

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: P858138

Luminaire Tested: **LD4C45D010 EU4459035 4LBMDDWLI**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P858138
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 EU4459035 4LBMDDWLI
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

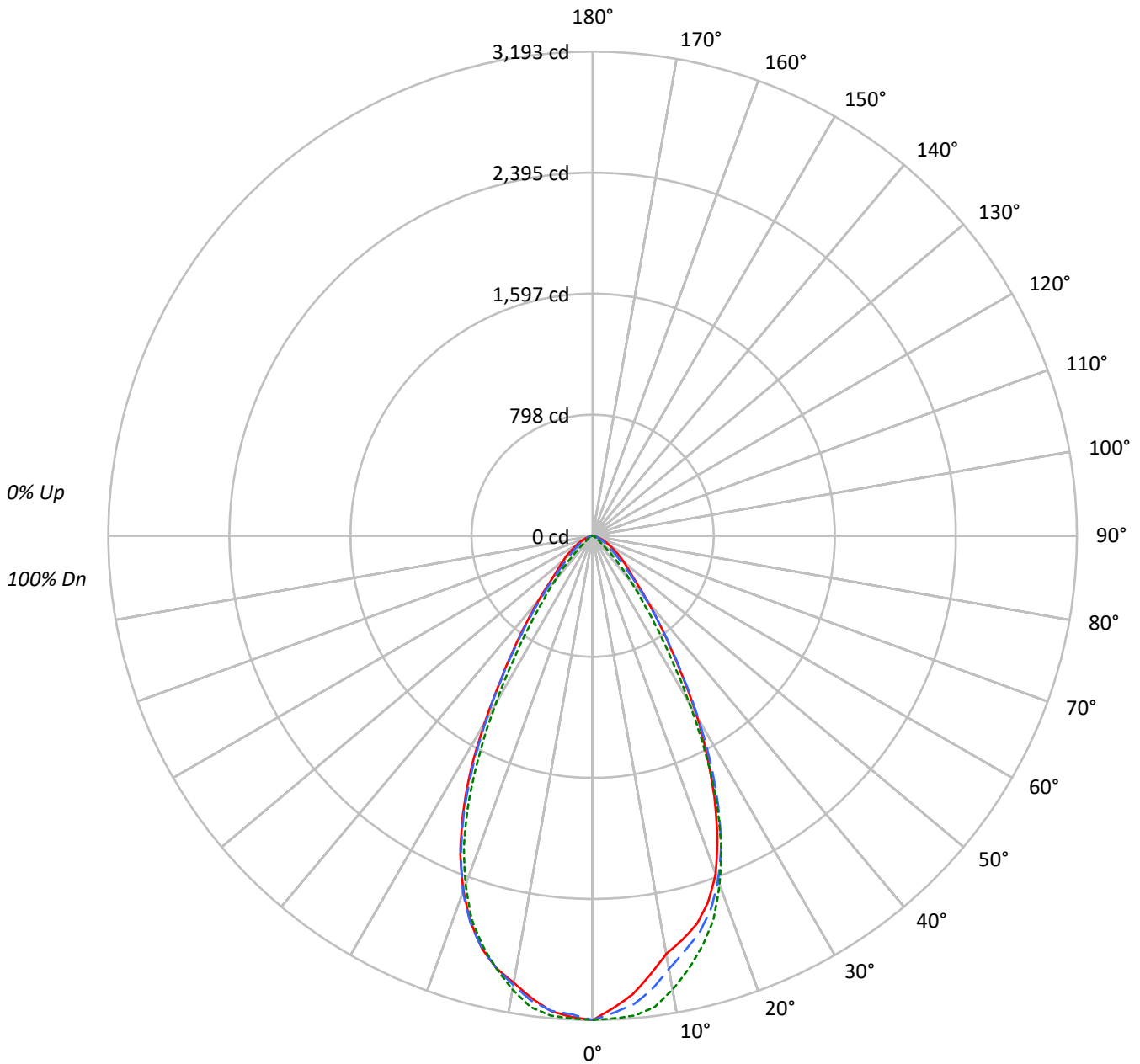
Lumens per Lamp: N/A
Luminaire Lumens: 2907.0 lumens
Efficiency: N/A
Efficacy: 58.6 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
Input Voltage (V): NR
Input Current (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: P858138

CATALOG NUMBER: LD4C45D010 EU4459035 4LBMDDWLI

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°	392308	392308	392308
5°	374346	391673	388023
10°	349147	378974	373448
15°	337148	355972	358477
20°	310137	319798	325603
25°	257051	261727	274429
30°	195538	180856	201142
35°	132399	108358	133869
40°	90162	62081	87404
45°	62547	31273	59124
50°	50897	12729	47610
55°	41188	7925	37504
60°	32728	6069	29681
65°	25814	5029	22936
70°	19469	4418	17709
75°	14050	3513	12864
80°	10471	3467	8702
85°	6907	3524	6907



