | 3    | 3     | 3    | 3    |
| 85° | 1    | 1     | 1    | 1     | 1    | 1    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

TEST NUMBER: P1179937

CATALOG NUMBER: LDA2B209035R2040D010 2LBD1LI

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 3721.7 | 3721.7 | 3721.7 | 3721.7 | 3721.7 |
| 2.5°  | 3508.9 | 3550.7 | 3628.8 | 3703.5 | 3734.1 |
| 5°    | 3005.2 | 3107.0 | 3375.3 | 3614.1 | 3717.1 |
| 7.5°  | 2327.2 | 2494.7 | 2929.3 | 3376.4 | 3559.8 |
| 10°   | 1615.2 | 1785.0 | 2369.0 | 3012.0 | 3281.4 |
| 12.5° | 1030.0 | 1195.3 | 1825.7 | 2607.9 | 2957.6 |
| 15°   | 670.1  | 778.7  | 1303.9 | 2175.5 | 2576.2 |
| 17.5° | 465.2  | 542.2  | 887.4  | 1717.1 | 2154.0 |
| 20°   | 332.8  | 387.1  | 596.5  | 1309.6 | 1732.9 |
| 22.5° | 241.1  | 278.4  | 414.3  | 956.4  | 1347.0 |
| 25°   | 177.7  | 199.2  | 294.3  | 675.7  | 1018.7 |
| 27.5° | 131.3  | 144.9  | 212.8  | 466.3  | 744.8  |
| 30°   | 95.1   | 106.4  | 156.2  | 320.3  | 530.9  |
| 32.5° | 69.0   | 79.2   | 116.6  | 221.9  | 370.1  |
| 35°   | 52.1   | 60.0   | 89.4   | 156.2  | 255.8  |
| 37.5° | 43.0   | 47.5   | 73.6   | 113.2  | 181.1  |
| 40°   | 36.2   | 40.7   | 63.4   | 83.8   | 132.4  |
| 42.5° | 31.7   | 37.4   | 52.1   | 62.3   | 99.6   |
| 45°   | 29.4   | 34.0   | 39.6   | 47.5   | 72.4   |
| 47.5° | 29.4   | 28.3   | 30.6   | 36.2   | 50.9   |
| 50°   | 28.3   | 23.8   | 23.8   | 28.3   | 35.1   |
| 52.5° | 23.8   | 19.2   | 19.2   | 20.4   | 23.8   |
| 55°   | 18.1   | 15.8   | 14.7   | 15.8   | 17.0   |
| 57.5° | 13.6   | 13.6   | 12.5   | 11.3   | 12.5   |
| 60°   | 10.2   | 10.2   | 9.1    | 9.1    | 9.1    |
| 62.5° | 7.9    | 7.9    | 7.9    | 6.8    | 7.9    |
| 65°   | 6.8    | 6.8    | 6.8    | 5.7    | 6.8    |
| 67.5° | 5.7    | 5.7    | 4.5    | 5.7    | 5.7    |
| 70°   | 4.5    | 4.5    | 4.5    | 4.5    | 4.5    |
| 72.5° | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    |
| 75°   | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    |
| 77.5° | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    |
| 80°   | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    |
| 82.5° | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    |
| 85°   | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    |
| 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)