

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: P839421

Luminaire Tested: **LD4C90D010 EU4909030 4LBSLI**

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P839421
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 EU4909030 4LBSLI
Description: 4 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBS TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

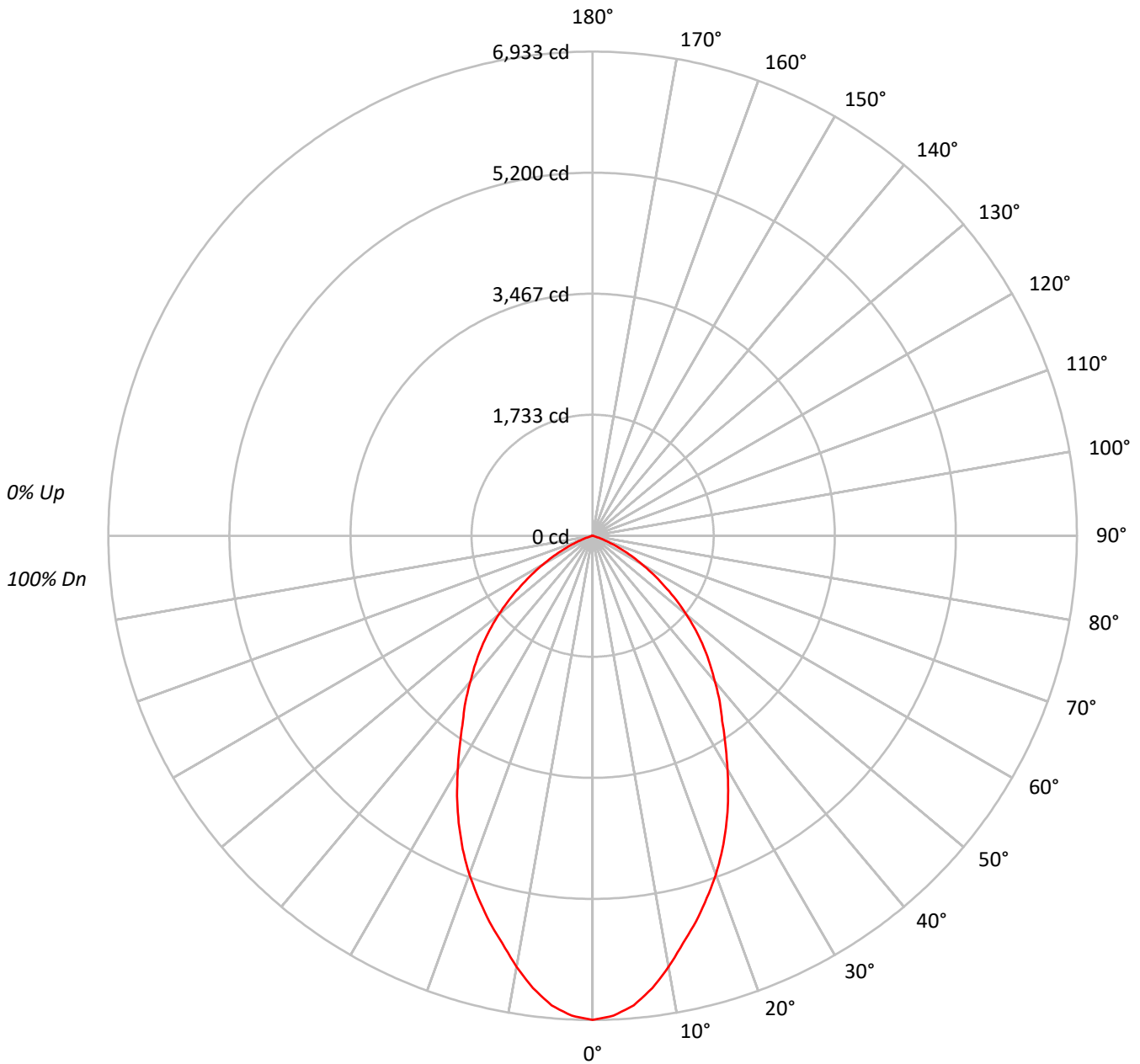
Lumens per Lamp: N/A
Luminaire Lumens: 9709.0 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P839421

CATALOG NUMBER: LD4C90D010 EU4909030 4LBSLI

Luminous Intensity Polar Plot





TEST NUMBER: P839421

CATALOG NUMBER: LD4C90D010 EU4909030 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	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°	851694
5°	832404
10°	781688
15°	727244
20°	674490
25°	614845
30°	547391
35°	485189
40°	436088
45°	390292
50°	334834
55°	269342
60°	200693
65°	128139
70°	61746
75°	10253
80°	7570
85°	0



TEST NUMBER: P839421

CATALOG NUMBER: LD4C90D010 EU4909030 4LBSLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	628.6	6.5
10°-20°	1603.2	16.5
20°-30°	2077.4	21.4
30°-40°	2035.5	21.0
40°-50°	1725.3	17.8
50°-60°	1131.0	11.6
60°-70°	454.6	4.7
70°-80°	52.0	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°	4309.2	44.4
0°-40°	6344.7	65.3
0°-60°	9201.0	94.8
0°-90°	9709.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9709.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6933	
5°	6750	629
15°	5718	1603
25°	4536	2077
35°	3235	2035
45°	2246	1725
55°	1258	1131
65°	441	455
75°	22	52
85°	0	1
90°	0	



TEST NUMBER: P839421

CATALOG NUMBER: LD4C90D010 EU4909030 4LBSLI

CANDELA DISTRIBUTION (FULL):

	0°
0°	6932.6
2.5°	6878.7
5°	6749.8
7.5°	6534.7
10°	6266.1
12.5°	5975.9
15°	5717.9
17.5°	5438.6
20°	5159.1
22.5°	4858.2
25°	4535.8
27.5°	4202.4
30°	3858.7
32.5°	3536.2
35°	3235.1
37.5°	2988.1
40°	2719.2
42.5°	2482.8
45°	2246.4
47.5°	1999.2
50°	1751.9
52.5°	1504.8
55°	1257.5
57.5°	1031.8
60°	816.8
62.5°	623.3
65°	440.8
67.5°	290.2
70°	171.9
72.5°	75.2
75°	21.6
77.5°	10.7
80°	10.7
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)