

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: P858991

Luminaire Tested: **LD4C50D010 EU4509035 4LBMDSWLI**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P858991  
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 EU4509035 4LBMDSWLI  
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LBMDSW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

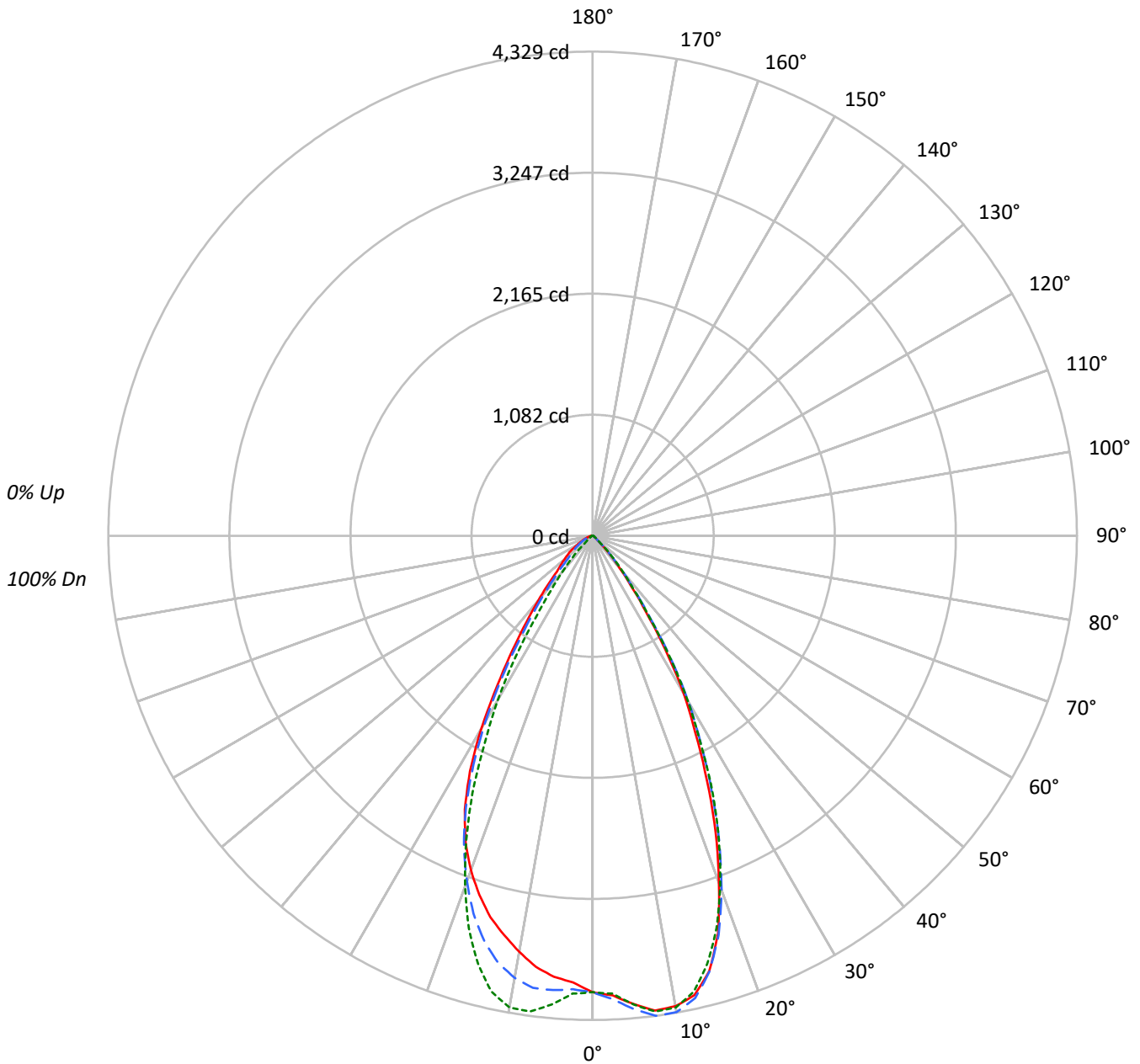
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3628.0 lumens  
Efficiency: N/A  
Efficacy: 62.1 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									
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	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°	501328	501328	501328
5°	518400	518745	488087
10°	532752	534149	471076
15°	512616	503738	449022
20°	431618	435632	415917
25°	327878	344537	366117
30°	230606	240110	281718
35°	124405	130270	186406
40°	60028	66299	120938
45°	21353	29119	78618
50°	8008	10149	62995
55°	5976	7175	52048
60°	4816	5479	37741
65°	4070	4884	29244
70°	3017	4023	23061
75°	2658	3987	17230
80°	1981	3962	11886
85°	0	3947	7894



