

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: P843464

Luminaire Tested: **LD4C20DE010B40 EU4C20B40 4LBCSMB**

Issue Date: 5/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P843464  
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: LD4C20DE010B40 EU4C20B40 4LBCSMB  
Description: 4in Downlight with BioUp LEDs  
Light Source: -  
Ballast/Driver:

**Summary**

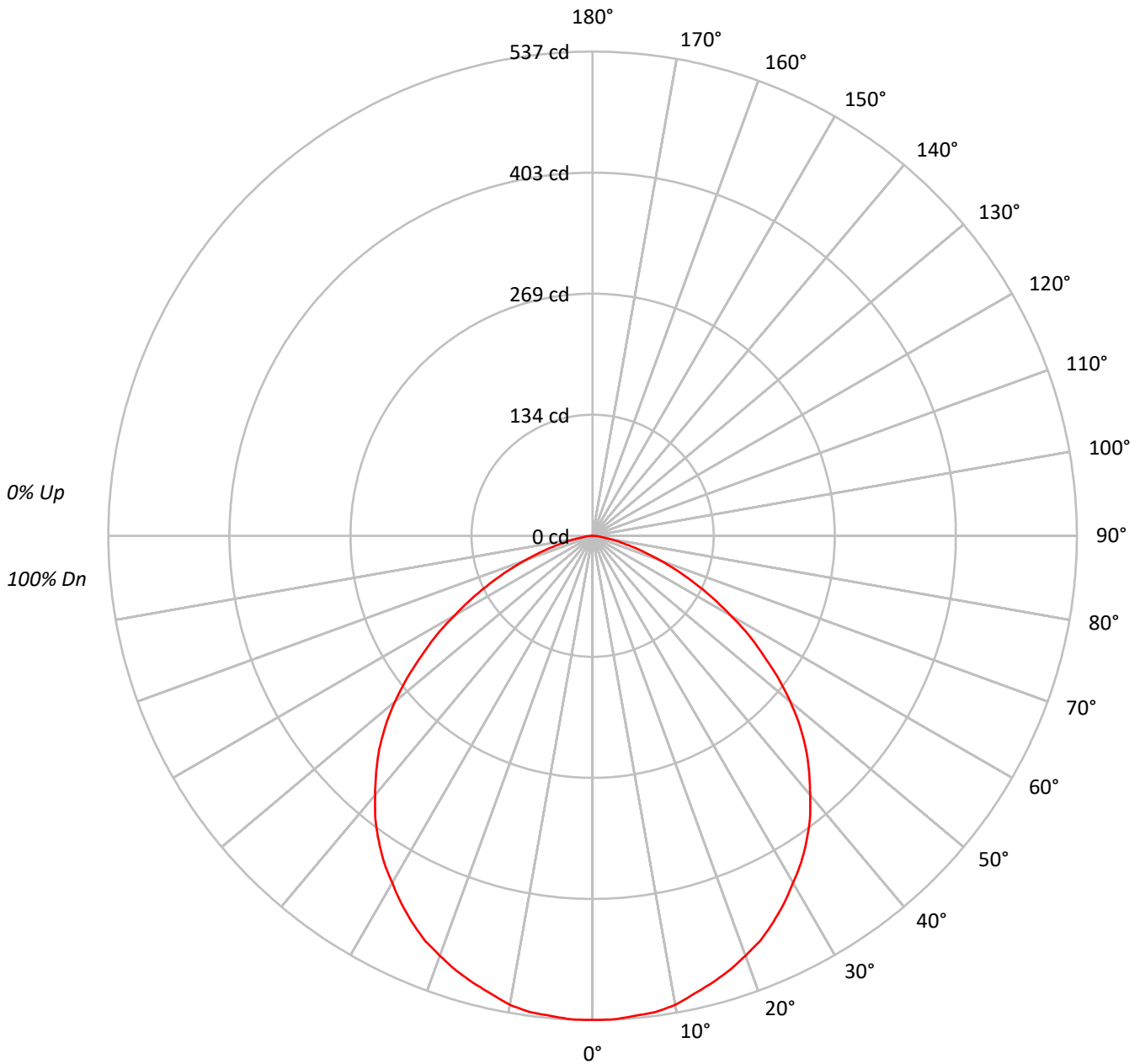
Lumens per Lamp: N/A  
Luminaire Lumens: 1314.6 lumens  
Efficiency: N/A  
Efficacy: 60.3 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 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				
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°	65960
5°	65916
10°	65892
15°	65260
20°	64794
25°	64158
30°	63056
35°	62015
40°	60172
45°	58134
50°	54681
55°	49478
60°	43441
65°	36599
70°	28592
75°	20031
80°	11320
85°	7753



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.9	3.9
10°-20°	144.8	11.0
20°-30°	217.9	16.6
30°-40°	258.2	19.6
40°-50°	257.0	19.5
50°-60°	207.1	15.8
60°-70°	125.3	9.5
70°-80°	46.5	3.5
80°-90°	6.9	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°	413.6	31.5
0°-40°	671.8	51.1
0°-60°	1135.9	86.4
0°-90°	1314.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1314.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	537	
5°	534	51
15°	513	145
25°	473	218
35°	414	258
45°	335	257
55°	231	207
65°	126	125
75°	42	47
85°	6	7
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	536.9
2.5°	536.9
5°	534.5
7.5°	532.9
10°	528.2
12.5°	520.3
15°	513.1
17.5°	505.1
20°	495.6
22.5°	486.0
25°	473.3
27.5°	459.6
30°	444.5
32.5°	430.1
35°	413.5
37.5°	396.0
40°	375.2
42.5°	355.4
45°	334.6
47.5°	311.5
50°	286.1
52.5°	259.6
55°	231.0
57.5°	205.6
60°	176.8
62.5°	151.3
65°	125.9
67.5°	102.0
70°	79.6
72.5°	59.8
75°	42.2
77.5°	27.1
80°	16.0
82.5°	9.5
85°	5.5
87.5°	2.3
90°	0.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°







(END OF REPORT)