

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: P856778

Luminaire Tested: **LD4C10D010 EU4109050 4LBMDDWLI**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P856778  
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: LD4C10D010 EU4109050 4LBMDDWLI  
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LBMDDW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

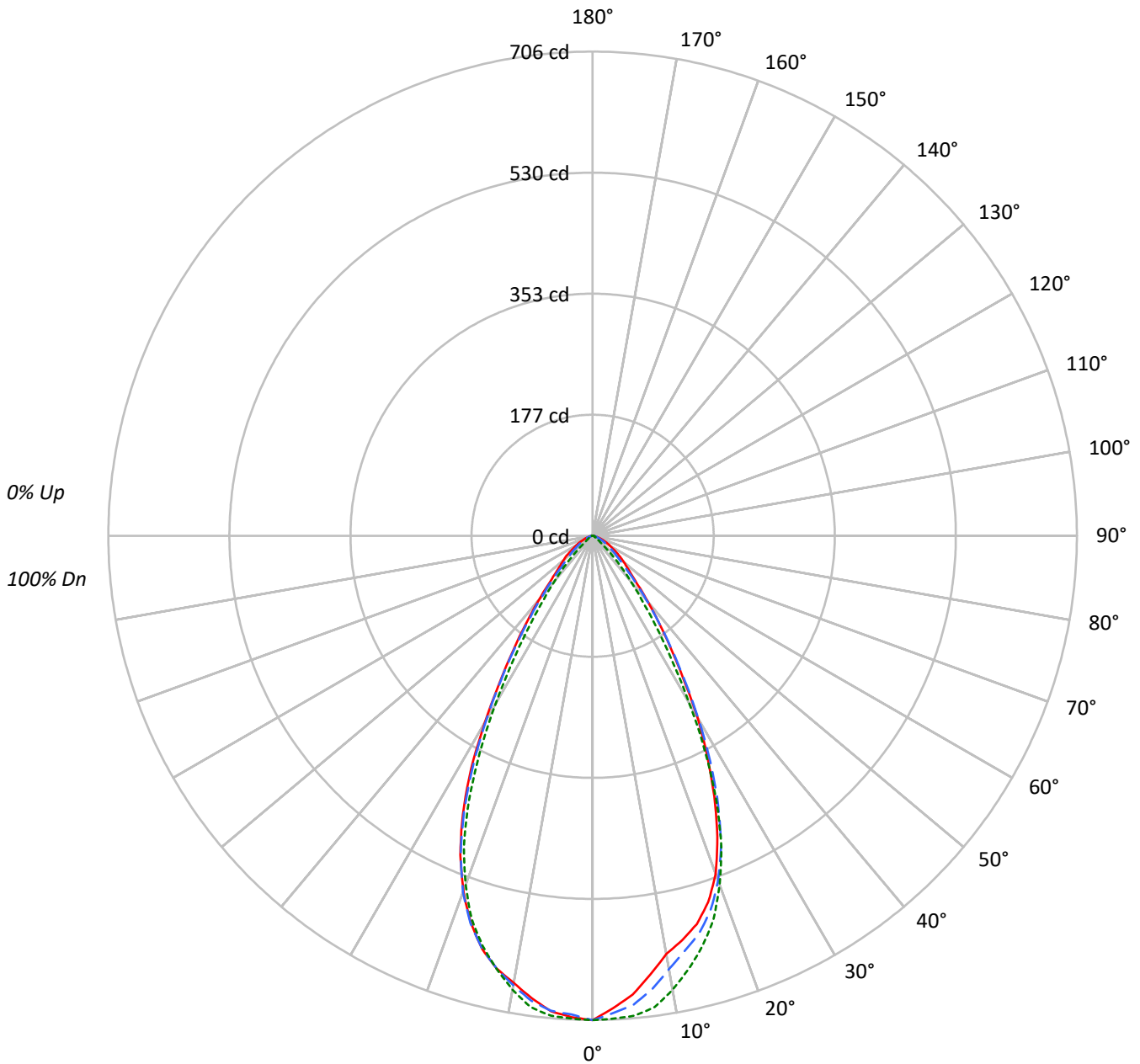
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 643.0 lumens  
Efficiency: N/A  
Efficacy: 65.6 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): 9.8  
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				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°	86771	86771	86771
5°	82799	86634	85833
10°	77232	83831	82596
15°	74570	78742	79289
20°	68598	70742	72024
25°	56851	57895	60701
30°	43253	40004	44487
35°	29290	23966	29605
40°	19951	13728	19325
45°	13830	6915	13083
50°	11257	2810	10531
55°	9103	1756	8289
60°	7248	1351	6560
65°	5698	1105	5087
70°	4310	970	3915
75°	3085	759	2848
80°	2335	778	1910
85°	1551	705	1551



