

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: P843396

Luminaire Tested: **LD4C15DE010B40 EU4C15B40 4LBCSMW**

Issue Date: 5/7/2024



Test Information

Test Method: LM-79-08
Report Number: P843396
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 4LBCSMW
Description: 4in Downlight with BioUp LEDs
Light Source: -
Ballast/Driver:

Summary

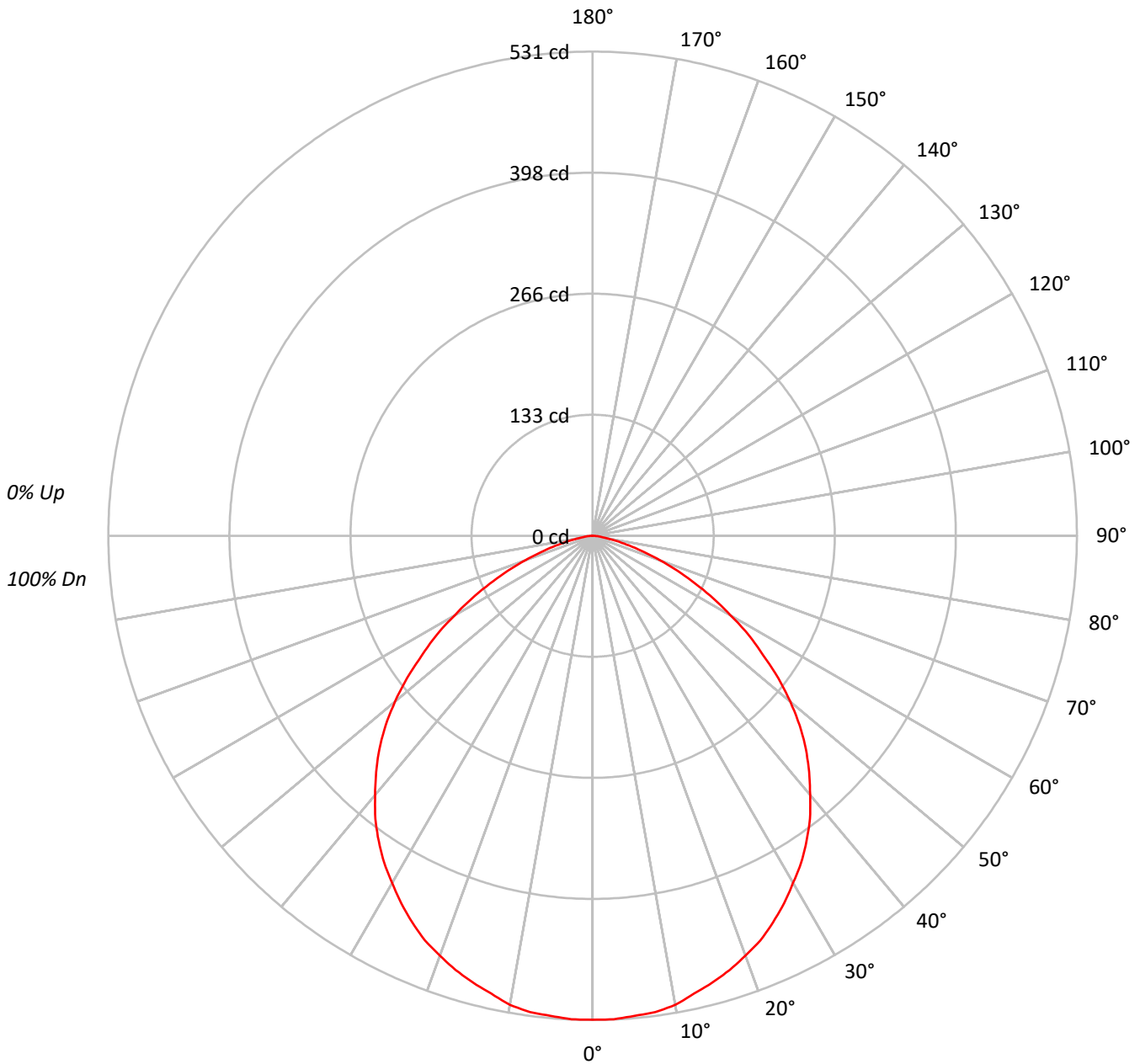
Lumens per Lamp: N/A
Luminaire Lumens: 1299.8 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P843396

CATALOG NUMBER: LD4C15DE010B40 EU4C15B40 4LBCSMW

Luminous Intensity Polar Plot





TEST NUMBER: P843396

CATALOG NUMBER: LD4C15DE010B40 EU4C15B40 4LBSCMW

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°	65211
5°	65176
10°	65156
15°	64522
20°	64062
25°	63426
30°	62361
35°	61325
40°	59499
45°	57474
50°	54050
55°	48899
60°	42974
65°	36192
70°	28269
75°	19794
80°	11178
85°	7753



TEST NUMBER: P843396

CATALOG NUMBER: LD4C15DE010B40 EU4C15B40 4LBCSMW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.3	3.9
10°-20°	143.2	11.0
20°-30°	215.4	16.6
30°-40°	255.3	19.6
40°-50°	254.1	19.5
50°-60°	204.8	15.8
60°-70°	123.9	9.5
70°-80°	46.0	3.5
80°-90°	6.8	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°	408.9	31.5
0°-40°	664.3	51.1
0°-60°	1123.1	86.4
0°-90°	1299.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1299.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	531	
5°	528	50
15°	507	143
25°	468	215
35°	409	255
45°	331	254
55°	228	205
65°	124	124
75°	42	46
85°	6	7
90°	0	



TEST NUMBER: P843396

CATALOG NUMBER: LD4C15DE010B40 EU4C15B40 4LBCSMW

CANDELA DISTRIBUTION (FULL):

	0°
0°	530.8
2.5°	530.8
5°	528.5
7.5°	527.0
10°	522.3
12.5°	514.3
15°	507.3
17.5°	499.4
20°	490.0
22.5°	480.5
25°	467.9
27.5°	454.5
30°	439.6
32.5°	425.4
35°	408.9
37.5°	391.5
40°	371.0
42.5°	351.3
45°	330.8
47.5°	308.0
50°	282.8
52.5°	256.8
55°	228.3
57.5°	203.3
60°	174.9
62.5°	149.7
65°	124.5
67.5°	100.8
70°	78.7
72.5°	59.0
75°	41.7
77.5°	26.8
80°	15.8
82.5°	9.4
85°	5.5
87.5°	2.3
90°	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180°







(END OF REPORT)