

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: P843340

Luminaire Tested: **LD4C10DE010B50 EU4C10B50 4LBCSMW**

Issue Date: 5/7/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P843340  
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: LD4C10DE010B50 EU4C10B50 4LBCSMW  
Description: 4in Downlight with BioUp LEDs  
Light Source: -  
Ballast/Driver:

**Summary**

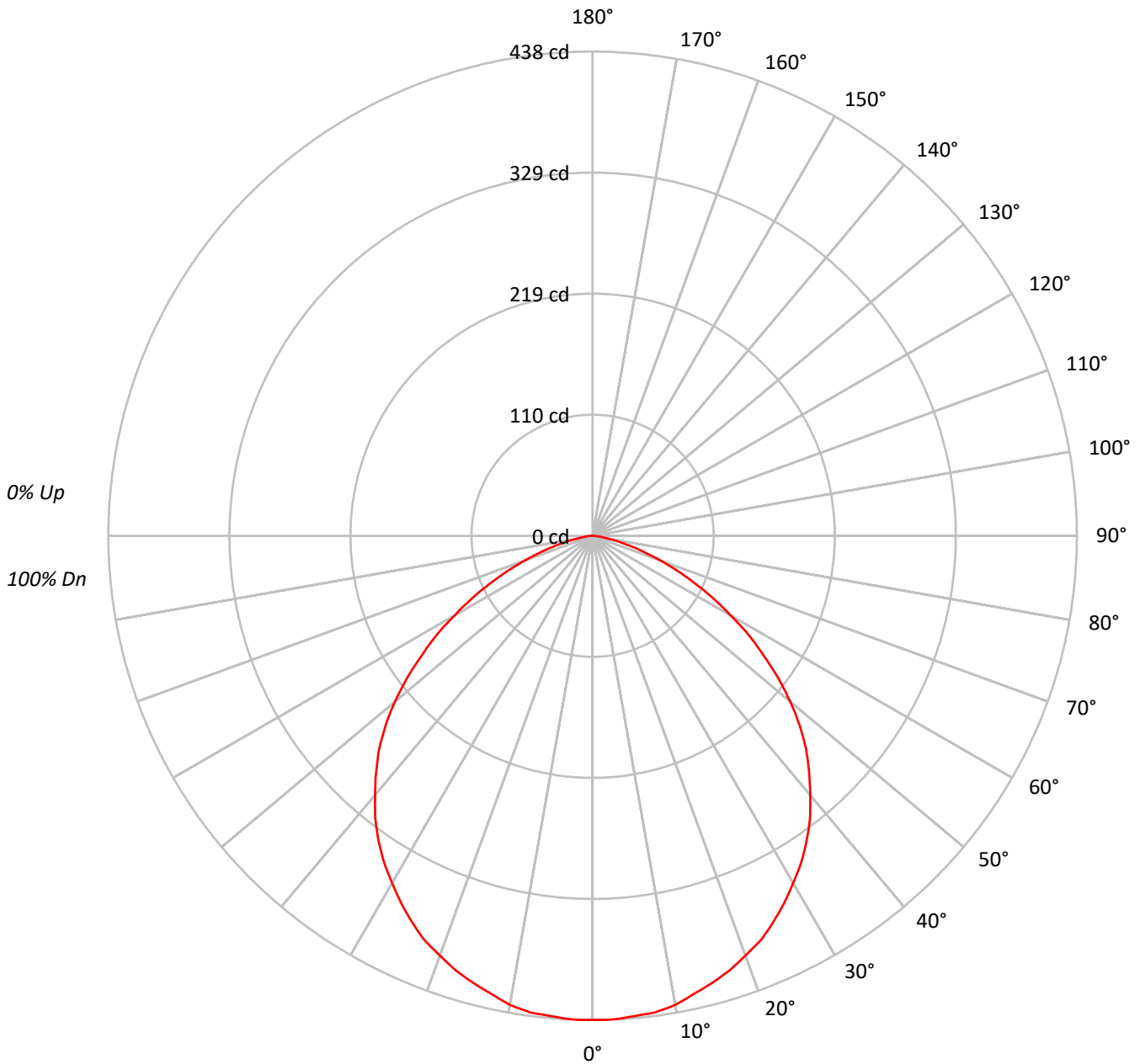
Lumens per Lamp: N/A  
Luminaire Lumens: 1072.4 lumens  
Efficiency: N/A  
Efficacy: 80.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 13.3  
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  |     |    |    | 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 |    |    |    | 100 |
| 1   | 110 | 106 | 102 | 99  | 108 | 104 | 100 | 97  | 100 | 97  | 94  | 96  | 93  | 91  | 92  | 90  | 89  | 87  |    |    |    | 87  |
| 2   | 101 | 94  | 87  | 82  | 99  | 92  | 86  | 81  | 88  | 84  | 79  | 85  | 81  | 78  | 82  | 79  | 76  | 74  |    |    |    | 74  |
| 3   | 93  | 83  | 75  | 70  | 90  | 81  | 74  | 69  | 79  | 73  | 68  | 76  | 71  | 67  | 73  | 69  | 65  | 63  |    |    |    | 63  |
| 4   | 85  | 74  | 66  | 60  | 83  | 73  | 65  | 59  | 70  | 64  | 58  | 68  | 62  | 58  | 66  | 61  | 57  | 55  |    |    |    | 55  |
| 5   | 79  | 66  | 58  | 52  | 77  | 65  | 57  | 51  | 63  | 56  | 51  | 61  | 55  | 50  | 60  | 54  | 50  | 48  |    |    |    | 48  |
| 6   | 73  | 60  | 52  | 45  | 71  | 59  | 51  | 45  | 57  | 50  | 45  | 56  | 49  | 44  | 54  | 49  | 44  | 42  |    |    |    | 42  |
| 7   | 68  | 55  | 46  | 40  | 66  | 54  | 46  | 40  | 52  | 45  | 40  | 51  | 44  | 40  | 50  | 44  | 39  | 37  |    |    |    | 37  |
| 8   | 63  | 50  | 42  | 36  | 61  | 49  | 41  | 36  | 48  | 41  | 36  | 47  | 40  | 36  | 46  | 40  | 35  | 33  |    |    |    | 33  |
| 9   | 59  | 46  | 38  | 33  | 57  | 45  | 38  | 32  | 44  | 37  | 32  | 43  | 37  | 32  | 42  | 36  | 32  | 30  |    |    |    | 30  |
