

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: P843311

Luminaire Tested: **LD4C10DE010B35 EU4C10B35 4LBCSMMS**

Issue Date: 5/7/2024



Test Information

Test Method: LM-79-08
Report Number: P843311
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 4LBCSMMS
Description: 4in Downlight with BioUp LEDs
Light Source: -
Ballast/Driver:

Summary

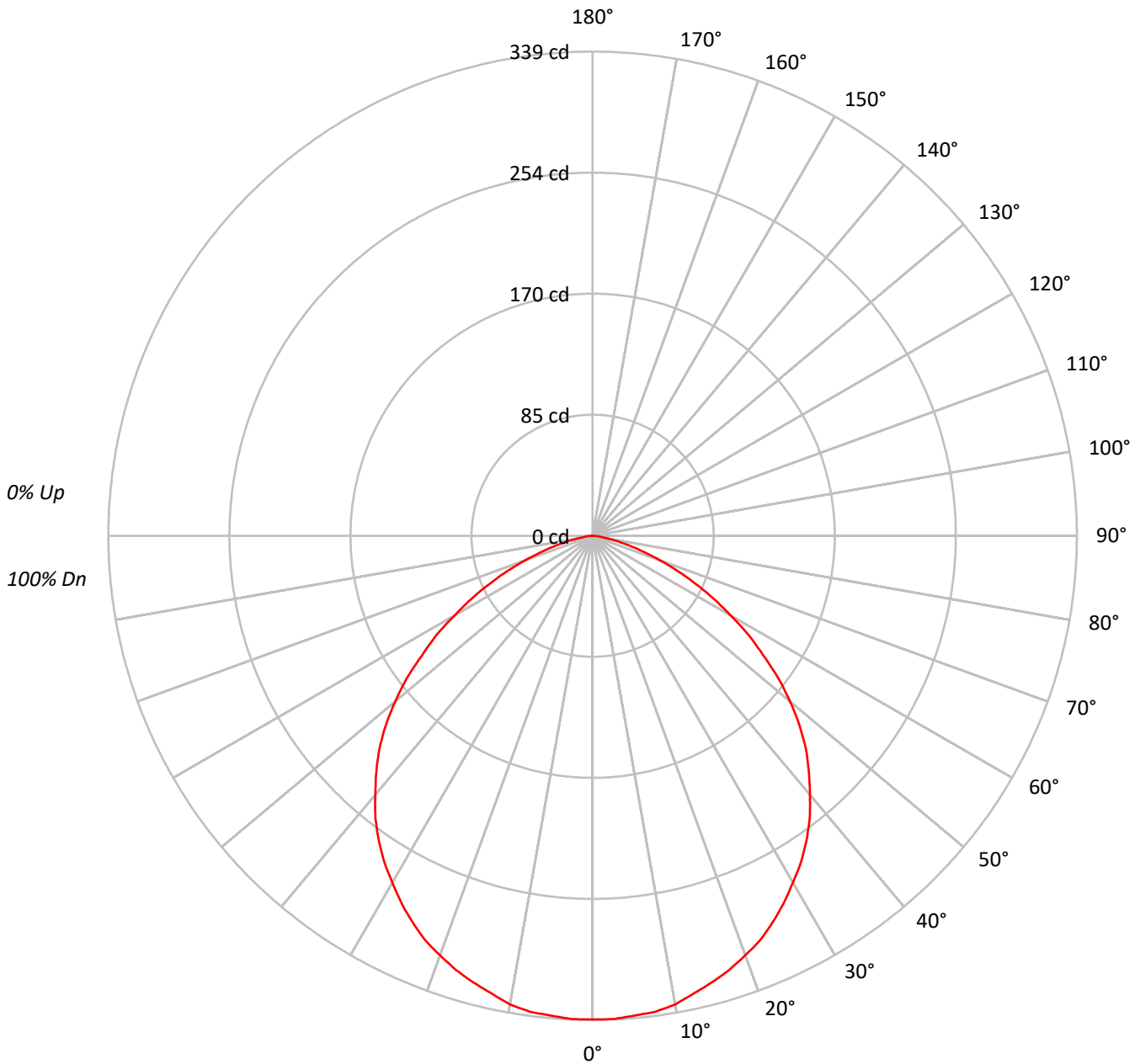
Lumens per Lamp: N/A
Luminaire Lumens: 829.2 lumens
Efficiency: N/A
Efficacy: 62.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	41610
5°	41584
10°	41566
15°	41158
20°	40856
25°	40463
30°	39777
35°	39114
40°	37960
45°	36677
50°	34479
55°	31186
60°	27421
65°	23081
70°	18032
75°	12674
80°	7075
85°	4934



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.1	3.9
10°-20°	91.4	11.0
20°-30°	137.4	16.6
30°-40°	162.9	19.6
40°-50°	162.1	19.5
50°-60°	130.6	15.8
60°-70°	79.0	9.5
70°-80°	29.4	3.5
80°-90°	4.4	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°	260.9	31.5
0°-40°	423.7	51.1
0°-60°	716.4	86.4
0°-90°	829.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	829.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	339	
5°	337	32
15°	324	91
25°	298	137
35°	261	163
45°	211	162
55°	146	131
65°	79	79
75°	27	29
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	338.7
2.5°	338.7
5°	337.2
7.5°	336.1
10°	333.2
12.5°	328.1
15°	323.6
17.5°	318.6
20°	312.5
22.5°	306.5
25°	298.5
27.5°	289.9
30°	280.4
32.5°	271.3
35°	260.8
37.5°	249.7
40°	236.7
42.5°	224.1
45°	211.1
47.5°	196.4
50°	180.4
52.5°	163.8
55°	145.6
57.5°	129.7
60°	111.6
62.5°	95.5
65°	79.4
67.5°	64.3
70°	50.2
72.5°	37.7
75°	26.7
77.5°	17.1
80°	10.0
82.5°	6.0
85°	3.5
87.5°	1.5
90°	0.0



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— 0°-180°







(END OF REPORT)