

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: P843214

Luminaire Tested: **LD4C08DE010B2750 EU4C08B27 4LBCSMW**

Issue Date: 5/7/2024



Test Information

Test Method: LM-79-08
Report Number: P843214
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 4LBSCMW
Description: 4in Downlight with BioUp LEDs
Light Source: -
Ballast/Driver:

Summary

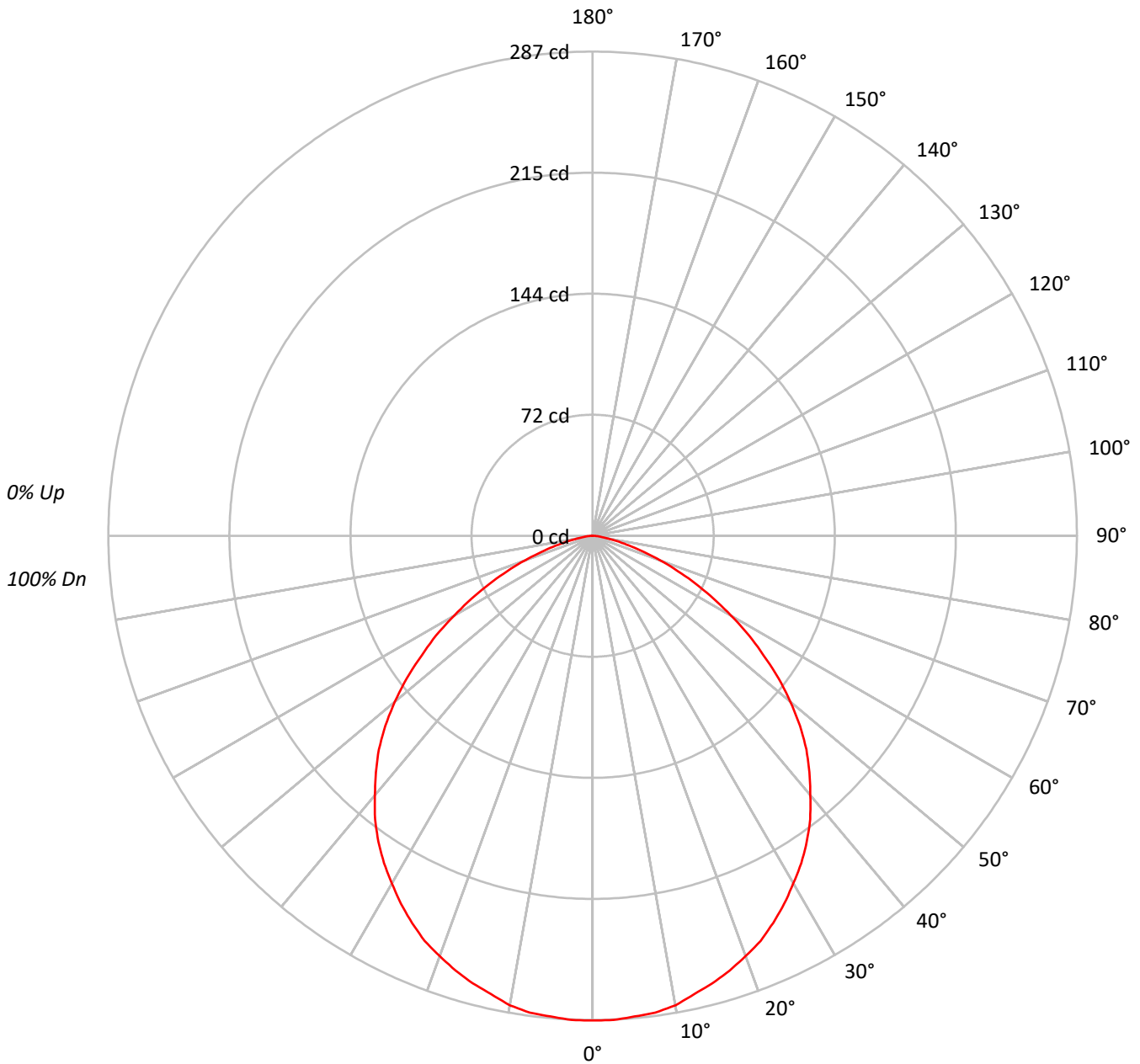
Lumens per Lamp: N/A
Luminaire Lumens: 703.4 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	35296
5°	35270
10°	35254
15°	34926
20°	34659
25°	34322
30°	33748
35°	33190
40°	32187
45°	31117
50°	29242
55°	26452
60°	23268
65°	19593
70°	15302
75°	10680
80°	6084
85°	4229



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.2	3.9
10°-20°	77.5	11.0
20°-30°	116.6	16.6
30°-40°	138.1	19.6
40°-50°	137.5	19.5
50°-60°	110.8	15.8
60°-70°	67.1	9.5
70°-80°	24.9	3.5
80°-90°	3.7	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°	221.3	31.5
0°-40°	359.4	51.1
0°-60°	607.7	86.4
0°-90°	703.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	703.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	287	
5°	286	27
15°	275	77
25°	253	117
35°	221	138
45°	179	137
55°	124	111
65°	67	67
75°	22	25
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	287.3
2.5°	287.3
5°	286.0
7.5°	285.1
10°	282.6
12.5°	278.3
15°	274.6
17.5°	270.2
20°	265.1
22.5°	260.0
25°	253.2
27.5°	245.9
30°	237.9
32.5°	230.1
35°	221.3
37.5°	211.8
40°	200.7
42.5°	190.2
45°	179.1
47.5°	166.6
50°	153.0
52.5°	139.0
55°	123.5
57.5°	110.0
60°	94.7
62.5°	81.0
65°	67.4
67.5°	54.6
70°	42.6
72.5°	31.9
75°	22.5
77.5°	14.5
80°	8.6
82.5°	5.1
85°	3.0
87.5°	1.3
90°	0.0



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— 0°-180°







(END OF REPORT)