

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: P856688

Luminaire Tested: **LD4C10D010 EU4109027 4LBMDSWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P856688
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-1)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C10D010 EU4109027 4LBMDSWLI
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

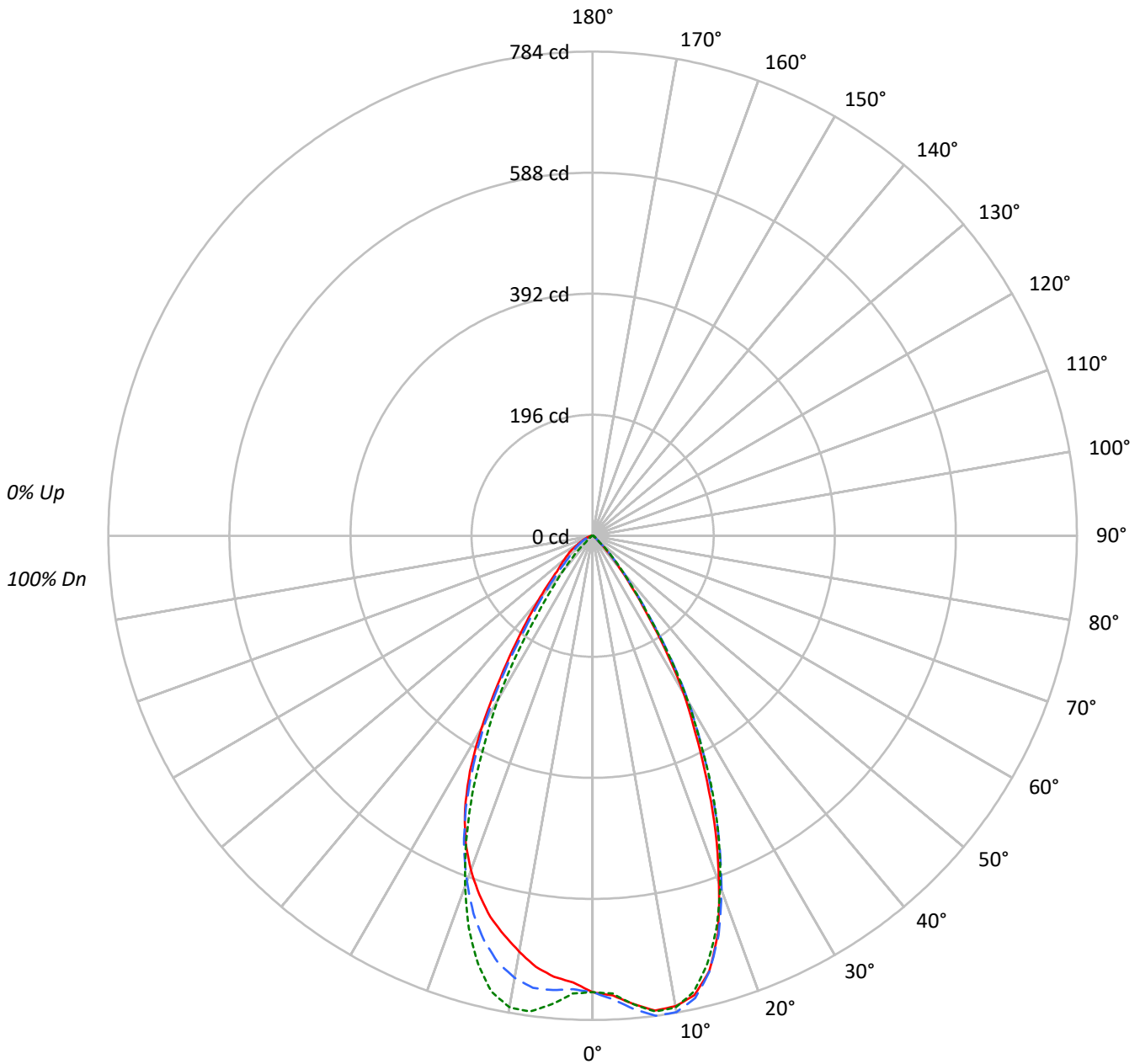
Lumens per Lamp: N/A
Luminaire Lumens: 657.0 lumens
Efficiency: N/A
Efficacy: 67.0 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.8
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: P856688

CATALOG NUMBER: LD4C10D010 EU4109027 4LBMDSWLI

Luminous Intensity Polar Plot





TEST NUMBER: P856688

CATALOG NUMBER: LD4C10D010 EU4109027 4LBMDSWLI

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	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93																			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87																			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80																			
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75																			
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70																			
6	88	79	73	68	86	78	72	68	76	71	68	75	71	67	74	70	67	65																			
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61																			
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58																			
9	76	66	60	56	75	66	60	56	65	60	56	64	59	56	63	59	56	54																			
10	72	63	57	53	71	62	57	53	61	56	53	61	56	53	60	56	52	51																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	90789	90789	90789
5°	93873	93935	88385
10°	96481	96730	85303
15°	92834	91219	81311
20°	78168	78887	75318
25°	59373	62395	66299
30°	41763	43480	51012
35°	22526	23591	33760
40°	10873	12012	21907
45°	3874	5264	14229
50°	1453	1835	11410
55°	1092	1307	9424
60°	860	983	6831
65°	727	872	5291
70°	539	718	4167
75°	475	712	3133
80°	354	707	2122
85°	0	705	1410



