

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: P839313

Luminaire Tested: **LD4C50D010 EU4509027 4LBSLI**

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P839313
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: LD4C50D010 EU4509027 4LBSLI
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBS TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

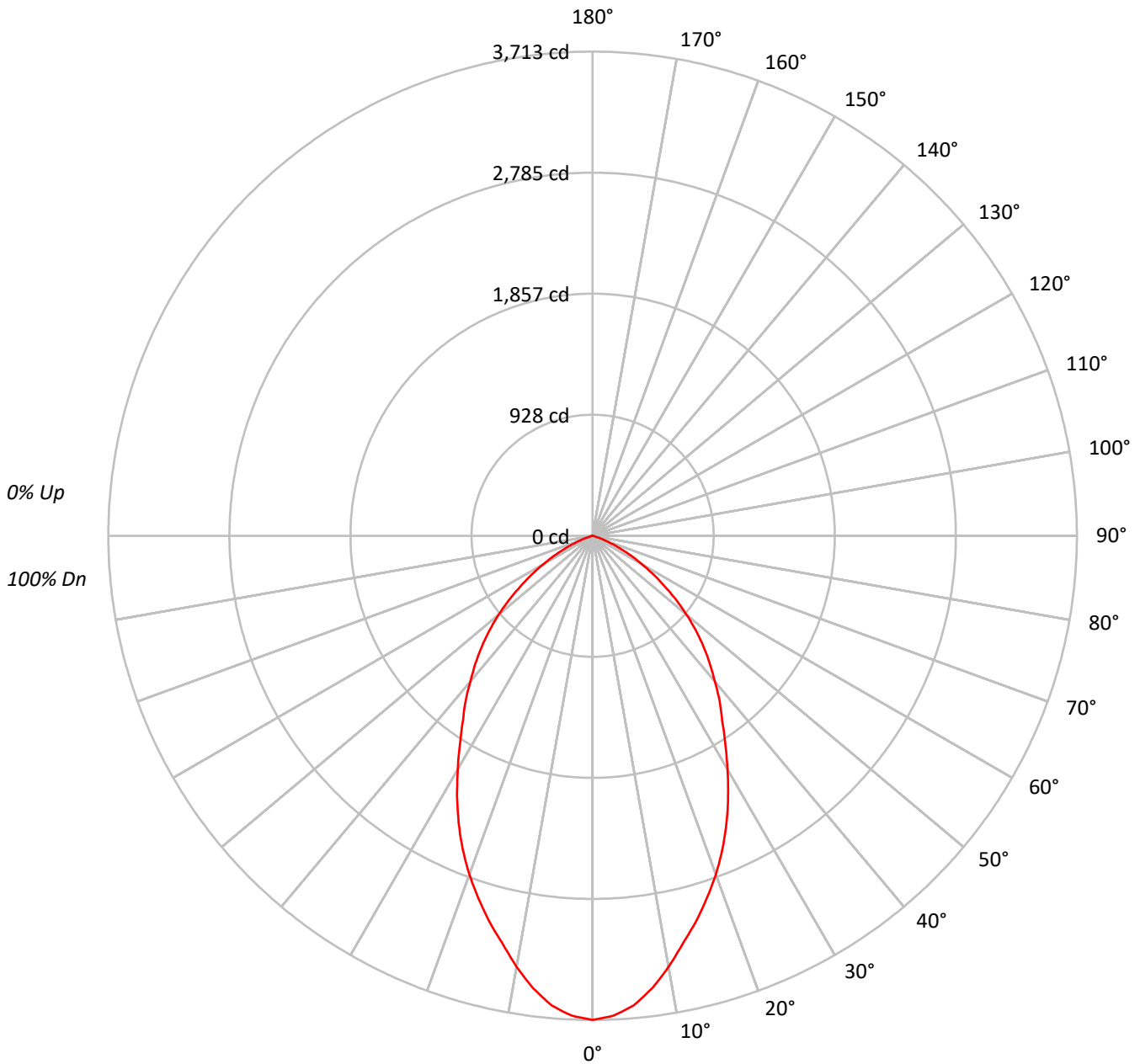
Lumens per Lamp: N/A
Luminaire Lumens: 5200.1 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
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			
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°	456155
5°	445824
10°	418657
15°	389498
20°	361242
25°	329301
30°	293166
35°	259864
40°	233568
45°	209045
50°	179334
55°	144256
60°	107497
65°	68633
70°	33082
75°	5506
80°	4033
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.7	6.5
10°-20°	858.6	16.5
20°-30°	1112.6	21.4
30°-40°	1090.2	21.0
40°-50°	924.1	17.8
50°-60°	605.8	11.6
60°-70°	243.5	4.7
70°-80°	27.8	0.5
80°-90°	0.8	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°	2307.9	44.4
0°-40°	3398.1	65.3
0°-60°	4928.0	94.8
0°-90°	5200.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5200.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3713	
5°	3615	337
15°	3062	859
25°	2429	1113
35°	1733	1090
45°	1203	924
55°	674	606
65°	236	243
75°	12	28
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3713.0
2.5°	3684.2
5°	3615.1
7.5°	3499.9
10°	3356.0
12.5°	3200.6
15°	3062.4
17.5°	2912.9
20°	2763.1
22.5°	2602.0
25°	2429.3
27.5°	2250.8
30°	2066.6
32.5°	1894.0
35°	1732.7
37.5°	1600.4
40°	1456.4
42.5°	1329.8
45°	1203.2
47.5°	1070.7
50°	938.3
52.5°	806.0
55°	673.5
57.5°	552.6
60°	437.5
62.5°	333.8
65°	236.1
67.5°	155.4
70°	92.1
72.5°	40.3
75°	11.6
77.5°	5.7
80°	5.7
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)