

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: P858949

Luminaire Tested: **LD4C50D010 EU4509027 4LBMDSWH**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P858949  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/12/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C50D010 EU4509027 4LBMDSWH  
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LBMDSW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

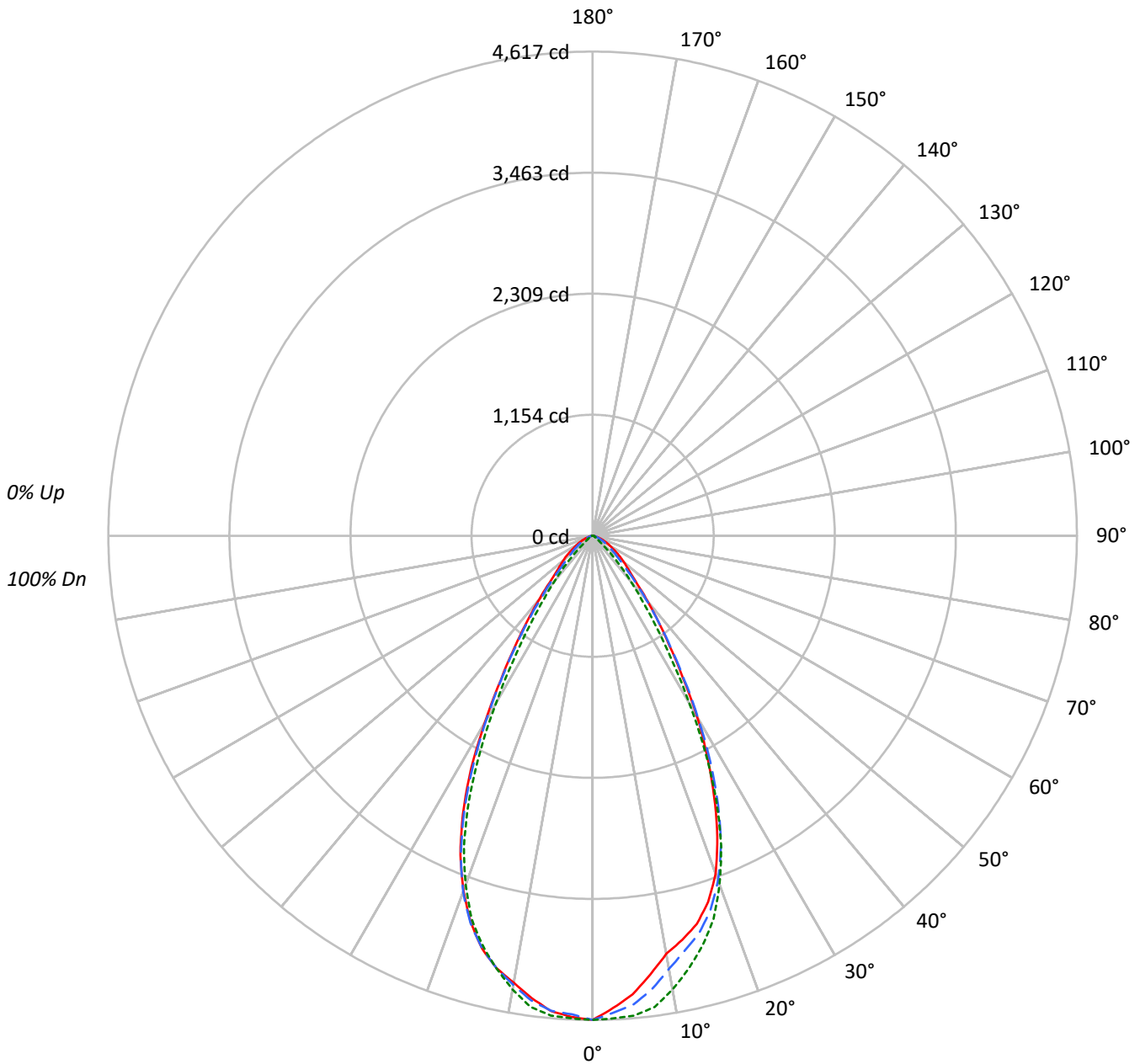
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4203.0 lumens  
Efficiency: N/A  
Efficacy: 72.0 lumens/watt  
Spacing Criteria (0/90/45): 0.88 / 0.88 / 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				100				
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92				92				
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85				85				
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78				78				
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72				72				
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67				67				
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62				62				
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58				58				
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55				55				
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51				51				
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48				48				

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

	0°	90°	180°
0°	567202	567202	567202
5°	541239	566298	561020
10°	504796	547934	539937
15°	487458	514663	518288
20°	448392	462381	470774
25°	371634	378412	396766
30°	282711	261474	290811
35°	191415	156665	193560
40°	130368	89761	126359
45°	90432	45225	85481
50°	73584	18405	68825
55°	59566	11459	54211
60°	47299	8772	42925
65°	37296	7267	33168
70°	28161	6394	25611
75°	20316	5079	18607
80°	15140	5023	12593
85°	10008	5075	10008



