

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: P857571

Luminaire Tested: **LD4C30D010 EU4309040 4LBMDSWWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857571
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: LD4C30D010 EU4309040 4LBMDSWWH
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH WH FINISH
Light Source: -
Ballast/Driver: -

Summary

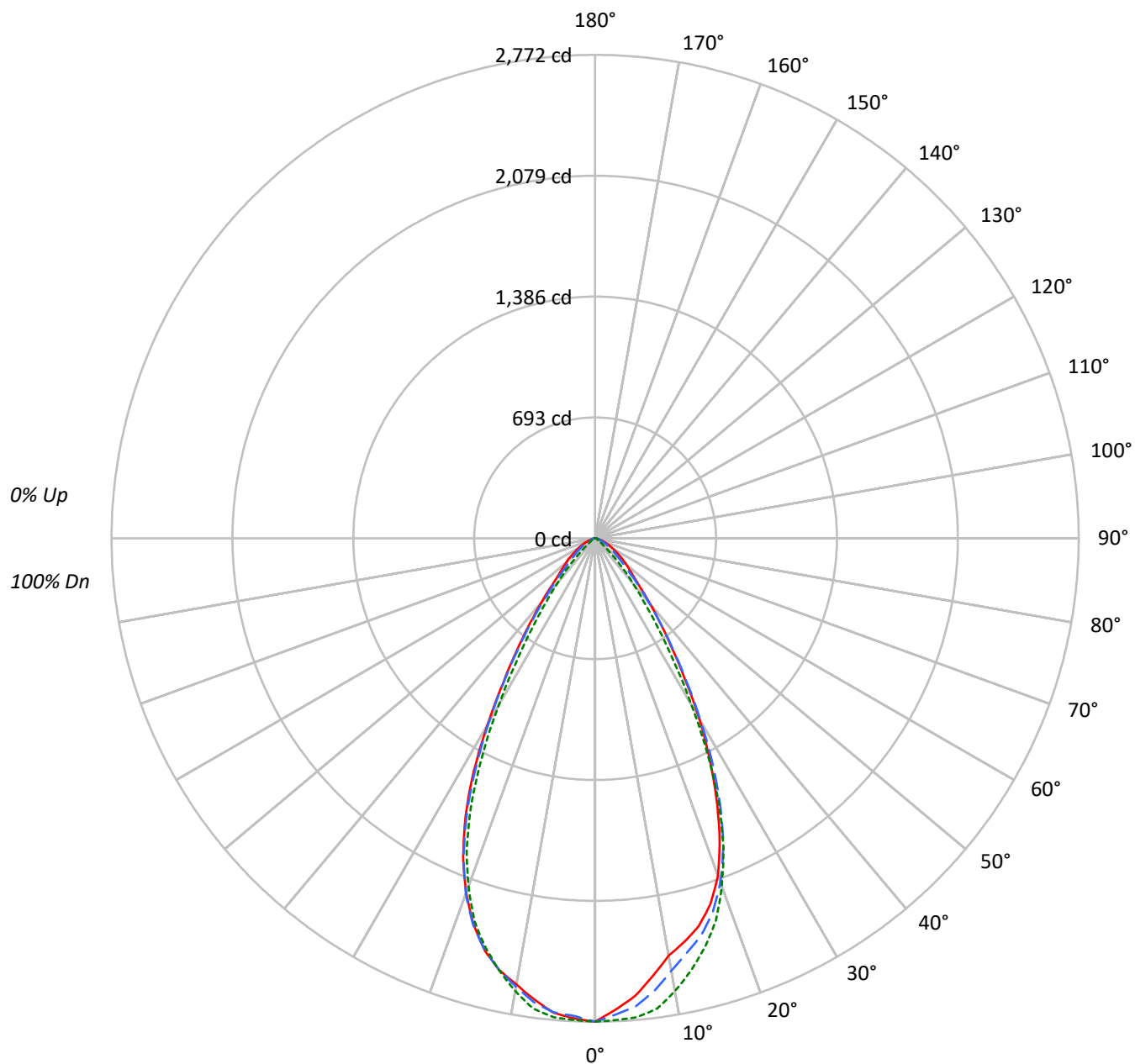
Lumens per Lamp: N/A
Luminaire Lumens: 2523.0 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
Input Voltage (V): NR
Input Current (Ain): 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

TEST NUMBER: P857571

CATALOG NUMBER: LD4C30D010 EU4309040 4LBMDSWWH

Luminous Intensity Polar Plot





TEST NUMBER: P857571

CATALOG NUMBER: LD4C30D010 EU4309040 4LBMDSWWH

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	110	107	105	111	108	105	103	104	102	100		100	99	97		97
2	107	102	97	94	105	100	96	93	97	93	91		94	91	89		91
3	101	94	89	85	99	93	88	84	90	86	83		88	84	81		85
4	96	88	82	77	94	86	81	77	84	80	76		82	78	75		80
5	91	82	75	71	89	81	75	71	79	74	70		77	73	69		76
6	86	76	70	66	84	76	70	65	74	69	65		73	68	64		71
7	81	72	65	61	80	71	65	61	70	64	60		68	64	60		67
8	77	67	61	57	76	67	61	57	66	60	56		65	60	56		64
9	74	63	57	53	72	63	57	53	62	57	53		61	56	53		60
10	70	60	54	50	69	60	54	50	59	53	50		58	53	50		57

