

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: P843421

Luminaire Tested: **LD4C15DE010B50 EU4C15B50 4LBWLI**

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P843421  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208077)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C15DE010B50 EU4C15B50 4LBWLI  
Description: 4in Downlight with BioUp LEDs  
Light Source: -  
Ballast/Driver:

**Summary**

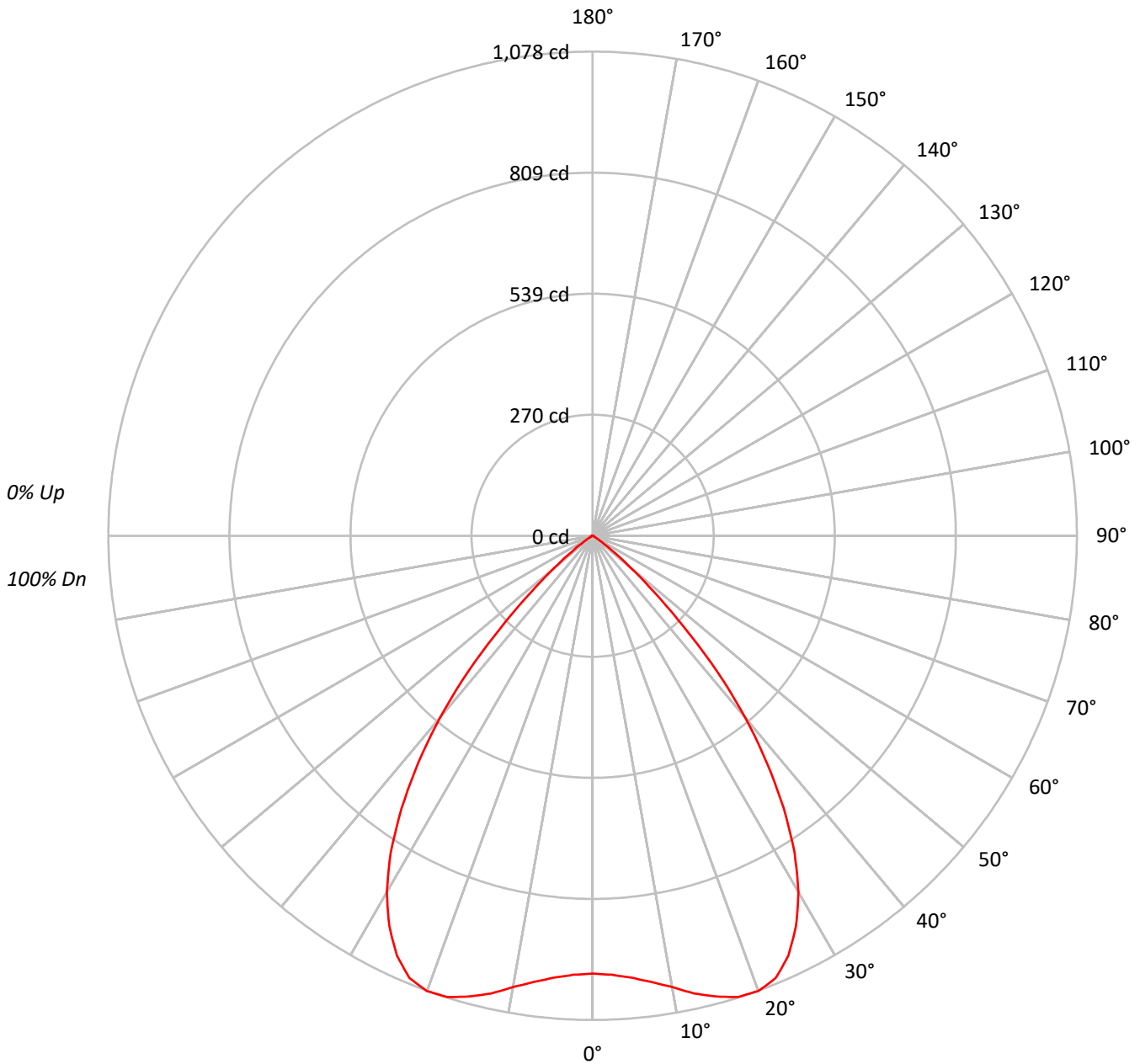
Lumens per Lamp: N/A  
Luminaire Lumens: 1590.7 lumens  
Efficiency: N/A  
Efficacy: 93.6 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.18  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P843421

CATALOG NUMBER: LD4C15DE010B50 EU4C15B50 4LBWLI

### Luminous Intensity Polar Plot





TEST NUMBER: P843421

CATALOG NUMBER: LD4C15DE010B50 EU4C15B50 4LBWLI

**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	100	100	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92	92	92	92
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84	84	84	84
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77	77	77	77
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	72	70	70	70	70
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64	64	64	64
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	63	60	58	58	58	58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54	54	54	54
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49	49	49	49
9	69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45	45	45	45
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42	42	42	42

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

	0°
0°	119733
5°	121769
10°	127269
15°	135086
20°	141001
25°	139783
30°	129985
35°	111208
40°	84725
45°	49707
50°	21234
55°	6254
60°	1794
65°	1047
70°	647
75°	854
80°	0
85°	0



TEST NUMBER: P843421

CATALOG NUMBER: LD4C15DE010B50 EU4C15B50 4LBWLI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.3	6.0
10°-20°	300.8	18.9
20°-30°	469.2	29.5
30°-40°	456.6	28.7
40°-50°	228.0	14.3
50°-60°	35.3	2.2
60°-70°	4.2	0.3
70°-80°	1.2	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°	865.3	54.4
0°-40°	1321.9	83.1
0°-60°	1585.3	99.7
0°-90°	1590.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1590.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	975	
5°	987	95
15°	1062	301
25°	1031	469
35°	742	457
45°	286	228
55°	29	35
65°	4	4
75°	2	1
85°	0	0
90°	0	



TEST NUMBER: P843421

CATALOG NUMBER: LD4C15DE010B50 EU4C15B50 4LBWLI

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	974.6
2.5°	978.2
5°	987.4
7.5°	1002.0
10°	1020.2
12.5°	1043.8
15°	1062.1
17.5°	1076.7
20°	1078.5
22.5°	1065.7
25°	1031.2
27.5°	980.1
30°	916.3
32.5°	836.3
35°	741.5
37.5°	637.5
40°	528.3
42.5°	411.7
45°	286.1
47.5°	184.0
50°	111.1
52.5°	60.1
55°	29.2
57.5°	12.8
60°	7.3
62.5°	5.5
65°	3.6
67.5°	3.6
70°	1.8
72.5°	1.8
75°	1.8
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)