

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: P858643

Luminaire Tested: **LD4C30W2N2050D010 4LBWLI\_2000K**

Issue Date: 11/9/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P858643  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208077)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 11/9/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C30W2N2050D010 4LBWLI\_2000K  
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2000K, W2N2050 LEDS  
AND 4LBWLI TRIM WITH FINISH  
  
Light Source: -  
Ballast/Driver: -

**Summary**

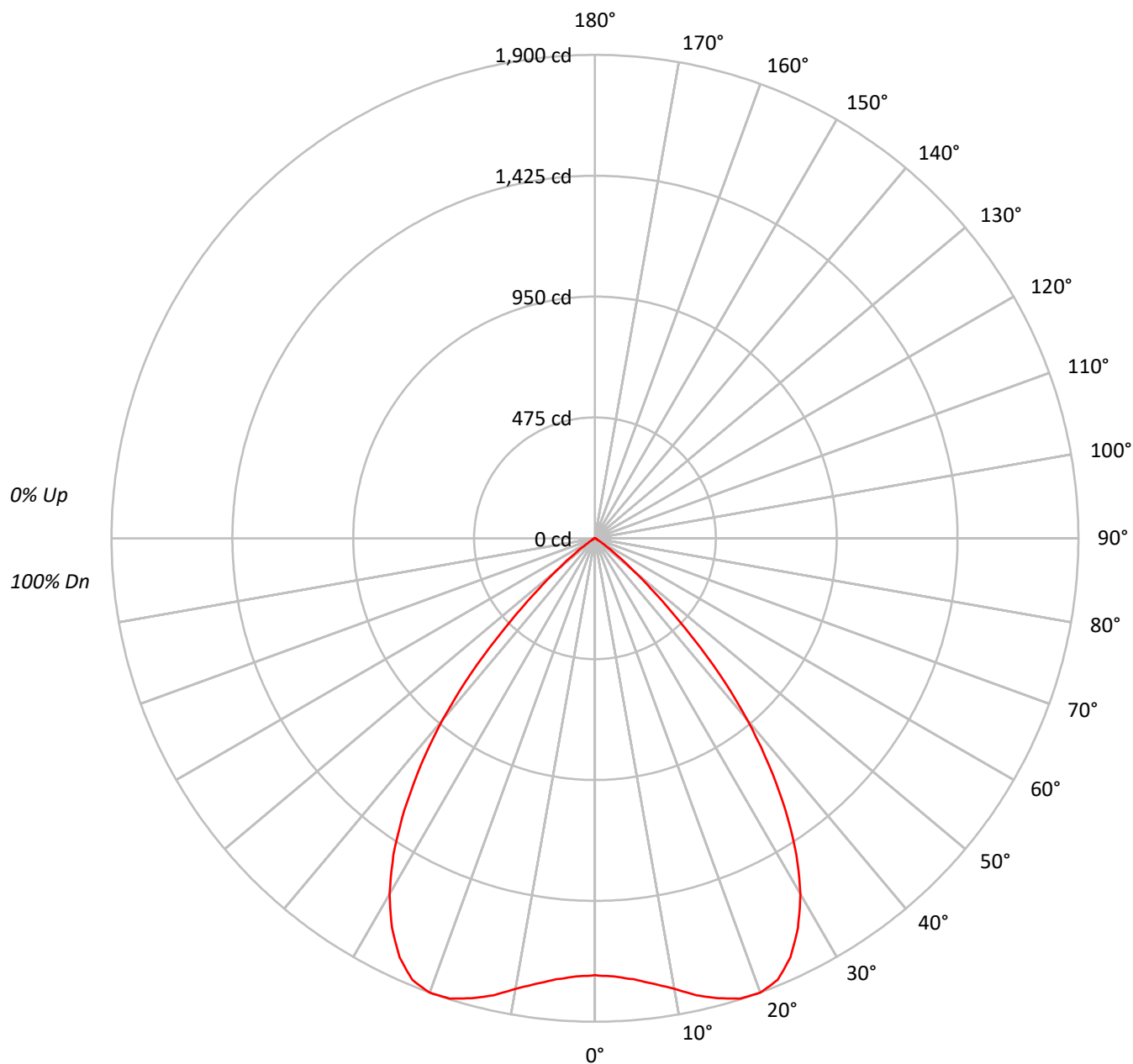
Lumens per Lamp: N/A  
Luminaire Lumens: 2802.9 lumens  
Efficiency: N/A  
Efficacy: 70.8 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.18  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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