| 10  | 55  | 42  | 35  | 30  | 54  | 42  | 34  | 30  | 41  | 34  | 29  | 40  | 34  | 29  | 39  | 33  | 29  | 27  |    |    |    | 27  |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 53810 |
| 5°  | 53781 |
| 10° | 53754 |
| 15° | 53241 |
| 20° | 52844 |
| 25° | 52324 |
| 30° | 51452 |
| 35° | 50587 |
| 40° | 49090 |
| 45° | 47431 |
| 50° | 44590 |
| 55° | 40375 |
| 60° | 35456 |
| 65° | 29854 |
| 70° | 23312 |
| 75° | 16329 |
| 80° | 9197  |
| 85° | 6343  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 41.5   | 3.9       |
| 10°-20°   | 118.2  | 11.0      |
| 20°-30°   | 177.7  | 16.6      |
| 30°-40°   | 210.6  | 19.6      |
| 40°-50°   | 209.6  | 19.5      |
| 50°-60°   | 169.0  | 15.8      |
| 60°-70°   | 102.2  | 9.5       |
| 70°-80°   | 37.9   | 3.5       |
| 80°-90°   | 5.6    | 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°    | 337.4  | 31.5      |
| 0°-40°    | 548.0  | 51.1      |
| 0°-60°    | 926.6  | 86.4      |
| 0°-90°    | 1072.4 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1072.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 438 |      |
| 5°  | 436 | 42   |
| 15° | 419 | 118  |
| 25° | 386 | 178  |
| 35° | 337 | 211  |
| 45° | 273 | 210  |
| 55° | 188 | 169  |
| 65° | 103 | 102  |
| 75° | 34  | 38   |
| 85° | 4   | 6    |
| 90° | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    |
|-------|-------|
| 0°    | 438.0 |
| 2.5°  | 438.0 |
| 5°    | 436.1 |
| 7.5°  | 434.8 |
| 10°   | 430.9 |
| 12.5° | 424.4 |
| 15°   | 418.6 |
| 17.5° | 412.1 |
| 20°   | 404.2 |
| 22.5° | 396.5 |
| 25°   | 386.0 |
| 27.5° | 374.9 |
| 30°   | 362.7 |
| 32.5° | 350.9 |
| 35°   | 337.3 |
| 37.5° | 323.0 |
| 40°   | 306.1 |
| 42.5° | 289.9 |
| 45°   | 273.0 |
| 47.5° | 254.0 |
| 50°   | 233.3 |
| 52.5° | 211.8 |
| 55°   | 188.5 |
| 57.5° | 167.7 |
| 60°   | 144.3 |
| 62.5° | 123.5 |
| 65°   | 102.7 |
| 67.5° | 83.1  |
| 70°   | 64.9  |
| 72.5° | 48.8  |
| 75°   | 34.4  |
| 77.5° | 22.1  |
| 80°   | 13.0  |
| 82.5° | 7.8   |
| 85°   | 4.5   |
| 87.5° | 1.9   |
| 90°   | 0.0   |



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°







(END OF REPORT)