

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: P858697

Luminaire Tested: **LD4C35W2N2050D010 4LBMLI\_2000K**

Issue Date: 11/9/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P858697  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208178)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 11/9/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C35W2N2050D010 4LBMLI\_2000K  
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2000K, W2N2050 LEDS  
AND 4LBMLI TRIM WITH FINISH  
  
Light Source: -  
Ballast/Driver: -

**Summary**

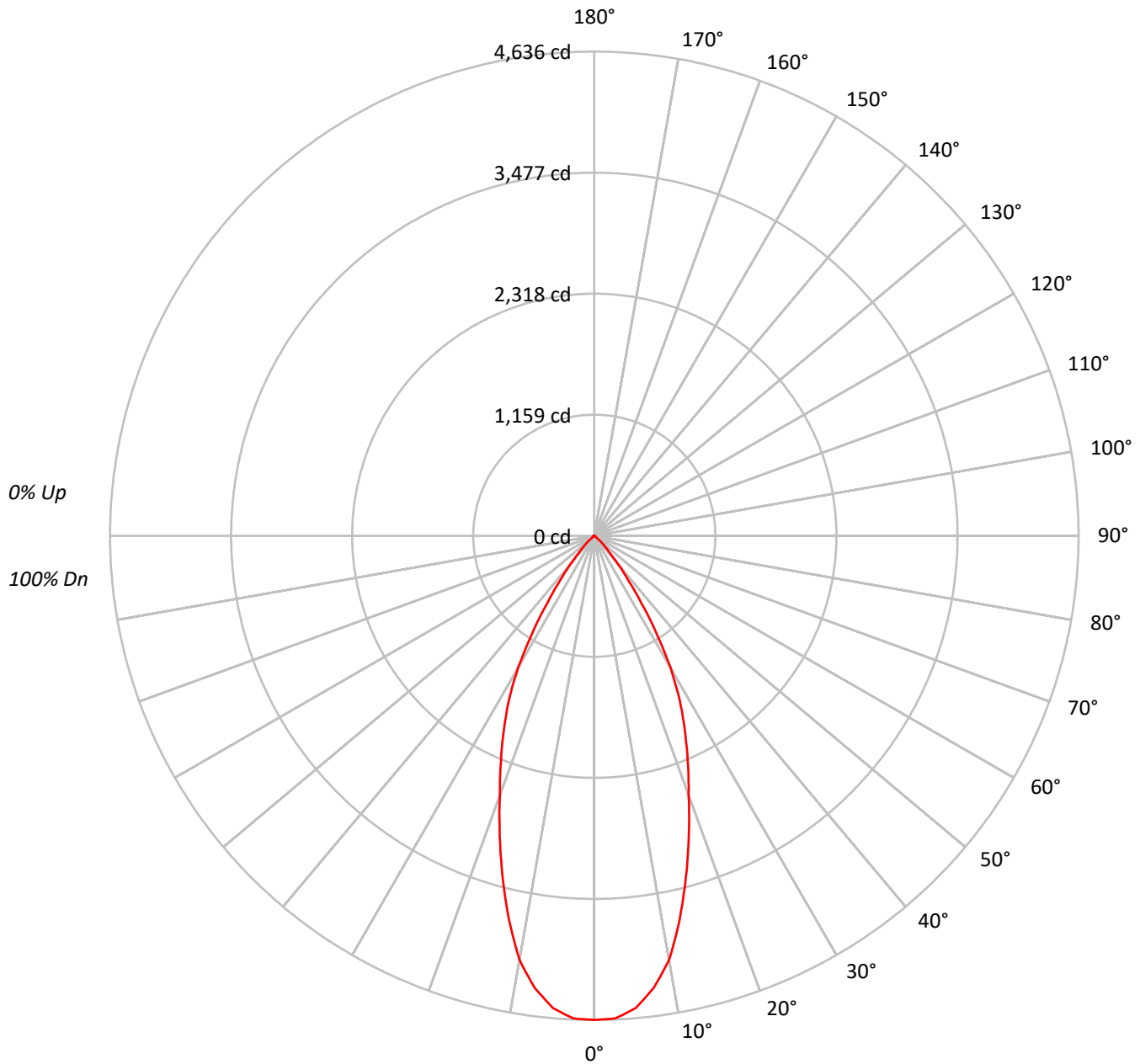
Lumens per Lamp: N/A  
Luminaire Lumens: 2941.0 lumens  
Efficiency: N/A  
Efficacy: 55.7 lumens/watt  
Spacing Criteria (0/90/45): 0.7 / 0.7 / 0.76  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 52.8  
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: P858697

