

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: P843409

Luminaire Tested: **LD4C15DE010B2750 EU4C15B50 4LBCSMMS**

Issue Date: 5/7/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P843409  
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: LD4C15DE010B2750 EU4C15B50 4LBCSMMS  
Description: 4in Downlight with BioUp LEDs  
Light Source: -  
Ballast/Driver:

**Summary**

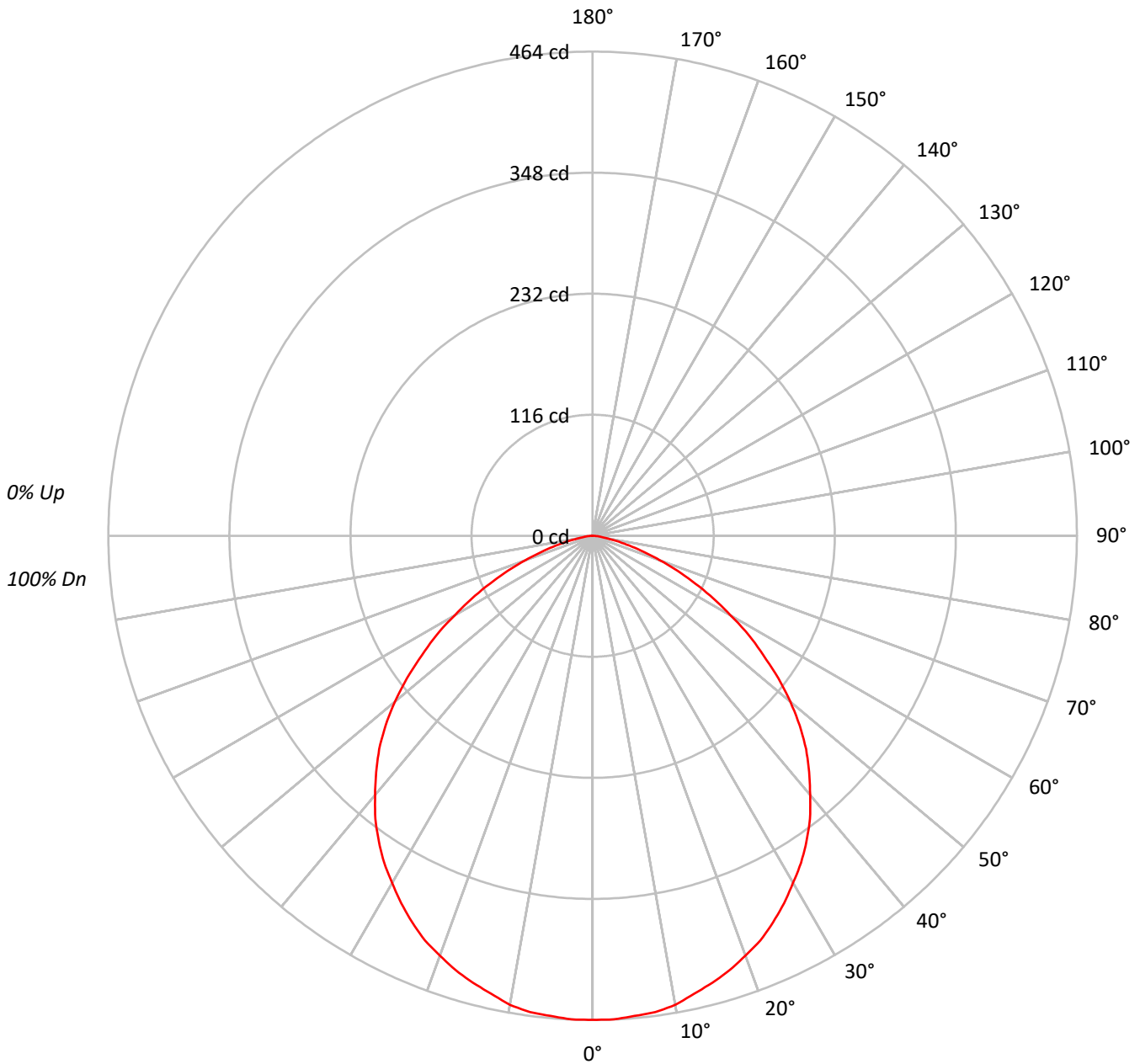
Lumens per Lamp: N/A  
Luminaire Lumens: 1135.9 lumens  
Efficiency: N/A  
Efficacy: 66.8 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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				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	75	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	34				34
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°	56992
5°	56963
10°	56935
15°	56395
20°	55982
25°	55428
30°	54488
35°	53587
40°	51993
45°	50246
50°	47246
55°	42752
60°	37544
65°	31599
70°	24677
75°	17325
80°	9693
85°	6766



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.0	3.9
10°-20°	125.2	11.0
20°-30°	188.2	16.6
30°-40°	223.1	19.6
40°-50°	222.0	19.5
50°-60°	179.0	15.8
60°-70°	108.2	9.5
70°-80°	40.2	3.5
80°-90°	5.9	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°	357.4	31.5
0°-40°	580.5	51.1
0°-60°	981.5	86.4
0°-90°	1135.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1135.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	464	
5°	462	44
15°	443	125
25°	409	188
35°	357	223
45°	289	222
55°	200	179
65°	109	108
75°	36	40
85°	5	6
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	463.9
2.5°	463.9
5°	461.9
7.5°	460.5
10°	456.4
12.5°	449.5
15°	443.4
17.5°	436.5
20°	428.2
22.5°	419.9
25°	408.9
27.5°	397.1
30°	384.1
32.5°	371.7
35°	357.3
37.5°	342.1
40°	324.2
42.5°	307.0
45°	289.2
47.5°	269.1
50°	247.2
52.5°	224.3
55°	199.6
57.5°	177.7
60°	152.8
62.5°	130.8
65°	108.7
67.5°	88.1
70°	68.7
72.5°	51.6
75°	36.5
77.5°	23.4
80°	13.7
82.5°	8.2
85°	4.8
87.5°	2.0
90°	0.0



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— 0°-180°







(END OF REPORT)