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.9	10.1
10°-20°	170.6	26.5
20°-30°	195.8	30.4
30°-40°	118.9	18.5
40°-50°	51.0	7.9
50°-60°	24.5	3.8
60°-70°	11.9	1.8
70°-80°	4.4	0.7
80°-90°	1.0	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°	431.3	67.1
0°-40°	550.3	85.6
0°-60°	625.7	97.3
0°-90°	643.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	643.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	706	706	706	706	706	
5°	671	686	702	695	696	62
15°	586	600	619	623	623	163
25°	419	433	427	443	448	190
35°	195	198	160	193	197	125
45°	80	71	40	64	75	65
55°	42	32	8	28	39	38
65°	20	13	4	12	18	20
75°	6	4	2	4	6	7
85°	1	1	0	0	1	1
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°	706.3	706.3	706.3	706.3	706.3	706.3	706.3	706.3	706.3
2.5°	689.4	697.1	696.5	703.1	704.7	703.1	698.7	703.1	702.5
5°	671.4	680.1	686.1	697.1	702.5	701.4	695.4	696.5	696.0
7.5°	645.2	656.1	666.5	682.9	693.2	692.7	684.0	682.3	680.1
10°	619.1	629.4	641.4	658.3	672.0	674.1	665.4	663.2	662.1
12.5°	603.8	612.0	620.1	634.9	646.9	651.2	646.3	646.9	646.3
15°	586.3	594.5	600.0	610.9	619.1	625.1	622.9	626.1	623.4
17.5°	560.2	570.0	572.2	580.3	586.3	590.2	592.3	595.6	591.2
20°	524.7	532.3	535.1	538.3	541.1	546.0	552.5	555.8	550.9
22.5°	475.1	489.8	489.2	487.6	490.3	492.0	502.3	507.8	504.0
25°	419.4	434.7	433.1	426.5	427.1	430.3	443.4	450.5	447.8
27.5°	361.1	375.3	371.4	358.9	355.6	360.5	377.4	385.6	384.0
30°	304.9	314.2	308.2	285.8	282.0	288.0	309.8	318.0	313.6
32.5°	244.4	251.4	248.7	221.4	214.9	220.9	246.5	254.2	249.3
35°	195.3	201.8	198.0	165.8	159.8	166.4	193.1	201.8	197.4
37.5°	156.5	161.4	156.5	122.2	116.7	123.3	148.9	160.4	154.9
40°	124.4	128.2	121.6	90.0	85.6	88.9	112.9	124.4	120.5
42.5°	98.2	100.9	93.8	66.0	61.1	65.5	85.1	95.4	93.3
45°	79.6	79.6	70.9	45.8	39.8	44.2	63.8	74.7	75.3
47.5°	68.2	66.5	55.6	30.5	22.9	28.9	50.7	62.2	63.8
50°	58.9	56.7	45.8	22.4	14.7	20.7	42.0	53.5	55.1
52.5°	50.7	49.1	38.2	17.5	10.4	15.8	35.5	46.4	48.0
55°	42.5	41.5	31.6	13.6	8.2	12.0	28.4	37.6	38.7
57.5°	34.9	33.3	25.6	11.5	6.5	9.8	23.5	31.1	32.2
60°	29.5	27.8	20.7	9.3	5.5	7.6	19.1	25.6	26.7
62.5°	24.5	22.9	16.9	7.6	4.4	6.5	15.3	20.7	21.8
65°	19.6	18.5	13.1	6.0	3.8	4.9	12.0	16.4	17.5
67.5°	15.8	14.7	10.4	4.9	3.3	3.8	9.3	13.1	14.2
70°	12.0	10.9	7.6	3.8	2.7	3.3	7.1	9.8	10.9
72.5°	8.7	8.2	6.0	3.3	2.2	2.7	4.9	7.1	8.2
75°	6.5	6.0	4.4	2.2	1.6	2.2	3.8	5.5	6.0
77.5°	4.4	4.4	3.3	1.6	1.6	1.6	2.7	3.8	3.8
80°	3.3	2.7	2.2	1.1	1.1	1.1	1.6	2.7	2.7
82.5°	2.2	1.6	1.6	1.1	1.1	1.1	1.1	1.6	1.6
85°	1.1	1.1	1.1	0.5	0.5	0.5	0.5	1.1	1.1
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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)