

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: P843269

Luminaire Tested: **LD4C08DE010B50 EU4C08B50 4LBCSMMS**

Issue Date: 5/7/2024

Test Information

Test Method: LM-79-08
Report Number: P843269
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 4LBCSMMS
Description: 4in Downlight with BioUp LEDs
Light Source: -
Ballast/Driver:

Summary

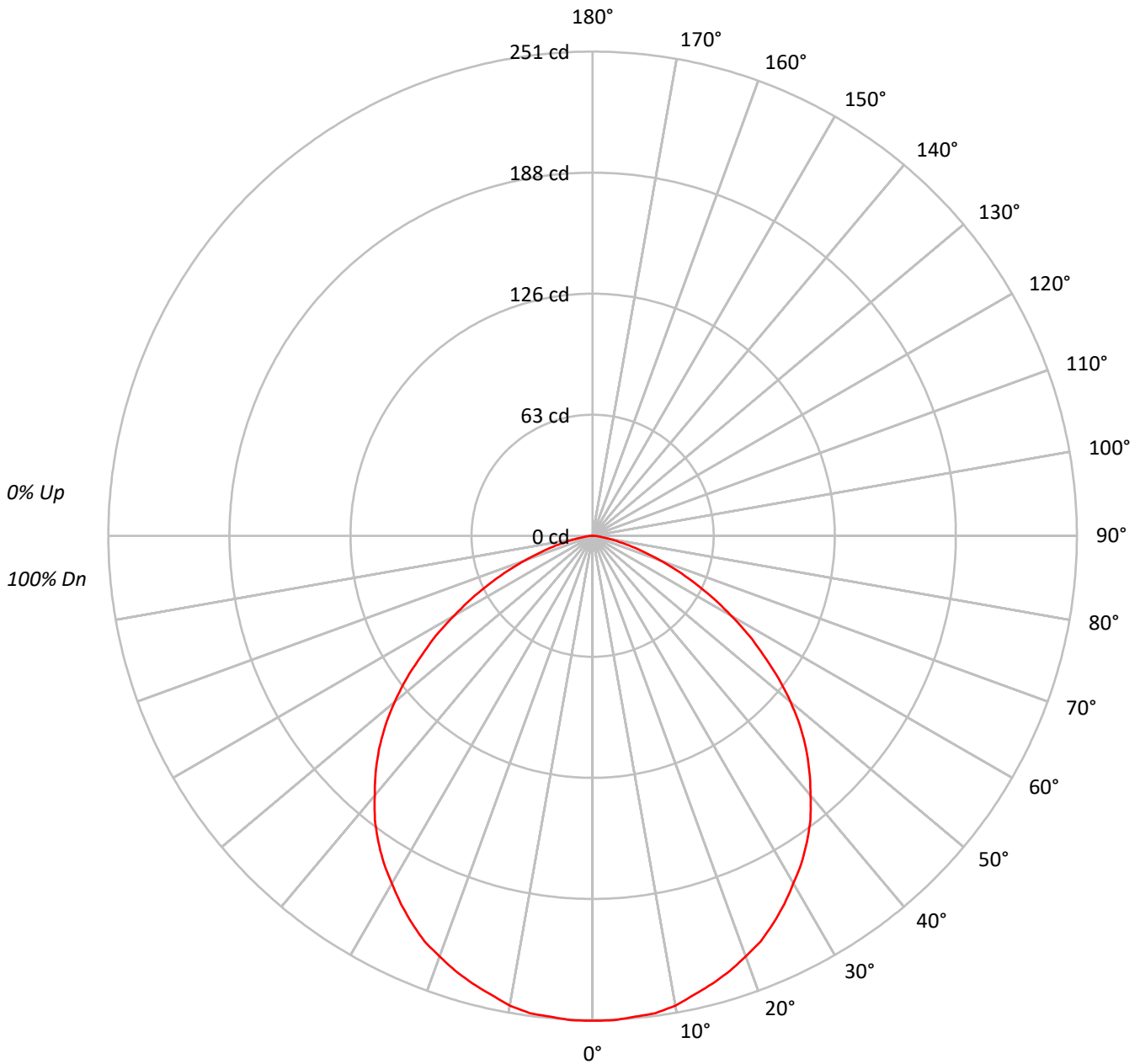
Lumens per Lamp: N/A
Luminaire Lumens: 615.5 lumens
Efficiency: N/A
Efficacy: 64.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	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°	30885
5°	30868
10°	30850
15°	30563
20°	30331
25°	30039
30°	29521
35°	29050
40°	28178
45°	27208
50°	25592
55°	23175
60°	20345
65°	17122
70°	13362
75°	9398
80°	5306
85°	3524



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.8	3.9
10°-20°	67.8	11.0
20°-30°	102.0	16.6
30°-40°	120.9	19.6
40°-50°	120.3	19.5
50°-60°	97.0	15.8
60°-70°	58.6	9.5
70°-80°	21.8	3.5
80°-90°	3.2	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°	193.7	31.5
0°-40°	314.6	51.1
0°-60°	531.9	86.4
0°-90°	615.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	615.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	251	
5°	250	24
15°	240	68
25°	222	102
35°	194	121
45°	157	120
55°	108	97
65°	59	59
75°	20	22
85°	2	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	251.4
2.5°	251.4
5°	250.3
7.5°	249.6
10°	247.3
12.5°	243.6
15°	240.3
17.5°	236.5
20°	232.0
22.5°	227.6
25°	221.6
27.5°	215.2
30°	208.1
32.5°	201.4
35°	193.7
37.5°	185.4
40°	175.7
42.5°	166.4
45°	156.6
47.5°	145.8
50°	133.9
52.5°	121.6
55°	108.2
57.5°	96.2
60°	82.8
62.5°	70.9
65°	58.9
67.5°	47.7
70°	37.2
72.5°	27.9
75°	19.8
77.5°	12.7
80°	7.5
82.5°	4.4
85°	2.5
87.5°	1.1
90°	0.0



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— 0°-180°







(END OF REPORT)