

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: P843312

Luminaire Tested: **LD4C10DE010B35 EU4C10B35 4LBCSMW**

Issue Date: 5/7/2024



Test Information

Test Method: LM-79-08
Report Number: P843312
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: LD4C10DE010B35 EU4C10B35 4LBCSMW
Description: 4in Downlight with BioUp LEDs
Light Source: -
Ballast/Driver:

Summary

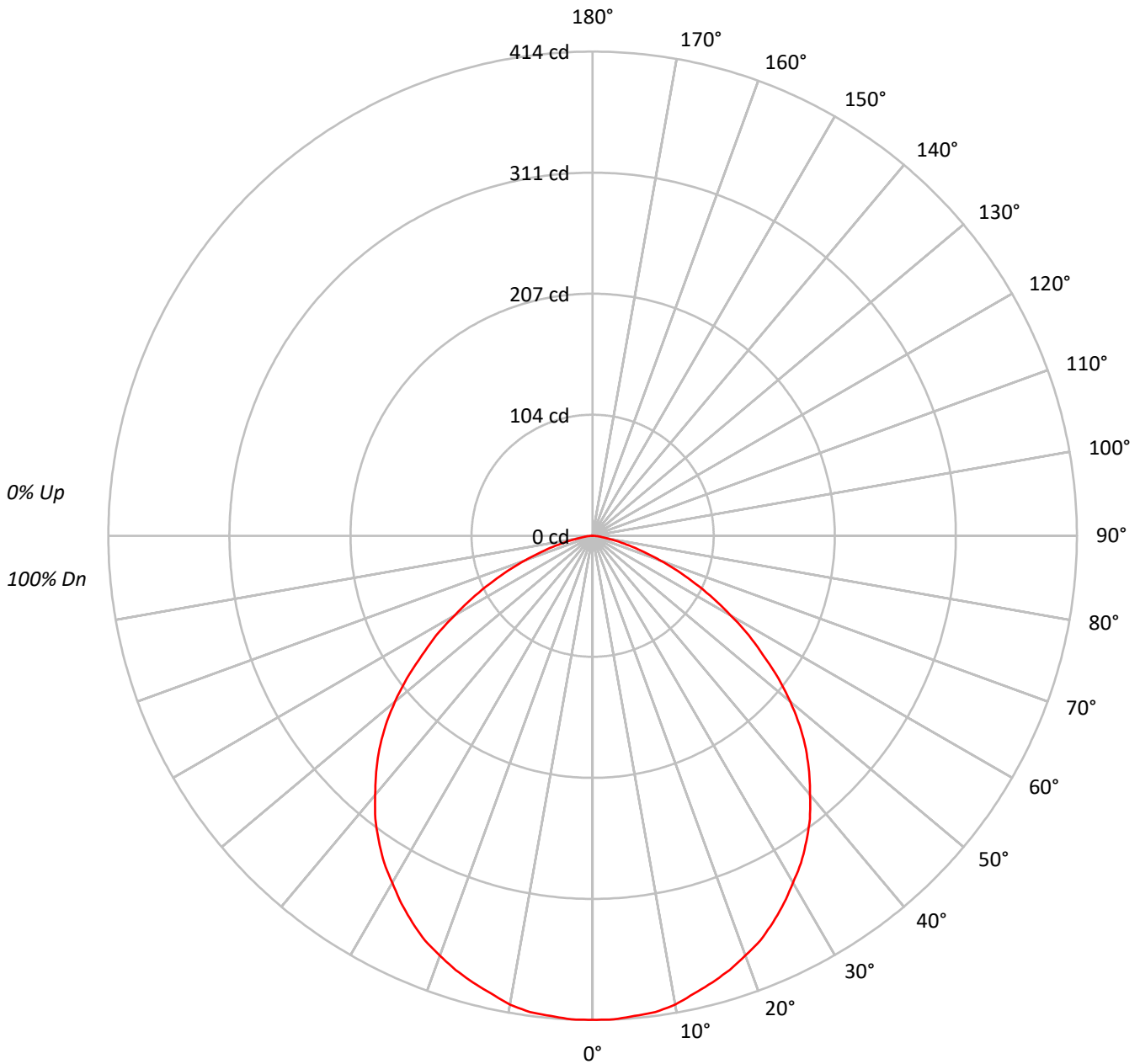
Lumens per Lamp: N/A
Luminaire Lumens: 1013.2 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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				
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°	50849
5°	50821
10°	50785
15°	50290
20°	49929
25°	49450
30°	48601
35°	47797
40°	46380
45°	44808
50°	42143
55°	38126
60°	33490
65°	28198
70°	22019
75°	15427
80°	8702
85°	5920



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.2	3.9
10°-20°	111.6	11.0
20°-30°	167.9	16.6
30°-40°	199.0	19.6
40°-50°	198.1	19.5
50°-60°	159.6	15.8
60°-70°	96.6	9.5
70°-80°	35.8	3.5
80°-90°	5.3	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°	318.8	31.5
0°-40°	517.8	51.1
0°-60°	875.5	86.4
0°-90°	1013.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1013.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	414	
5°	412	39
15°	395	112
25°	365	168
35°	319	199
45°	258	198
55°	178	160
65°	97	97
75°	32	36
85°	4	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	413.9
2.5°	413.9
5°	412.1
7.5°	410.8
10°	407.1
12.5°	400.9
15°	395.4
17.5°	389.3
20°	381.9
22.5°	374.6
25°	364.8
27.5°	354.2
30°	342.6
32.5°	331.6
35°	318.7
37.5°	305.1
40°	289.2
42.5°	273.9
45°	257.9
47.5°	240.1
50°	220.5
52.5°	200.1
55°	178.0
57.5°	158.4
60°	136.3
62.5°	116.7
65°	97.0
67.5°	78.6
70°	61.3
72.5°	46.0
75°	32.5
77.5°	20.9
80°	12.3
82.5°	7.4
85°	4.2
87.5°	1.8
90°	0.0



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— 0°-180°







(END OF REPORT)