

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: P858304

Luminaire Tested: **LD4C10W2N2050D010 4LBWH_3500K**

Issue Date: 11/9/2023



Test Information

Test Method: LM-79-08
Report Number: P858304
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P206636)
Test Lab: INNOVATION CENTER-P3
Issue Date: 11/9/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C10W2N2050D010 4LBWH_3500K
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, W2N2050 LEDS AND 4LBWH TRIM WITH FINISH

Light Source: -
Ballast/Driver: -

Summary

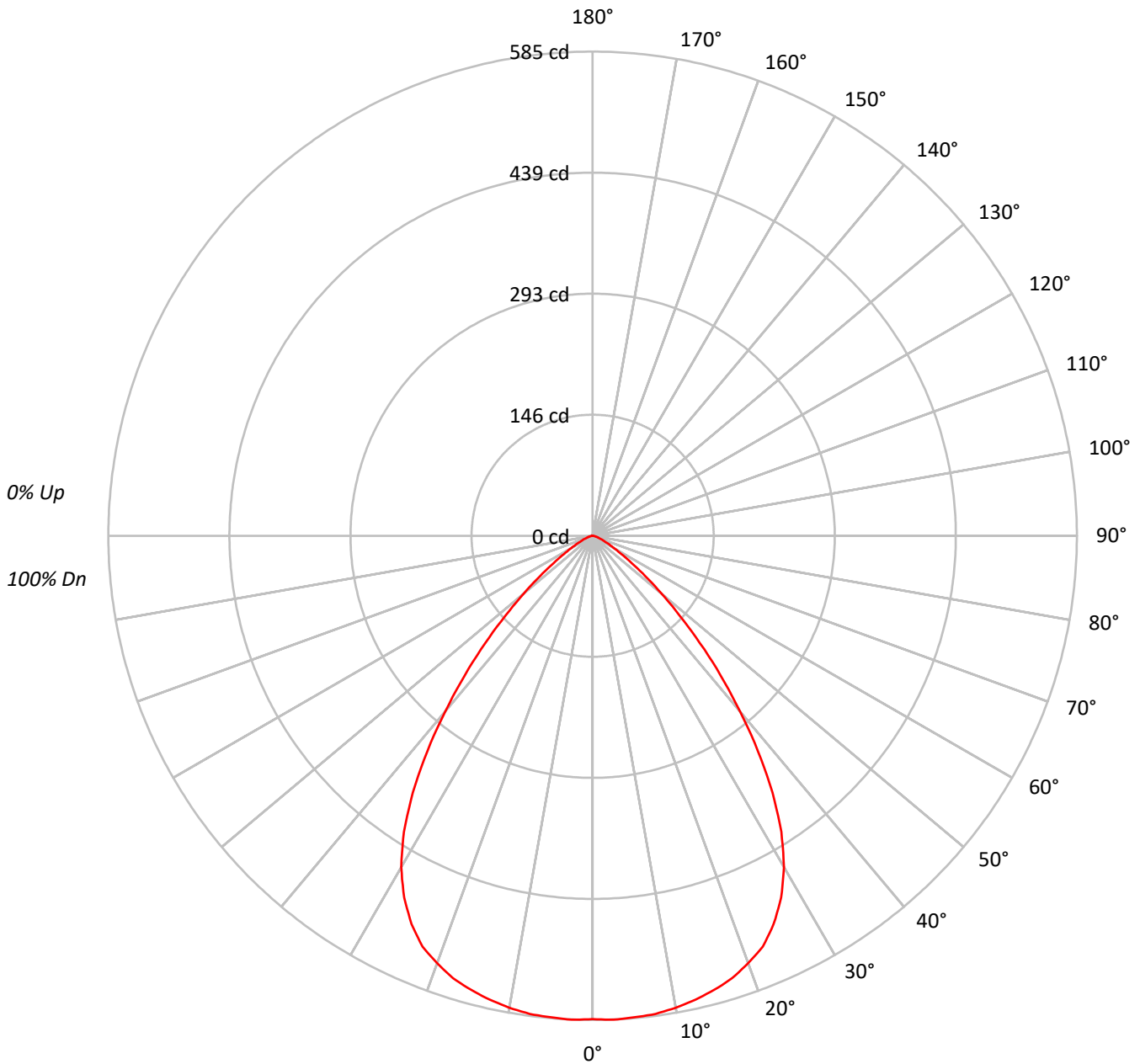
Lumens per Lamp: N/A
Luminaire Lumens: 906.1 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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				
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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91			
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82			
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74			
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61			
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	55			
7	76	65	58	53	75	65	58	53	63	57	53	62	56	52	61	56	52	50			
8	72	60	53	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			
9	67	56	49	45	66	56	49	45	55	49	44	54	48	44	53	48	44	43			
10	64	52	46	41	63	52	46	41	51	45	41	50	45	41	49	44	41	39			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	71746
5°	72020
10°	72229
15°	72242
20°	71840
25°	70163
30°	65581
35°	56781
40°	44359
45°	31829
50°	20680
55°	12380
60°	7248
65°	4651
70°	3089
75°	2326
80°	1769
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.6	6.1
10°-20°	160.2	17.7
20°-30°	236.5	26.1
30°-40°	233.3	25.8
40°-50°	142.8	15.8
50°-60°	54.8	6.0
60°-70°	17.1	1.9
70°-80°	5.0	0.6
80°-90°	0.7	0.1
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°	452.3	49.9
0°-40°	685.7	75.7
0°-60°	883.2	97.5
0°-90°	906.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	906.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	584	
5°	584	56
15°	568	160
25°	518	236
35°	379	233
45°	183	143
55°	58	55
65°	16	17
75°	5	5
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	584.0
2.5°	585.2
5°	584.0
7.5°	582.7
10°	579.0
12.5°	574.1
15°	568.0
17.5°	560.6
20°	549.5
22.5°	537.3
25°	517.6
27.5°	493.0
30°	462.3
32.5°	424.2
35°	378.6
37.5°	328.2
40°	276.6
42.5°	228.7
45°	183.2
47.5°	142.6
50°	108.2
52.5°	79.9
55°	57.8
57.5°	40.6
60°	29.5
62.5°	22.2
65°	16.0
67.5°	12.3
70°	8.6
72.5°	6.2
75°	4.9
77.5°	2.5
80°	2.5
82.5°	1.2
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180°







(END OF REPORT)