

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P496231

Luminaire Tested: **LDA2B109035R45D010 2LBDL1B**

Issue Date: 3/9/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P496231  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-037-42)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LDA2B109035R45D010 2LBDL1B  
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

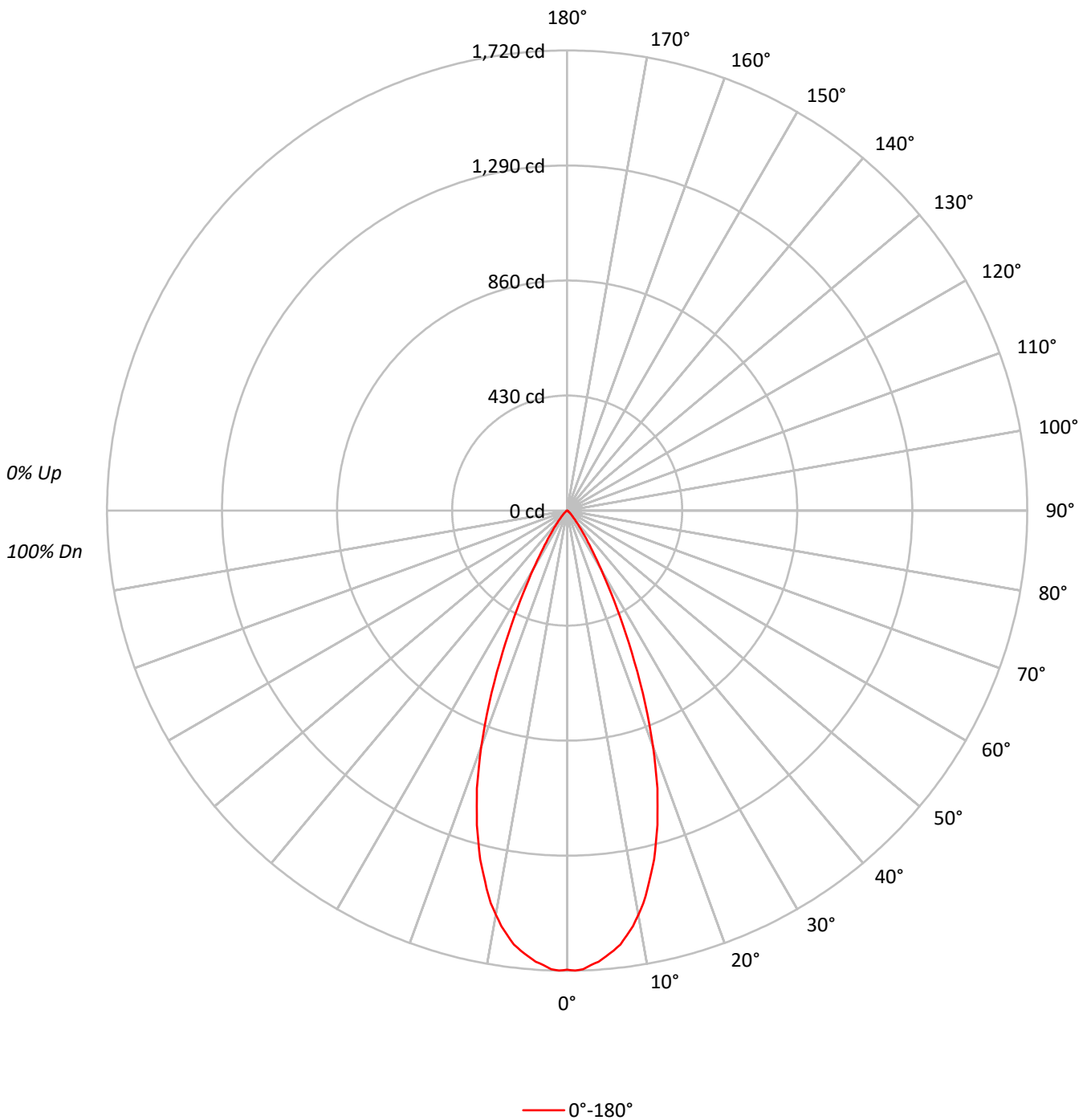
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 854.4 lumens  
Efficiency: N/A  
Efficacy: 85.4 lumens/watt  
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.65  
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: 25 FT

