

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: P858948

Luminaire Tested: **LD4C50D010 EU4509027 4LBMDSWGPH**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P858948  
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 4LBMDSWGPH  
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LBMDSW TRIM WITH GPH FINISH  
Light Source: -  
Ballast/Driver: -

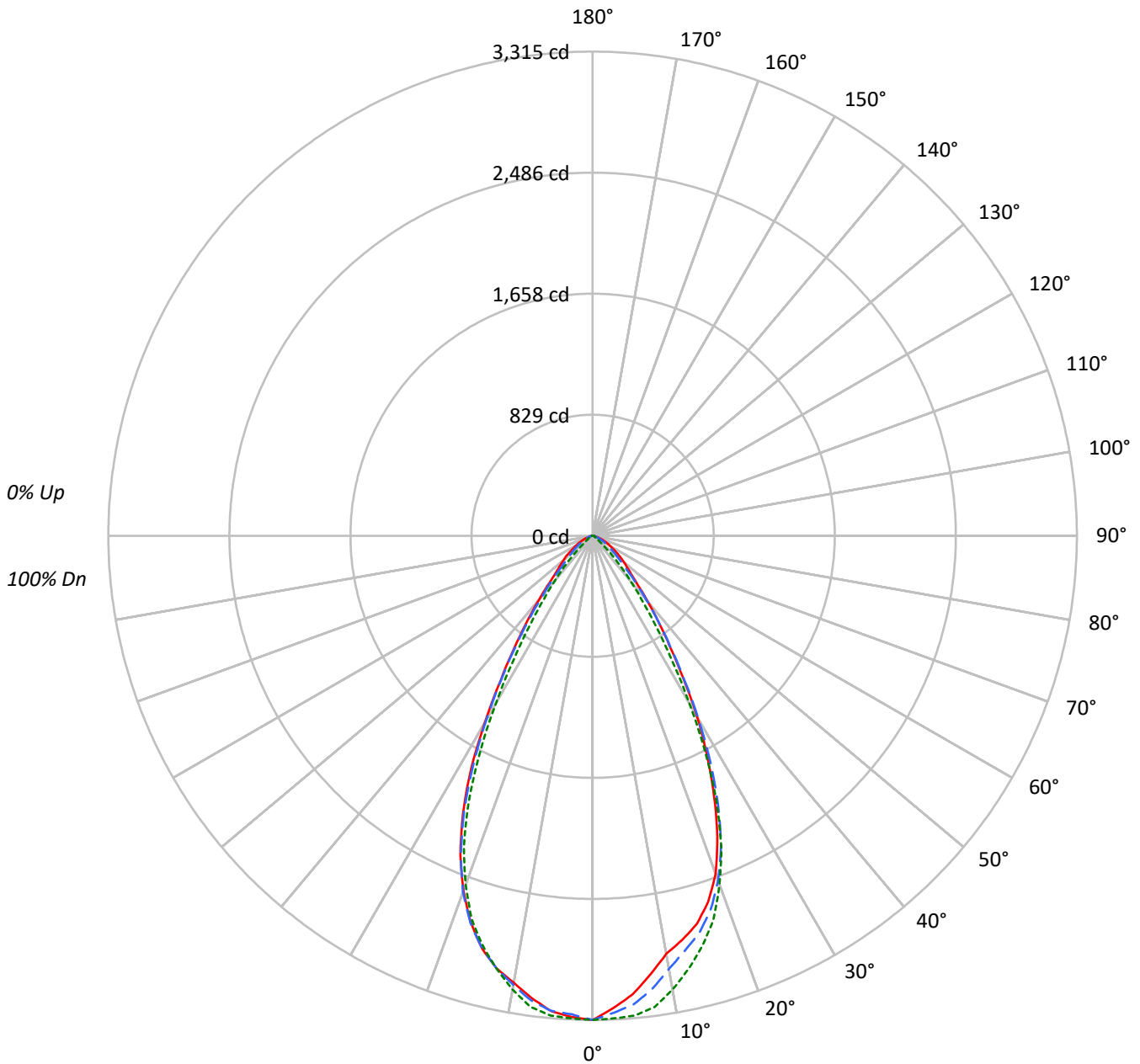
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3018.0 lumens  
Efficiency: N/A  
Efficacy: 51.7 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									
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	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92																			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85																			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78																			
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72																			
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67																			
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62																			
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58																			
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55																			
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51																			
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48																			

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

	0°	90°	180°
0°	407284	407284	407284
5°	388639	406632	402846
10°	362470	393445	387706
15°	350019	369555	372163
20°	321968	332009	338036
25°	266865	271718	284907
30°	203014	187750	208816
35°	137453	112497	138983
40°	93610	64454	90740
45°	64944	32472	61383
50°	52846	13207	49425
55°	42773	8225	38939
60°	33957	6290	30812
65°	26802	5203	23808
70°	20223	4598	18391
75°	14572	3655	13386
80°	10895	3608	9056
85°	7189	3665	7189



