

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: P839196

Luminaire Tested: **LD4C10D010 EU4109030 4LBSLI**

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P839196
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208407)
Test Lab: INNOVATION CENTER
Issue Date: 2/9/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C10D010 EU4109030 4LBSLI
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBS TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

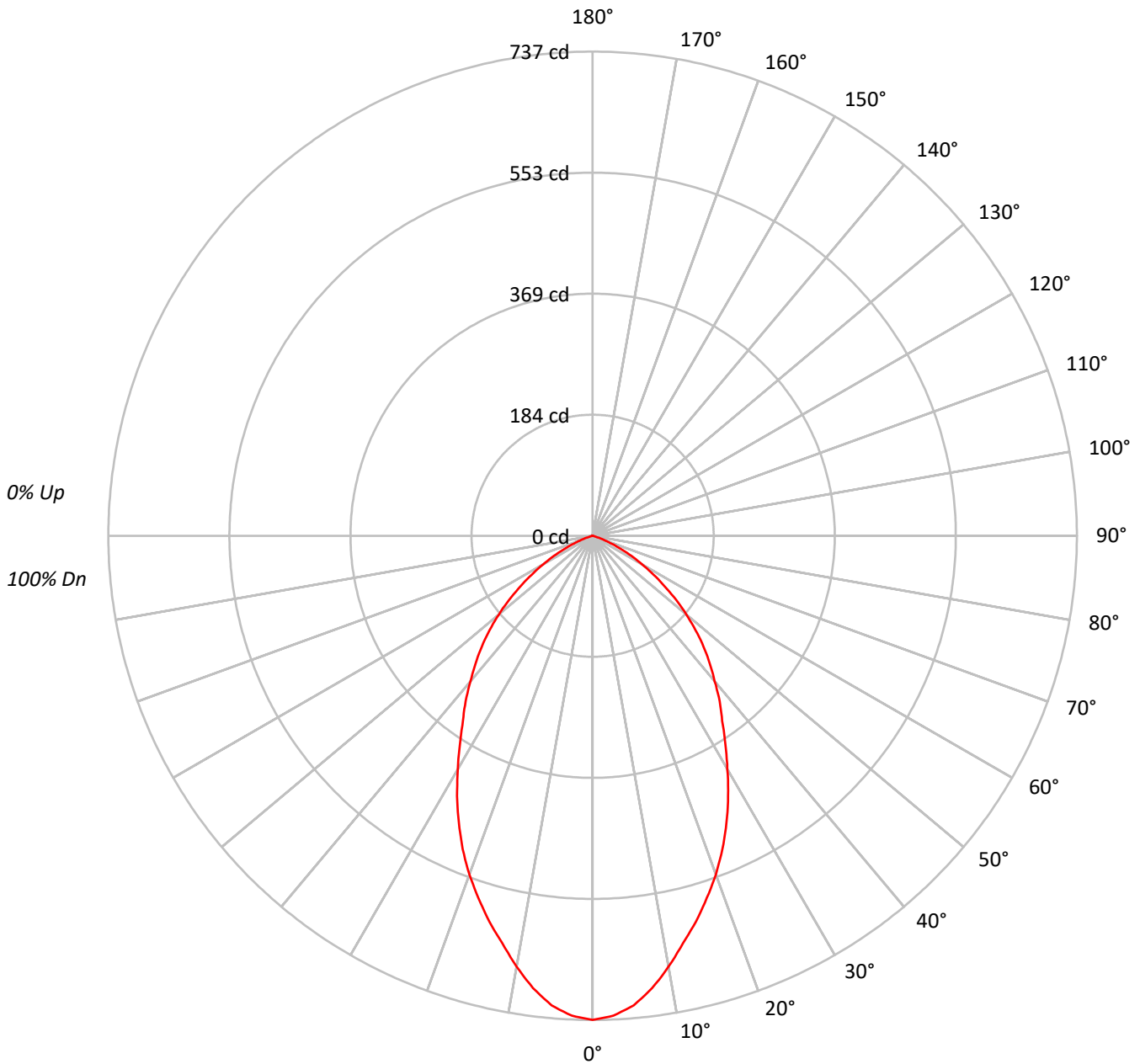
Lumens per Lamp: N/A
Luminaire Lumens: 1032.0 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.8
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

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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	100	100	100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90	90	90	90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80	80	80	80
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71	71	71	71
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63	63	63	63
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	59	57	57	57	57
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51	51	51	51
7	74	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46	46	46	46
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42	42	42	42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39	39	39	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36	36	36	36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	90531
5°	88484
10°	83083
15°	77304
20°	71697
25°	65350
30°	58176
35°	51577
40°	46348
45°	41489
50°	35588
55°	28637
60°	21327
65°	13605
70°	6573
75°	1092
80°	778
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.8	6.5
10°-20°	170.4	16.5
20°-30°	220.8	21.4
30°-40°	216.4	21.0
40°-50°	183.4	17.8
50°-60°	120.2	11.7
60°-70°	48.3	4.7
70°-80°	5.5	0.5
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°	458.0	44.4
0°-40°	674.4	65.3
0°-60°	978.0	94.8
0°-90°	1032.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1032.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	737	
5°	718	67
15°	608	170
25°	482	221
35°	344	216
45°	239	183
55°	134	120
65°	47	48
75°	2	6
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	736.9
2.5°	731.2
5°	717.5
7.5°	694.6
10°	666.0
12.5°	635.2
15°	607.8
17.5°	578.1
20°	548.4
22.5°	516.4
25°	482.1
27.5°	446.7
30°	410.1
32.5°	375.9
35°	343.9
37.5°	317.6
40°	289.0
42.5°	263.9
45°	238.8
47.5°	212.5
50°	186.2
52.5°	160.0
55°	133.7
57.5°	109.7
60°	86.8
62.5°	66.3
65°	46.8
67.5°	30.8
70°	18.3
72.5°	8.0
75°	2.3
77.5°	1.1
80°	1.1
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)