

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: P843535

Luminaire Tested: **LD4C25DE010B2750 EU4C25B40 4LBCSMMS**

Issue Date: 5/7/2024



Test Information

Test Method: LM-79-08
Report Number: P843535
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 EU4C25B40 4LBCSMMS
Description: 4in Downlight with BioUp LEDs
Light Source: -
Ballast/Driver:

Summary

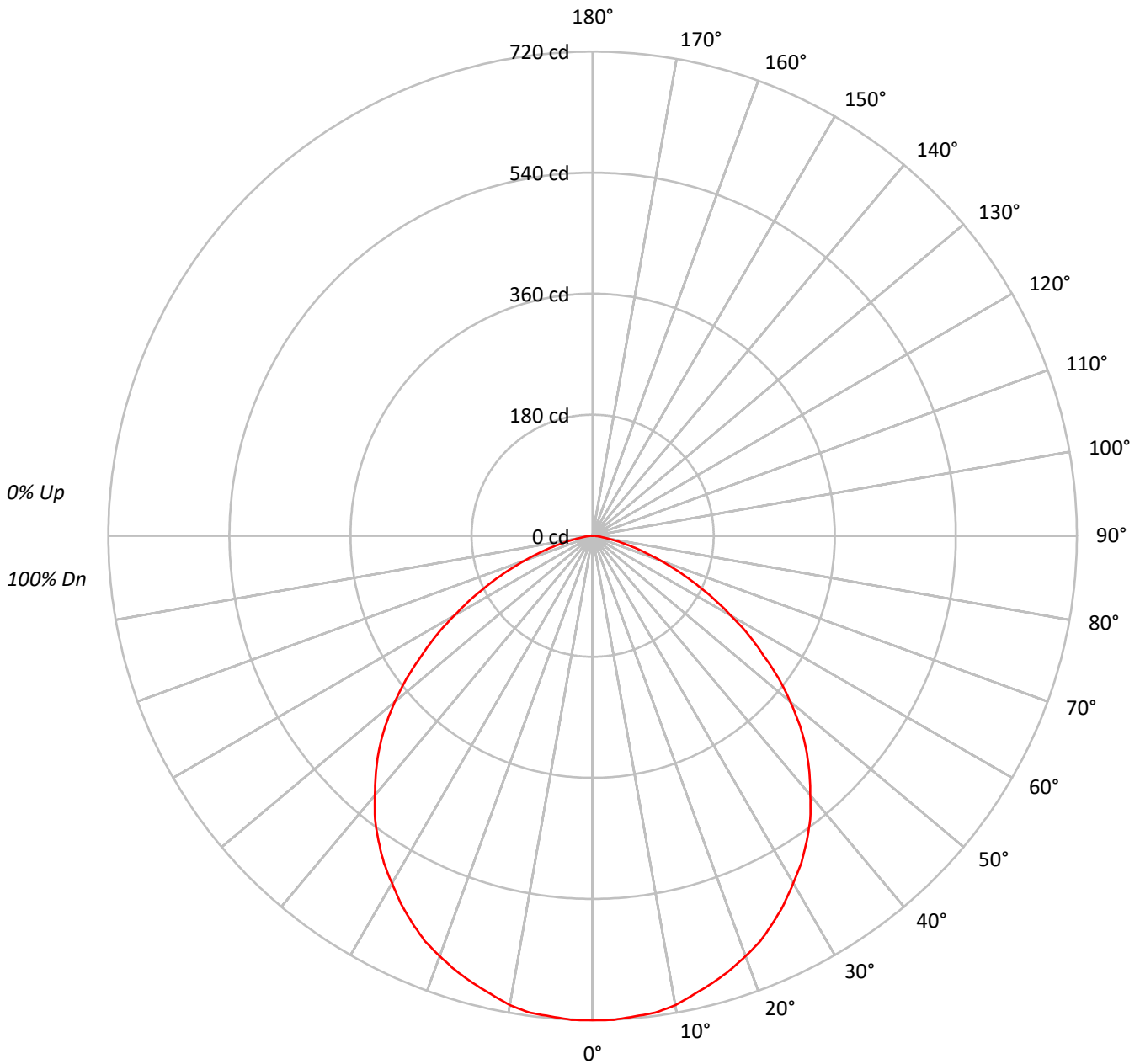
Lumens per Lamp: N/A
Luminaire Lumens: 1764.1 lumens
Efficiency: N/A
Efficacy: 59.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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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°	88516
5°	88472
10°	88422
15°	87568
20°	86941
25°	86077
30°	84619
35°	83207
40°	80748
45°	78027
50°	73354
55°	66398
60°	58306
65°	49099
70°	38363
75°	26866
80°	15140
85°	10431



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.3	3.9
10°-20°	194.4	11.0
20°-30°	292.4	16.6
30°-40°	346.5	19.6
40°-50°	344.9	19.5
50°-60°	278.0	15.8
60°-70°	168.1	9.5
70°-80°	62.4	3.5
80°-90°	9.3	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°	555.0	31.5
0°-40°	901.5	51.1
0°-60°	1524.3	86.4
0°-90°	1764.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1764.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	720	
5°	717	68
15°	688	194
25°	635	292
35°	555	346
45°	449	345
55°	310	278
65°	169	168
75°	57	62
85°	7	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	720.5
2.5°	720.5
5°	717.4
7.5°	715.2
10°	708.8
12.5°	698.1
15°	688.5
17.5°	677.8
20°	665.0
22.5°	652.1
25°	635.0
27.5°	616.8
30°	596.5
32.5°	577.3
35°	554.8
37.5°	531.4
40°	503.5
42.5°	476.9
45°	449.1
47.5°	418.0
50°	383.8
52.5°	348.5
55°	310.0
57.5°	275.8
60°	237.3
62.5°	203.2
65°	168.9
67.5°	136.8
70°	106.8
72.5°	80.2
75°	56.6
77.5°	36.4
80°	21.4
82.5°	12.8
85°	7.4
87.5°	3.2
90°	0.0



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— 0°-180°







(END OF REPORT)