CATALOG NUMBER: LD4C35W2N2050D010 4LBMLI\_2000K

### Luminous Intensity Polar Plot





TEST NUMBER: P858697

CATALOG NUMBER: LD4C35W2N2050D010 4LBMLI\_2000K

**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 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 |  | 101 | 100 | 99  |  | 98  |
| 2   | 109 | 104 | 100 | 97  | 107 | 102 | 99  | 96  | 99  | 96  | 94  |  | 96  | 94  | 92  |  | 94  |
| 3   | 104 | 98  | 93  | 89  | 102 | 96  | 92  | 89  | 94  | 90  | 87  |  | 91  | 88  | 86  |  | 89  |
| 4   | 99  | 92  | 87  | 83  | 97  | 91  | 86  | 82  | 89  | 85  | 81  |  | 87  | 83  | 80  |  | 85  |
| 5   | 94  | 87  | 81  | 77  | 93  | 86  | 81  | 77  | 84  | 79  | 76  |  | 82  | 78  | 75  |  | 81  |
| 6   | 90  | 82  | 76  | 72  | 89  | 81  | 76  | 72  | 80  | 75  | 71  |  | 78  | 74  | 71  |  | 77  |
| 7   | 86  | 77  | 72  | 68  | 85  | 77  | 71  | 68  | 75  | 71  | 67  |  | 74  | 70  | 67  |  | 73  |
| 8   | 82  | 73  | 68  | 64  | 81  | 73  | 67  | 64  | 72  | 67  | 64  |  | 71  | 66  | 63  |  | 70  |
| 9   | 79  | 70  | 64  | 60  | 78  | 69  | 64  | 60  | 68  | 63  | 60  |  | 67  | 63  | 60  |  | 67  |
| 10  | 75  | 66  | 61  | 57  | 74  | 66  | 61  | 57  | 65  | 60  | 57  |  | 64  | 60  | 57  |  | 64  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 569586 |
| 5°  | 559910 |
| 10° | 514464 |
| 15° | 430834 |
| 20° | 345174 |
| 25° | 277343 |
| 30° | 206462 |
| 35° | 117941 |
| 40° | 55345  |
| 45° | 23507  |
| 50° | 7492   |
| 55° | 3813   |
| 60° | 2629   |
| 65° | 2064   |
| 70° | 1293   |
| 75° | 0      |
| 80° | 0      |
| 85° | 0      |



TEST NUMBER: P858697

CATALOG NUMBER: LD4C35W2N2050D010 4LBMLI\_2000K

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 419.8  | 14.3      |
| 10°-20°   | 938.5  | 31.9      |
| 20°-30°   | 933.1  | 31.7      |
| 30°-40°   | 508.1  | 17.3      |
| 40°-50°   | 117.4  | 4.0       |
| 50°-60°   | 16.6   | 0.6       |
| 60°-70°   | 6.1    | 0.2       |
| 70°-80°   | 1.4    | 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°    | 2291.4 | 77.9      |
| 0°-40°    | 2799.5 | 95.2      |
| 0°-60°    | 2933.5 | 99.7      |
| 0°-90°    | 2941.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2941.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 4636 |      |
| 5°  | 4540 | 420  |
| 15° | 3387 | 938  |
| 25° | 2046 | 933  |
| 35° | 786  | 508  |
| 45° | 135  | 117  |
| 55° | 18   | 17   |
| 65° | 7    | 6    |
| 75° | 0    | 1    |
| 85° | 0    | 0    |
| 90° | 0    |      |



TEST NUMBER: P858697

CATALOG NUMBER: LD4C35W2N2050D010 4LBMLI\_2000K

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 4636.3 |
| 2.5°  | 4625.6 |
| 5°    | 4540.2 |
| 7.5°  | 4365.9 |
| 10°   | 4124.0 |
| 12.5° | 3768.2 |
| 15°   | 3387.4 |
| 17.5° | 3010.2 |
| 20°   | 2640.2 |
| 22.5° | 2337.7 |
| 25°   | 2046.0 |
| 27.5° | 1768.5 |
| 30°   | 1455.4 |
| 32.5° | 1106.6 |
| 35°   | 786.4  |
| 37.5° | 530.1  |
| 40°   | 345.1  |
| 42.5° | 217.0  |
| 45°   | 135.3  |
| 47.5° | 78.3   |
| 50°   | 39.2   |
| 52.5° | 21.4   |
| 55°   | 17.8   |
| 57.5° | 10.7   |
| 60°   | 10.7   |
| 62.5° | 7.1    |
| 65°   | 7.1    |
| 67.5° | 3.6    |
| 70°   | 3.6    |
| 72.5° | 3.6    |
| 75°   | 0.0    |
| 77.5° | 0.0    |
| 80°   | 0.0    |
| 82.5° | 0.0    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180°







(END OF REPORT)