

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: P858617

Luminaire Tested: **LD4C30W2N2050D010 4LBMLI\_4000K**

Issue Date: 11/9/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P858617  
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: LD4C30W2N2050D010 4LBMLI\_4000K  
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, W2N2050 LEDS  
AND 4LBMLI TRIM WITH FINISH  
  
Light Source: -  
Ballast/Driver: -

**Summary**

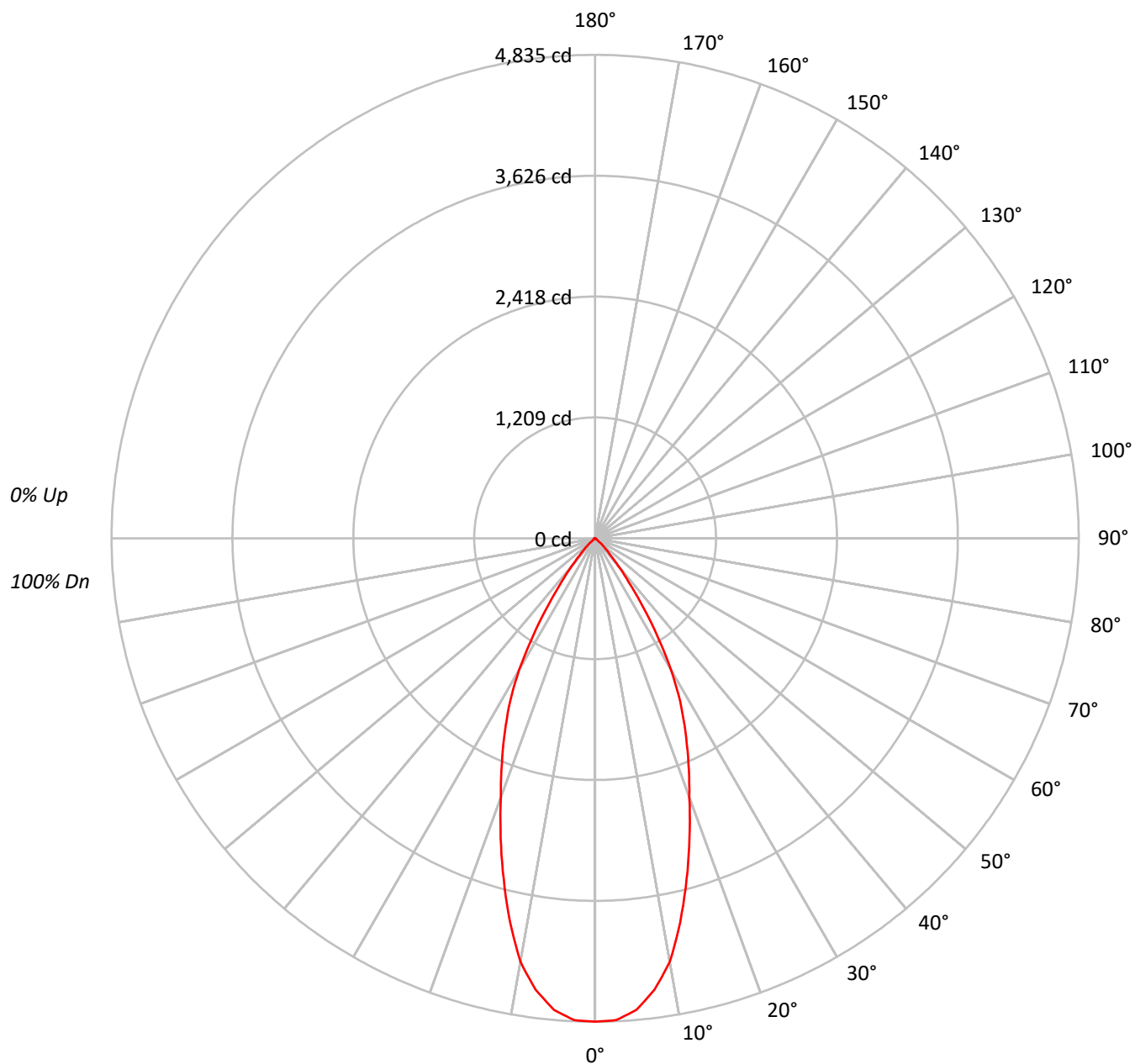
Lumens per Lamp: N/A  
Luminaire Lumens: 3067.0 lumens  
Efficiency: N/A  
Efficacy: 77.4 lumens/watt  
Spacing Criteria (0/90/45): 0.7 / 0.7 / 0.76  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 39.6  
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: 25 FT

TEST NUMBER: P858617

CATALOG NUMBER: LD4C30W2N2050D010 4LBMLI\_4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P858617

CATALOG NUMBER: LD4C30W2N2050D010 4LBMLI\_4000K

**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°  | 593984 |
| 5°  | 583896 |
| 10° | 536507 |
| 15° | 449289 |
| 20° | 359961 |
| 25° | 289218 |
| 30° | 215299 |
| 35° | 122996 |
| 40° | 57719  |
| 45° | 24515  |
| 50° | 7798   |
| 55° | 3984   |
| 60° | 2727   |
| 65° | 2151   |
| 70° | 1329   |
| 75° | 0      |
| 80° | 0      |
| 85° | 0      |



TEST NUMBER: P858617

CATALOG NUMBER: LD4C30W2N2050D010 4LBMLI\_4000K

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 437.8  | 14.3      |
| 10°-20°   | 978.7  | 31.9      |
| 20°-30°   | 973.0  | 31.7      |
| 30°-40°   | 529.9  | 17.3      |
| 40°-50°   | 122.5  | 4.0       |
| 50°-60°   | 17.3   | 0.6       |
| 60°-70°   | 6.4    | 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°    | 2389.5 | 77.9      |
| 0°-40°    | 2919.4 | 95.2      |
| 0°-60°    | 3059.1 | 99.7      |
| 0°-90°    | 3067.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3067.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 4835 |      |
| 5°  | 4735 | 438  |
| 15° | 3532 | 979  |
| 25° | 2134 | 973  |
| 35° | 820  | 530  |
| 45° | 141  | 122  |
| 55° | 19   | 17   |
| 65° | 7    | 6    |
| 75° | 0    | 1    |
| 85° | 0    | 0    |
| 90° | 0    |      |



TEST NUMBER: P858617

CATALOG NUMBER: LD4C30W2N2050D010 4LBMLI\_4000K

**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 4834.9 |
| 2.5°  | 4823.8 |
| 5°    | 4734.7 |
| 7.5°  | 4553.0 |
| 10°   | 4300.7 |
| 12.5° | 3929.6 |
| 15°   | 3532.5 |
| 17.5° | 3139.2 |
| 20°   | 2753.3 |
| 22.5° | 2437.9 |
| 25°   | 2133.6 |
| 27.5° | 1844.2 |
| 30°   | 1517.7 |
| 32.5° | 1154.1 |
| 35°   | 820.1  |
| 37.5° | 552.8  |
| 40°   | 359.9  |
| 42.5° | 226.3  |
| 45°   | 141.1  |
| 47.5° | 81.7   |
| 50°   | 40.8   |
| 52.5° | 22.3   |
| 55°   | 18.6   |
| 57.5° | 11.1   |
| 60°   | 11.1   |
| 62.5° | 7.4    |
| 65°   | 7.4    |
| 67.5° | 3.7    |
| 70°   | 3.7    |
| 72.5° | 3.7    |
| 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)