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.6	10.1
10°-20°	771.4	26.5
20°-30°	885.1	30.4
30°-40°	537.7	18.5
40°-50°	230.4	7.9
50°-60°	110.5	3.8
60°-70°	53.7	1.8
70°-80°	19.9	0.7
80°-90°	4.6	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°	1950.1	67.1
0°-40°	2487.7	85.6
0°-60°	2828.7	97.3
0°-90°	2907.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2907.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3193	3193	3193	3193	3193	
5°	3036	3102	3176	3144	3146	282
15°	2651	2712	2799	2816	2818	738
25°	1896	1958	1931	2005	2024	860
35°	883	895	722	873	893	566
45°	360	321	180	288	340	292
55°	192	143	37	128	175	174
65°	89	59	17	54	79	90
75°	30	20	7	17	27	32
85°	5	5	2	2	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°	3193.3	3193.3	3193.3	3193.3	3193.3	3193.3	3193.3	3193.3	3193.3
2.5°	3116.9	3151.4	3148.9	3178.5	3185.9	3178.5	3158.8	3178.5	3176.0
5°	3035.5	3074.9	3102.1	3151.4	3176.0	3171.1	3144.0	3148.9	3146.4
7.5°	2917.1	2966.4	3013.3	3087.3	3134.1	3131.7	3092.2	3084.8	3074.9
10°	2798.8	2845.6	2899.9	2976.3	3037.9	3047.8	3008.4	2998.5	2993.6
12.5°	2729.7	2766.7	2803.7	2870.3	2924.5	2944.2	2922.1	2924.5	2922.1
15°	2650.8	2687.8	2712.5	2761.8	2798.8	2825.9	2816.0	2830.8	2818.5
17.5°	2532.4	2576.8	2586.7	2623.7	2650.8	2668.1	2677.9	2692.7	2673.0
20°	2372.2	2406.7	2419.0	2433.8	2446.1	2468.3	2497.9	2512.7	2490.5
22.5°	2147.8	2214.3	2211.9	2204.5	2216.8	2224.2	2271.1	2295.7	2278.5
25°	1896.3	1965.3	1957.9	1928.3	1930.8	1945.6	2004.7	2036.8	2024.5
27.5°	1632.4	1696.5	1679.3	1622.5	1607.7	1629.9	1706.4	1743.4	1736.0
30°	1378.4	1420.3	1393.2	1292.1	1274.9	1302.0	1400.6	1437.6	1417.9
32.5°	1104.7	1136.8	1124.4	1001.1	971.6	998.7	1114.6	1149.1	1126.9
35°	882.8	912.4	895.1	749.6	722.5	752.1	872.9	912.4	892.6
37.5°	707.7	729.9	707.7	552.4	527.7	557.3	673.2	725.0	700.3
40°	562.2	579.5	549.9	406.9	387.1	401.9	510.4	562.2	545.0
42.5°	443.9	456.2	424.1	298.4	276.2	295.9	384.7	431.5	421.7
45°	360.0	360.0	320.6	207.1	180.0	199.7	288.5	337.8	340.3
47.5°	308.2	300.8	251.5	138.1	103.6	130.7	229.3	281.1	288.5
50°	266.3	256.5	207.1	101.1	66.6	93.7	189.9	241.7	249.1
52.5°	229.3	221.9	172.6	78.9	46.9	71.5	160.3	209.6	217.0
55°	192.3	187.4	143.0	61.6	37.0	54.2	128.2	170.1	175.1
57.5°	157.8	150.4	115.9	51.8	29.6	44.4	106.0	140.6	145.5
60°	133.2	125.8	93.7	41.9	24.7	34.5	86.3	115.9	120.8
62.5°	111.0	103.6	76.4	34.5	19.7	29.6	69.0	93.7	98.6
65°	88.8	83.8	59.2	27.1	17.3	22.2	54.2	74.0	78.9
67.5°	71.5	66.6	46.9	22.2	14.8	17.3	41.9	59.2	64.1
70°	54.2	49.3	34.5	17.3	12.3	14.8	32.1	44.4	49.3
72.5°	39.5	37.0	27.1	14.8	9.9	12.3	22.2	32.1	37.0
75°	29.6	27.1	19.7	9.9	7.4	9.9	17.3	24.7	27.1
77.5°	19.7	19.7	14.8	7.4	7.4	7.4	12.3	17.3	17.3
80°	14.8	12.3	9.9	4.9	4.9	4.9	7.4	12.3	12.3
82.5°	9.9	7.4	7.4	4.9	4.9	4.9	4.9	7.4	7.4
85°	4.9	4.9	4.9	2.5	2.5	2.5	2.5	4.9	4.9
87.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
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)