

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: P858118

Luminaire Tested: **LD4C45D010 EU4459030 4LBMDSWGPH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P858118
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 EU4459030 4LBMDSWGPH
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

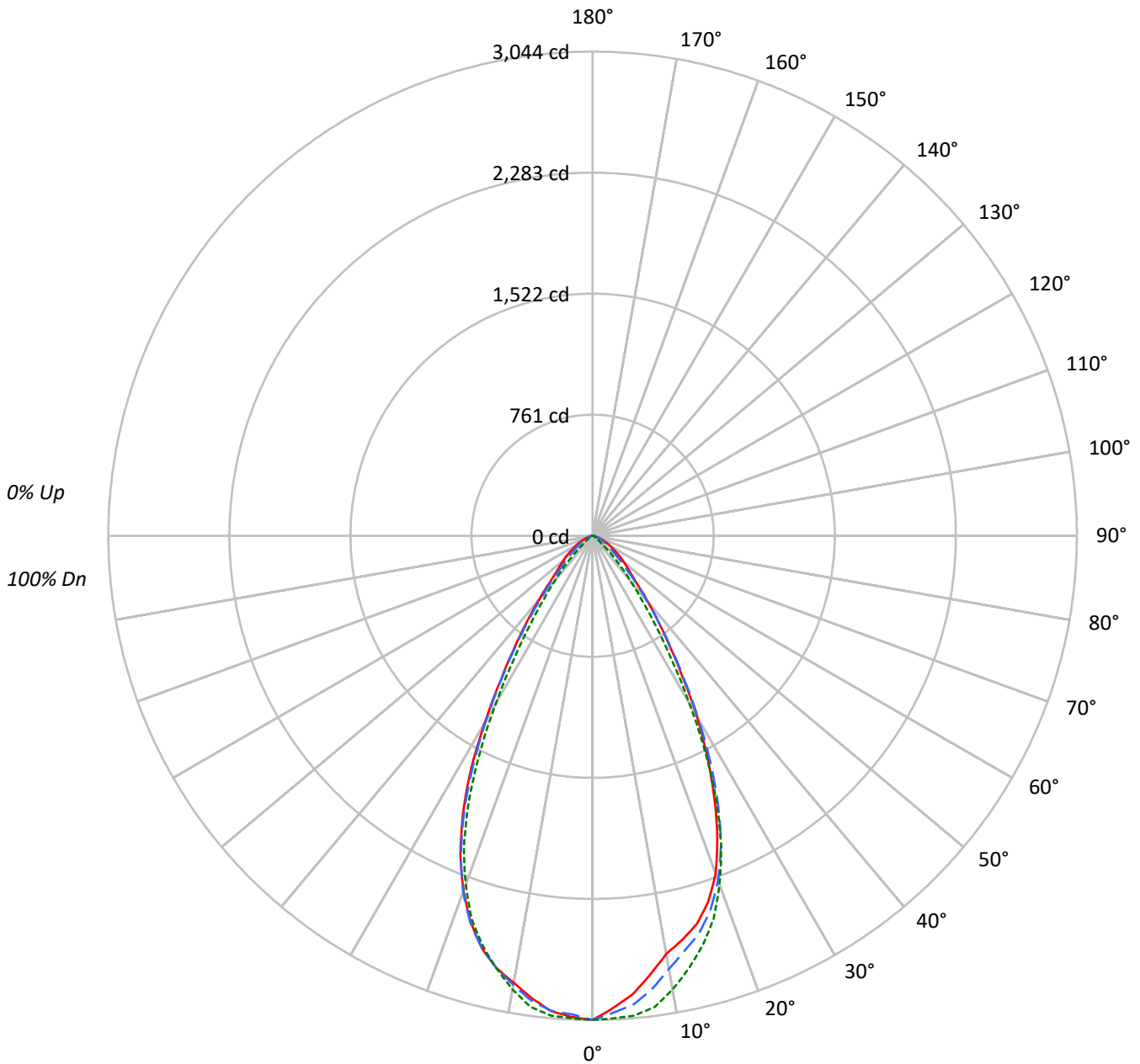
Lumens per Lamp: N/A
Luminaire Lumens: 2771.1 lumens
Efficiency: N/A
Efficacy: 55.9 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P858118

CATALOG NUMBER: LD4C45D010 EU4459030 4LBMDSWGPB

Luminous Intensity Polar Plot





TEST NUMBER: P858118

CATALOG NUMBER: LD4C45D010 EU4459030 4LBMDSWGPH

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°	373954	373954	373954
5°	356834	373347	369870
10°	332805	361247	355970
15°	321377	339310	341701
20°	295625	304842	310372
25°	245014	249473	261592
30°	186389	172387	191722
35°	126205	103289	127615
40°	85944	59178	83314
45°	59628	29814	56362
50°	48527	12137	45373
55°	39261	7561	35748
60°	31180	5774	28305
65°	24593	4796	21860
70°	18571	4239	16882
75°	13386	3370	12294
80°	9976	3325	8348
85°	6625	3383	6625



