

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: P843410

Luminaire Tested: **LD4C15DE010B50 EU4C15B50 4LBCSMW**

Issue Date: 5/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P843410  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P206301)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C15DE010B50 EU4C15B50 4LBCSMW  
Description: 4in Downlight with BioUp LEDs  
Light Source: -  
Ballast/Driver:

**Summary**

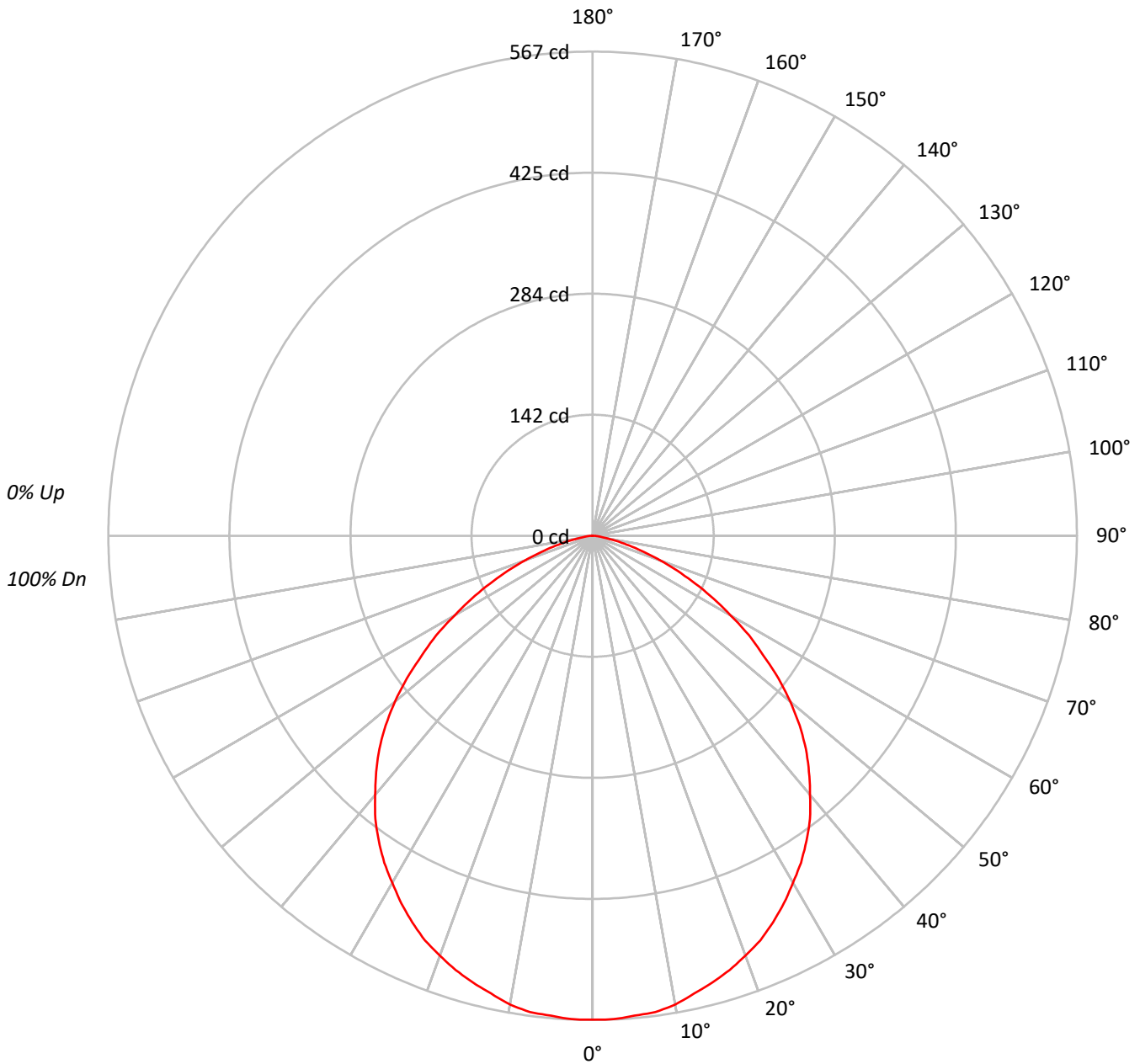
Lumens per Lamp: N/A  
Luminaire Lumens: 1387.6 lumens  
Efficiency: N/A  
Efficacy: 81.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 17  
Input Voltage (V):  
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  |     |    | 0  |   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 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   | 110 | 106 | 102 | 99  | 108 | 104 | 100 | 97  | 100 | 97  | 94  | 96  | 93  | 91  | 92  | 90  | 89  | 87  |    |    |   |
| 2   | 101 | 94  | 87  | 82  | 99  | 92  | 86  | 81  | 88  | 84  | 79  | 85  | 81  | 78  | 82  | 79  | 76  | 74  |    |    |   |
| 3   | 93  | 83  | 75  | 70  | 90  | 81  | 75  | 69  | 79  | 73  | 68  | 76  | 71  | 67  | 73  | 69  | 65  | 63  |    |    |   |
| 4   | 85  | 74  | 66  | 60  | 83  | 73  | 65  | 59  | 70  | 64  | 58  | 68  | 62  | 58  | 66  | 61  | 57  | 55  |    |    |   |
| 5   | 79  | 66  | 58  | 52  | 77  | 65  | 57  | 51  | 63  | 56  | 51  | 61  | 55  | 50  | 60  | 54  | 50  | 48  |    |    |   |
| 6   | 73  | 60  | 52  | 45  | 71  | 59  | 51  | 45  | 57  | 50  | 45  | 56  | 49  | 44  | 54  | 49  | 44  | 42  |    |    |   |
| 7   | 68  | 55  | 46  | 40  | 66  | 54  | 46  | 40  | 52  | 45  | 40  | 51  | 44  | 40  | 50  | 44  | 39  | 37  |    |    |   |
| 8   | 63  | 50  | 42  | 36  | 61  | 49  | 41  | 36  | 48  | 41  | 36  | 47  | 40  | 36  | 46  | 40  | 35  | 34  |    |    |   |
| 9   | 59  | 46  | 38  | 33  | 57  | 45  | 38  | 32  | 44  | 37  | 32  | 43  | 37  | 32  | 42  | 36  | 32  | 30  |    |    |   |