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	304.8	10.1
10°-20°	800.9	26.5
20°-30°	918.9	30.4
30°-40°	558.2	18.5
40°-50°	239.2	7.9
50°-60°	114.8	3.8
60°-70°	55.8	1.8
70°-80°	20.7	0.7
80°-90°	4.8	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°	2024.5	67.1
0°-40°	2582.7	85.6
0°-60°	2936.7	97.3
0°-90°	3018.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3018.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3315	3315	3315	3315	3315	
5°	3151	3220	3297	3264	3267	293
15°	2752	2816	2906	2924	2926	766
25°	1969	2033	2004	2081	2102	893
35°	916	929	750	906	927	587
45°	374	333	187	300	353	304
55°	200	148	38	133	182	180
65°	92	61	18	56	82	93
75°	31	20	8	18	28	34
85°	5	5	3	3	5	7
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°	3315.2	3315.2	3315.2	3315.2	3315.2	3315.2	3315.2	3315.2	3315.2
2.5°	3235.9	3271.7	3269.1	3299.9	3307.5	3299.9	3279.4	3299.9	3297.3
5°	3151.4	3192.3	3220.5	3271.7	3297.3	3292.2	3264.0	3269.1	3266.6
7.5°	3028.5	3079.7	3128.3	3205.1	3253.8	3251.2	3210.3	3202.6	3192.3
10°	2905.6	2954.3	3010.6	3089.9	3153.9	3164.2	3123.2	3113.0	3107.9
12.5°	2833.9	2872.3	2910.7	2979.9	3036.2	3056.7	3033.6	3036.2	3033.6
15°	2752.0	2790.4	2816.0	2867.2	2905.6	2933.8	2923.5	2938.9	2926.1
17.5°	2629.1	2675.2	2685.5	2723.9	2752.0	2769.9	2780.2	2795.5	2775.1
20°	2462.7	2498.6	2511.4	2526.7	2539.5	2562.6	2593.3	2608.7	2585.6
22.5°	2229.8	2298.9	2296.3	2288.7	2301.5	2309.1	2357.8	2383.4	2365.5
25°	1968.7	2040.3	2032.7	2001.9	2004.5	2019.9	2081.3	2114.6	2101.8
27.5°	1694.7	1761.3	1743.4	1684.5	1669.1	1692.2	1771.5	1809.9	1802.3
30°	1431.1	1474.6	1446.4	1341.5	1323.5	1351.7	1454.1	1492.5	1472.0
32.5°	1146.9	1180.2	1167.4	1039.4	1008.6	1036.8	1157.1	1193.0	1169.9
35°	916.5	947.2	929.3	778.2	750.1	780.8	906.2	947.2	926.7
37.5°	734.7	757.8	734.7	573.4	547.8	578.6	698.9	752.6	727.0
40°	583.7	601.6	570.9	422.4	401.9	417.3	529.9	583.7	565.8
42.5°	460.8	473.6	440.3	309.8	286.7	307.2	399.4	448.0	437.8
45°	373.8	373.8	332.8	215.0	186.9	207.4	299.5	350.7	353.3
47.5°	320.0	312.3	261.1	143.4	107.5	135.7	238.1	291.8	299.5
50°	276.5	266.2	215.0	105.0	69.1	97.3	197.1	250.9	258.6
52.5°	238.1	230.4	179.2	81.9	48.6	74.2	166.4	217.6	225.3
55°	199.7	194.6	148.5	64.0	38.4	56.3	133.1	176.6	181.8
57.5°	163.8	156.2	120.3	53.8	30.7	46.1	110.1	145.9	151.0
60°	138.2	130.6	97.3	43.5	25.6	35.8	89.6	120.3	125.4
62.5°	115.2	107.5	79.4	35.8	20.5	30.7	71.7	97.3	102.4
65°	92.2	87.0	61.4	28.2	17.9	23.0	56.3	76.8	81.9
67.5°	74.2	69.1	48.6	23.0	15.4	17.9	43.5	61.4	66.6
70°	56.3	51.2	35.8	17.9	12.8	15.4	33.3	46.1	51.2
72.5°	41.0	38.4	28.2	15.4	10.2	12.8	23.0	33.3	38.4
75°	30.7	28.2	20.5	10.2	7.7	10.2	17.9	25.6	28.2
77.5°	20.5	20.5	15.4	7.7	7.7	7.7	12.8	17.9	17.9
80°	15.4	12.8	10.2	5.1	5.1	5.1	7.7	12.8	12.8
82.5°	10.2	7.7	7.7	5.1	5.1	5.1	5.1	7.7	7.7
85°	5.1	5.1	5.1	2.6	2.6	2.6	2.6	5.1	5.1
87.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
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)