

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: P843339

Luminaire Tested: **LD4C10DE010B2750 EU4C10B50 4LBCSMMS**

Issue Date: 5/7/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P843339  
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: LD4C10DE010B2750 EU4C10B50 4LBCSMMS  
Description: 4in Downlight with BioUp LEDs  
Light Source: -  
Ballast/Driver:

**Summary**

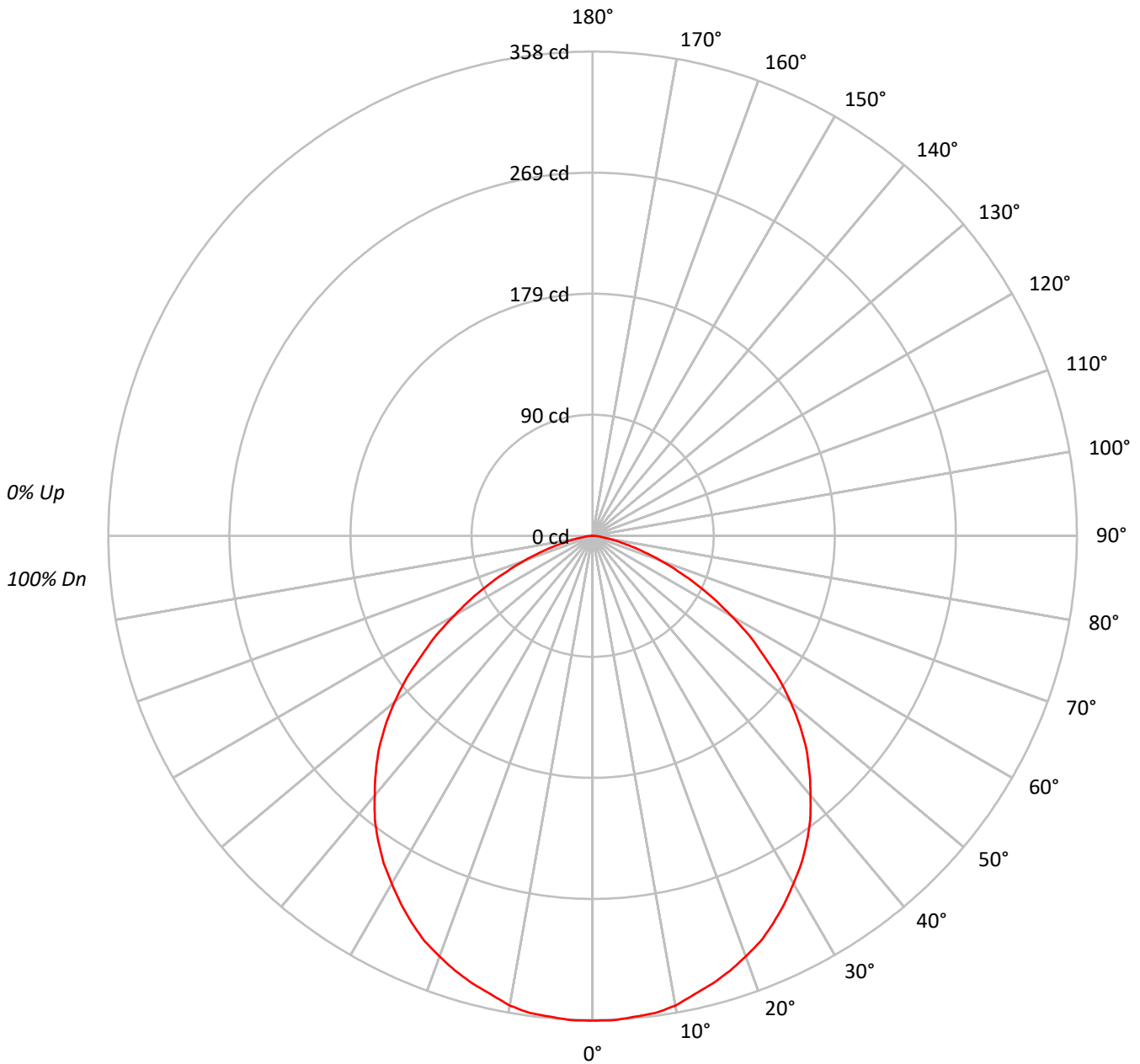
Lumens per Lamp: N/A  
Luminaire Lumens: 877.9 lumens  
Efficiency: N/A  
Efficacy: 66.0 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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°	44043
5°	44026
10°	43999
15°	43587
20°	43261
25°	42835
30°	42118
35°	41408
40°	40190
45°	38831
50°	36505
55°	33028
60°	29018
65°	24448
70°	19109
75°	13338
80°	7570
85°	5215



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.0	3.9
10°-20°	96.7	11.0
20°-30°	145.5	16.6
30°-40°	172.4	19.6
40°-50°	171.6	19.5
50°-60°	138.3	15.8
60°-70°	83.7	9.5
70°-80°	31.1	3.5
80°-90°	4.6	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°	276.2	31.5
0°-40°	448.6	51.1
0°-60°	758.5	86.4
0°-90°	877.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	877.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	358	
5°	357	34
15°	343	97
25°	316	145
35°	276	172
45°	224	172
55°	154	138
65°	84	84
75°	28	31
85°	4	5
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	358.5
2.5°	358.5
5°	357.0
7.5°	355.9
10°	352.7
12.5°	347.3
15°	342.7
17.5°	337.3
20°	330.9
22.5°	324.5
25°	316.0
27.5°	306.9
30°	296.9
32.5°	287.3
35°	276.1
37.5°	264.4
40°	250.6
42.5°	237.3
45°	223.5
47.5°	207.9
50°	191.0
52.5°	173.5
55°	154.2
57.5°	137.3
60°	118.1
62.5°	101.1
65°	84.1
67.5°	68.1
70°	53.2
72.5°	39.9
75°	28.1
77.5°	18.1
80°	10.7
82.5°	6.3
85°	3.7
87.5°	1.6
90°	0.0



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— 0°-180°







(END OF REPORT)