

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: P858097

Luminaire Tested: **LD4C45D010 EU4459027 4LBMDDWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P858097
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: LD4C45D010 EU4459027 4LBMDDWLI
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

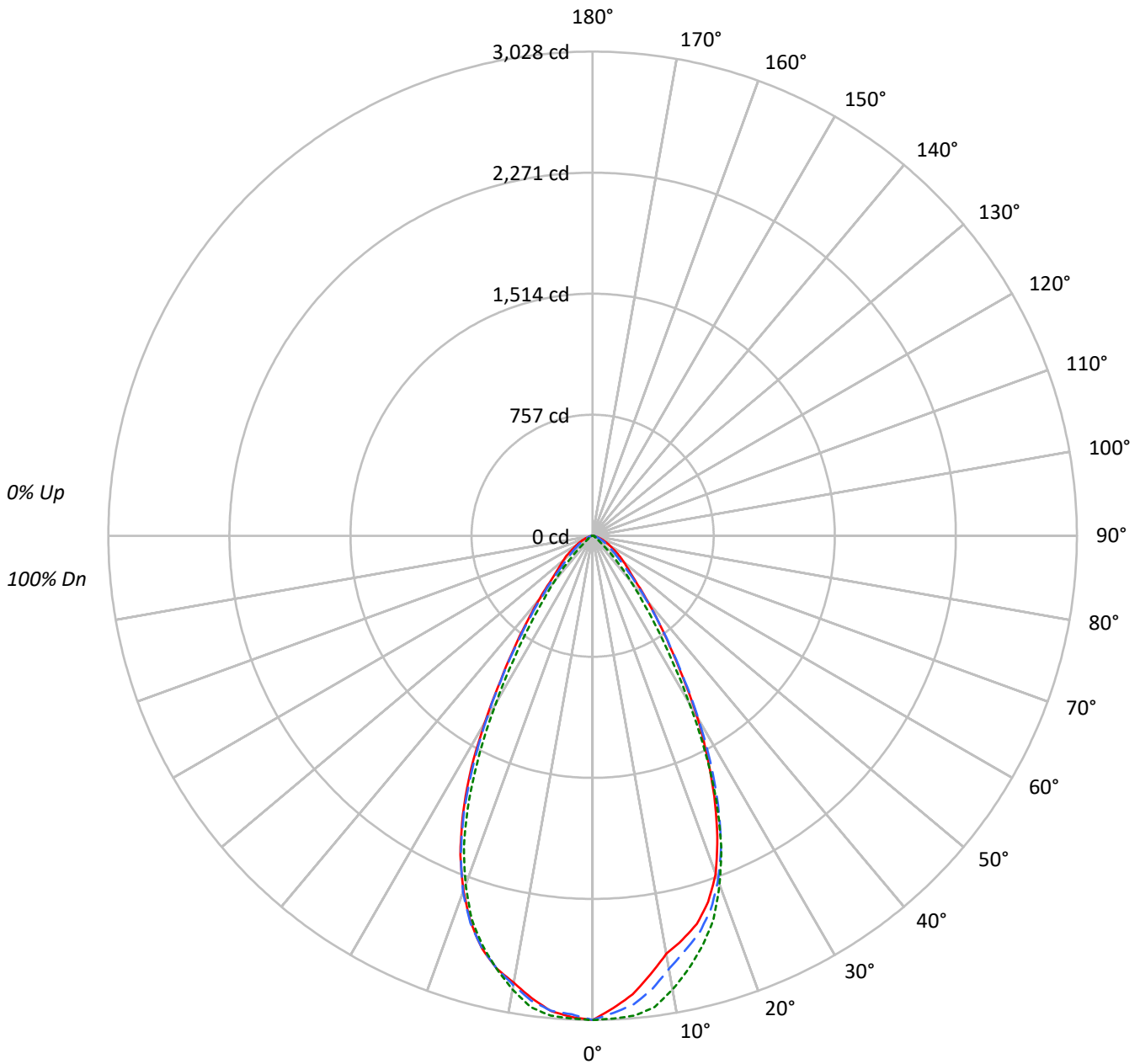
Lumens per Lamp: N/A
Luminaire Lumens: 2757.0 lumens
Efficiency: N/A
Efficacy: 55.6 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
Input Voltage (V): NR
Input Current (A_{in}): 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: P858097

CATALOG NUMBER: LD4C45D010 EU4459027 4LBMDDWLI

Luminous Intensity Polar Plot





TEST NUMBER: P858097

CATALOG NUMBER: LD4C45D010 EU4459027 4LBMDDWLI

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	100	100
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92	92	92	92
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78	78	78	78
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72	72	72	72
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67	67	67	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62	62	62	62
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58	58	58	58
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55	55	55	55
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51	51	51	51
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48	48	48	48

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	372062	372062	372062
5°	355034	371473	368007
10°	331120	359426	354174
15°	319749	337593	339984
20°	294134	303299	308803
25°	243780	248213	260263
30°	185452	171522	190758
35°	125560	102764	126970
40°	85511	58889	82881
45°	59315	29658	56066
50°	48278	12060	45144
55°	39068	7518	35555
60°	31033	5750	28158
65°	24477	4767	21744
70°	18463	4203	16811
75°	13338	3323	12199
80°	9905	3325	8278
85°	6625	3242	6625



