

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: P843212

Luminaire Tested: **LD4C08DE010B2750 EU4C08B27 4LBCSMB**

Issue Date: 5/7/2024



Test Information

Test Method: LM-79-08
Report Number: P843212
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 EU4C08B27 4LBCSMB
Description: 4in Downlight with BioUp LEDs
Light Source: -
Ballast/Driver:

Summary

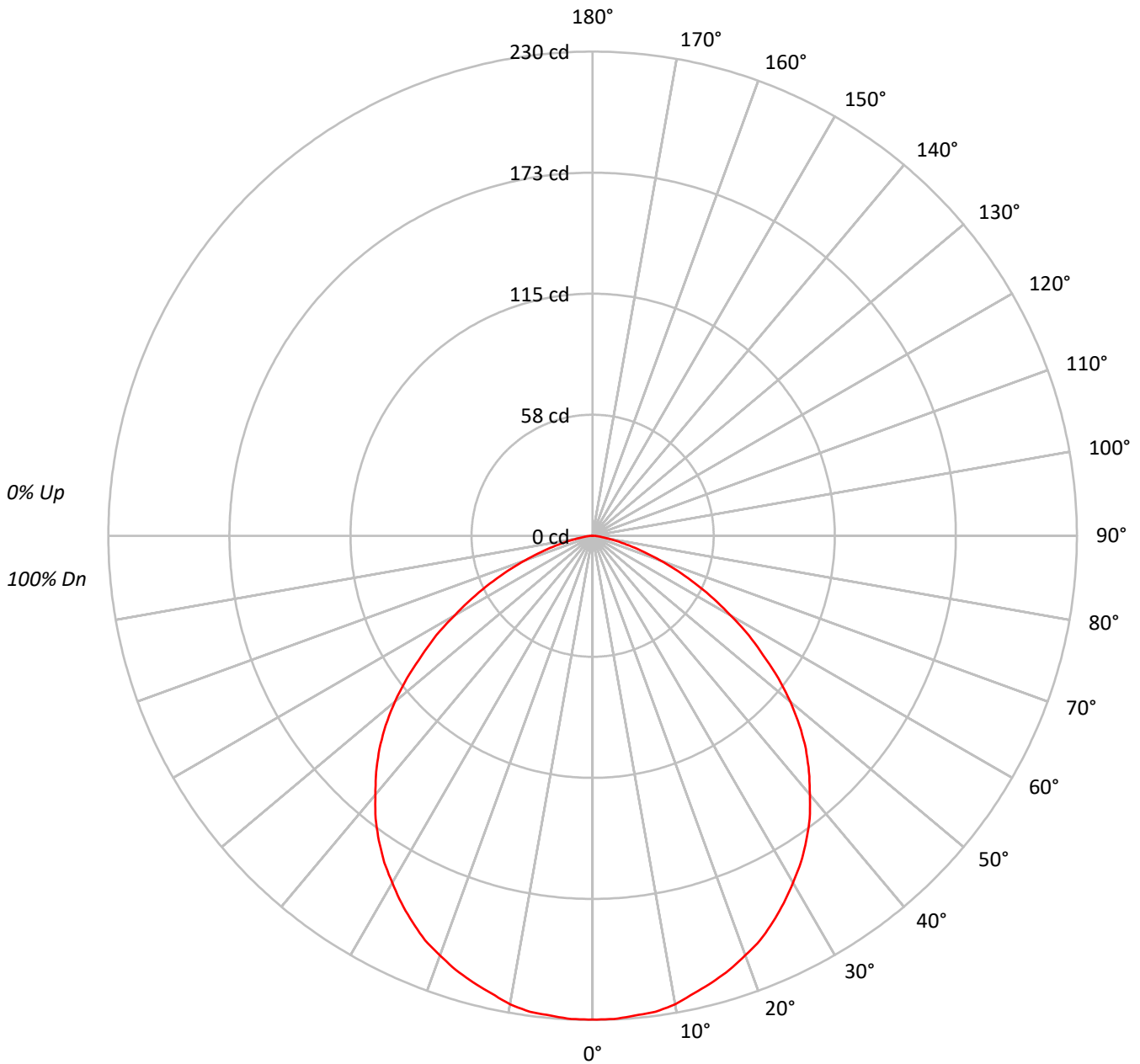
Lumens per Lamp: N/A
Luminaire Lumens: 562.7 lumens
Efficiency: N/A
Efficacy: 58.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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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°	28232
5°	28216
10°	28193
15°	27930
20°	27730
25°	27450
30°	26996
35°	26531
40°	25740
45°	24880
50°	23413
55°	21183
60°	18600
65°	15639
70°	12249
75°	8592
80°	4882
85°	3242



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.8	3.9
10°-20°	62.0	11.0
20°-30°	93.2	16.6
30°-40°	110.5	19.6
40°-50°	110.0	19.5
50°-60°	88.7	15.8
60°-70°	53.6	9.5
70°-80°	19.9	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°	177.0	31.5
0°-40°	287.5	51.1
0°-60°	486.2	86.4
0°-90°	562.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	562.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	230	
5°	229	22
15°	220	62
25°	202	93
35°	177	110
45°	143	110
55°	99	89
65°	54	54
75°	18	20
85°	2	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	229.8
2.5°	229.8
5°	228.8
7.5°	228.1
10°	226.0
12.5°	222.6
15°	219.6
17.5°	216.2
20°	212.1
22.5°	208.0
25°	202.5
27.5°	196.7
30°	190.3
32.5°	184.1
35°	176.9
37.5°	169.4
40°	160.5
42.5°	152.1
45°	143.2
47.5°	133.3
50°	122.5
52.5°	111.2
55°	98.9
57.5°	88.0
60°	75.7
62.5°	64.8
65°	53.8
67.5°	43.7
70°	34.1
72.5°	25.6
75°	18.1
77.5°	11.6
80°	6.9
82.5°	4.1
85°	2.3
87.5°	1.0
90°	0.0



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— 0°-180°







(END OF REPORT)