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### Luminous Intensity Polar Plot





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**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   | 113 | 110 | 107 | 105 | 110 | 108 | 105 | 103 | 104 | 102 | 100 |  | 100 | 98  | 97  |  | 96  |
| 2   | 106 | 101 | 97  | 93  | 104 | 99  | 95  | 92  | 96  | 93  | 90  |  | 93  | 90  | 88  |  | 90  |
| 3   | 100 | 93  | 87  | 83  | 98  | 92  | 86  | 82  | 89  | 85  | 81  |  | 86  | 83  | 80  |  | 84  |
| 4   | 94  | 86  | 79  | 75  | 92  | 84  | 79  | 74  | 82  | 77  | 73  |  | 80  | 76  | 72  |  | 78  |
| 5   | 88  | 79  | 72  | 68  | 87  | 78  | 72  | 67  | 76  | 71  | 67  |  | 74  | 70  | 66  |  | 73  |
| 6   | 83  | 73  | 66  | 62  | 82  | 72  | 66  | 61  | 71  | 65  | 61  |  | 69  | 64  | 60  |  | 68  |
| 7   | 78  | 68  | 61  | 56  | 77  | 67  | 61  | 56  | 66  | 60  | 56  |  | 64  | 59  | 55  |  | 63  |
| 8   | 74  | 63  | 56  | 52  | 72  | 62  | 56  | 51  | 61  | 55  | 51  |  | 60  | 55  | 51  |  | 59  |
| 9   | 69  | 59  | 52  | 48  | 68  | 58  | 52  | 47  | 57  | 51  | 47  |  | 56  | 51  | 47  |  | 55  |
| 10  | 66  | 55  | 48  | 44  | 65  | 54  | 48  | 44  | 53  | 48  | 44  |  | 53  | 47  | 44  |  | 52  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 210989 |
| 5°  | 214569 |
| 10° | 224261 |
| 15° | 238031 |
| 20° | 248454 |
| 25° | 246301 |
| 30° | 229060 |
| 35° | 195959 |
| 40° | 149292 |
| 45° | 87565  |
| 50° | 37422  |
| 55° | 11009  |
| 60° | 3170   |
| 65° | 1860   |
| 70° | 1149   |
| 75° | 1519   |
| 80° | 0      |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 167.9  | 6.0       |
| 10°-20°   | 530.0  | 18.9      |
| 20°-30°   | 826.8  | 29.5      |
| 30°-40°   | 804.5  | 28.7      |
| 40°-50°   | 401.8  | 14.3      |
| 50°-60°   | 62.2   | 2.2       |
| 60°-70°   | 7.5    | 0.3       |
| 70°-80°   | 2.1    | 0.1       |
| 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°    | 1524.8 | 54.4      |
| 0°-40°    | 2329.3 | 83.1      |
| 0°-60°    | 2793.3 | 99.7      |
| 0°-90°    | 2802.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2802.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1717 |      |
| 5°  | 1740 | 168  |
| 15° | 1872 | 530  |
| 25° | 1817 | 827  |
| 35° | 1307 | 805  |
| 45° | 504  | 402  |
| 55° | 51   | 62   |
| 65° | 6    | 8    |
| 75° | 3    | 2    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 1717.4 |
| 2.5°  | 1723.8 |
| 5°    | 1739.9 |
| 7.5°  | 1765.6 |
| 10°   | 1797.7 |
| 12.5° | 1839.4 |
| 15°   | 1871.5 |
| 17.5° | 1897.2 |
| 20°   | 1900.4 |
| 22.5° | 1877.9 |
| 25°   | 1817.0 |
| 27.5° | 1727.0 |
| 30°   | 1614.7 |
| 32.5° | 1473.5 |
| 35°   | 1306.6 |
| 37.5° | 1123.5 |
| 40°   | 930.9  |
| 42.5° | 725.5  |
| 45°   | 504.0  |
| 47.5° | 324.2  |
| 50°   | 195.8  |
| 52.5° | 105.9  |
| 55°   | 51.4   |
| 57.5° | 22.5   |
| 60°   | 12.9   |
| 62.5° | 9.6    |
| 65°   | 6.4    |
| 67.5° | 6.4    |
| 70°   | 3.2    |
| 72.5° | 3.2    |
| 75°   | 3.2    |
| 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)