

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: P843494

Luminaire Tested: **LD4C25DE010B2750 EU4C25B27 4LBCSMW**

Issue Date: 5/7/2024

Test Information

Test Method: LM-79-08
Report Number: P843494
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: LD4C25DE010B2750 EU4C25B27 4LBSCMW
Description: 4in Downlight with BioUp LEDs
Light Source: -
Ballast/Driver:

Summary

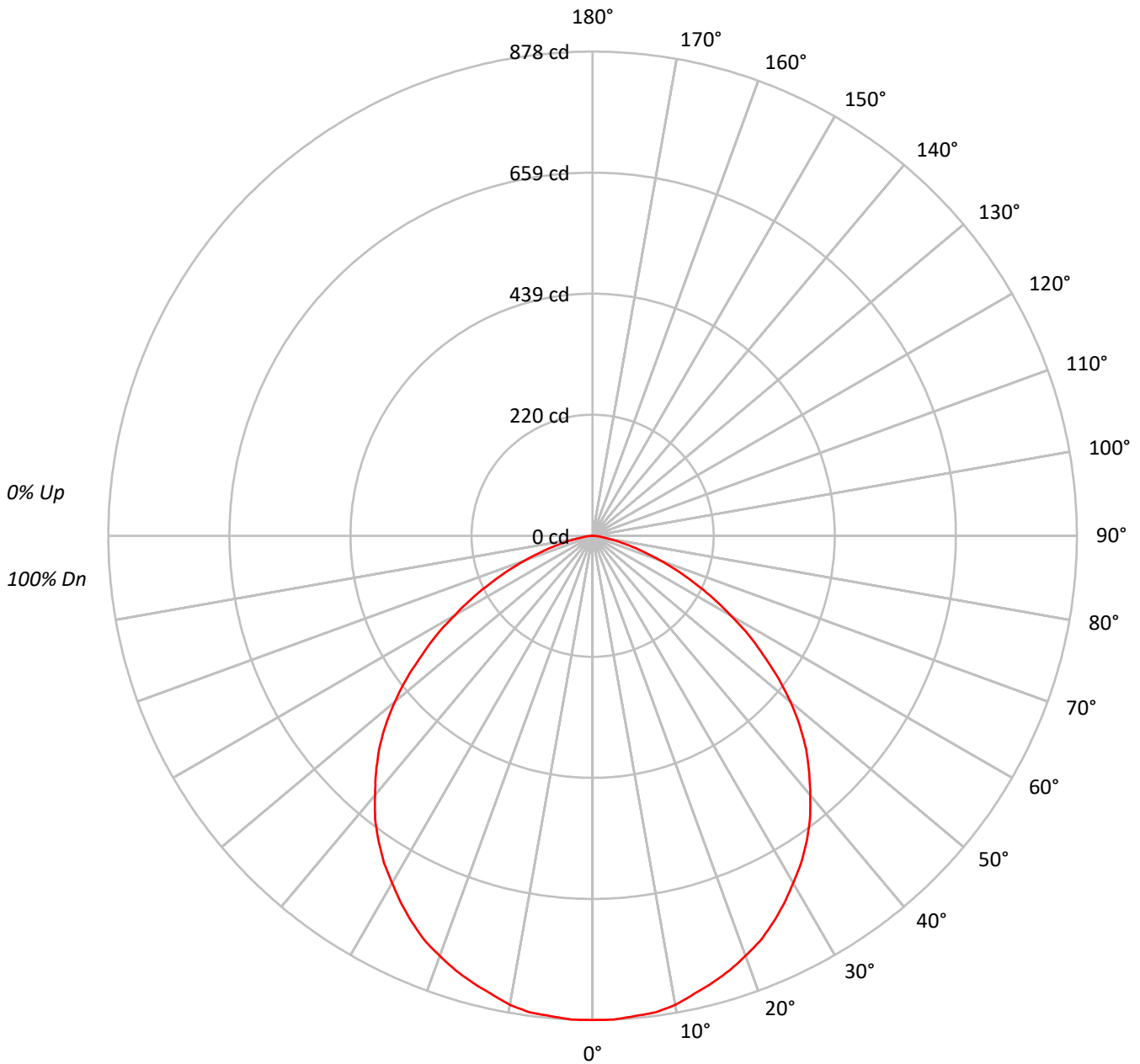
Lumens per Lamp: N/A
Luminaire Lumens: 2150.2 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 29.8
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: P843494

CATALOG NUMBER: LD4C25DE010B2750 EU4C25B27 4LBCSMW

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°	107890
5°	107821
10°	107770
15°	106736
20°	105976
25°	104919
30°	103131
35°	101444
40°	98421
45°	95088
50°	89428
55°	80920
60°	71083
65°	59825
70°	46768
75°	32800
80°	18465
85°	12686



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.2	3.9
10°-20°	236.9	11.0
20°-30°	356.4	16.6
30°-40°	422.3	19.6
40°-50°	420.3	19.5
50°-60°	338.8	15.8
60°-70°	204.9	9.5
70°-80°	76.1	3.5
80°-90°	11.3	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°	676.5	31.5
0°-40°	1098.8	51.1
0°-60°	1857.9	86.4
0°-90°	2150.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2150.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	878	
5°	874	83
15°	839	237
25°	774	356
35°	676	422
45°	547	420
55°	378	339
65°	206	205
75°	69	76
85°	9	11
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	878.2
2.5°	878.2
5°	874.3
7.5°	871.7
10°	863.9
12.5°	850.9
15°	839.2
17.5°	826.2
20°	810.6
22.5°	794.9
25°	774.0
27.5°	751.8
30°	727.0
32.5°	703.6
35°	676.4
37.5°	647.6
40°	613.7
42.5°	581.2
45°	547.3
47.5°	509.4
50°	467.9
52.5°	424.7
55°	377.8
57.5°	336.2
60°	289.3
62.5°	247.6
65°	205.8
67.5°	166.7
70°	130.2
72.5°	97.7
75°	69.1
77.5°	44.3
80°	26.1
82.5°	15.7
85°	9.0
87.5°	3.8
90°	0.0



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— 0°-180°







(END OF REPORT)