

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: P839430

Luminaire Tested: **LD4C90D010 EU4909050 4LBSLI**

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P839430
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 EU4909050 4LBSLI
Description: 4 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBS TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

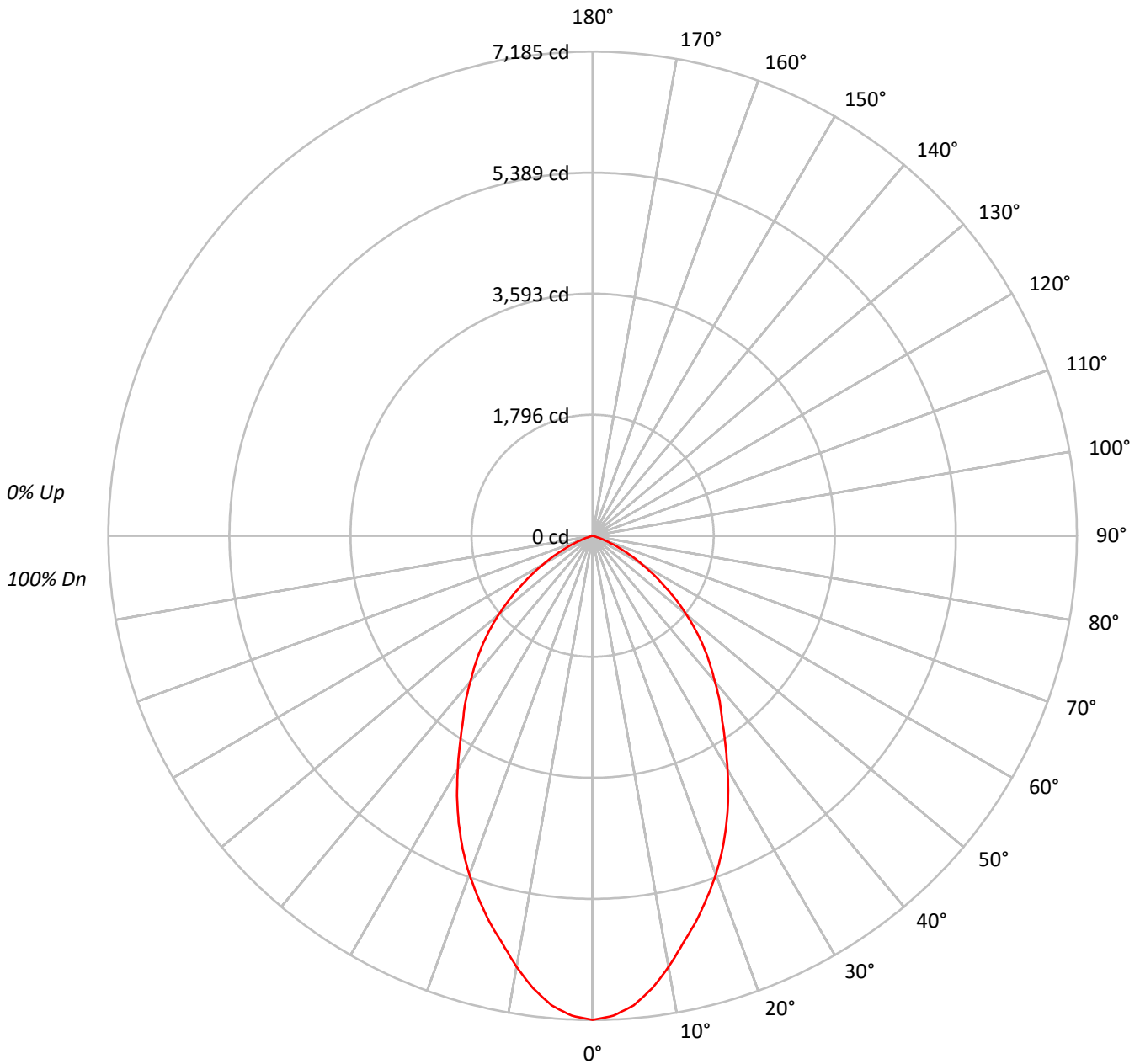
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10062.0 lumens
Efficiency: N/A
Efficacy: 103.6 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									
RC	80									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																			
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°	882653
5°	862667
10°	810106
15°	753686
20°	699017
25°	637198
30°	567294
35°	502826
40°	451949
45°	404487
50°	347009
55°	279152
60°	207991
65°	132790
70°	63973
75°	10633
80°	7853
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	651.5	6.5
10°-20°	1661.5	16.5
20°-30°	2152.9	21.4
30°-40°	2109.5	21.0
40°-50°	1788.0	17.8
50°-60°	1172.1	11.6
60°-70°	471.1	4.7
70°-80°	53.9	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°	4465.9	44.4
0°-40°	6575.4	65.3
0°-60°	9535.5	94.8
0°-90°	10062.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10062.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7185	
5°	6995	651
15°	5926	1661
25°	4701	2153
35°	3353	2110
45°	2328	1788
55°	1303	1172
65°	457	471
75°	22	54
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	7184.6
2.5°	7128.8
5°	6995.2
7.5°	6772.3
10°	6493.9
12.5°	6193.2
15°	5925.8
17.5°	5636.4
20°	5346.7
22.5°	5034.9
25°	4700.7
27.5°	4355.2
30°	3999.0
32.5°	3664.8
35°	3352.7
37.5°	3096.7
40°	2818.1
42.5°	2573.1
45°	2328.1
47.5°	2071.8
50°	1815.6
52.5°	1559.5
55°	1303.3
57.5°	1069.3
60°	846.5
62.5°	646.0
65°	456.8
67.5°	300.8
70°	178.1
72.5°	77.9
75°	22.4
77.5°	11.1
80°	11.1
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)