

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: P843325

Luminaire Tested: **LD4C10DE010B40 EU4C10B40 4LBCSMMS**

Issue Date: 5/7/2024



Test Information

Test Method: LM-79-08
Report Number: P843325
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: LD4C10DE010B40 EU4C10B40 4LBCSMMS
Description: 4in Downlight with BioUp LEDs
Light Source: -
Ballast/Driver:

Summary

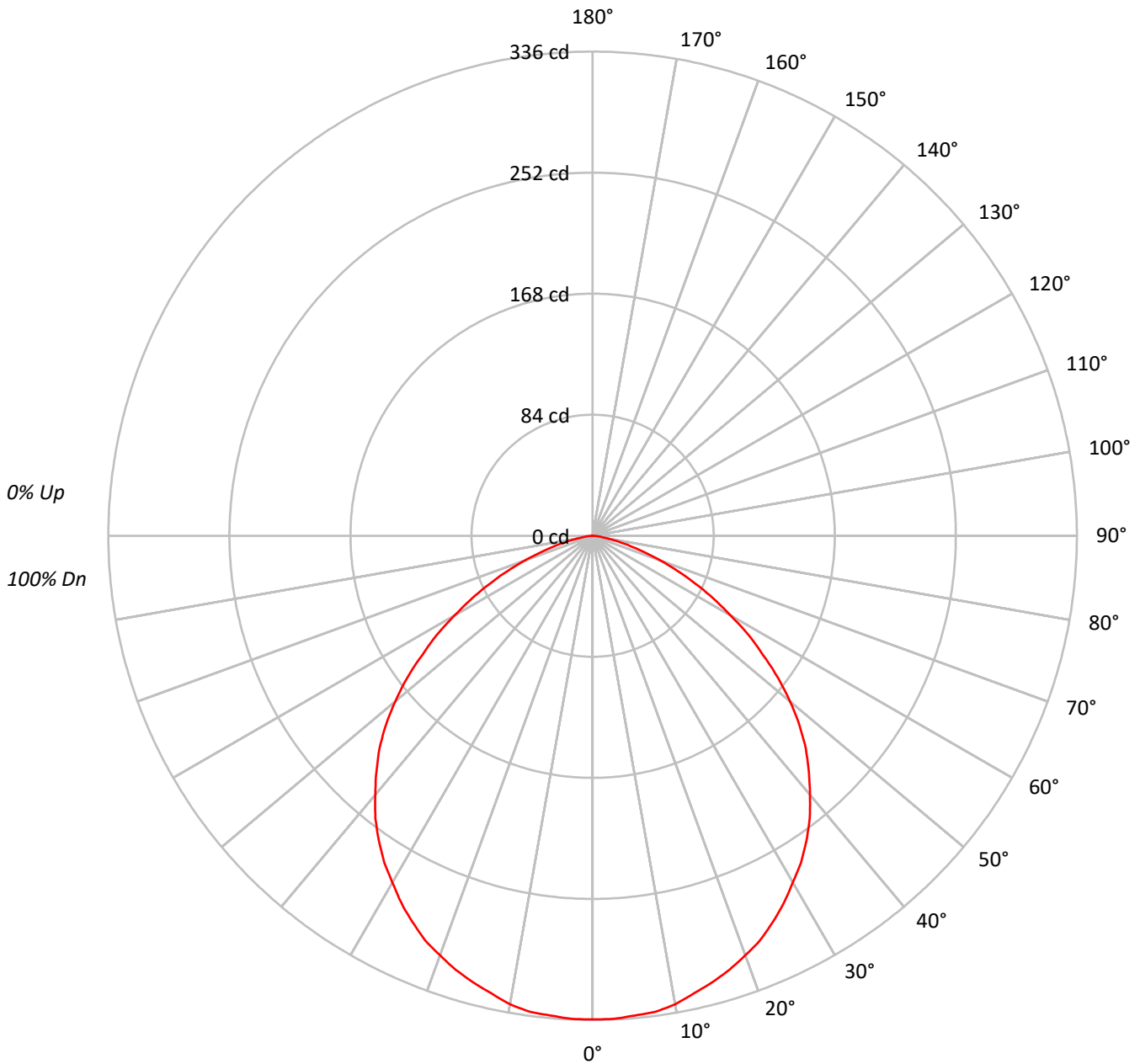
Lumens per Lamp: N/A
Luminaire Lumens: 821.8 lumens
Efficiency: N/A
Efficacy: 61.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 13.3
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: P843325

CATALOG NUMBER: LD4C10DE010B40 EU4C10B40 4LBCSMMS

Luminous Intensity Polar Plot





TEST NUMBER: P843325

CATALOG NUMBER: LD4C10DE010B40 EU4C10B40 4LBCSMMS

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°	41230
5°	41214
10°	41192
15°	40802
20°	40503
25°	40097
30°	39408
35°	38769
40°	37624
45°	36347
50°	34173
55°	30929
60°	27151
65°	22878
70°	17888
75°	12484
80°	7004
85°	4934



TEST NUMBER: P843325

CATALOG NUMBER: LD4C10DE010B40 EU4C10B40 4LBCSMMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.8	3.9
10°-20°	90.6	11.0
20°-30°	136.2	16.6
30°-40°	161.4	19.6
40°-50°	160.6	19.5
50°-60°	129.5	15.8
60°-70°	78.3	9.5
70°-80°	29.0	3.5
80°-90°	4.3	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°	258.6	31.5
0°-40°	420.0	51.1
0°-60°	710.1	86.4
0°-90°	821.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	821.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	336	
5°	334	32
15°	321	91
25°	296	136
35°	258	161
45°	209	161
55°	144	129
65°	79	78
75°	26	29
85°	4	4
90°	0	



TEST NUMBER: P843325

CATALOG NUMBER: LD4C10DE010B40 EU4C10B40 4LBCSMMS

CANDELA DISTRIBUTION (FULL):

	0°
0°	335.6
2.5°	335.6
5°	334.2
7.5°	333.2
10°	330.2
12.5°	325.2
15°	320.8
17.5°	315.8
20°	309.8
22.5°	303.8
25°	295.8
27.5°	287.4
30°	277.8
32.5°	269.0
35°	258.5
37.5°	247.5
40°	234.6
42.5°	222.1
45°	209.2
47.5°	194.7
50°	178.8
52.5°	162.3
55°	144.4
57.5°	128.5
60°	110.5
62.5°	94.7
65°	78.7
67.5°	63.7
70°	49.8
72.5°	37.3
75°	26.3
77.5°	16.9
80°	9.9
82.5°	6.0
85°	3.5
87.5°	1.5
90°	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180°







(END OF REPORT)