

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: P839190

Luminaire Tested: **LD4C100D010 EU41009050 4LBSLI**

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P839190
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 EU41009050 4LBSLI
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBS TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

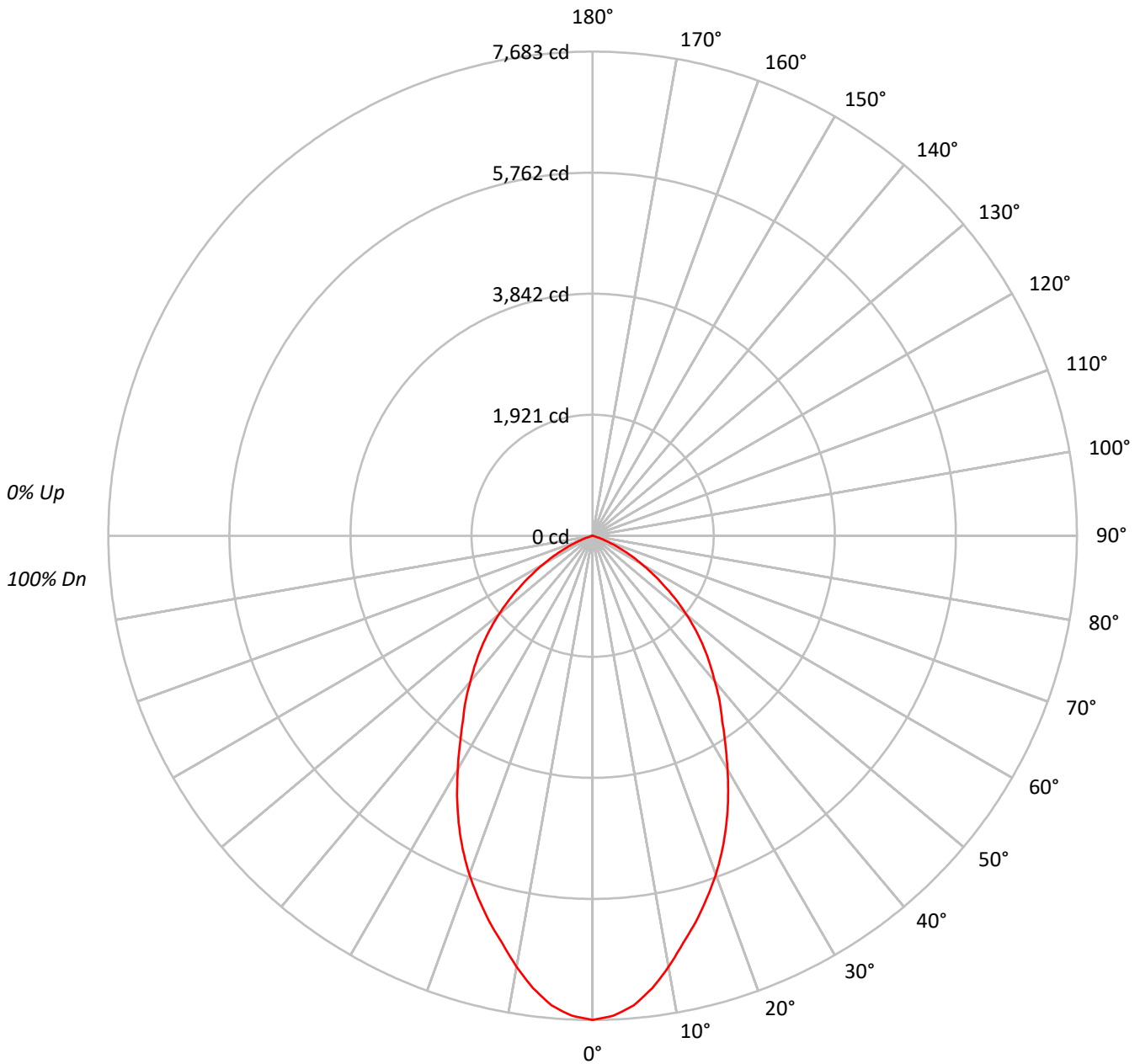
Lumens per Lamp: N/A
Luminaire Lumens: 10760.0 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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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°	943883
5°	922504
10°	866305
15°	805973
20°	747507
25°	681402
30°	606646
35°	537710
40°	483303
45°	432546
50°	371071
55°	298515
60°	222414
65°	142005
70°	68428
75°	11345
80°	8348
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	696.7	6.5
10°-20°	1776.7	16.5
20°-30°	2302.3	21.4
30°-40°	2255.8	21.0
40°-50°	1912.1	17.8
50°-60°	1253.4	11.6
60°-70°	503.8	4.7
70°-80°	57.6	0.5
80°-90°	1.6	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°	4775.7	44.4
0°-40°	7031.5	65.3
0°-60°	10197.0	94.8
0°-90°	10760.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10760.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7683	
5°	7480	697
15°	6337	1777
25°	5027	2302
35°	3585	2256
45°	2490	1912
55°	1394	1253
65°	488	504
75°	24	58
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	7683.0
2.5°	7623.4
5°	7480.4
7.5°	7242.1
10°	6944.4
12.5°	6622.8
15°	6336.9
17.5°	6027.4
20°	5717.6
22.5°	5384.2
25°	5026.8
27.5°	4657.4
30°	4276.4
32.5°	3919.0
35°	3585.3
37.5°	3311.5
40°	3013.6
42.5°	2751.6
45°	2489.6
47.5°	2215.6
50°	1941.5
52.5°	1667.7
55°	1393.7
57.5°	1143.5
60°	905.2
62.5°	690.8
65°	488.5
67.5°	321.6
70°	190.5
72.5°	83.3
75°	23.9
77.5°	11.8
80°	11.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)