TEST NUMBER: P856688

CATALOG NUMBER: LD4C10D010 EU4109027 4LBMDSWLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.9	11.0
10°-20°	194.1	29.5
20°-30°	210.6	32.0
30°-40°	116.8	17.8
40°-50°	37.2	5.7
50°-60°	15.0	2.3
60°-70°	7.6	1.2
70°-80°	3.1	0.5
80°-90°	0.6	0.1
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°	476.6	72.5
0°-40°	593.4	90.3
0°-60°	645.6	98.3
0°-90°	657.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	657.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	739	739	739	739	739	
5°	761	769	762	738	717	73
15°	730	730	717	679	639	200
25°	438	456	460	485	489	200
35°	150	162	157	208	225	100
45°	22	26	30	68	82	21
55°	5	5	6	32	44	5
65°	2	2	3	15	18	2
75°	1	1	2	5	7	1
85°	0	0	0	1	1	0
90°	0	0	0	0	0	



TEST NUMBER: P856688

CATALOG NUMBER: LD4C10D010 EU4109027 4LBMDSWLI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0
2.5°	745.0	751.6	751.1	746.1	742.0	740.5	734.9	728.4	723.8
5°	761.2	769.3	769.3	765.3	761.7	753.1	738.5	724.3	716.7
7.5°	775.4	783.5	784.0	781.0	776.9	762.7	738.5	715.7	704.1
10°	773.4	779.4	783.0	779.9	775.4	756.7	726.8	696.5	683.8
12.5°	761.7	767.3	766.8	762.2	756.2	737.0	707.6	676.3	662.1
15°	729.9	732.9	730.4	725.3	717.2	702.6	678.8	652.0	639.3
17.5°	674.7	678.8	677.8	669.7	666.6	652.5	641.4	620.6	609.5
20°	597.9	610.5	610.5	604.4	603.4	593.8	595.3	584.2	576.1
22.5°	520.5	531.6	535.1	532.6	534.6	530.1	544.2	541.2	537.2
25°	438.0	449.2	456.2	455.2	460.3	460.3	485.1	491.1	489.1
27.5°	360.6	371.3	379.4	381.4	378.3	383.9	417.8	429.9	429.9
30°	294.4	303.0	310.6	310.6	306.5	310.6	346.5	360.6	359.6
32.5°	219.5	229.1	236.2	235.2	231.7	237.2	275.2	289.3	285.8
35°	150.2	156.8	162.4	160.3	157.3	166.4	207.9	225.6	225.1
37.5°	101.7	107.7	111.3	109.8	108.7	119.4	157.3	177.0	176.0
40°	67.8	71.8	74.4	73.8	74.9	84.0	118.4	136.6	136.6
42.5°	43.0	45.5	48.1	48.1	50.6	60.2	90.0	105.7	105.7
45°	22.3	23.8	26.3	27.8	30.3	40.5	67.8	80.9	81.9
47.5°	10.6	11.1	12.1	12.6	14.7	25.3	52.1	66.3	69.3
50°	7.6	8.1	8.1	8.1	9.6	19.2	44.0	57.2	59.7
52.5°	6.1	6.1	6.1	6.6	7.6	16.2	37.9	49.6	51.6
55°	5.1	5.1	5.1	5.1	6.1	13.2	32.4	42.5	44.0
57.5°	4.0	4.0	4.0	4.0	5.1	10.6	26.8	33.9	34.4
60°	3.5	3.5	3.5	3.5	4.0	9.1	21.7	27.8	27.8
62.5°	3.0	3.0	3.0	3.0	3.5	7.6	18.2	22.8	22.3
65°	2.5	2.5	2.5	2.5	3.0	6.1	14.7	18.2	18.2
67.5°	2.0	2.0	2.0	2.0	2.5	5.1	11.6	14.7	14.7
70°	1.5	1.5	1.5	1.5	2.0	4.0	9.6	11.6	11.6
72.5°	1.5	1.5	1.5	1.5	1.5	3.0	7.1	9.1	8.6
75°	1.0	1.0	1.0	1.0	1.5	2.5	5.1	6.6	6.6
77.5°	1.0	1.0	1.0	1.0	1.0	2.0	4.0	4.6	4.6
80°	0.5	0.5	0.5	0.5	1.0	1.5	2.5	3.0	3.0
82.5°	0.0	0.5	0.0	0.5	0.5	1.0	2.0	2.0	2.0
85°	0.0	0.0	0.0	0.0	0.5	0.5	1.0	1.5	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
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)