

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: P843550

Luminaire Tested: **LD4C25DE010B50 EU4C25B50 4LBCSMW**

Issue Date: 5/7/2024



Test Information

Test Method: LM-79-08
Report Number: P843550
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: LD4C25DE010B50 EU4C25B50 4LBCSMW
Description: 4in Downlight with BioUp LEDs
Light Source: -
Ballast/Driver:

Summary

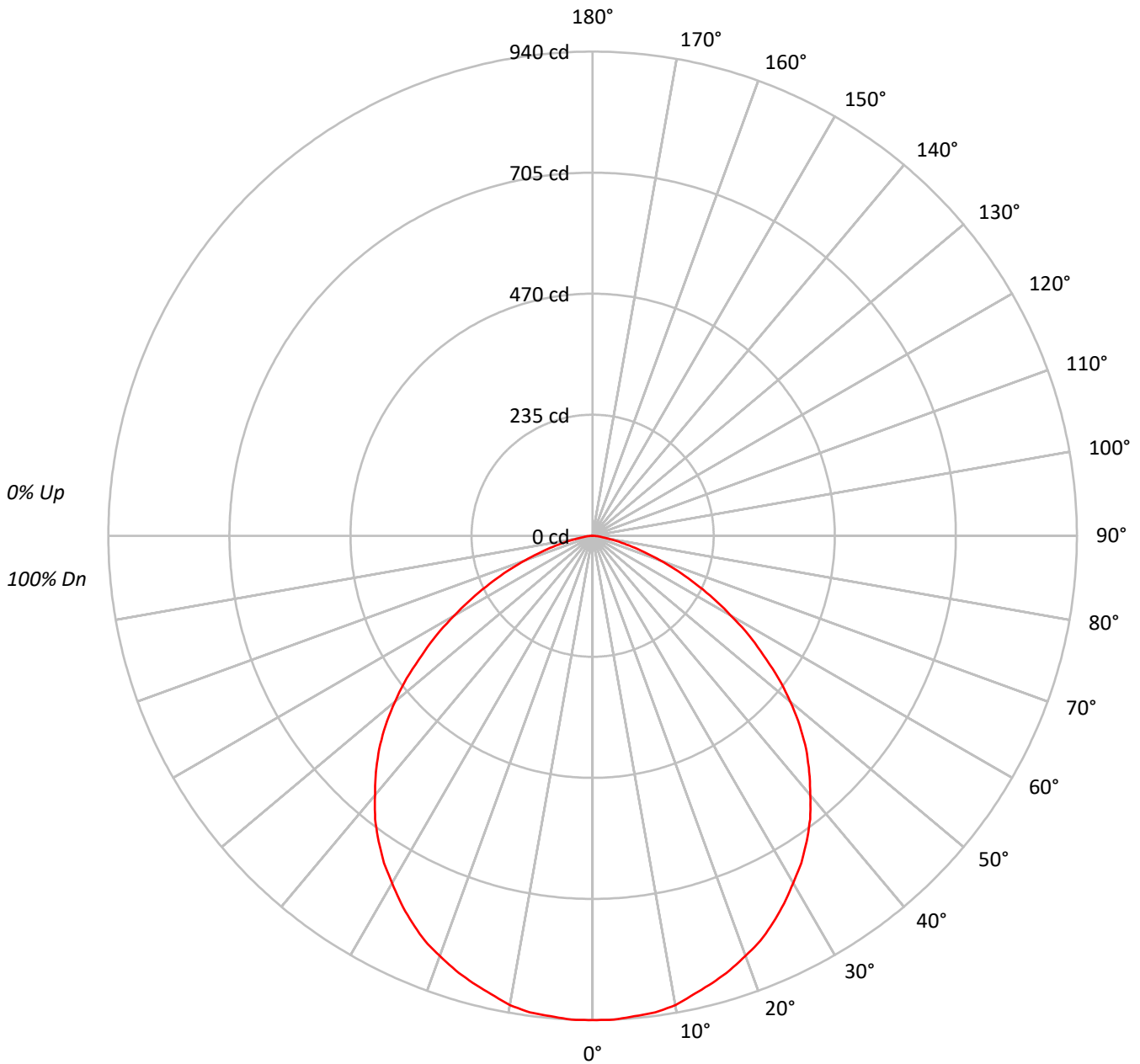
Lumens per Lamp: N/A
Luminaire Lumens: 2302.4 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 29.8
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°	115519
5°	115455
10°	115405
15°	114303
20°	113467
25°	112361
30°	110437
35°	108613
40°	105398
45°	101812
50°	95754
55°	86639
60°	76120
65°	64069
70°	50072
75°	35078
80°	19739
85°	13532



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.1	3.9
10°-20°	253.7	11.0
20°-30°	381.6	16.6
30°-40°	452.2	19.6
40°-50°	450.0	19.5
50°-60°	362.8	15.8
60°-70°	219.4	9.5
70°-80°	81.5	3.5
80°-90°	12.1	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°	724.4	31.5
0°-40°	1176.6	51.1
0°-60°	1989.4	86.4
0°-90°	2302.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2302.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	940	
5°	936	89
15°	899	254
25°	829	382
35°	724	452
45°	586	450
55°	404	363
65°	220	219
75°	74	81
85°	10	12
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	940.3
2.5°	940.3
5°	936.2
7.5°	933.5
10°	925.1
12.5°	911.2
15°	898.7
17.5°	884.7
20°	867.9
22.5°	851.2
25°	828.9
27.5°	805.0
30°	778.5
32.5°	753.5
35°	724.2
37.5°	693.5
40°	657.2
42.5°	622.4
45°	586.0
47.5°	545.4
50°	501.0
52.5°	454.8
55°	404.5
57.5°	360.0
60°	309.8
62.5°	265.1
65°	220.4
67.5°	178.5
70°	139.4
72.5°	104.6
75°	73.9
77.5°	47.5
80°	27.9
82.5°	16.7
85°	9.6
87.5°	4.1
90°	0.0



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— 0°-180°







(END OF REPORT)