

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: P858271

Luminaire Tested: **LD4C10W2N2050D010 4LBMH_2000K**

Issue Date: 11/9/2023



Test Information

Test Method: LM-79-08
Report Number: P858271
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P207151)
Test Lab: INNOVATION CENTER-P3
Issue Date: 11/9/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C10W2N2050D010 4LBMH_2000K
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2000K, W2N2050 LEDS AND 4LBMH TRIM WITH FINISH

Light Source: -
Ballast/Driver: -

Summary

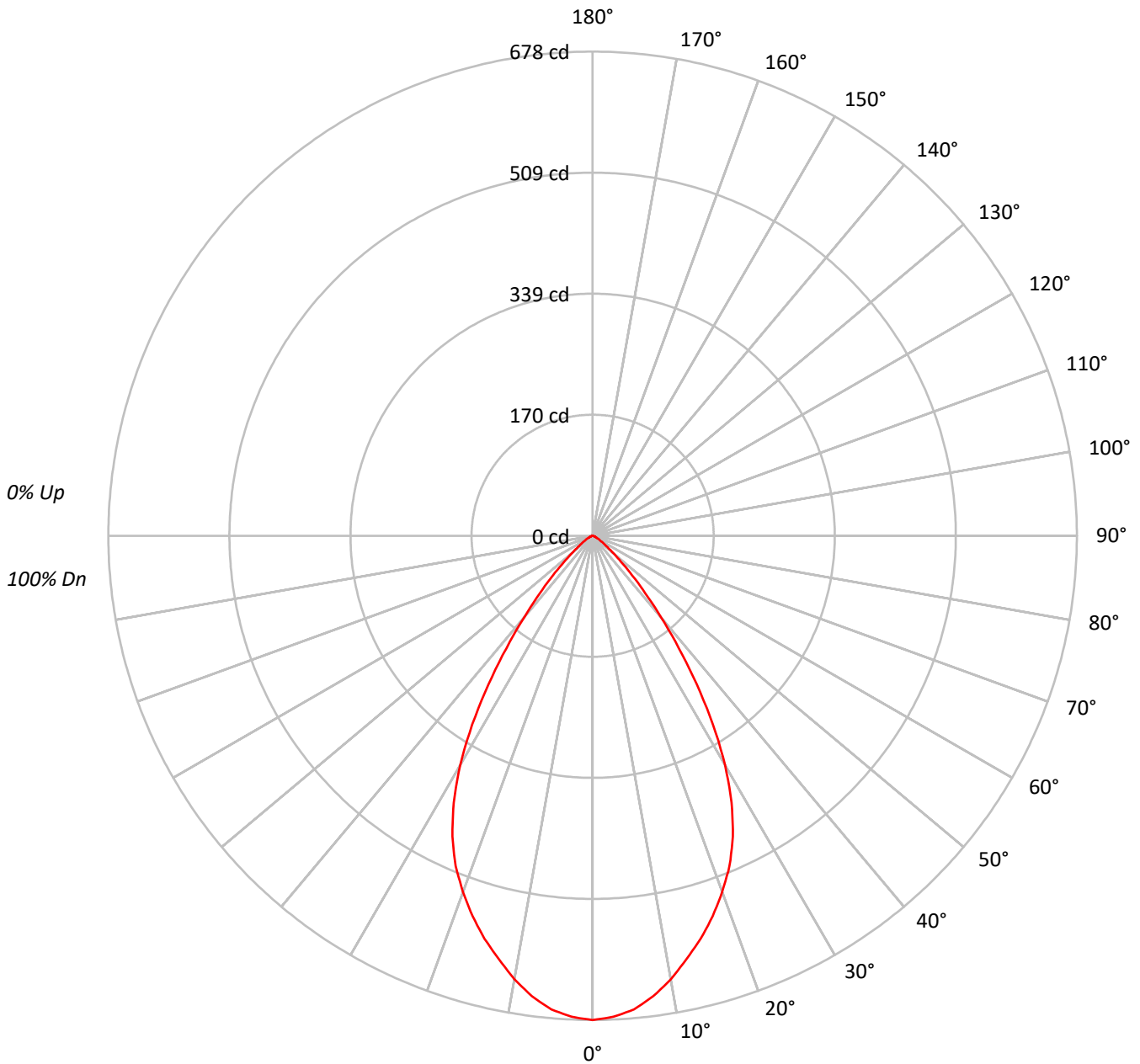
Lumens per Lamp: N/A
Luminaire Lumens: 684.0 lumens
Efficiency: N/A
Efficacy: 52.6 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	100	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93	93	93	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	82	86	83	80	79	79	79	79
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	73	73	73	73
5	90	82	75	71	89	81	75	70	79	74	70	77	73	69	75	72	69	67	67	67	67
6	86	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62	62	62	62
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58	58	58	58
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54	54	54	54
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50	50	50	50
10	69	59	53	49	68	59	53	49	58	52	49	57	52	48	56	52	48	47	47	47	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	83319
5°	82108
10°	78679
15°	74316
20°	69370
25°	62965
30°	52573
35°	38094
40°	23848
45°	13621
50°	7110
55°	3984
60°	2531
65°	1512
70°	1114
75°	475
80°	707
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.4	9.1
10°-20°	163.7	23.9
20°-30°	210.4	30.8
30°-40°	158.3	23.1
40°-50°	63.6	9.3
50°-60°	18.1	2.6
60°-70°	5.7	0.8
70°-80°	1.6	0.2
80°-90°	0.1	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°	436.5	63.8
0°-40°	594.9	87.0
0°-60°	676.5	98.9
0°-90°	684.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	684.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	678	
5°	666	62
15°	584	164
25°	464	210
35°	254	158
45°	78	64
55°	19	18
65°	5	6
75°	1	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	678.2
2.5°	674.1
5°	665.8
7.5°	650.3
10°	630.7
12.5°	607.0
15°	584.3
17.5°	558.5
20°	530.6
22.5°	500.7
25°	464.5
27.5°	421.2
30°	370.6
32.5°	313.8
35°	254.0
37.5°	198.2
40°	148.7
42.5°	109.4
45°	78.4
47.5°	53.7
50°	37.2
52.5°	25.8
55°	18.6
57.5°	13.4
60°	10.3
62.5°	7.2
65°	5.2
67.5°	4.1
70°	3.1
72.5°	2.1
75°	1.0
77.5°	1.0
80°	1.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)