TEST NUMBER: P858118

CATALOG NUMBER: LD4C45D010 EU4459030 4LBMDSWGPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.9	10.1
10°-20°	735.3	26.5
20°-30°	843.7	30.4
30°-40°	512.5	18.5
40°-50°	219.7	7.9
50°-60°	105.4	3.8
60°-70°	51.2	1.8
70°-80°	19.0	0.7
80°-90°	4.4	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°	1858.8	67.1
0°-40°	2371.4	85.6
0°-60°	2696.4	97.3
0°-90°	2771.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2771.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3044	3044	3044	3044	3044	
5°	2894	2957	3027	2997	2999	269
15°	2527	2586	2668	2684	2687	703
25°	1808	1866	1840	1911	1930	820
35°	842	853	689	832	851	539
45°	343	306	172	275	324	279
55°	183	136	35	122	167	165
65°	85	56	16	52	75	86
75°	28	19	7	16	26	31
85°	5	5	2	2	5	6
90°	0	0	0	0	0	



TEST NUMBER: P858118

CATALOG NUMBER: LD4C45D010 EU4459030 4LBMDSWGPB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	3043.9	3043.9	3043.9	3043.9	3043.9	3043.9	3043.9	3043.9	3043.9
2.5°	2971.0	3003.9	3001.6	3029.8	3036.9	3029.8	3011.0	3029.8	3027.4
5°	2893.5	2931.1	2956.9	3003.9	3027.4	3022.7	2996.9	3001.6	2999.2
7.5°	2780.6	2827.7	2872.3	2942.8	2987.5	2985.1	2947.5	2940.5	2931.1
10°	2667.8	2712.5	2764.2	2837.1	2895.8	2905.2	2867.6	2858.2	2853.5
12.5°	2602.0	2637.3	2672.5	2736.0	2787.7	2806.5	2785.3	2787.7	2785.3
15°	2526.8	2562.0	2585.6	2632.6	2667.8	2693.7	2684.3	2698.4	2686.6
17.5°	2414.0	2456.3	2465.7	2500.9	2526.8	2543.2	2552.6	2566.8	2547.9
20°	2261.2	2294.1	2305.8	2319.9	2331.7	2352.9	2381.1	2395.2	2374.0
22.5°	2047.3	2110.8	2108.4	2101.4	2113.1	2120.2	2164.8	2188.3	2171.9
25°	1807.5	1873.4	1866.3	1838.1	1840.4	1854.5	1911.0	1941.5	1929.8
27.5°	1556.0	1617.1	1600.7	1546.6	1532.5	1553.7	1626.5	1661.8	1654.8
30°	1313.9	1353.9	1328.0	1231.7	1215.2	1241.1	1335.1	1370.3	1351.5
32.5°	1053.0	1083.6	1071.8	954.3	926.1	952.0	1062.4	1095.3	1074.2
35°	841.5	869.7	853.2	714.6	688.7	716.9	832.1	869.7	850.9
37.5°	674.6	695.7	674.6	526.5	503.0	531.2	641.7	691.0	667.5
40°	535.9	552.4	524.2	387.8	369.0	383.1	486.6	535.9	519.5
42.5°	423.1	434.8	404.3	284.4	263.3	282.1	366.7	411.3	401.9
45°	343.2	343.2	305.6	197.4	171.6	190.4	275.0	322.0	324.4
47.5°	293.8	286.8	239.8	131.6	98.7	124.6	218.6	268.0	275.0
50°	253.9	244.5	197.4	96.4	63.5	89.3	181.0	230.3	237.4
52.5°	218.6	211.5	164.5	75.2	44.7	68.2	152.8	199.8	206.8
55°	183.3	178.6	136.3	58.8	35.3	51.7	122.2	162.2	166.9
57.5°	150.4	143.4	110.5	49.4	28.2	42.3	101.1	134.0	138.7
60°	126.9	119.9	89.3	40.0	23.5	32.9	82.3	110.5	115.2
62.5°	105.8	98.7	72.9	32.9	18.8	28.2	65.8	89.3	94.0
65°	84.6	79.9	56.4	25.9	16.5	21.2	51.7	70.5	75.2
67.5°	68.2	63.5	44.7	21.2	14.1	16.5	40.0	56.4	61.1
70°	51.7	47.0	32.9	16.5	11.8	14.1	30.6	42.3	47.0
72.5°	37.6	35.3	25.9	14.1	9.4	11.8	21.2	30.6	35.3
75°	28.2	25.9	18.8	9.4	7.1	9.4	16.5	23.5	25.9
77.5°	18.8	18.8	14.1	7.1	7.1	7.1	11.8	16.5	16.5
80°	14.1	11.8	9.4	4.7	4.7	4.7	7.1	11.8	11.8
82.5°	9.4	7.1	7.1	4.7	4.7	4.7	4.7	7.1	7.1
85°	4.7	4.7	4.7	2.4	2.4	2.4	2.4	4.7	4.7
87.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
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)