

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: P843420

Luminaire Tested: **LD4C15DE010B50 EU4C15B50 4LBWH**

Issue Date: 2/17/2023



Test Information

Test Method: LM-79-08
Report Number: P843420
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P206636)
Test Lab: INNOVATION CENTER
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C15DE010B50 EU4C15B50 4LBWH
Description: 4in Downlight with BioUp LEDs
Light Source: -
Ballast/Driver:

Summary

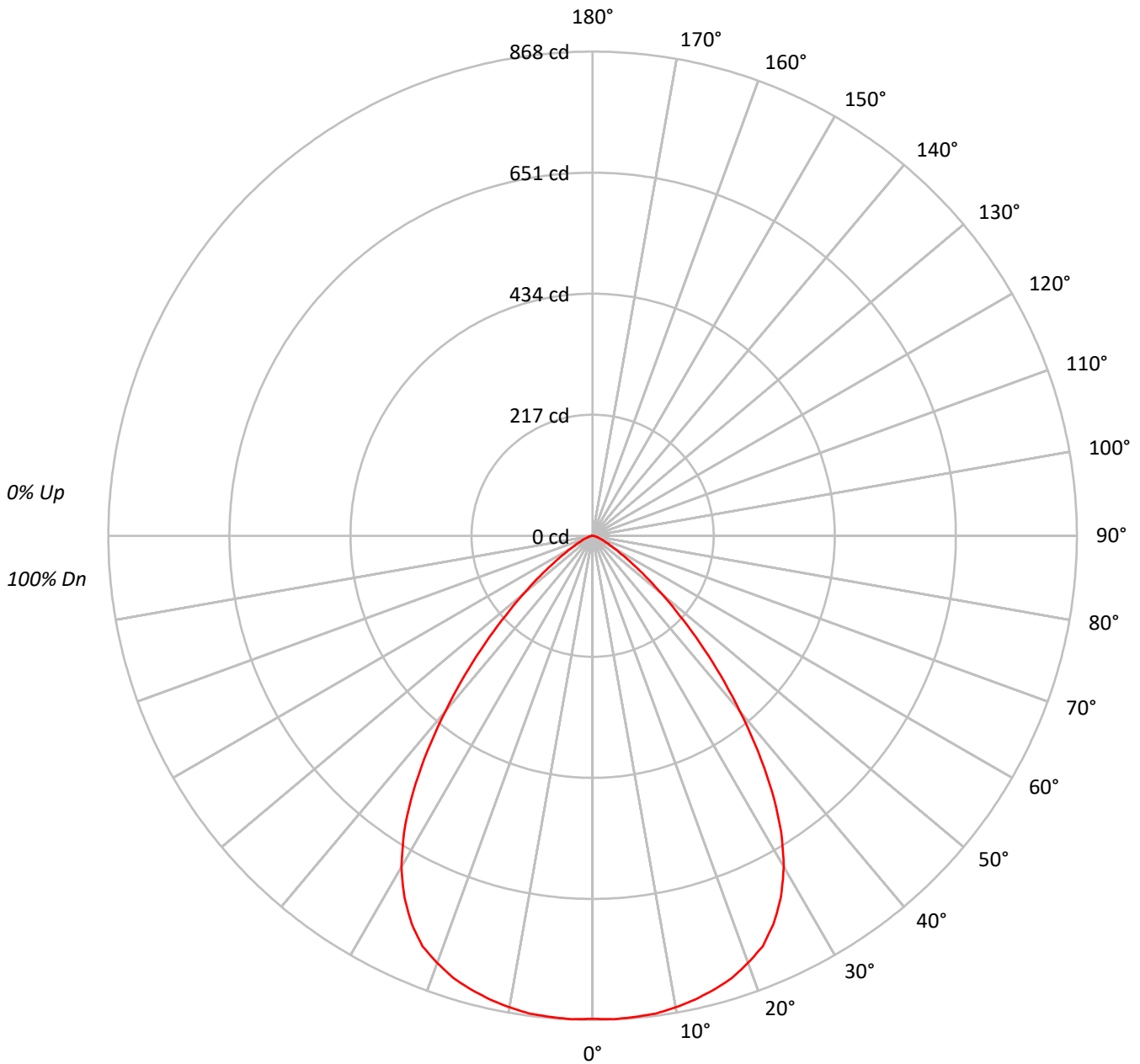
Lumens per Lamp: N/A
Luminaire Lumens: 1343.2 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 17
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									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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91																											
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82																											
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74																											
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67																											
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61																											
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	55																											
7	76	65	58	53	75	65	58	53	63	57	53	62	56	52	61	56	52	50																											
8	72	60	53	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46																											
9	68	56	49	45	66	56	49	45	55	49	44	54	48	44	53	48	44	43																											
10	64	52	46	41	63	52	46	41	51	45	41	50	45	41	49	44	41	39																											

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	106367
5°	106773
10°	107097
15°	107104
20°	106512
25°	104010
30°	97216
35°	84197
40°	65753
45°	47188
50°	30638
55°	18356
60°	10737
65°	6889
70°	4598
75°	3465
80°	2618
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.5	6.1
10°-20°	237.6	17.7
20°-30°	350.5	26.1
30°-40°	346.0	25.8
40°-50°	211.7	15.8
50°-60°	81.2	6.0
60°-70°	25.4	1.9
70°-80°	7.5	0.6
80°-90°	1.0	0.1
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°	670.6	49.9
0°-40°	1016.5	75.7
0°-60°	1309.4	97.5
0°-90°	1343.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1343.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	866	
5°	866	82
15°	842	238
25°	767	351
35°	561	346
45°	272	212
55°	86	81
65°	24	25
75°	7	7
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	865.8
2.5°	867.6
5°	865.8
7.5°	864.0
10°	858.5
12.5°	851.2
15°	842.1
17.5°	831.1
20°	814.7
22.5°	796.5
25°	767.3
27.5°	730.8
30°	685.3
32.5°	628.9
35°	561.4
37.5°	486.6
40°	410.0
42.5°	339.0
45°	271.6
47.5°	211.4
50°	160.3
52.5°	118.5
55°	85.7
57.5°	60.1
60°	43.7
62.5°	32.9
65°	23.7
67.5°	18.3
70°	12.8
72.5°	9.1
75°	7.3
77.5°	3.7
80°	3.7
82.5°	1.8
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)