

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: P843255

Luminaire Tested: **LD4C08DE010B2750 EU4C08B40 4LBCSMMS**

Issue Date: 5/7/2024



Test Information

Test Method: LM-79-08
Report Number: P843255
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: LD4C08DE010B2750 EU4C08B40 4LBCSMMS
Description: 4in Downlight with BioUp LEDs
Light Source: -
Ballast/Driver:

Summary

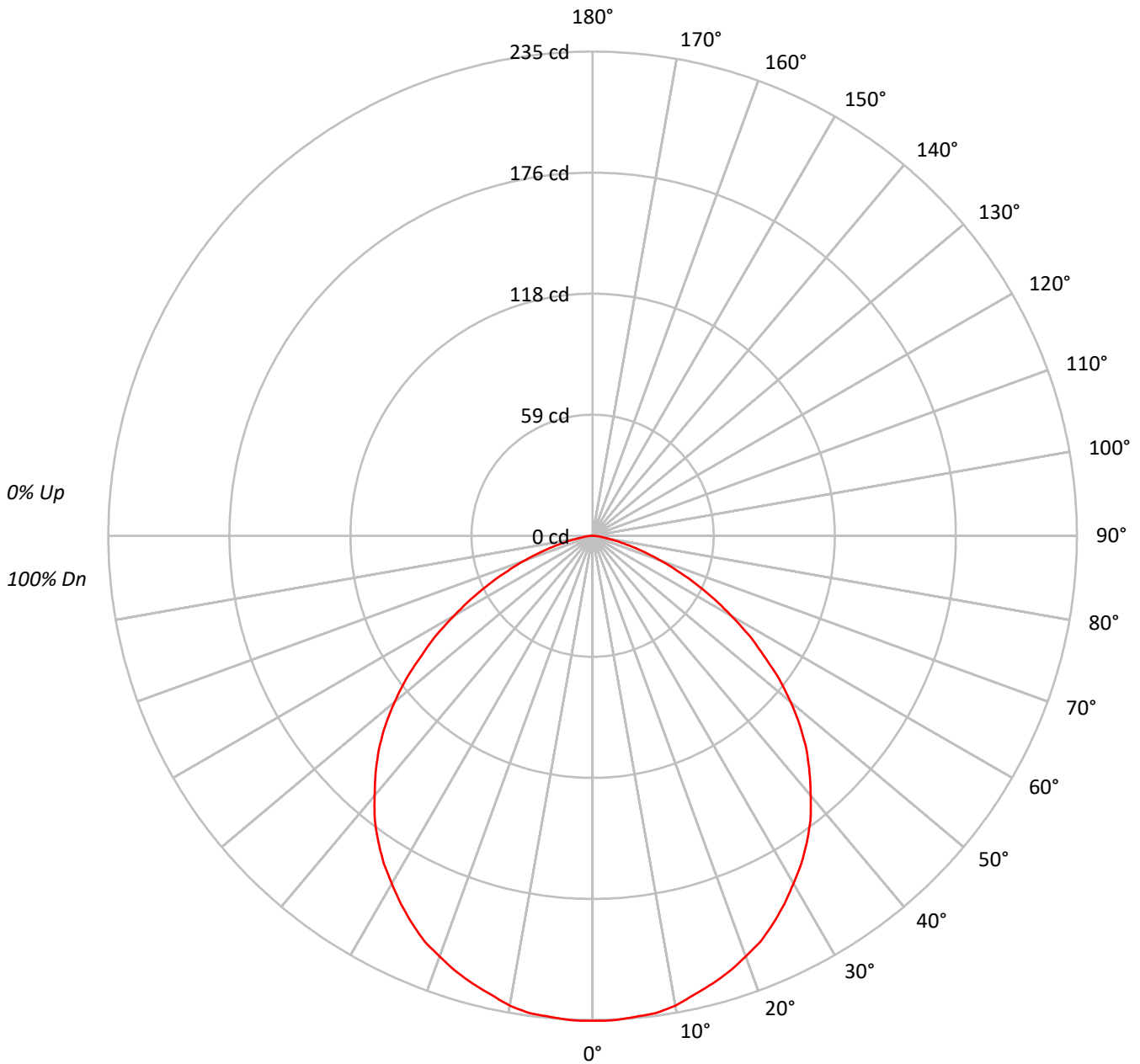
Lumens per Lamp: N/A
Luminaire Lumens: 576.4 lumens
Efficiency: N/A
Efficacy: 60.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.6
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: P843255

CATALOG NUMBER: LD4C08DE010B2750 EU4C08B40 4LBCSMMS

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°	28920
5°	28907
10°	28892
15°	28617
20°	28396
25°	28127
30°	27648
35°	27191
40°	26398
45°	25488
50°	23967
55°	21697
60°	19042
65°	16046
70°	12536
75°	8781
80°	4952
85°	3383



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.3	3.9
10°-20°	63.5	11.0
20°-30°	95.5	16.6
30°-40°	113.2	19.6
40°-50°	112.7	19.5
50°-60°	90.8	15.8
60°-70°	54.9	9.5
70°-80°	20.4	3.5
80°-90°	3.0	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°	181.3	31.5
0°-40°	294.6	51.1
0°-60°	498.1	86.4
0°-90°	576.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	576.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	235	
5°	234	22
15°	225	64
25°	208	96
35°	181	113
45°	147	113
55°	101	91
65°	55	55
75°	18	20
85°	2	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	235.4
2.5°	235.4
5°	234.4
7.5°	233.7
10°	231.6
12.5°	228.1
15°	225.0
17.5°	221.5
20°	217.2
22.5°	213.1
25°	207.5
27.5°	201.5
30°	194.9
32.5°	188.6
35°	181.3
37.5°	173.7
40°	164.6
42.5°	155.8
45°	146.7
47.5°	136.5
50°	125.4
52.5°	113.9
55°	101.3
57.5°	90.1
60°	77.5
62.5°	66.4
65°	55.2
67.5°	44.7
70°	34.9
72.5°	26.2
75°	18.5
77.5°	11.8
80°	7.0
82.5°	4.2
85°	2.4
87.5°	1.1
90°	0.0



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— 0°-180°







(END OF REPORT)