

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: P839188

Luminaire Tested: **LD4C100D010 EU41009050 4LBPSMW**

Issue Date: 6/29/2023



Test Information

Test Method: LM-79-08
Report Number: P839188
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-17)
Test Lab: INNOVATION CENTER
Issue Date: 6/29/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C100D010 EU41009050 4LBPSMW
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBPS TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

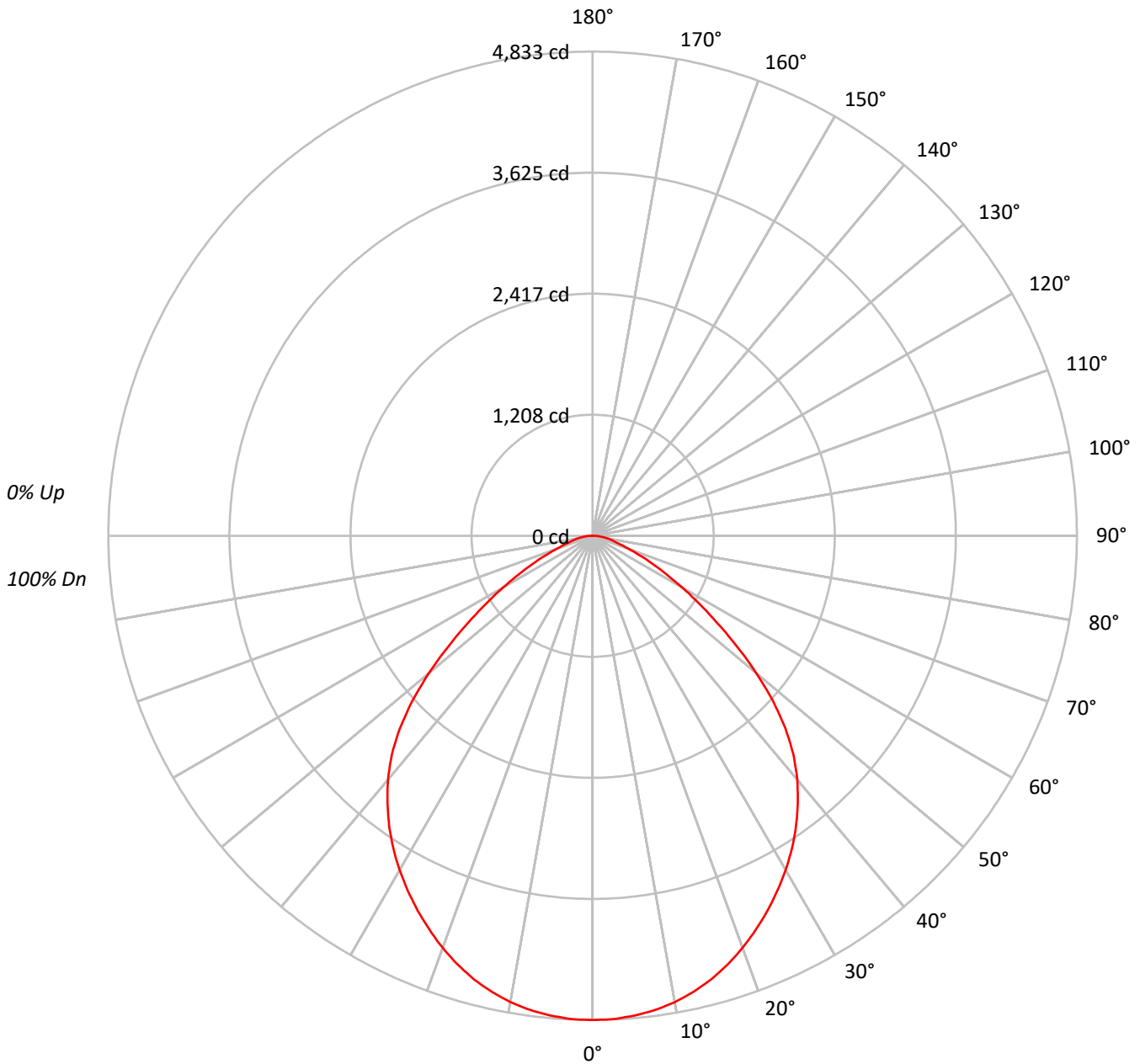
Lumens per Lamp: N/A
Luminaire Lumens: 10306.0 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.29
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 114.4
Input Voltage (V):
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: P839188

CATALOG NUMBER: LD4C100D010 EU41009050 4LBPSMW

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			100
1	111	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	88			88
2	102	95	89	85	100	93	88	84	90	86	82	87	83	80	84	81	78	76			76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66			66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58			58
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53	51			51
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47	46			46
7	70	57	49	44	68	57	49	43	55	48	43	54	47	43	52	47	43	41			41
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37			37
9	61	48	41	36	60	48	41	35	47	40	35	46	40	35	45	39	35	33			33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30			30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	593800
5°	592837
10°	589600
15°	582785
20°	572201
25°	559810
30°	546483
35°	530886
40°	509524
45°	472645
50°	407194
55°	324795
60°	252882
65°	189301
70°	137358
75°	108889
80°	102019
85°	101631



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	456.4	4.4
10°-20°	1290.4	12.5
20°-30°	1901.7	18.5
30°-40°	2209.1	21.4
40°-50°	2076.5	20.1
50°-60°	1374.5	13.3
60°-70°	662.4	6.4
70°-80°	255.4	2.5
80°-90°	79.7	0.8
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°	3648.4	35.4
0°-40°	5857.5	56.8
0°-60°	9308.5	90.3
0°-90°	10306.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10306.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4833	
5°	4807	456
15°	4582	1290
25°	4130	1902
35°	3540	2209
45°	2720	2076
55°	1516	1375
65°	651	662
75°	229	255
85°	72	80
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4833.4
2.5°	4829.0
5°	4807.2
7.5°	4774.4
10°	4726.3
12.5°	4660.8
15°	4582.1
17.5°	4486.0
20°	4376.7
22.5°	4256.5
25°	4129.8
27.5°	3994.3
30°	3852.3
32.5°	3701.5
35°	3539.8
37.5°	3362.8
40°	3177.1
42.5°	2967.3
45°	2720.4
47.5°	2440.7
50°	2130.5
52.5°	1815.8
55°	1516.4
57.5°	1258.6
60°	1029.2
62.5°	823.8
65°	651.2
67.5°	504.8
70°	382.4
72.5°	290.6
75°	229.4
77.5°	185.7
80°	144.2
82.5°	107.1
85°	72.1
87.5°	41.5
90°	0.0



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— 0°-180°







(END OF REPORT)