

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: P839418

Luminaire Tested: **LD4C90D010 EU4909027 4LBSLI**

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P839418
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: LD4C90D010 EU4909027 4LBSLI
Description: 4 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBS TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

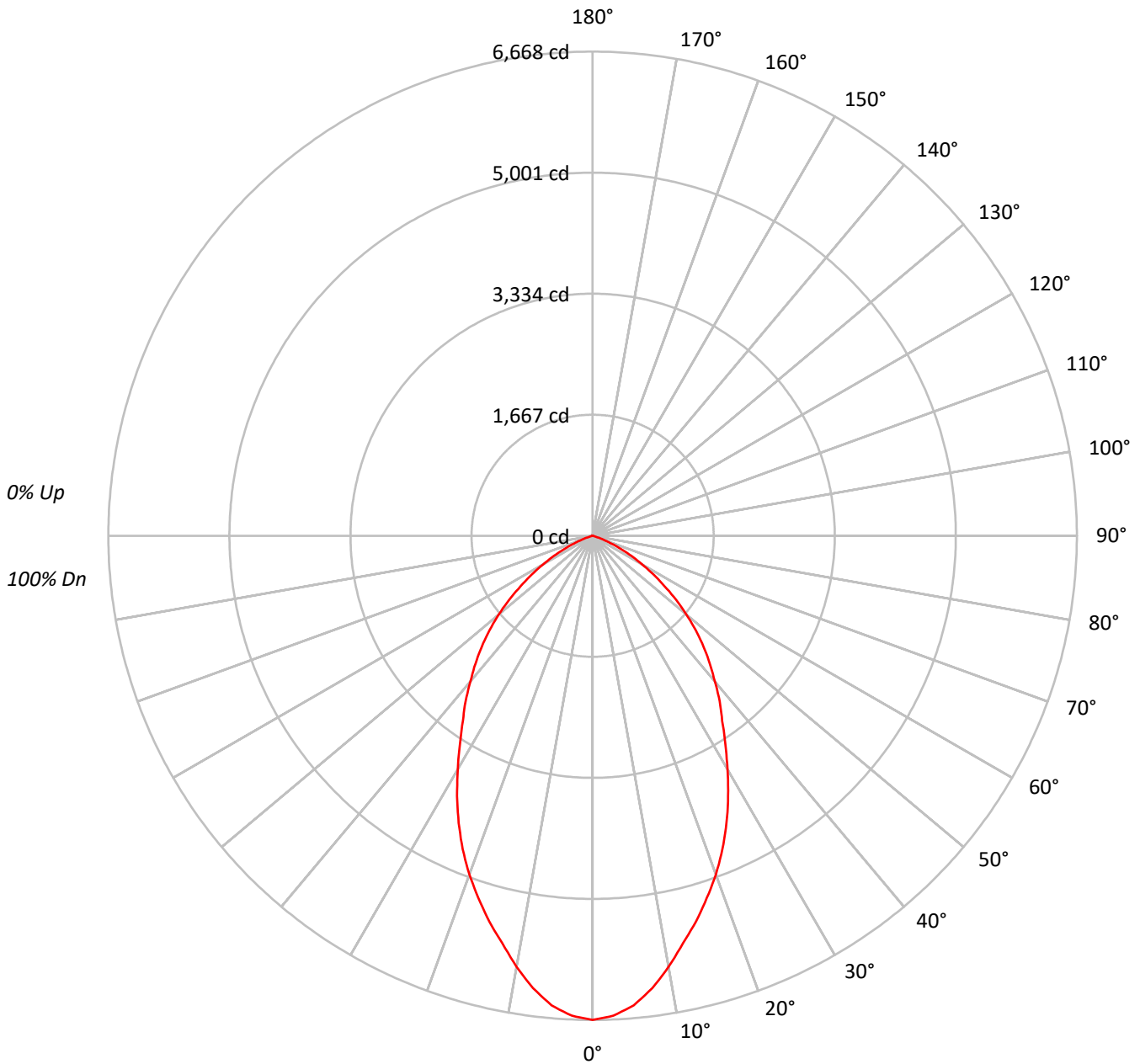
Lumens per Lamp: N/A
Luminaire Lumens: 9338.0 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 97.1
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		0
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102		100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92		90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82		80
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73		71
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65		63
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	59		57
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53		51
7	74	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48		46
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44		42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41		39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37		36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	819150
5°	800587
10°	751823
15°	699454
20°	648722
25°	591354
30°	526467
35°	466652
40°	419426
45°	375385
50°	322028
55°	259061
60°	193027
65°	123226
70°	59376
75°	9873
80°	7287
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	604.6	6.5
10°-20°	1541.9	16.5
20°-30°	1998.0	21.4
30°-40°	1957.7	21.0
40°-50°	1659.4	17.8
50°-60°	1087.8	11.6
60°-70°	437.2	4.7
70°-80°	50.0	0.5
80°-90°	1.4	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°	4144.5	44.4
0°-40°	6102.3	65.3
0°-60°	8849.4	94.8
0°-90°	9338.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9338.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6668	
5°	6492	605
15°	5499	1542
25°	4362	1998
35°	3112	1958
45°	2161	1659
55°	1210	1088
65°	424	437
75°	21	50
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6667.7
2.5°	6615.9
5°	6491.8
7.5°	6285.0
10°	6026.7
12.5°	5747.5
15°	5499.4
17.5°	5230.8
20°	4962.0
22.5°	4672.6
25°	4362.5
27.5°	4041.9
30°	3711.2
32.5°	3401.1
35°	3111.5
37.5°	2873.9
40°	2615.3
42.5°	2387.9
45°	2160.6
47.5°	1922.8
50°	1684.9
52.5°	1447.3
55°	1209.5
57.5°	992.4
60°	785.6
62.5°	599.5
65°	423.9
67.5°	279.1
70°	165.3
72.5°	72.3
75°	20.8
77.5°	10.3
80°	10.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)