

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: P843549

Luminaire Tested: **LD4C25DE010B2750 EU4C25B50 4LBCSMMS**

Issue Date: 5/7/2024



Test Information

Test Method: LM-79-08
Report Number: P843549
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 EU4C25B50 4LBCSMMS
Description: 4in Downlight with BioUp LEDs
Light Source: -
Ballast/Driver:

Summary

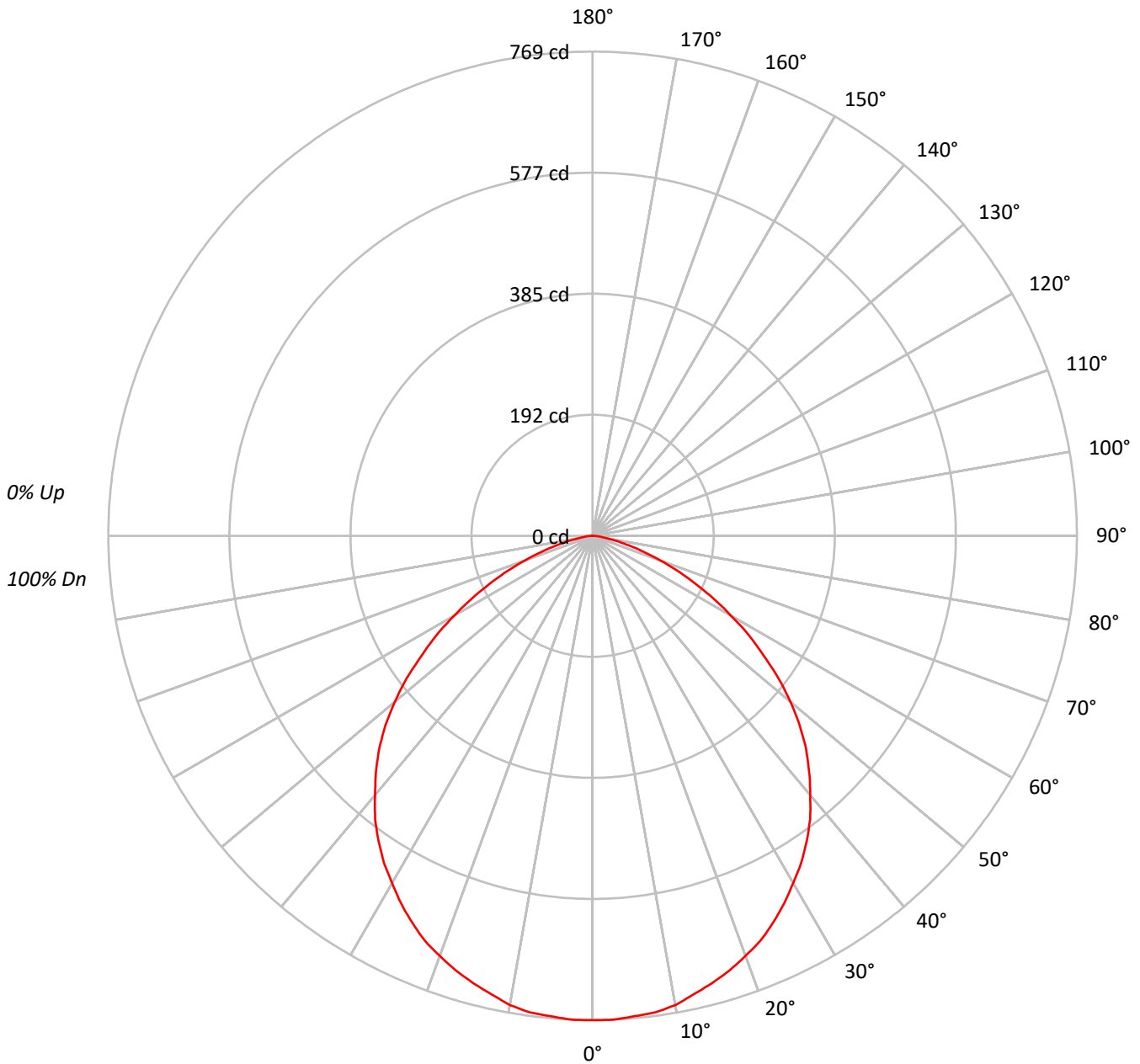
Lumens per Lamp: N/A
Luminaire Lumens: 1883.6 lumens
Efficiency: N/A
Efficacy: 63.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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				
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°	94511
5°	94453
10°	94410
15°	93508
20°	92837
25°	91905
30°	90350
35°	88861
40°	86217
45°	83291
50°	78323
55°	70875
60°	62262
65°	52413
70°	40985
75°	28717
80°	16131
85°	11136



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.9	3.9
10°-20°	207.5	11.0
20°-30°	312.2	16.6
30°-40°	370.0	19.6
40°-50°	368.1	19.5
50°-60°	296.8	15.8
60°-70°	179.5	9.5
70°-80°	66.6	3.5
80°-90°	9.9	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°	592.6	31.5
0°-40°	962.6	51.1
0°-60°	1627.5	86.4
0°-90°	1883.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1883.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	769	
5°	766	73
15°	735	208
25°	678	312
35°	592	370
45°	479	368
55°	331	297
65°	180	180
75°	60	67
85°	8	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	769.3
2.5°	769.3
5°	765.9
7.5°	763.6
10°	756.8
12.5°	745.4
15°	735.2
17.5°	723.7
20°	710.1
22.5°	696.3
25°	678.0
27.5°	658.6
30°	636.9
32.5°	616.4
35°	592.5
37.5°	567.3
40°	537.6
42.5°	509.1
45°	479.4
47.5°	446.2
50°	409.8
52.5°	372.1
55°	330.9
57.5°	294.6
60°	253.4
62.5°	216.9
65°	180.3
67.5°	146.1
70°	114.1
72.5°	85.6
75°	60.5
77.5°	38.8
80°	22.8
82.5°	13.7
85°	7.9
87.5°	3.4
90°	0.0



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— 0°-180°







(END OF REPORT)