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	340488	340488	340488
5°	324894	339939	336770
10°	303027	328925	324110
15°	292607	308951	311126
20°	269163	277557	282590
25°	223094	227148	238182
30°	169706	156967	174572
35°	114912	94050	116187
40°	78262	53886	75857
45°	54294	27138	51306
50°	44169	11047	41321
55°	35748	6875	32535
60°	28404	5258	25775
65°	22384	4360	19913
70°	16918	3843	15374
75°	12199	3038	11155
80°	9056	3042	7570
85°	6061	2960	6061



TEST NUMBER: P857571

CATALOG NUMBER: LD4C30D010 EU4309040 4LBMDSWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.8	10.1
10°-20°	669.5	26.5
20°-30°	768.2	30.4
30°-40°	466.6	18.5
40°-50°	200.0	7.9
50°-60°	95.9	3.8
60°-70°	46.7	1.8
70°-80°	17.3	0.7
80°-90°	4.0	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°	1692.5	67.1
0°-40°	2159.1	85.6
0°-60°	2455.1	97.3
0°-90°	2523.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2523.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2772	2772	2772	2772	2772	
5°	2634	2692	2756	2729	2731	245
15°	2301	2354	2429	2444	2446	641
25°	1646	1699	1676	1740	1757	747
35°	766	777	627	758	775	491
45°	312	278	156	250	295	254
55°	167	124	32	111	152	151
65°	77	51	15	47	68	78
75°	26	17	6	15	24	28
85°	4	4	2	2	4	6
90°	0	0	0	0	0	



TEST NUMBER: P857571

CATALOG NUMBER: LD4C30D010 EU4309040 4LBMDSWWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2771.5	2771.5	2771.5	2771.5	2771.5	2771.5	2771.5	2771.5	2771.5
2.5°	2705.1	2735.1	2733.0	2758.6	2765.1	2758.6	2741.5	2758.6	2756.5
5°	2634.5	2668.8	2692.3	2735.1	2756.5	2752.2	2728.7	2733.0	2730.8
7.5°	2531.8	2574.6	2615.2	2679.5	2720.1	2718.0	2683.7	2677.3	2668.8
10°	2429.1	2469.7	2516.8	2583.1	2636.7	2645.2	2611.0	2602.4	2598.1
12.5°	2369.1	2401.2	2433.3	2491.1	2538.2	2555.3	2536.1	2538.2	2536.1
15°	2300.6	2332.8	2354.2	2397.0	2429.1	2452.6	2444.0	2456.9	2446.2
17.5°	2197.9	2236.4	2245.0	2277.1	2300.6	2315.6	2324.2	2337.0	2319.9
20°	2058.8	2088.8	2099.5	2112.3	2123.0	2142.3	2168.0	2180.8	2161.5
22.5°	1864.1	1921.8	1919.7	1913.3	1924.0	1930.4	1971.1	1992.5	1977.5
25°	1645.8	1705.7	1699.3	1673.6	1675.7	1688.6	1739.9	1767.8	1757.1
27.5°	1416.8	1472.4	1457.4	1408.2	1395.4	1414.6	1481.0	1513.1	1506.7
30°	1196.3	1232.7	1209.2	1121.4	1106.5	1130.0	1215.6	1247.7	1230.6
32.5°	958.8	986.6	975.9	868.9	843.2	866.8	967.3	997.3	978.0
35°	766.2	791.9	776.9	650.6	627.1	652.7	757.6	791.9	774.7
37.5°	614.2	633.5	614.2	479.4	458.0	483.7	584.3	629.2	607.8
40°	488.0	502.9	477.3	353.1	336.0	348.8	443.0	488.0	473.0
42.5°	385.2	395.9	368.1	259.0	239.7	256.8	333.9	374.5	366.0
45°	312.5	312.5	278.2	179.8	156.2	173.4	250.4	293.2	295.3
47.5°	267.5	261.1	218.3	119.8	89.9	113.4	199.0	244.0	250.4
50°	231.1	222.6	179.8	87.7	57.8	81.3	164.8	209.7	216.2
52.5°	199.0	192.6	149.8	68.5	40.7	62.1	139.1	181.9	188.3
55°	166.9	162.7	124.1	53.5	32.1	47.1	111.3	147.7	151.9
57.5°	137.0	130.5	100.6	44.9	25.7	38.5	92.0	122.0	126.3
60°	115.6	109.1	81.3	36.4	21.4	30.0	74.9	100.6	104.9
62.5°	96.3	89.9	66.3	30.0	17.1	25.7	59.9	81.3	85.6
65°	77.0	72.8	51.4	23.5	15.0	19.3	47.1	64.2	68.5
67.5°	62.1	57.8	40.7	19.3	12.8	15.0	36.4	51.4	55.6
70°	47.1	42.8	30.0	15.0	10.7	12.8	27.8	38.5	42.8
72.5°	34.2	32.1	23.5	12.8	8.6	10.7	19.3	27.8	32.1
75°	25.7	23.5	17.1	8.6	6.4	8.6	15.0	21.4	23.5
77.5°	17.1	17.1	12.8	6.4	6.4	6.4	10.7	15.0	15.0
80°	12.8	10.7	8.6	4.3	4.3	4.3	6.4	10.7	10.7
82.5°	8.6	6.4	6.4	4.3	4.3	4.3	4.3	6.4	6.4
85°	4.3	4.3	4.3	2.1	2.1	2.1	2.1	4.3	4.3
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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)