

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: P843394

Luminaire Tested: **LD4C15DE010B40 EU4C15B40 4LBCSMB**

Issue Date: 5/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P843394  
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: LD4C15DE010B40 EU4C15B40 4LBCSMB  
Description: 4in Downlight with BioUp LEDs  
Light Source: -  
Ballast/Driver:

**Summary**

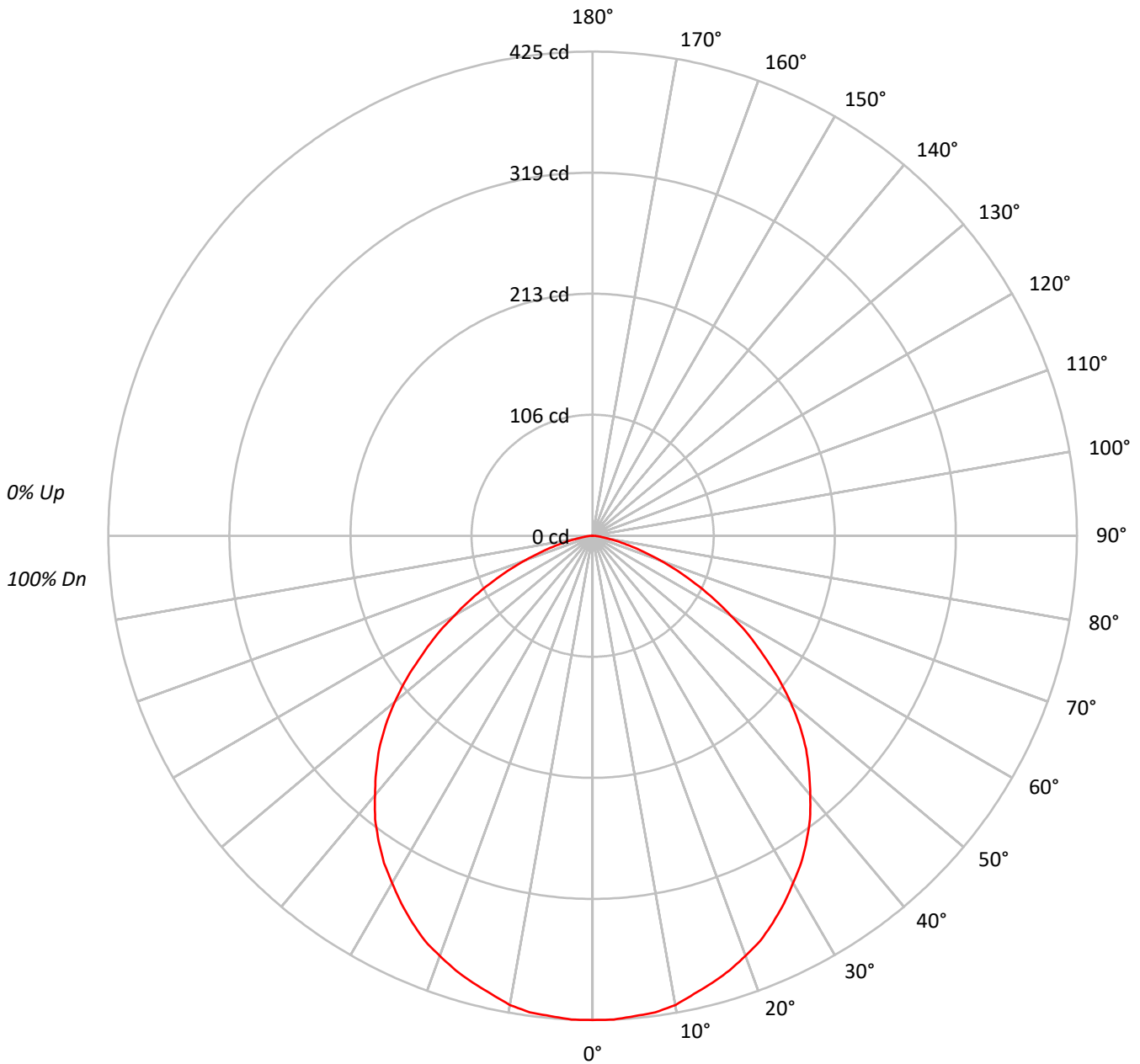
Lumens per Lamp: N/A  
Luminaire Lumens: 1040.7 lumens  
Efficiency: N/A  
Efficacy: 61.2 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 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				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°	52225
5°	52190
10°	52170
15°	51663
20°	51288
25°	50778
30°	49920
35°	49087
40°	47647
45°	46024
50°	43271
55°	39175
60°	34399
65°	28953
70°	22630
75°	15854
80°	8914
85°	6061



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.3	3.9
10°-20°	114.7	11.0
20°-30°	172.5	16.6
30°-40°	204.4	19.6
40°-50°	203.4	19.5
50°-60°	164.0	15.8
60°-70°	99.2	9.5
70°-80°	36.8	3.5
80°-90°	5.4	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°	327.4	31.5
0°-40°	531.8	51.1
0°-60°	899.3	86.4
0°-90°	1040.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1040.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	425	
5°	423	40
15°	406	115
25°	375	172
35°	327	204
45°	265	203
55°	183	164
65°	100	99
75°	33	37
85°	4	5
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	425.1
2.5°	425.1
5°	423.2
7.5°	421.9
10°	418.2
12.5°	411.8
15°	406.2
17.5°	399.9
20°	392.3
22.5°	384.8
25°	374.6
27.5°	363.8
30°	351.9
32.5°	340.6
35°	327.3
37.5°	313.5
40°	297.1
42.5°	281.3
45°	264.9
47.5°	246.5
50°	226.4
52.5°	205.6
55°	182.9
57.5°	162.8
60°	140.0
62.5°	119.8
65°	99.6
67.5°	80.7
70°	63.0
72.5°	47.3
75°	33.4
77.5°	21.5
80°	12.6
82.5°	7.6
85°	4.3
87.5°	1.8
90°	0.0



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— 0°-180°







(END OF REPORT)