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	424.5	10.1
10°-20°	1115.3	26.5
20°-30°	1279.7	30.4
30°-40°	777.4	18.5
40°-50°	333.2	7.9
50°-60°	159.8	3.8
60°-70°	77.7	1.8
70°-80°	28.8	0.7
80°-90°	6.6	0.2
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°	2819.5	67.1
0°-40°	3596.8	85.6
0°-60°	4089.8	97.3
0°-90°	4203.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4203.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4617	4617	4617	4617	4617	
5°	4389	4485	4592	4546	4549	408
15°	3833	3922	4046	4072	4075	1067
25°	2742	2831	2792	2898	2927	1244
35°	1276	1294	1045	1262	1291	818
45°	520	464	260	417	492	423
55°	278	207	54	185	253	251
65°	128	86	25	78	114	130
75°	43	28	11	25	39	47
85°	7	7	4	4	7	10
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°	4616.9	4616.9	4616.9	4616.9	4616.9	4616.9	4616.9	4616.9	4616.9
2.5°	4506.4	4556.3	4552.8	4595.5	4606.2	4595.5	4567.0	4595.5	4592.0
5°	4388.8	4445.8	4485.0	4556.3	4592.0	4584.8	4545.6	4552.8	4549.2
7.5°	4217.6	4288.9	4356.7	4463.6	4531.4	4527.8	4470.8	4460.1	4445.8
10°	4046.5	4114.2	4192.7	4303.2	4392.3	4406.6	4349.5	4335.3	4328.2
12.5°	3946.7	4000.2	4053.6	4149.9	4228.3	4256.8	4224.8	4228.3	4224.8
15°	3832.6	3886.1	3921.7	3993.0	4046.5	4085.7	4071.5	4092.8	4075.0
17.5°	3661.5	3725.6	3739.9	3793.4	3832.6	3857.5	3871.8	3893.2	3864.7
20°	3429.7	3479.6	3497.5	3518.9	3536.7	3568.8	3611.5	3632.9	3600.9
22.5°	3105.3	3201.5	3198.0	3187.3	3205.1	3215.8	3283.5	3319.2	3294.2
25°	2741.6	2841.5	2830.8	2788.0	2791.6	2812.9	2898.5	2944.9	2927.0
27.5°	2360.2	2452.9	2427.9	2345.9	2324.5	2356.6	2467.1	2520.6	2509.9
30°	1992.9	2053.6	2014.3	1868.2	1843.2	1882.4	2025.0	2078.5	2050.0
32.5°	1597.2	1643.6	1625.7	1447.5	1404.7	1443.9	1611.5	1661.4	1629.3
35°	1276.3	1319.1	1294.2	1083.8	1044.6	1087.4	1262.1	1319.1	1290.6
37.5°	1023.2	1055.3	1023.2	798.6	763.0	805.7	973.3	1048.2	1012.5
40°	812.9	837.8	795.0	588.3	559.7	581.1	738.0	812.9	787.9
42.5°	641.7	659.6	613.2	431.4	399.3	427.8	556.2	623.9	609.6
45°	520.5	520.5	463.5	299.5	260.3	288.8	417.1	488.4	492.0
47.5°	445.7	435.0	363.7	199.7	149.7	189.0	331.6	406.4	417.1
50°	385.0	370.8	299.5	146.2	96.3	135.5	274.5	349.4	360.1
52.5°	331.6	320.9	249.6	114.1	67.7	103.4	231.7	303.0	313.7
55°	278.1	271.0	206.8	89.1	53.5	78.4	185.4	246.0	253.1
57.5°	228.2	217.5	167.6	74.9	42.8	64.2	153.3	203.2	210.3
60°	192.5	181.8	135.5	60.6	35.7	49.9	124.8	167.6	174.7
62.5°	160.4	149.7	110.5	49.9	28.5	42.8	99.8	135.5	142.6
65°	128.3	121.2	85.6	39.2	25.0	32.1	78.4	107.0	114.1
67.5°	103.4	96.3	67.7	32.1	21.4	25.0	60.6	85.6	92.7
70°	78.4	71.3	49.9	25.0	17.8	21.4	46.3	64.2	71.3
72.5°	57.0	53.5	39.2	21.4	14.3	17.8	32.1	46.3	53.5
75°	42.8	39.2	28.5	14.3	10.7	14.3	25.0	35.7	39.2
77.5°	28.5	28.5	21.4	10.7	10.7	10.7	17.8	25.0	25.0
80°	21.4	17.8	14.3	7.1	7.1	7.1	10.7	17.8	17.8
82.5°	14.3	10.7	10.7	7.1	7.1	7.1	7.1	10.7	10.7
85°	7.1	7.1	7.1	3.6	3.6	3.6	3.6	7.1	7.1
87.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
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)