

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: P843270

Luminaire Tested: **LD4C08DE010B50 EU4C08B50 4LBCSMW**

Issue Date: 5/7/2024



Test Information

Test Method: LM-79-08
Report Number: P843270
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 4LBCSMW
Description: 4in Downlight with BioUp LEDs
Light Source: -
Ballast/Driver:

Summary

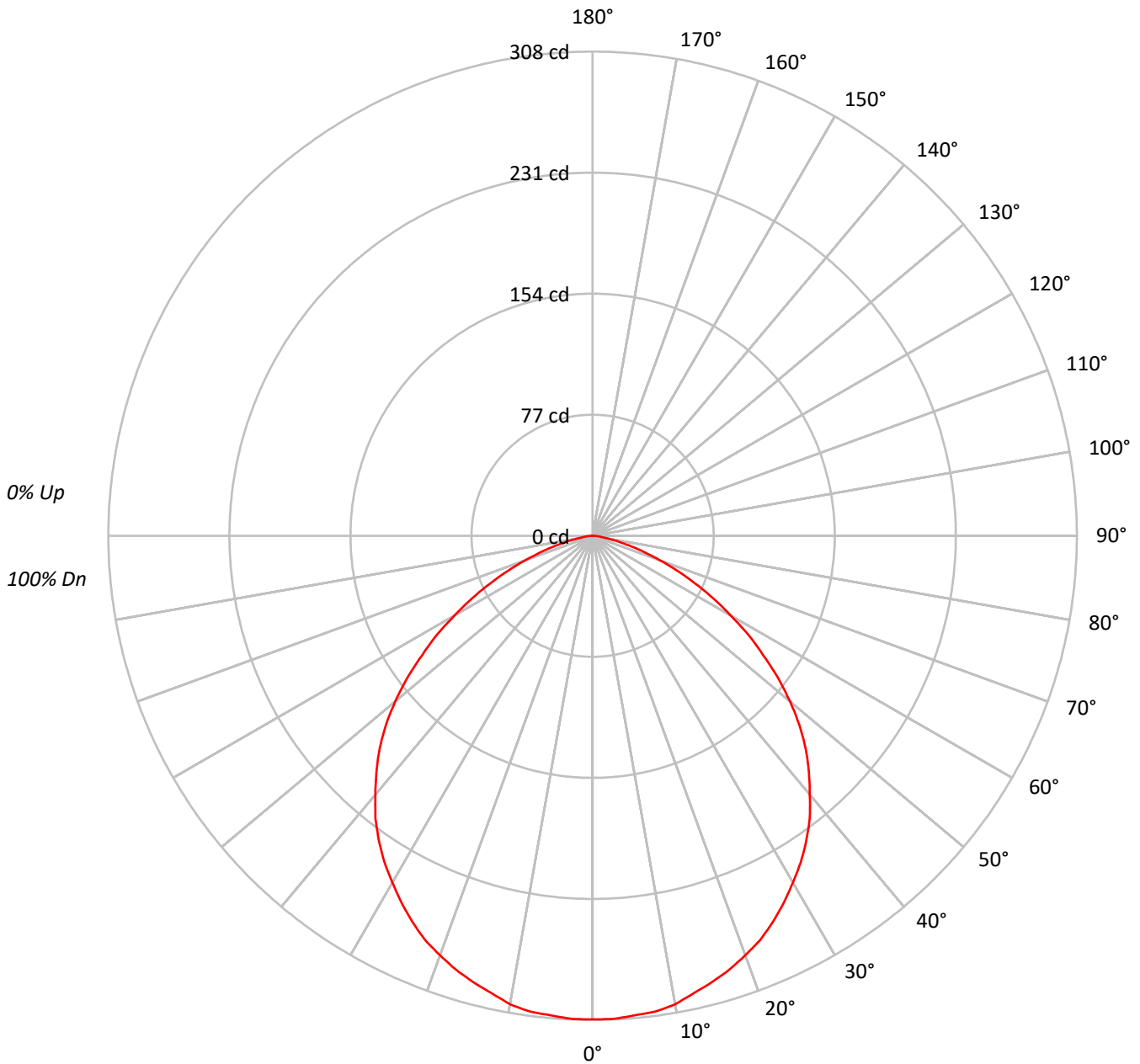
Lumens per Lamp: N/A
Luminaire Lumens: 753.1 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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																	
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	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																																				
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87																																				
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74																																				
3	93	83	75	70	90	81	74	69	79	73	68	76	71	67	73	69	65	63																																				
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55																																				
5	79	66	58	52	77	65	57	51	63	56	51	61	55	50	60	54	50	48																																				
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	49	44	42																																				
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37																																				
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33																																				
9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32	30																																				
10	55	42	35	30	54	42	34	30	41	34	29	40	34	29	39	33	29	27																																				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	37790
5°	37761
10°	37749
15°	37380
20°	37117
25°	36749
30°	36131
35°	35529
40°	34464
45°	33289
50°	31306
55°	28337
60°	24890
65°	20959
70°	16379
75°	11487
80°	6438
85°	4511



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.1	3.9
10°-20°	83.0	11.0
20°-30°	124.8	16.6
30°-40°	147.9	19.6
40°-50°	147.2	19.5
50°-60°	118.6	15.8
60°-70°	71.8	9.5
70°-80°	26.7	3.5
80°-90°	4.0	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°	236.9	31.5
0°-40°	384.8	51.1
0°-60°	650.6	86.4
0°-90°	753.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	753.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	308	
5°	306	29
15°	294	83
25°	271	125
35°	237	148
45°	192	147
55°	132	119
65°	72	72
75°	24	27
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	307.6
2.5°	307.6
5°	306.2
7.5°	305.3
10°	302.6
12.5°	297.9
15°	293.9
17.5°	289.4
20°	283.9
22.5°	278.4
25°	271.1
27.5°	263.2
30°	254.7
32.5°	246.4
35°	236.9
37.5°	226.9
40°	214.9
42.5°	203.6
45°	191.6
47.5°	178.4
50°	163.8
52.5°	148.7
55°	132.3
57.5°	117.7
60°	101.3
62.5°	86.7
65°	72.1
67.5°	58.4
70°	45.6
72.5°	34.3
75°	24.2
77.5°	15.5
80°	9.1
82.5°	5.5
85°	3.2
87.5°	1.4
90°	0.0



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— 0°-180°







(END OF REPORT)