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	397.3	11.0
10°-20°	1071.8	29.5
20°-30°	1162.7	32.0
30°-40°	645.1	17.8
40°-50°	205.5	5.7
50°-60°	82.8	2.3
60°-70°	41.9	1.2
70°-80°	17.3	0.5
80°-90°	3.6	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°	2631.8	72.5
0°-40°	3276.9	90.3
0°-60°	3565.2	98.3
0°-90°	3628.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3628.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4081	4081	4081	4081	4081	
5°	4204	4248	4206	4078	3958	404
15°	4030	4033	3961	3748	3530	1102
25°	2419	2519	2542	2679	2701	1105
35°	830	897	869	1148	1243	550
45°	123	145	168	374	452	118
55°	28	28	34	179	243	25
65°	14	14	17	81	101	14
75°	6	6	8	28	36	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°	4080.7	4080.7	4080.7	4080.7	4080.7	4080.7	4080.7	4080.7	4080.7
2.5°	4114.2	4150.5	4147.7	4119.8	4097.4	4089.1	4058.3	4022.0	3996.9
5°	4203.6	4248.3	4248.3	4225.9	4206.4	4158.9	4077.9	3999.7	3957.8
7.5°	4281.8	4326.5	4329.3	4312.5	4290.2	4212.0	4077.9	3952.2	3888.0
10°	4270.6	4304.1	4323.7	4306.9	4281.8	4178.4	4013.7	3846.1	3776.2
12.5°	4206.4	4237.1	4234.3	4209.2	4175.6	4069.5	3907.5	3734.3	3656.1
15°	4030.4	4047.2	4033.2	4005.3	3960.6	3879.6	3748.3	3600.3	3530.4
17.5°	3726.0	3748.3	3742.7	3698.0	3681.3	3603.1	3541.6	3427.1	3365.7
20°	3301.4	3371.2	3371.2	3337.7	3332.1	3279.1	3287.5	3226.0	3181.3
22.5°	2874.1	2935.5	2955.1	2941.1	2952.3	2927.1	3005.3	2988.6	2966.2
25°	2418.8	2480.3	2519.4	2513.8	2541.7	2541.7	2678.6	2712.1	2700.9
27.5°	1991.5	2050.1	2094.8	2106.0	2089.2	2119.9	2307.1	2374.1	2374.1
30°	1625.6	1673.1	1714.9	1714.9	1692.6	1714.9	1913.3	1991.5	1985.9
32.5°	1212.2	1265.3	1304.4	1298.8	1279.2	1310.0	1519.4	1597.6	1578.1
35°	829.5	865.9	896.6	885.4	868.6	918.9	1148.0	1245.7	1242.9
37.5°	561.4	594.9	614.5	606.1	600.5	659.2	868.6	977.6	972.0
40°	374.3	396.6	410.6	407.8	413.4	463.7	653.6	754.1	754.1
42.5°	237.4	251.4	265.3	265.3	279.3	332.4	497.2	583.8	583.8
45°	122.9	131.3	145.2	153.6	167.6	223.4	374.3	446.9	452.5
47.5°	58.7	61.4	67.0	69.8	81.0	139.7	287.7	365.9	382.7
50°	41.9	44.7	44.7	44.7	53.1	106.1	243.0	315.6	329.6
52.5°	33.5	33.5	33.5	36.3	41.9	89.4	209.5	273.7	284.9
55°	27.9	27.9	27.9	27.9	33.5	72.6	178.8	234.6	243.0
57.5°	22.3	22.3	22.3	22.3	27.9	58.7	148.0	187.1	189.9
60°	19.6	19.6	19.6	19.6	22.3	50.3	120.1	153.6	153.6
62.5°	16.8	16.8	16.8	16.8	19.6	41.9	100.6	125.7	122.9
65°	14.0	14.0	14.0	14.0	16.8	33.5	81.0	100.6	100.6
67.5°	11.2	11.2	11.2	11.2	14.0	27.9	64.2	81.0	81.0
70°	8.4	8.4	8.4	8.4	11.2	22.3	53.1	64.2	64.2
72.5°	8.4	8.4	8.4	8.4	8.4	16.8	39.1	50.3	47.5
75°	5.6	5.6	5.6	5.6	8.4	14.0	27.9	36.3	36.3
77.5°	5.6	5.6	5.6	5.6	5.6	11.2	22.3	25.1	25.1
80°	2.8	2.8	2.8	2.8	5.6	8.4	14.0	16.8	16.8
82.5°	0.0	2.8	0.0	2.8	2.8	5.6	11.2	11.2	11.2
85°	0.0	0.0	0.0	0.0	2.8	2.8	5.6	8.4	5.6
87.5°	0.0	0.0	0.0	0.0	0.0	2.8	2.8	2.8	2.8
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)