TEST NUMBER: P858097

CATALOG NUMBER: LD4C45D010 EU4459027 4LBMDDWLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.4	10.1
10°-20°	731.6	26.5
20°-30°	839.4	30.4
30°-40°	509.9	18.5
40°-50°	218.5	7.9
50°-60°	104.8	3.8
60°-70°	51.0	1.8
70°-80°	18.9	0.7
80°-90°	4.3	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°	1849.5	67.1
0°-40°	2359.4	85.6
0°-60°	2682.7	97.3
0°-90°	2757.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2757.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3028	3028	3028	3028	3028	
5°	2879	2942	3012	2982	2984	267
15°	2514	2572	2654	2671	2673	700
25°	1798	1857	1831	1901	1920	816
35°	837	849	685	828	847	537
45°	341	304	171	274	323	277
55°	182	136	35	122	166	165
65°	84	56	16	51	75	85
75°	28	19	7	16	26	31
85°	5	5	2	2	5	6
90°	0	0	0	0	0	



TEST NUMBER: P858097

CATALOG NUMBER: LD4C45D010 EU4459027 4LBMDDWLI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	3028.5	3028.5	3028.5	3028.5	3028.5	3028.5	3028.5	3028.5	3028.5
2.5°	2956.0	2988.8	2986.4	3014.5	3021.5	3014.5	2995.8	3014.5	3012.2
5°	2878.9	2916.3	2942.0	2988.8	3012.2	3007.5	2981.8	2986.4	2984.1
7.5°	2766.6	2813.4	2857.8	2928.0	2972.4	2970.1	2932.6	2925.6	2916.3
10°	2654.3	2698.8	2750.2	2822.7	2881.2	2890.5	2853.1	2843.8	2839.1
12.5°	2588.9	2623.9	2659.0	2722.2	2773.6	2792.3	2771.3	2773.6	2771.3
15°	2514.0	2549.1	2572.5	2619.3	2654.3	2680.1	2670.7	2684.7	2673.1
17.5°	2401.8	2443.9	2453.2	2488.3	2514.0	2530.4	2539.8	2553.8	2535.1
20°	2249.8	2282.5	2294.2	2308.2	2319.9	2341.0	2369.0	2383.1	2362.0
22.5°	2036.9	2100.1	2097.8	2090.7	2102.4	2109.4	2153.9	2177.3	2160.9
25°	1798.4	1863.9	1856.9	1828.8	1831.1	1845.2	1901.3	1931.7	1920.0
27.5°	1548.2	1609.0	1592.6	1538.8	1524.8	1545.8	1618.3	1653.4	1646.4
30°	1307.3	1347.1	1321.3	1225.4	1209.1	1234.8	1328.3	1363.4	1344.7
32.5°	1047.7	1078.1	1066.4	949.5	921.4	947.1	1057.1	1089.8	1068.8
35°	837.2	865.3	848.9	710.9	685.2	713.3	827.9	865.3	846.6
37.5°	671.2	692.2	671.2	523.9	500.5	528.5	638.4	687.6	664.2
40°	533.2	549.6	521.5	385.9	367.2	381.2	484.1	533.2	516.8
42.5°	421.0	432.6	402.2	283.0	261.9	280.6	364.8	409.3	399.9
45°	341.4	341.4	304.0	196.4	170.7	189.4	273.6	320.4	322.7
47.5°	292.3	285.3	238.5	131.0	98.2	123.9	217.5	266.6	273.6
50°	252.6	243.2	196.4	95.9	63.1	88.9	180.1	229.2	236.2
52.5°	217.5	210.5	163.7	74.8	44.4	67.8	152.0	198.8	205.8
55°	182.4	177.7	135.6	58.5	35.1	51.4	121.6	161.4	166.0
57.5°	149.7	142.7	109.9	49.1	28.1	42.1	100.6	133.3	138.0
60°	126.3	119.3	88.9	39.8	23.4	32.7	81.9	109.9	114.6
62.5°	105.2	98.2	72.5	32.7	18.7	28.1	65.5	88.9	93.5
65°	84.2	79.5	56.1	25.7	16.4	21.0	51.4	70.2	74.8
67.5°	67.8	63.1	44.4	21.0	14.0	16.4	39.8	56.1	60.8
70°	51.4	46.8	32.7	16.4	11.7	14.0	30.4	42.1	46.8
72.5°	37.4	35.1	25.7	14.0	9.4	11.7	21.0	30.4	35.1
75°	28.1	25.7	18.7	9.4	7.0	9.4	16.4	23.4	25.7
77.5°	18.7	18.7	14.0	7.0	7.0	7.0	11.7	16.4	16.4
80°	14.0	11.7	9.4	4.7	4.7	4.7	7.0	11.7	11.7
82.5°	9.4	7.0	7.0	4.7	4.7	4.7	4.7	7.0	7.0
85°	4.7	4.7	4.7	2.3	2.3	2.3	2.3	4.7	4.7
87.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
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)