

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: P858282

Luminaire Tested: **LD4C10W2N2050D010 4LBMLI_5000K**

Issue Date: 11/9/2023



Test Information

Test Method: LM-79-08
Report Number: P858282
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_5000K
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, W2N2050 LEDS AND 4LBMLI TRIM WITH FINISH

Light Source: -
Ballast/Driver: -

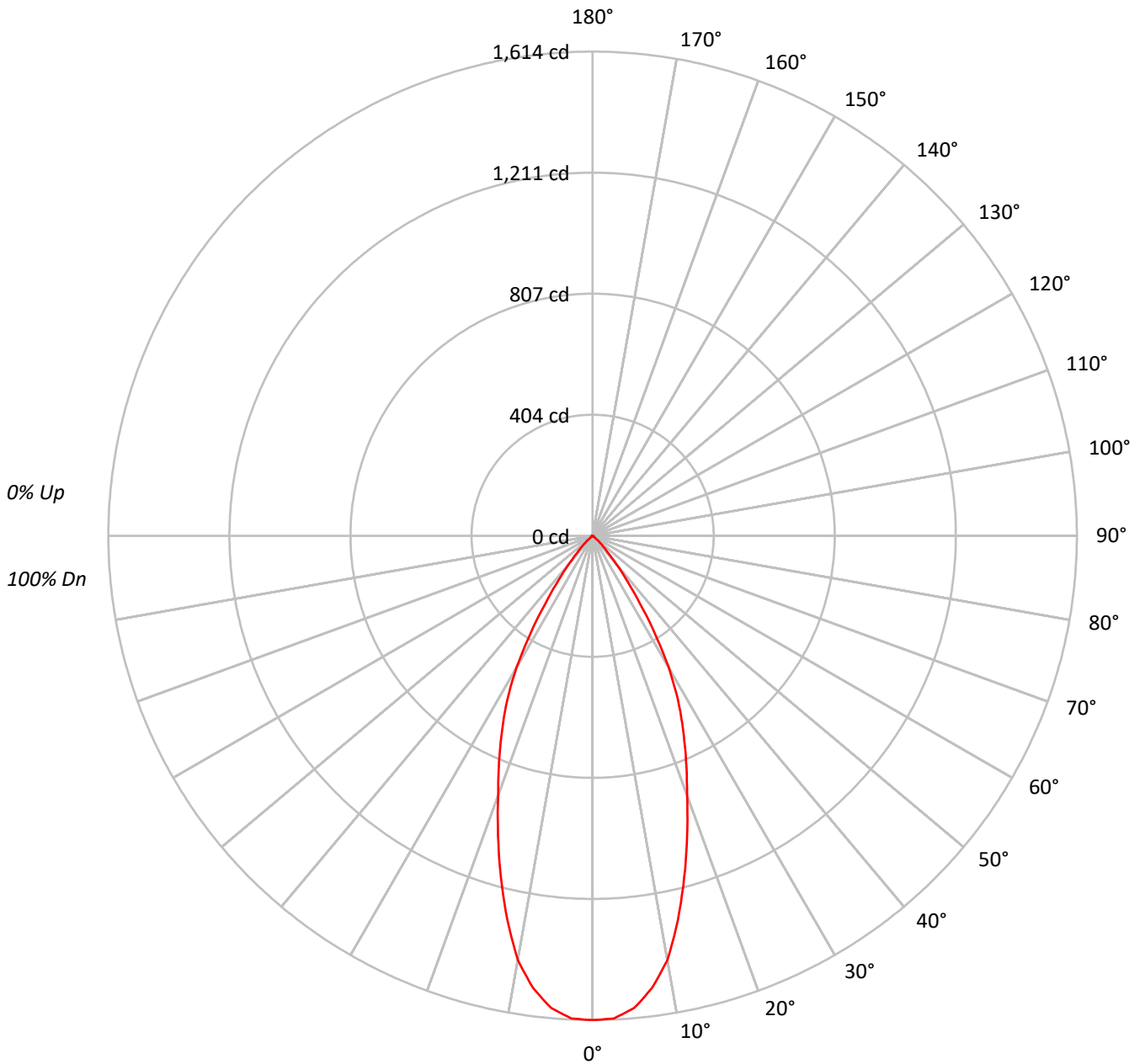
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1024.0 lumens
Efficiency: N/A
Efficacy: 78.8 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

TEST NUMBER: P858282
CATALOG NUMBER: LD4C10W2N2050D010 4LBMLI_5000K

Luminous Intensity Polar Plot





TEST NUMBER: P858282

CATALOG NUMBER: LD4C10W2N2050D010 4LBMLI_5000K

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			
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94			
2	109	104	100	97	107	102	99	96	99	96	94	96	94	92	94	92	90	88			
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	85	83			
4	99	92	87	83	97	91	86	82	89	85	81	87	83	80	85	82	79	78			
5	94	87	81	77	93	86	81	77	84	79	76	82	78	75	81	77	75	73			
6	90	82	76	72	89	81	76	72	80	75	71	78	74	71	77	73	71	69			
7	86	77	72	68	85	77	71	68	75	71	67	74	70	67	73	69	67	65			
8	82	73	68	64	81	73	67	64	72	67	64	71	66	63	70	66	63	62			
9	79	70	64	60	78	69	64	60	68	63	60	67	63	60	67	63	60	58			
10	75	66	61	57	74	66	61	57	65	60	57	64	60	57	64	60	57	56			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	198322
5°	194949
10°	179127
15°	150005
20°	120187
25°	96569
30°	71880
35°	41064
40°	19277
45°	8183
50°	2599
55°	1328
60°	909
65°	727
70°	431
75°	0
80°	0
85°	0



TEST NUMBER: P858282

CATALOG NUMBER: LD4C10W2N2050D010 4LBMLI_5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.2	14.3
10°-20°	326.8	31.9
20°-30°	324.9	31.7
30°-40°	176.9	17.3
40°-50°	40.9	4.0
50°-60°	5.7	0.6
60°-70°	2.1	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°	797.8	77.9
0°-40°	974.7	95.2
0°-60°	1021.4	99.7
0°-90°	1024.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1024.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1614	
5°	1581	146
15°	1179	327
25°	712	325
35°	274	177
45°	47	41
55°	6	6
65°	2	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P858282

CATALOG NUMBER: LD4C10W2N2050D010 4LBMLI_5000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	1614.3
2.5°	1610.6
5°	1580.8
7.5°	1520.1
10°	1435.9
12.5°	1312.0
15°	1179.4
17.5°	1048.1
20°	919.3
22.5°	814.0
25°	712.4
27.5°	615.7
30°	506.7
32.5°	385.3
35°	273.8
37.5°	184.6
40°	120.2
42.5°	75.6
45°	47.1
47.5°	27.3
50°	13.6
52.5°	7.4
55°	6.2
57.5°	3.7
60°	3.7
62.5°	2.5
65°	2.5
67.5°	1.2
70°	1.2
72.5°	1.2
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180°







(END OF REPORT)