

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: P843478

Luminaire Tested: **LD4C20DE010B50 EU4C20B50 4LBCSMB**

Issue Date: 5/7/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P843478  
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: LD4C20DE010B50 EU4C20B50 4LBCSMB  
Description: 4in Downlight with BioUp LEDs  
Light Source: -  
Ballast/Driver:

**Summary**

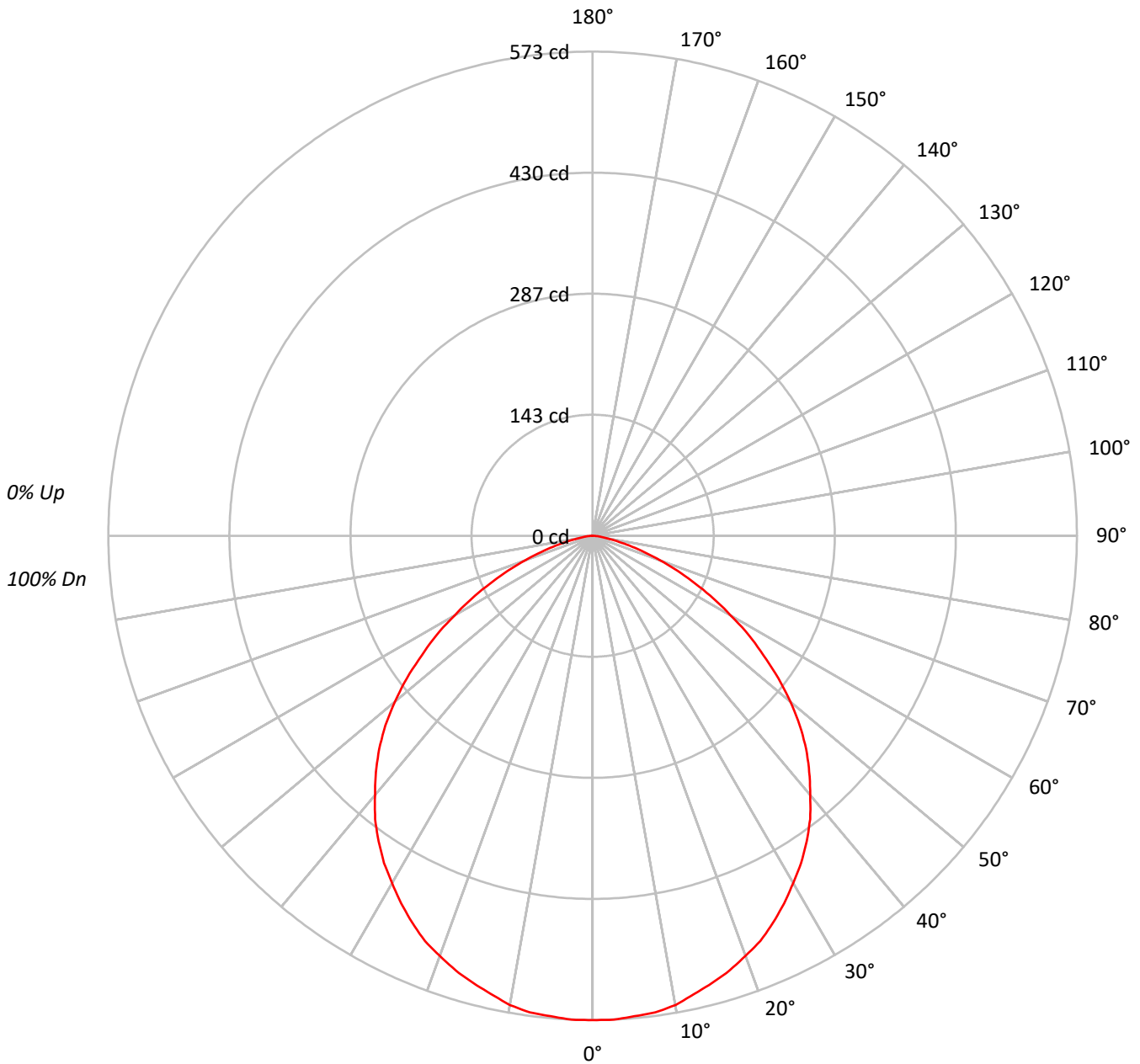
Lumens per Lamp: N/A  
Luminaire Lumens: 1403.5 lumens  
Efficiency: N/A  
Efficacy: 64.4 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.8  
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°	70420
5°	70380
10°	70346
15°	69660
20°	69160
25°	68482
30°	67326
35°	66215
40°	64246
45°	62078
50°	58351
55°	52797
60°	46389
65°	39040
70°	30532
75°	21408
80°	12027
85°	8317



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.3	3.9
10°-20°	154.6	11.0
20°-30°	232.6	16.6
30°-40°	275.7	19.6
40°-50°	274.3	19.5
50°-60°	221.1	15.8
60°-70°	133.7	9.5
70°-80°	49.7	3.5
80°-90°	7.4	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°	441.5	31.5
0°-40°	717.2	51.1
0°-60°	1212.7	86.4
0°-90°	1403.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1403.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	573	
5°	571	54
15°	548	155
25°	505	233
35°	442	276
45°	357	274
55°	246	221
65°	134	134
75°	45	50
85°	6	7
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	573.2
2.5°	573.2
5°	570.7
7.5°	569.0
10°	563.9
12.5°	555.4
15°	547.7
17.5°	539.3
20°	529.0
22.5°	518.9
25°	505.2
27.5°	490.6
30°	474.6
32.5°	459.2
35°	441.5
37.5°	422.7
40°	400.6
42.5°	379.4
45°	357.3
47.5°	332.5
50°	305.3
52.5°	277.2
55°	246.5
57.5°	219.5
60°	188.8
62.5°	161.6
65°	134.3
67.5°	108.8
70°	85.0
72.5°	63.8
75°	45.1
77.5°	29.0
80°	17.0
82.5°	10.3
85°	5.9
87.5°	2.5
90°	0.0



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— 0°-180°







(END OF REPORT)