

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: P843422

Luminaire Tested: **LD4C20DE010B2750 EU4C20B27 4LBCSMB**

Issue Date: 5/7/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P843422  
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: LD4C20DE010B2750 EU4C20B27 4LBCSMB  
Description: 4in Downlight with BioUp LEDs  
Light Source: -  
Ballast/Driver:

**Summary**

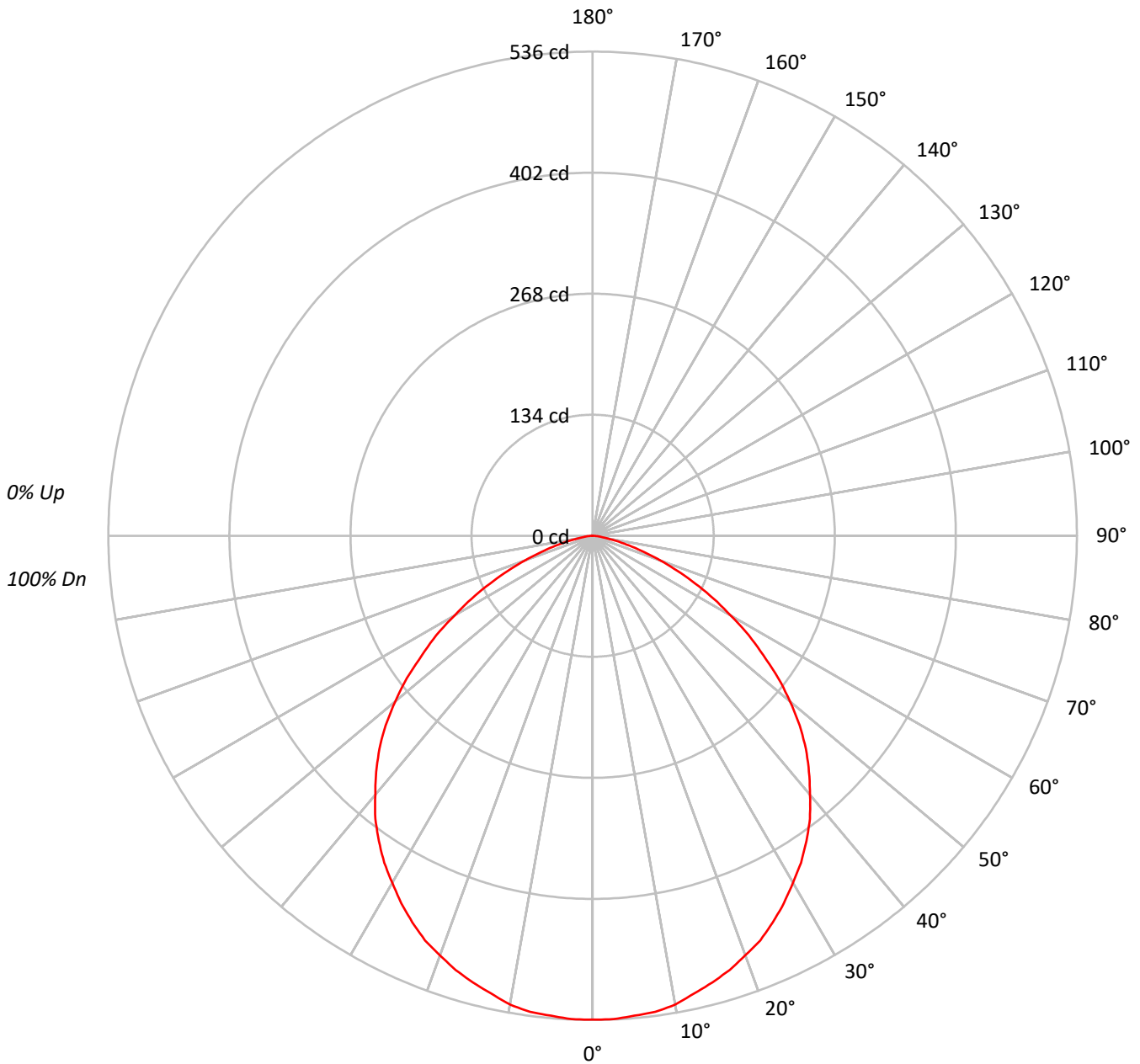
Lumens per Lamp: N/A  
Luminaire Lumens: 1311.4 lumens  
Efficiency: N/A  
Efficacy: 60.2 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P843422

CATALOG NUMBER: LD4C20DE010B2750 EU4C20B27 4LBCSMB

### Luminous Intensity Polar Plot





TEST NUMBER: P843422

CATALOG NUMBER: LD4C20DE010B2750 EU4C20B27 4LBCSMB

**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	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°	65800
5°	65768
10°	65730
15°	65107
20°	64624
25°	63995
30°	62914
35°	61865
40°	60028
45°	57995
50°	54528
55°	49370
60°	43343
65°	36482
70°	28520
75°	19984
80°	11249
85°	7753



TEST NUMBER: P843422

CATALOG NUMBER: LD4C20DE010B2750 EU4C20B27 4LBCSMB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.8	3.9
10°-20°	144.5	11.0
20°-30°	217.3	16.6
30°-40°	257.6	19.6
40°-50°	256.3	19.5
50°-60°	206.6	15.8
60°-70°	124.9	9.5
70°-80°	46.4	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°	412.6	31.5
0°-40°	670.2	51.1
0°-60°	1133.2	86.4
0°-90°	1311.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1311.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	536	
5°	533	51
15°	512	145
25°	472	217
35°	412	258
45°	334	256
55°	230	207
65°	126	125
75°	42	46
85°	6	7
90°	0	



TEST NUMBER: P843422

CATALOG NUMBER: LD4C20DE010B2750 EU4C20B27 4LBCSMB

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	535.6
2.5°	535.6
5°	533.3
7.5°	531.7
10°	526.9
12.5°	519.0
15°	511.9
17.5°	504.0
20°	494.3
22.5°	484.8
25°	472.1
27.5°	458.5
30°	443.5
32.5°	429.2
35°	412.5
37.5°	395.0
40°	374.3
42.5°	354.5
45°	333.8
47.5°	310.7
50°	285.3
52.5°	259.0
55°	230.5
57.5°	205.1
60°	176.4
62.5°	151.0
65°	125.5
67.5°	101.6
70°	79.4
72.5°	59.5
75°	42.1
77.5°	27.1
80°	15.9
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)