

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: P839178

Luminaire Tested: **LD4C100D010 EU41009027 4LBSLI**

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P839178
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: LD4C100D010 EU41009027 4LBSLI
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBS TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

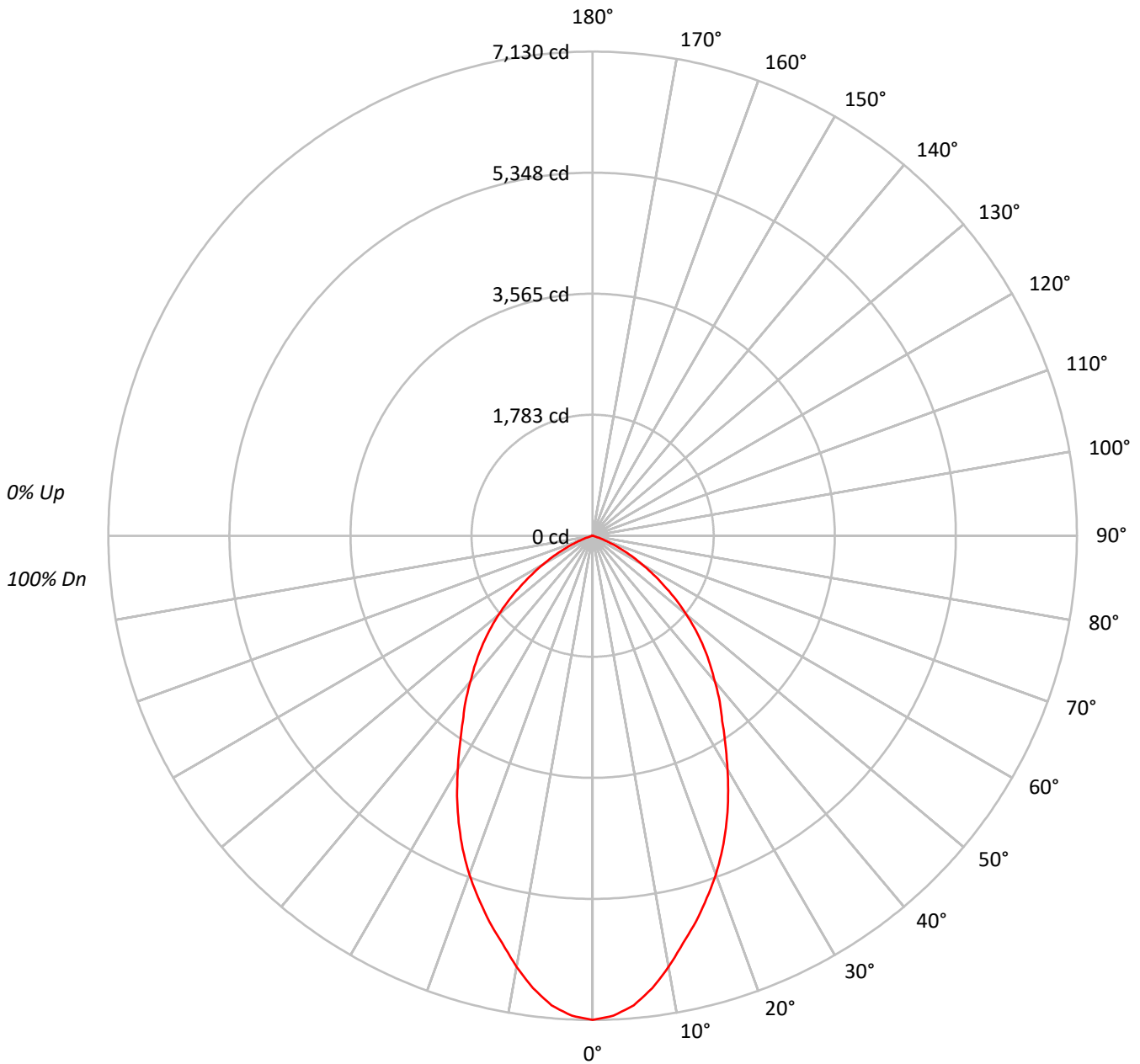
Lumens per Lamp: N/A
Luminaire Lumens: 9985.0 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P839178

CATALOG NUMBER: LD4C100D010 EU41009027 4LBSLI

Luminous Intensity Polar Plot





TEST NUMBER: P839178

CATALOG NUMBER: LD4C100D010 EU41009027 4LBSLI

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
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°	875896
5°	856057
10°	803905
15°	747925
20°	693669
25°	632318
30°	562953
35°	498986
40°	448485
45°	401394
50°	344352
55°	277010
60°	206394
65°	131773
70°	63506
75°	10538
80°	7782
85°	0



TEST NUMBER: P839178

CATALOG NUMBER: LD4C100D010 EU41009027 4LBSLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	646.5	6.5
10°-20°	1648.7	16.5
20°-30°	2136.5	21.4
30°-40°	2093.4	21.0
40°-50°	1774.4	17.8
50°-60°	1163.2	11.6
60°-70°	467.5	4.7
70°-80°	53.5	0.5
80°-90°	1.5	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°	4431.7	44.4
0°-40°	6525.1	65.3
0°-60°	9462.6	94.8
0°-90°	9985.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9985.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7130	
5°	6942	646
15°	5880	1649
25°	4665	2136
35°	3327	2093
45°	2310	1774
55°	1293	1163
65°	453	468
75°	22	53
85°	0	1
90°	0	



TEST NUMBER: P839178

CATALOG NUMBER: LD4C100D010 EU41009027 4LBSLI

CANDELA DISTRIBUTION (FULL):

	0°
0°	7129.6
2.5°	7074.3
5°	6941.6
7.5°	6720.5
10°	6444.2
12.5°	6145.8
15°	5880.5
17.5°	5593.3
20°	5305.8
22.5°	4996.4
25°	4664.7
27.5°	4321.9
30°	3968.4
32.5°	3636.7
35°	3327.1
37.5°	3073.0
40°	2796.5
42.5°	2553.4
45°	2310.3
47.5°	2056.0
50°	1801.7
52.5°	1547.6
55°	1293.3
57.5°	1061.2
60°	840.0
62.5°	641.0
65°	453.3
67.5°	298.4
70°	176.8
72.5°	77.3
75°	22.2
77.5°	11.0
80°	11.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180°







(END OF REPORT)