

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: P843403

Luminaire Tested: **LD4C15DE010B40 EU4C15B40 4LBNLI**

Issue Date: 2/16/2023



Test Information

Test Method: LM-79-08
Report Number: P843403
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208279)
Test Lab: INNOVATION CENTER
Issue Date: 2/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C15DE010B40 EU4C15B40 4LBNLI
Description: 4in Downlight with BioUp LEDs
Light Source: -
Ballast/Driver:

Summary

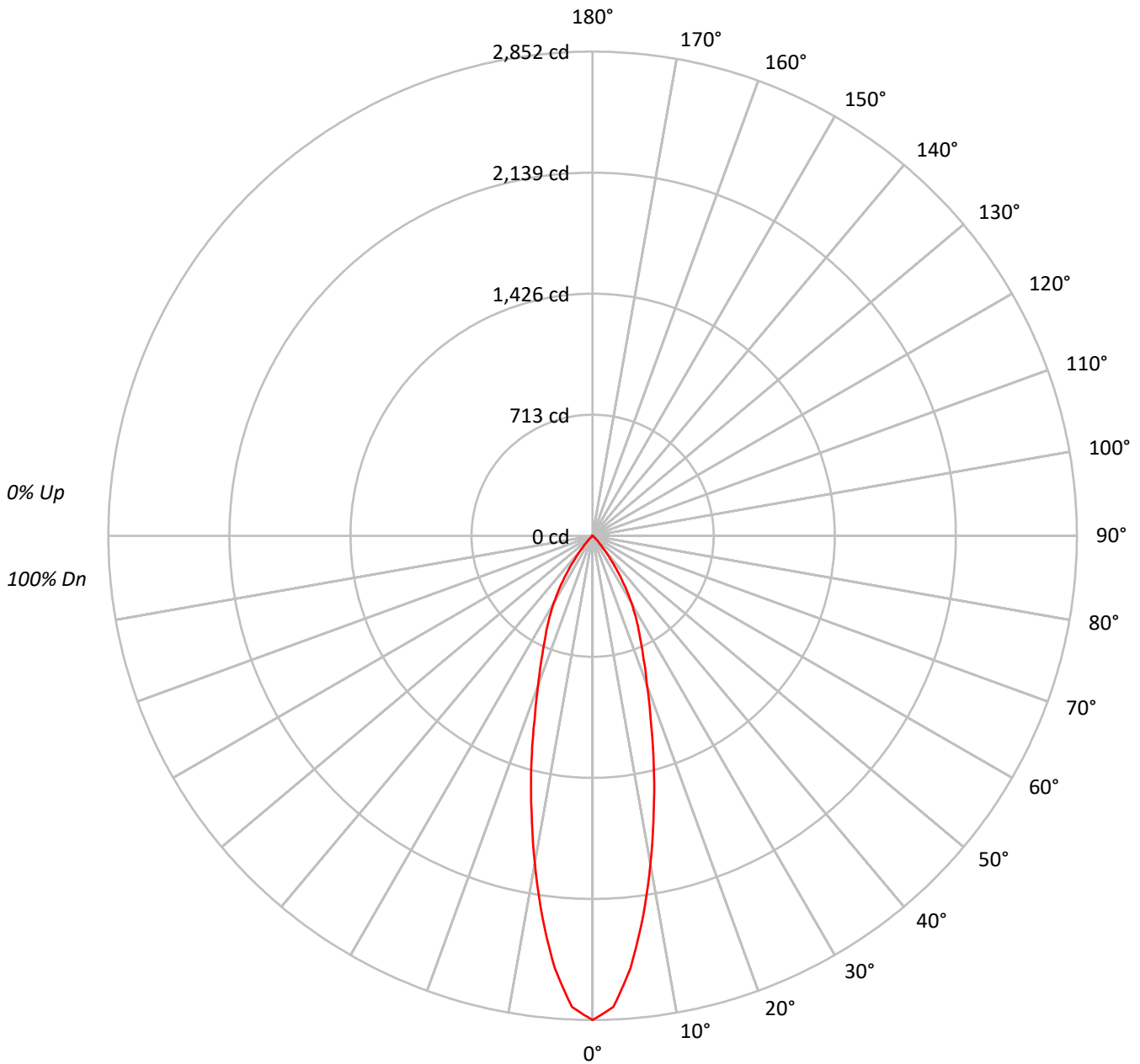
Lumens per Lamp: N/A
Luminaire Lumens: 1108.4 lumens
Efficiency: N/A
Efficacy: 65.2 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.54
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P843403

CATALOG NUMBER: LD4C15DE010B40 EU4C15B40 4LBNLI

Luminous Intensity Polar Plot





TEST NUMBER: P843403

CATALOG NUMBER: LD4C15DE010B40 EU4C15B40 4LBNLI

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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	95	95	95
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	92	90	90	90	90
3	105	99	95	92	103	98	94	91	95	92	89	93	90	88	91	89	87	85	85	85	85
4	101	94	89	86	99	93	88	85	91	87	84	89	86	83	87	84	82	81	81	81	81
5	96	89	84	80	95	88	84	80	87	82	79	85	81	79	83	80	78	77	77	77	77
6	92	85	80	76	91	84	79	76	83	78	75	81	78	75	80	77	74	73	73	73	73
7	89	81	76	72	88	80	75	72	79	75	71	78	74	71	77	73	71	69	69	69	69
8	85	77	72	68	84	77	72	68	76	71	68	75	71	68	74	70	67	66	66	66	66
9	82	74	69	65	81	73	68	65	72	68	65	72	68	65	71	67	64	63	63	63	63
10	79	71	66	62	78	70	65	62	69	65	62	69	65	62	68	64	62	61	61	61	61

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	350427
5°	315336
10°	244470
15°	176943
20°	122528
25°	89316
30°	64900
35°	38409
40°	16150
45°	5038
50°	650
55°	364
60°	418
65°	494
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P843403

CATALOG NUMBER: LD4C15DE010B40 EU4C15B40 4LBNLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.8	20.3
10°-20°	384.8	34.7
20°-30°	305.9	27.6
30°-40°	161.9	14.6
40°-50°	27.9	2.5
50°-60°	2.1	0.2
60°-70°	1.0	0.1
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	915.5	82.6
0°-40°	1077.4	97.2
0°-60°	1107.4	99.9
0°-90°	1108.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1108.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2852	
5°	2557	225
15°	1391	385
25°	659	306
35°	256	162
45°	29	28
55°	2	2
65°	2	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P843403

CATALOG NUMBER: LD4C15DE010B40 EU4C15B40 4LBNLI

CANDELA DISTRIBUTION (FULL):

	0°
0°	2852.4
2.5°	2778.9
5°	2557.0
7.5°	2266.9
10°	1959.7
12.5°	1662.6
15°	1391.2
17.5°	1138.5
20°	937.2
22.5°	783.5
25°	658.9
27.5°	558.2
30°	457.5
32.5°	355.0
35°	256.1
37.5°	169.0
40°	100.7
42.5°	58.1
45°	29.0
47.5°	10.3
50°	3.4
52.5°	3.4
55°	1.7
57.5°	1.7
60°	1.7
62.5°	1.7
65°	1.7
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180°







(END OF REPORT)