

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: P839193

Luminaire Tested: **LD4C10D010 EU4109027 4LBSLI**

Issue Date: 2/9/2022

Test Information

Test Method: LM-79-08
Report Number: P839193
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 EU4109027 4LBSLI
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBS TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

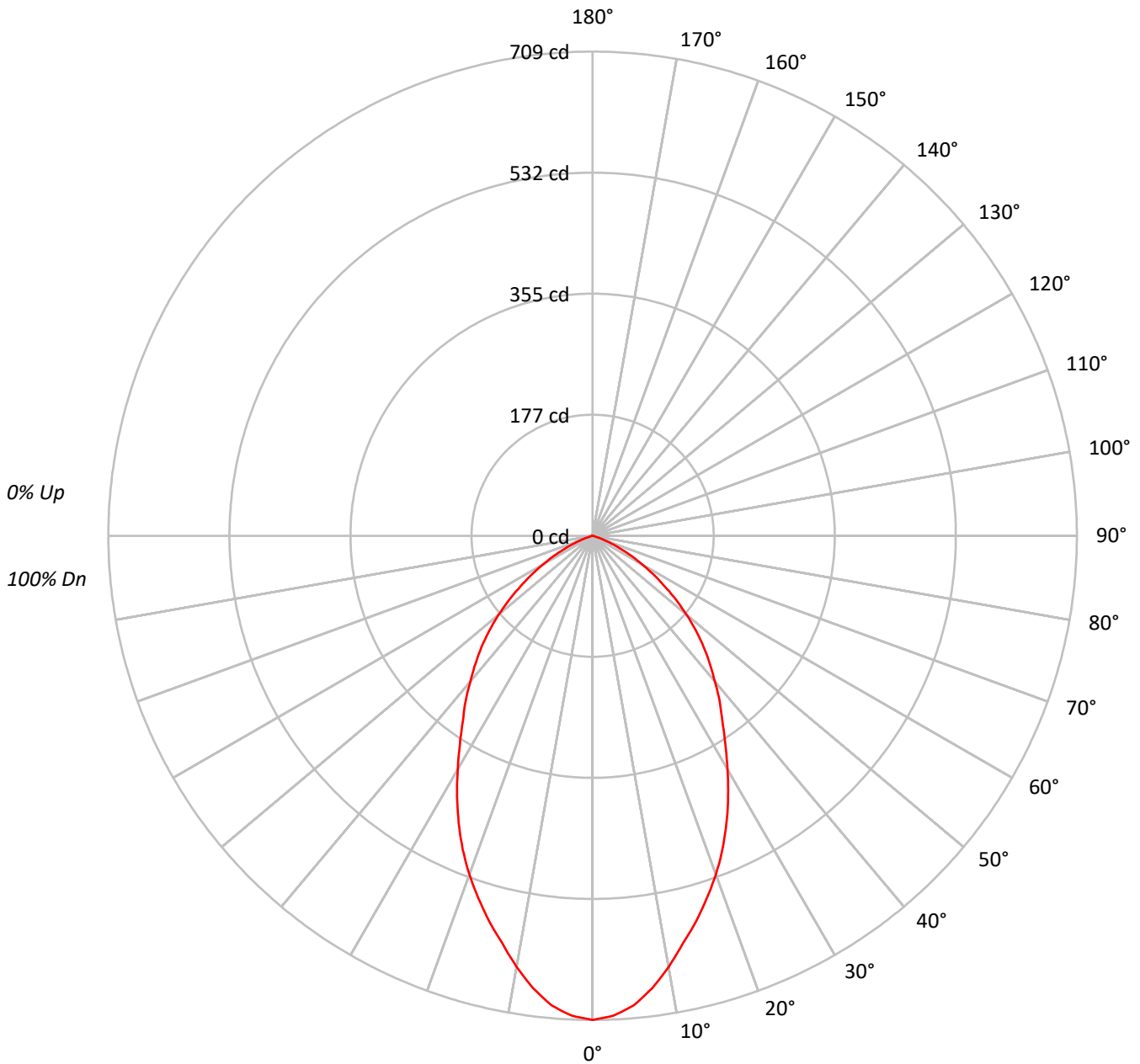
Lumens per Lamp: N/A
Luminaire Lumens: 993.0 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	87103
5°	85130
10°	79951
15°	74379
20°	68990
25°	62883
30°	55992
35°	49627
40°	44600
45°	39926
50°	34250
55°	27545
60°	20517
65°	13110
70°	6322
75°	1044
80°	778
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.3	6.5
10°-20°	164.0	16.5
20°-30°	212.5	21.4
30°-40°	208.2	21.0
40°-50°	176.5	17.8
50°-60°	115.7	11.6
60°-70°	46.5	4.7
70°-80°	5.3	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°	440.7	44.4
0°-40°	648.9	65.3
0°-60°	941.1	94.8
0°-90°	993.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	993.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	709	
5°	690	64
15°	585	164
25°	464	212
35°	331	208
45°	230	176
55°	129	116
65°	45	47
75°	2	5
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	709.0
2.5°	703.5
5°	690.3
7.5°	668.3
10°	640.9
12.5°	611.2
15°	584.8
17.5°	556.2
20°	527.7
22.5°	496.9
25°	463.9
27.5°	429.8
30°	394.7
32.5°	361.7
35°	330.9
37.5°	305.6
40°	278.1
42.5°	253.9
45°	229.8
47.5°	204.5
50°	179.2
52.5°	153.9
55°	128.6
57.5°	105.5
60°	83.5
62.5°	63.8
65°	45.1
67.5°	29.7
70°	17.6
72.5°	7.7
75°	2.2
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)