

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: P843268

Luminaire Tested: **LD4C08DE010B50 EU4C08B50 4LBCSMB**

Issue Date: 5/7/2024



Test Information

Test Method: LM-79-08
Report Number: P843268
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: LD4C08DE010B50 EU4C08B50 4LBCSMB
Description: 4in Downlight with BioUp LEDs
Light Source: -
Ballast/Driver:

Summary

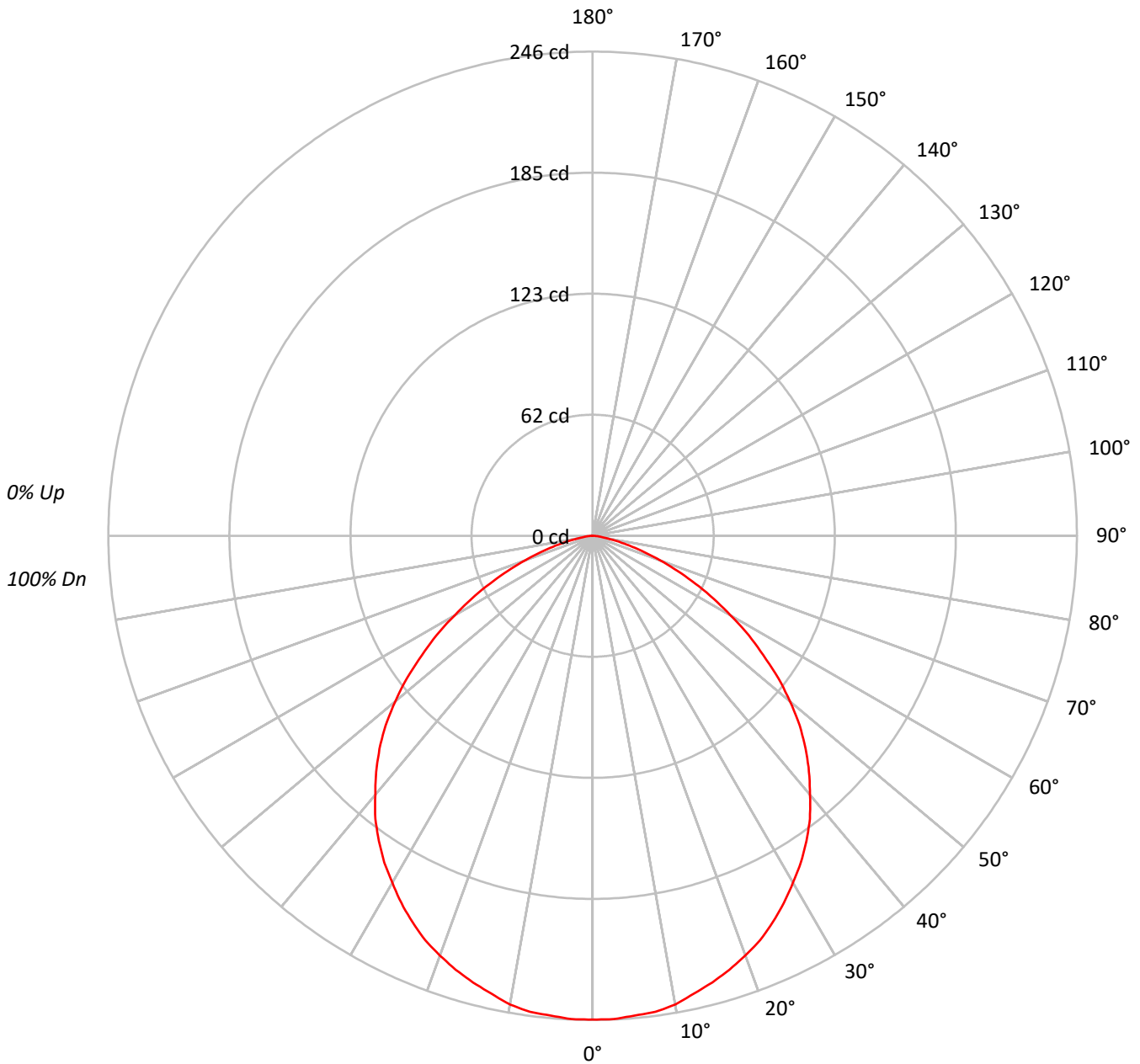
Lumens per Lamp: N/A
Luminaire Lumens: 601.8 lumens
Efficiency: N/A
Efficacy: 62.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.6
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°	30197
5°	30177
10°	30164
15°	29876
20°	29664
25°	29361
30°	28868
35°	28391
40°	27552
45°	26600
50°	25018
55°	22661
60°	19902
65°	16744
70°	13111
75°	9209
80°	5165
85°	3524



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.3	3.9
10°-20°	66.3	11.0
20°-30°	99.7	16.6
30°-40°	118.2	19.6
40°-50°	117.6	19.5
50°-60°	94.8	15.8
60°-70°	57.4	9.5
70°-80°	21.3	3.5
80°-90°	3.1	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°	189.3	31.5
0°-40°	307.5	51.1
0°-60°	520.0	86.4
0°-90°	601.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	601.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	246	
5°	245	23
15°	235	66
25°	217	100
35°	189	118
45°	153	118
55°	106	95
65°	58	57
75°	19	21
85°	2	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	245.8
2.5°	245.8
5°	244.7
7.5°	244.0
10°	241.8
12.5°	238.2
15°	234.9
17.5°	231.2
20°	226.9
22.5°	222.4
25°	216.6
27.5°	210.4
30°	203.5
32.5°	196.9
35°	189.3
37.5°	181.3
40°	171.8
42.5°	162.7
45°	153.1
47.5°	142.6
50°	130.9
52.5°	118.9
55°	105.8
57.5°	94.1
60°	81.0
62.5°	69.3
65°	57.6
67.5°	46.6
70°	36.5
72.5°	27.4
75°	19.4
77.5°	12.4
80°	7.3
82.5°	4.3
85°	2.5
87.5°	1.1
90°	0.0



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— 0°-180°







(END OF REPORT)