

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: P858279

Luminaire Tested: **LD4C10W2N2050D010 4LBMLI_3000K**

Issue Date: 11/9/2023



Test Information

Test Method: LM-79-08
Report Number: P858279
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208178)
Test Lab: INNOVATION CENTER-P3
Issue Date: 11/9/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C10W2N2050D010 4LBMLI_3000K
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, W2N2050 LEDS AND 4LBMLI TRIM WITH FINISH

Light Source: -
Ballast/Driver: -

Summary

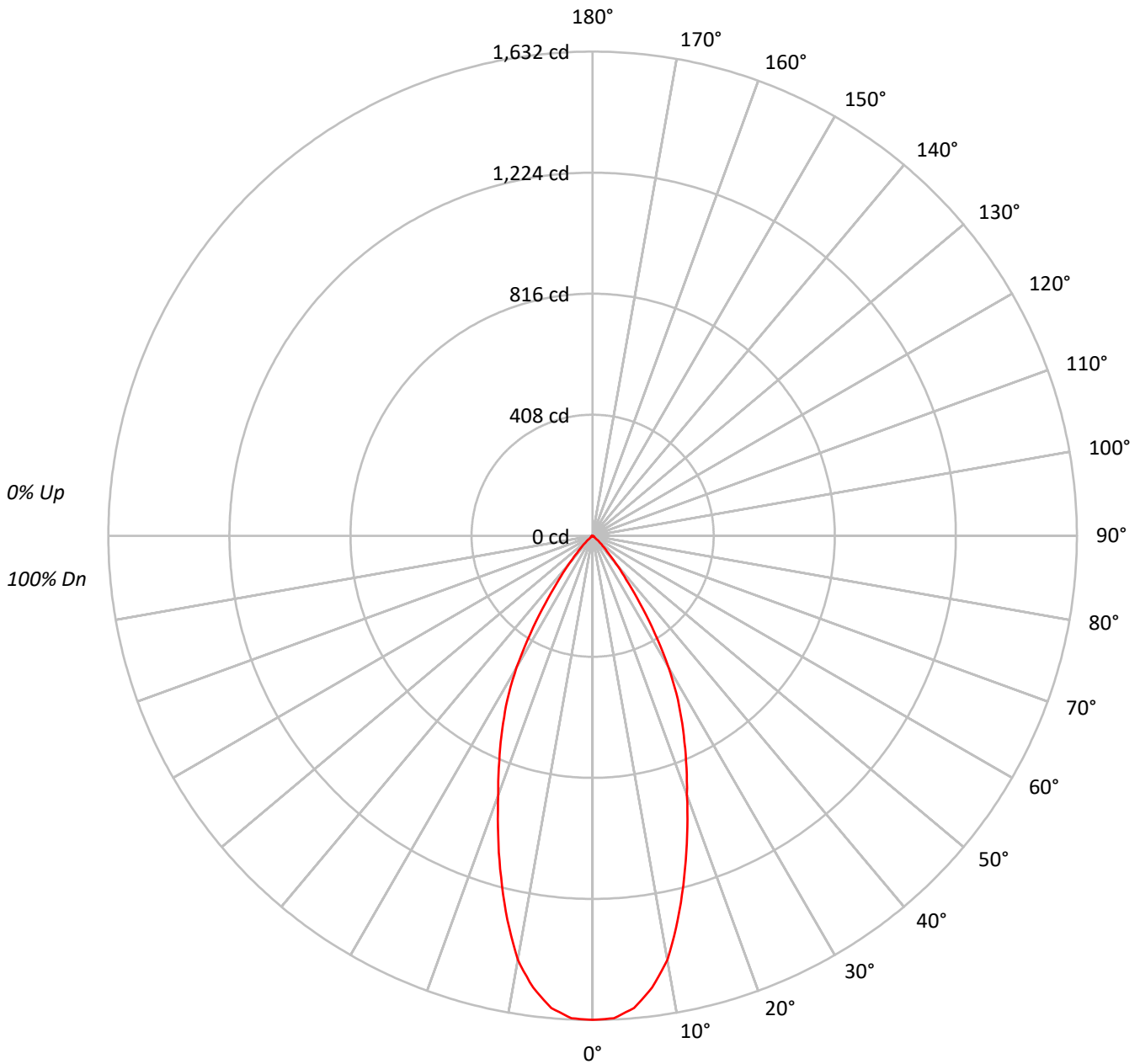
Lumens per Lamp: N/A
Luminaire Lumens: 1035.1 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Spacing Criteria (0/90/45): 0.7 / 0.7 / 0.76
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 13
Input Voltage (V): NR
Input Current (A_{in}): 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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94				94
2	109	104	100	97	107	102	99	96	99	96	94	96	94	92	94	92	90	88				88
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	85	83				83
4	99	92	87	83	97	91	86	82	89	85	81	87	83	80	85	82	79	78				78
5	94	87	81	77	93	86	81	77	84	79	76	82	78	75	81	77	75	73				73
6	90	82	76	72	89	81	76	72	80	75	71	78	74	71	77	73	70	69				69
7	86	77	72	68	85	77	71	68	75	71	67	74	70	67	73	69	67	65				65
8	82	73	68	64	81	73	67	64	72	67	64	71	66	63	70	66	63	62				62
9	79	70	64	60	78	69	64	60	68	63	60	67	63	60	67	63	60	58				58
10	75	66	61	57	74	66	61	57	65	60	57	64	60	57	64	60	57	56				56

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	200448
5°	197045
10°	181048
15°	151620
20°	121469
25°	97599
30°	72660
35°	41513
40°	19485
45°	8270
50°	2638
55°	1349
60°	934
65°	727
70°	467
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.7	14.3
10°-20°	330.3	31.9
20°-30°	328.4	31.7
30°-40°	178.8	17.3
40°-50°	41.4	4.0
50°-60°	5.8	0.6
60°-70°	2.2	0.2
70°-80°	0.5	0.0
80°-90°	0.0	0.0
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°	806.4	77.9
0°-40°	985.2	95.2
0°-60°	1032.4	99.7
0°-90°	1035.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1035.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1632	
5°	1598	148
15°	1192	330
25°	720	328
35°	277	179
45°	48	41
55°	6	6
65°	2	2
75°	0	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1631.6
2.5°	1627.9
5°	1597.8
7.5°	1536.5
10°	1451.3
12.5°	1326.1
15°	1192.1
17.5°	1059.4
20°	929.1
22.5°	822.7
25°	720.0
27.5°	622.4
30°	512.2
32.5°	389.5
35°	276.8
37.5°	186.6
40°	121.5
42.5°	76.4
45°	47.6
47.5°	27.6
50°	13.8
52.5°	7.5
55°	6.3
57.5°	3.8
60°	3.8
62.5°	2.5
65°	2.5
67.5°	1.3
70°	1.3
72.5°	1.3
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)