TEST NUMBER: P496231  
CATALOG NUMBER: LDA2B109035R45D010 2LBDL1B

### Luminous Intensity Polar Plot





TEST NUMBER: P496231

CATALOG NUMBER: LDA2B109035R45D010 2LBDL1B

**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 | 105 | 102 | 99  | 108 | 104 | 101 | 98  | 101 | 98  | 96  |  | 98  | 96  | 94  |  | 95  | 93  | 92  | 90  |
| 3   | 105 | 100 | 96  | 92  | 103 | 98  | 95  | 91  | 96  | 93  | 90  |  | 94  | 91  | 89  |  | 91  | 89  | 87  | 86  |
| 4   | 101 | 95  | 90  | 86  | 99  | 94  | 89  | 86  | 91  | 88  | 85  |  | 90  | 86  | 84  |  | 88  | 85  | 83  | 82  |
| 5   | 97  | 90  | 85  | 81  | 95  | 89  | 84  | 81  | 87  | 83  | 80  |  | 86  | 82  | 80  |  | 84  | 81  | 79  | 78  |
| 6   | 93  | 86  | 81  | 77  | 92  | 85  | 80  | 77  | 84  | 79  | 76  |  | 82  | 79  | 76  |  | 81  | 78  | 75  | 74  |
| 7   | 90  | 82  | 77  | 73  | 88  | 81  | 76  | 73  | 80  | 76  | 73  |  | 79  | 75  | 72  |  | 78  | 74  | 72  | 71  |
| 8   | 86  | 78  | 73  | 70  | 85  | 78  | 73  | 70  | 77  | 72  | 69  |  | 76  | 72  | 69  |  | 75  | 71  | 69  | 68  |
| 9   | 83  | 75  | 70  | 66  | 82  | 74  | 70  | 66  | 74  | 69  | 66  |  | 73  | 69  | 66  |  | 72  | 68  | 66  | 65  |
| 10  | 80  | 72  | 67  | 64  | 79  | 71  | 67  | 64  | 71  | 66  | 63  |  | 70  | 66  | 63  |  | 69  | 66  | 63  | 62  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 846806 |
| 5°  | 828151 |
| 10° | 768342 |
| 15° | 655261 |
| 20° | 493313 |
| 25° | 297386 |
| 30° | 143390 |
| 35° | 64986  |
| 40° | 29948  |
| 45° | 15420  |
| 50° | 8136   |
| 55° | 3011   |
| 60° | 888    |
| 65° | 467    |
| 70° | 577    |
| 75° | 0      |
| 80° | 0      |
| 85° | 0      |



TEST NUMBER: P496231

CATALOG NUMBER: LDA2B109035R45D010 2LBDL1B

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 155.5  | 18.2      |
| 10°-20°   | 350.3  | 41.0      |
| 20°-30°   | 250.3  | 29.3      |
| 30°-40°   | 75.0   | 8.8       |
| 40°-50°   | 18.6   | 2.2       |
| 50°-60°   | 3.9    | 0.5       |
| 60°-70°   | 0.6    | 0.1       |
| 70°-80°   | 0.2    | 0.0       |
| 80°-90°   | 0.0    | 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       |
| 0°-30°    | 756.1  | 88.5      |
| 0°-40°    | 831.1  | 97.3      |
| 0°-60°    | 853.6  | 99.9      |
| 0°-90°    | 854.4  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 854.4  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1716 |      |
| 5°  | 1672 | 155  |
| 15° | 1283 | 350  |
| 25° | 546  | 250  |
| 35° | 108  | 75   |
| 45° | 22   | 19   |
| 55° | 4    | 4    |
| 65° | 0    | 1    |
| 75° | 0    | 0    |
| 85° | 0    | 0    |
| 90° | 0    |      |



TEST NUMBER: P496231

CATALOG NUMBER: LDA2B109035R45D010 2LBDL1B

**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 1716.4 |
| 1°    | 1719.5 |
| 2°    | 1715.6 |
| 3°    | 1701.0 |
| 4°    | 1690.3 |
| 5°    | 1672.2 |
| 6°    | 1654.1 |
| 7°    | 1634.6 |
| 8°    | 1602.8 |
| 9°    | 1572.7 |
| 10°   | 1533.7 |
| 11°   | 1494.8 |
| 12°   | 1445.7 |
| 13°   | 1393.1 |
| 14°   | 1344.0 |
| 15°   | 1282.9 |
| 16°   | 1223.2 |
| 17°   | 1155.5 |
| 18°   | 1091.4 |
| 19°   | 1012.6 |
| 20°   | 939.6  |
| 21°   | 858.7  |
| 22.5° | 737.9  |
| 23°   | 697.2  |
| 24°   | 618.0  |
| 25°   | 546.3  |
| 26°   | 474.7  |
| 27°   | 409.2  |
| 28°   | 348.2  |
| 29°   | 298.2  |
| 30°   | 251.7  |
| 32.5° | 165.5  |
| 35°   | 107.9  |
| 37.5° | 70.8   |
| 40°   | 46.5   |
| 42.5° | 31.4   |
| 45°   | 22.1   |
| 47.5° | 15.9   |
| 50°   | 10.6   |
| 52.5° | 6.6    |
| 55°   | 3.5    |
| 57.5° | 1.8    |
| 60°   | 0.9    |
| 62.5° | 0.9    |
| 65°   | 0.4    |



TEST NUMBER: P496231

CATALOG NUMBER: LDA2B109035R45D010 2LBDL1B

**CANDELA DISTRIBUTION (continued):**

|       | 0°  |
|-------|-----|
| 67.5° | 0.4 |
| 70°   | 0.4 |
| 72.5° | 0.4 |
| 75°   | 0.0 |
| 77.5° | 0.0 |
| 80°   | 0.0 |
| 82.5° | 0.0 |
| 85°   | 0.0 |
| 87.5° | 0.0 |
| 90°   | 0.0 |

(END OF REPORT)