

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: P843310

Luminaire Tested: **LD4C10DE010B2750 EU4C10B35 4LBCSMB**

Issue Date: 5/7/2024



Test Information

Test Method: LM-79-08
Report Number: P843310
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: LD4C10DE010B2750 EU4C10B35 4LBCSMB
Description: 4in Downlight with BioUp LEDs
Light Source: -
Ballast/Driver:

Summary

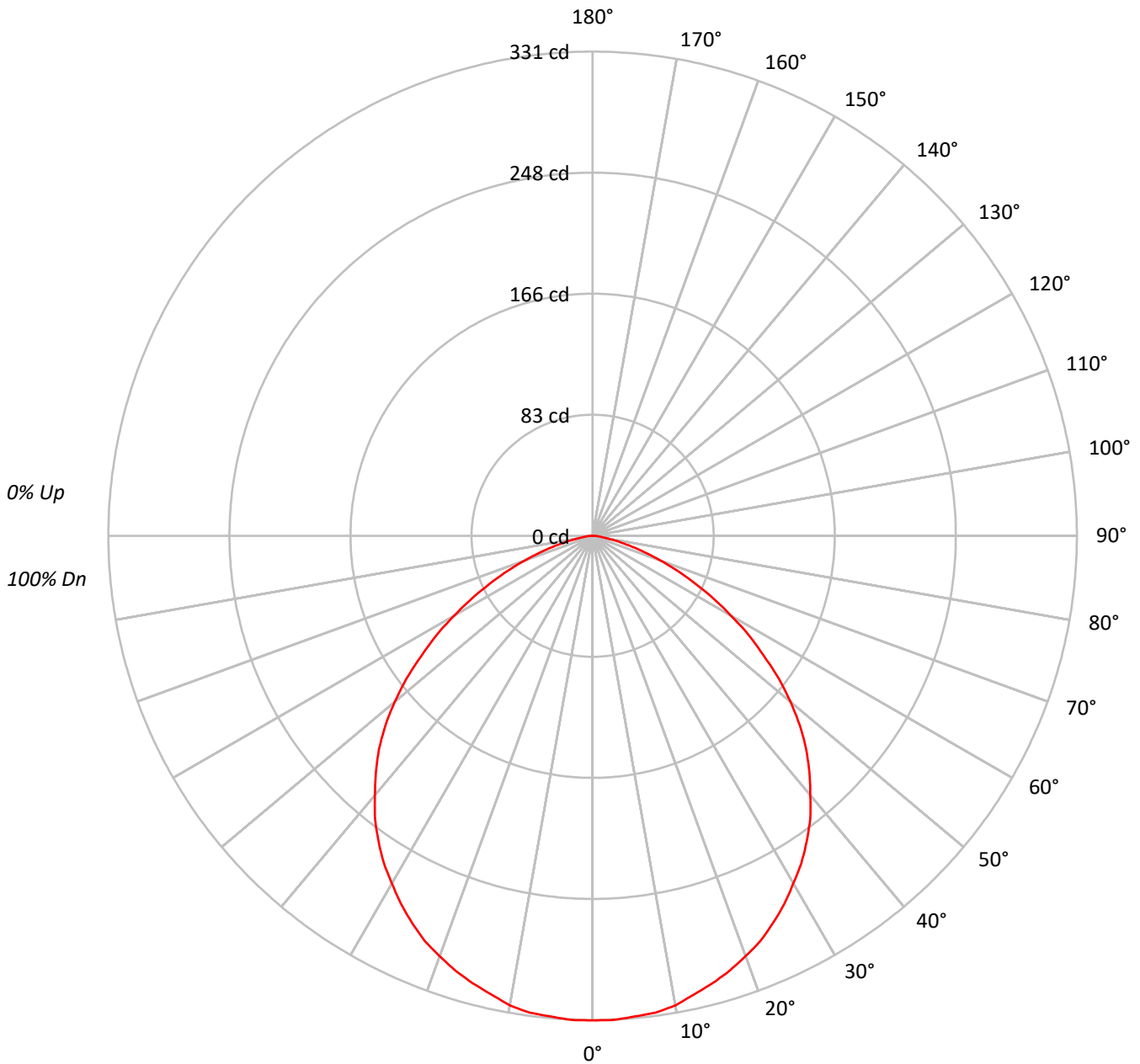
Lumens per Lamp: N/A
Luminaire Lumens: 811.2 lumens
Efficiency: N/A
Efficacy: 61.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 13.3
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	34				34
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°	40701
5°	40684
10°	40668
15°	40280
20°	39980
25°	39582
30°	38926
35°	38259
40°	37127
45°	35878
50°	33734
55°	30543
60°	26807
65°	22558
70°	17637
75°	12341
80°	6933
85°	4793



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.4	3.9
10°-20°	89.4	11.0
20°-30°	134.4	16.6
30°-40°	159.3	19.6
40°-50°	158.6	19.5
50°-60°	127.8	15.8
60°-70°	77.3	9.5
70°-80°	28.7	3.5
80°-90°	4.3	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°	255.2	31.5
0°-40°	414.6	51.1
0°-60°	700.9	86.4
0°-90°	811.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	811.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	331	
5°	330	31
15°	317	89
25°	292	134
35°	255	159
45°	206	159
55°	143	128
65°	78	77
75°	26	29
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	331.3
2.5°	331.3
5°	329.9
7.5°	328.9
10°	326.0
12.5°	321.0
15°	316.7
17.5°	311.7
20°	305.8
22.5°	299.8
25°	292.0
27.5°	283.7
30°	274.4
32.5°	265.5
35°	255.1
37.5°	244.3
40°	231.5
42.5°	219.2
45°	206.5
47.5°	192.2
50°	176.5
52.5°	160.2
55°	142.6
57.5°	126.8
60°	109.1
62.5°	93.4
65°	77.6
67.5°	62.9
70°	49.1
72.5°	36.9
75°	26.0
77.5°	16.7
80°	9.8
82.5°	5.9
85°	3.4
87.5°	1.5
90°	0.0



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— 0°-180°







(END OF REPORT)