

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: P843423

Luminaire Tested: **LD4C20DE010B2750 EU4C20B27 4LBCSMMS**

Issue Date: 5/7/2024



Test Information

Test Method: LM-79-08
Report Number: P843423
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 4LBCSMMS
Description: 4in Downlight with BioUp LEDs
Light Source: -
Ballast/Driver:

Summary

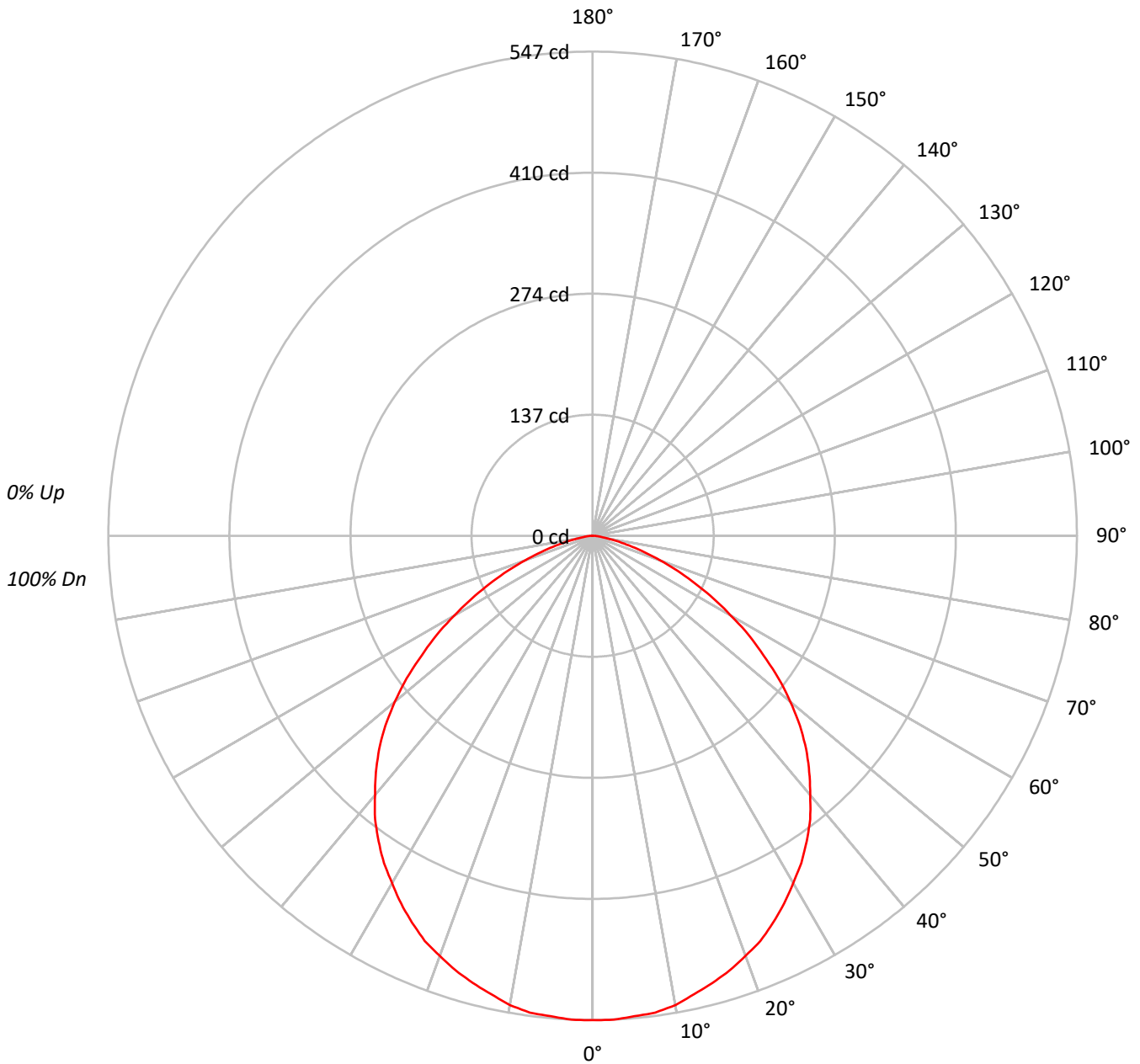
Lumens per Lamp: N/A
Luminaire Lumens: 1340.0 lumens
Efficiency: N/A
Efficacy: 61.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	67225
5°	67199
10°	67165
15°	66519
20°	66036
25°	65391
30°	64276
35°	63215
40°	61327
45°	59263
50°	55732
55°	50420
60°	44301
65°	37296
70°	29131
75°	20411
80°	11532
85°	7894



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.9	3.9
10°-20°	147.6	11.0
20°-30°	222.1	16.6
30°-40°	263.2	19.6
40°-50°	261.9	19.5
50°-60°	211.1	15.8
60°-70°	127.7	9.5
70°-80°	47.4	3.5
80°-90°	7.0	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°	421.6	31.5
0°-40°	684.8	51.1
0°-60°	1157.8	86.4
0°-90°	1340.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1340.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	547	
5°	545	52
15°	523	148
25°	482	222
35°	422	263
45°	341	262
55°	235	211
65°	128	128
75°	43	47
85°	6	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	547.2
2.5°	547.2
5°	544.9
7.5°	543.3
10°	538.4
12.5°	530.3
15°	523.0
17.5°	514.9
20°	505.1
22.5°	495.4
25°	482.4
27.5°	468.5
30°	453.1
32.5°	438.5
35°	421.5
37.5°	403.6
40°	382.4
42.5°	362.2
45°	341.1
47.5°	317.5
50°	291.6
52.5°	264.7
55°	235.4
57.5°	209.5
60°	180.3
62.5°	154.3
65°	128.3
67.5°	103.9
70°	81.1
72.5°	60.9
75°	43.0
77.5°	27.6
80°	16.3
82.5°	9.7
85°	5.6
87.5°	2.3
90°	0.0



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— 0°-180°







(END OF REPORT)