

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: P859033

Luminaire Tested: **LD4C50D010 EU4509050 4LBMDSWLI**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P859033  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/12/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C50D010 EU4509050 4LBMDSWLI  
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LBMDSW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

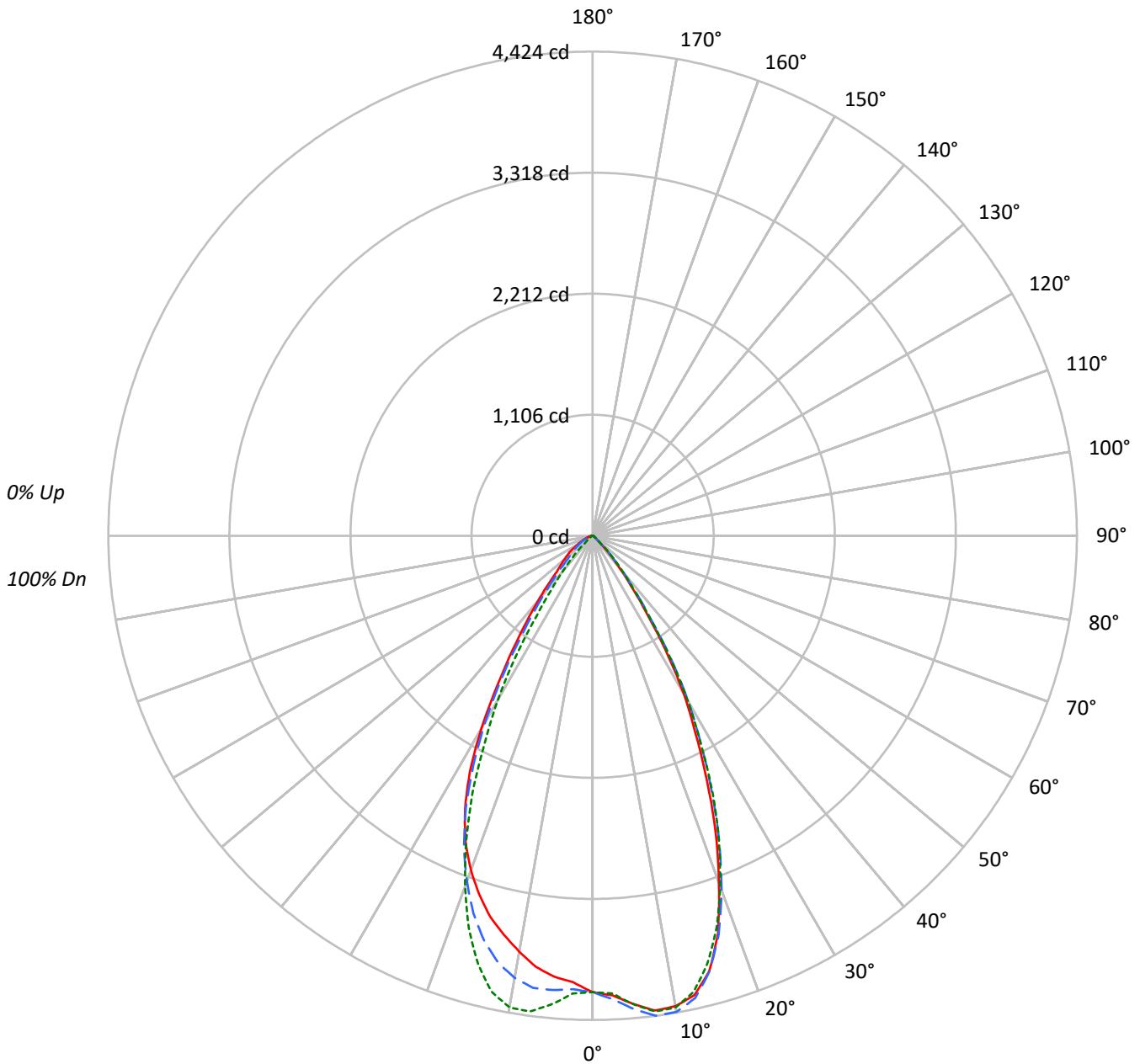
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3707.0 lumens  
Efficiency: N/A  
Efficacy: 63.5 lumens/watt  
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 58.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80			
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75			
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70			
6	88	79	73	68	86	78	72	68	76	71	68	75	71	67	74	70	67	65			
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61			
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58			
9	76	66	60	56	75	66	60	56	65	60	56	64	59	56	63	59	56	54			
10	72	63	57	53	71	62	57	53	61	56	53	61	56	53	60	56	52	51			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	512238	512238	512238
5°	529684	530041	498717
10°	544353	545776	481343
15°	523783	514701	458803
20°	441018	445123	424977
25°	335021	352033	374088
30°	235628	245345	287846
35°	127120	133119	190470
40°	61327	67742	123584
45°	21822	29744	80320
50°	8180	10359	64371
55°	6104	7325	53183
60°	4914	5602	38576
65°	4157	4971	29854
70°	3089	4095	23563
75°	2706	4082	17610
80°	2052	4033	12098
85°	0	4088	8035