| 10  | 55  | 42  | 35  | 30  | 54  | 42  | 34  | 30  | 41  | 34  | 29  | 40  | 34  | 29  | 39  | 33  | 29  | 27  |    |    |   |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 69621 |
| 5°  | 69579 |
| 10° | 69547 |
| 15° | 68885 |
| 20° | 68389 |
| 25° | 67709 |
| 30° | 66560 |
| 35° | 65465 |
| 40° | 63524 |
| 45° | 61365 |
| 50° | 57720 |
| 55° | 52219 |
| 60° | 45873 |
| 65° | 38604 |
| 70° | 30173 |
| 75° | 21123 |
| 80° | 11886 |
| 85° | 8176  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 53.7   | 3.9       |
| 10°-20°   | 152.9  | 11.0      |
| 20°-30°   | 230.0  | 16.6      |
| 30°-40°   | 272.6  | 19.6      |
| 40°-50°   | 271.2  | 19.5      |
| 50°-60°   | 218.7  | 15.8      |
| 60°-70°   | 132.2  | 9.5       |
| 70°-80°   | 49.1   | 3.5       |
| 80°-90°   | 7.2    | 0.5       |
| 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°    | 436.6  | 31.5      |
| 0°-40°    | 709.1  | 51.1      |
| 0°-60°    | 1199.0 | 86.4      |
| 0°-90°    | 1387.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1387.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 567 |      |
| 5°  | 564 | 54   |
| 15° | 542 | 153  |
| 25° | 500 | 230  |
| 35° | 436 | 273  |
| 45° | 353 | 271  |
| 55° | 244 | 219  |
| 65° | 133 | 132  |
| 75° | 44  | 49   |
| 85° | 6   | 7    |
| 90° | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    |
|-------|-------|
| 0°    | 566.7 |
| 2.5°  | 566.7 |
| 5°    | 564.2 |
| 7.5°  | 562.6 |
| 10°   | 557.5 |
| 12.5° | 549.1 |
| 15°   | 541.6 |
| 17.5° | 533.2 |
| 20°   | 523.1 |
| 22.5° | 513.0 |
| 25°   | 499.5 |
| 27.5° | 485.1 |
| 30°   | 469.2 |
| 32.5° | 454.0 |
| 35°   | 436.5 |
| 37.5° | 418.0 |
| 40°   | 396.1 |
| 42.5° | 375.0 |
| 45°   | 353.2 |
| 47.5° | 328.7 |
| 50°   | 302.0 |
| 52.5° | 274.1 |
| 55°   | 243.8 |
| 57.5° | 217.0 |
| 60°   | 186.7 |
| 62.5° | 159.8 |
| 65°   | 132.8 |
| 67.5° | 107.6 |
| 70°   | 84.0  |
| 72.5° | 63.0  |
| 75°   | 44.5  |
| 77.5° | 28.7  |
| 80°   | 16.8  |
| 82.5° | 10.0  |
| 85°   | 5.8   |
| 87.5° | 2.4   |
| 90°   | 0.0   |



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°







(END OF REPORT)