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	406.0	11.0
10°-20°	1095.2	29.5
20°-30°	1188.0	32.0
30°-40°	659.1	17.8
40°-50°	209.9	5.7
50°-60°	84.6	2.3
60°-70°	42.8	1.2
70°-80°	17.7	0.5
80°-90°	3.7	0.1
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°	2689.1	72.5
0°-40°	3348.3	90.3
0°-60°	3642.8	98.3
0°-90°	3707.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3707.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4170	4170	4170	4170	4170	
5°	4295	4341	4298	4167	4044	413
15°	4118	4121	4047	3830	3607	1126
25°	2472	2574	2597	2737	2760	1129
35°	848	916	888	1173	1270	562
45°	126	148	171	382	462	120
55°	28	28	34	183	248	26
65°	14	14	17	83	103	14
75°	6	6	9	28	37	7
85°	0	0	3	6	6	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	4169.5	4169.5	4169.5	4169.5	4169.5	4169.5	4169.5	4169.5	4169.5
2.5°	4203.8	4240.9	4238.0	4209.5	4186.7	4178.1	4146.7	4109.6	4083.9
5°	4295.1	4340.8	4340.8	4317.9	4298.0	4249.5	4166.7	4086.8	4044.0
7.5°	4375.0	4420.7	4423.5	4406.4	4383.6	4303.7	4166.7	4038.3	3972.6
10°	4363.6	4397.9	4417.8	4400.7	4375.0	4269.4	4101.0	3929.8	3858.5
12.5°	4298.0	4329.4	4326.5	4300.8	4266.6	4158.1	3992.6	3815.7	3735.7
15°	4118.2	4135.3	4121.0	4092.5	4046.8	3964.1	3829.9	3678.7	3607.3
17.5°	3807.1	3829.9	3824.2	3778.6	3761.4	3681.5	3618.7	3501.7	3438.9
20°	3373.3	3444.7	3444.7	3410.4	3404.7	3350.5	3359.0	3296.2	3250.6
22.5°	2936.7	2999.4	3019.4	3005.2	3016.6	2990.9	3070.8	3053.7	3030.8
25°	2471.5	2534.3	2574.2	2568.5	2597.0	2597.0	2736.9	2771.1	2759.7
27.5°	2034.8	2094.8	2140.4	2151.8	2134.7	2166.1	2357.3	2425.8	2425.8
30°	1661.0	1709.5	1752.3	1752.3	1729.5	1752.3	1954.9	2034.8	2029.1
32.5°	1238.6	1292.8	1332.8	1327.1	1307.1	1338.5	1552.5	1632.4	1612.5
35°	847.6	884.7	916.1	904.7	887.6	938.9	1173.0	1272.8	1270.0
37.5°	573.6	607.9	627.9	619.3	613.6	673.5	887.6	998.9	993.2
40°	382.4	405.3	419.5	416.7	422.4	473.7	667.8	770.6	770.6
42.5°	242.6	256.9	271.1	271.1	285.4	339.6	508.0	596.5	596.5
45°	125.6	134.1	148.4	157.0	171.2	228.3	382.4	456.6	462.3
47.5°	59.9	62.8	68.5	71.3	82.8	142.7	294.0	373.9	391.0
50°	42.8	45.7	45.7	45.7	54.2	108.4	248.3	322.5	336.8
52.5°	34.2	34.2	34.2	37.1	42.8	91.3	214.0	279.7	291.1
55°	28.5	28.5	28.5	28.5	34.2	74.2	182.6	239.7	248.3
57.5°	22.8	22.8	22.8	22.8	28.5	59.9	151.3	191.2	194.1
60°	20.0	20.0	20.0	20.0	22.8	51.4	122.7	157.0	157.0
62.5°	17.1	17.1	17.1	17.1	20.0	42.8	102.7	128.4	125.6
65°	14.3	14.3	14.3	14.3	17.1	34.2	82.8	102.7	102.7
67.5°	11.4	11.4	11.4	11.4	14.3	28.5	65.6	82.8	82.8
70°	8.6	8.6	8.6	8.6	11.4	22.8	54.2	65.6	65.6
72.5°	8.6	8.6	8.6	8.6	8.6	17.1	40.0	51.4	48.5
75°	5.7	5.7	5.7	5.7	8.6	14.3	28.5	37.1	37.1
77.5°	5.7	5.7	5.7	5.7	5.7	11.4	22.8	25.7	25.7
80°	2.9	2.9	2.9	2.9	5.7	8.6	14.3	17.1	17.1
82.5°	0.0	2.9	0.0	2.9	2.9	5.7	11.4	11.4	11.4
85°	0.0	0.0	0.0	0.0	2.9	2.9	5.7	8.6	5.7
87.5°	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9	2.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)