

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: P856685

Luminaire Tested: **LD4C10D010 EU4109027 4LBMDDWLI**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P856685
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: LD4C10D010 EU4109027 4LBMDDWLI
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

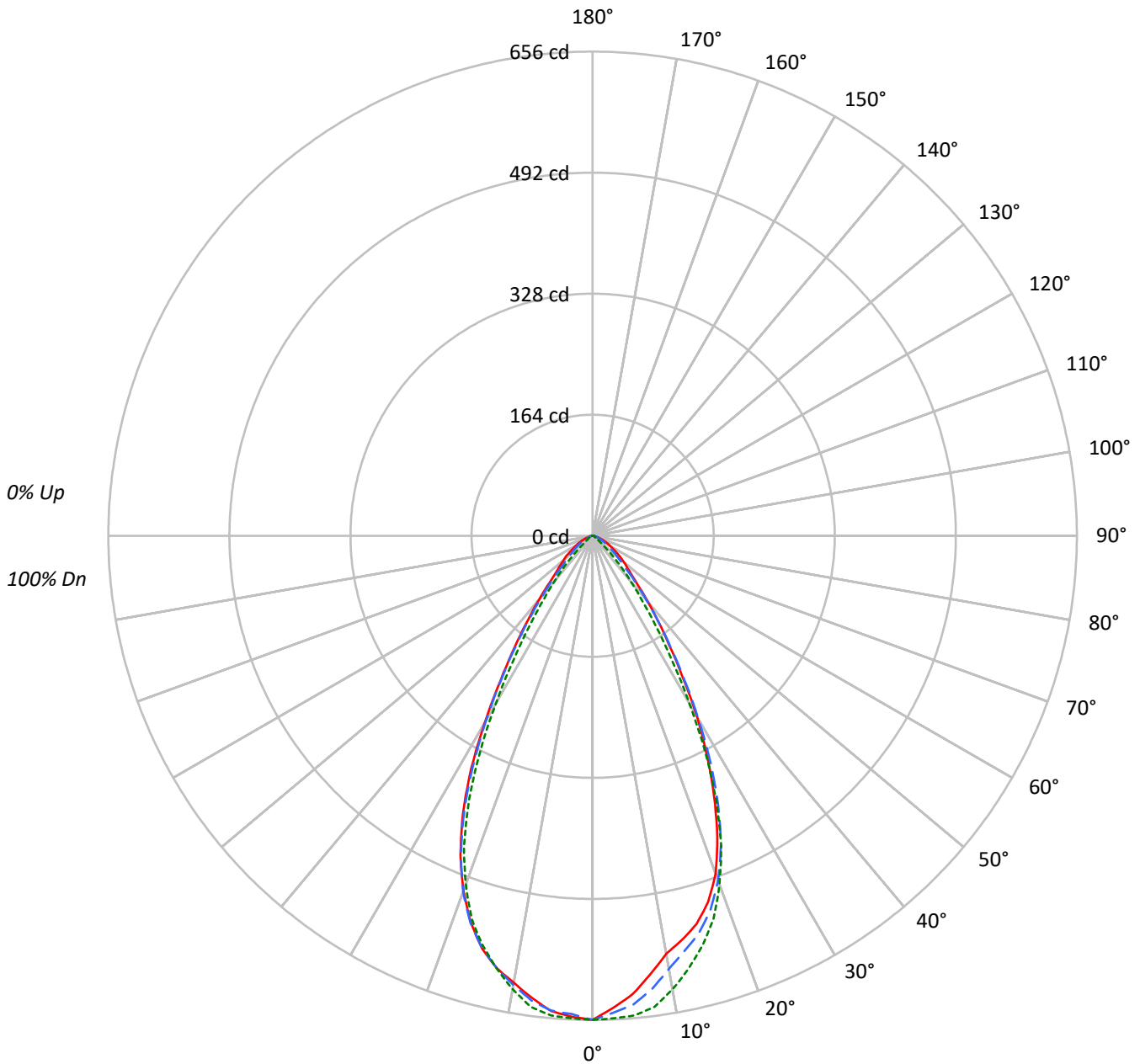
Lumens per Lamp: N/A
Luminaire Lumens: 597.0 lumens
Efficiency: N/A
Efficacy: 60.9 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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°	80567	80567	80567
5°	76879	80443	79691
10°	71706	77831	76695
15°	69241	73107	73616
20°	63696	65683	66872
25°	52785	53747	56363
30°	40160	37139	41309
35°	27191	22256	27491
40°	18523	12750	17946
45°	12839	6428	12144
50°	10455	2618	9767
55°	8460	1628	7711
60°	6708	1253	6094
65°	5291	1017	4709
70°	3987	898	3628
75°	2895	712	2658
80°	2122	707	1769
85°	1410	705	1410



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.3	10.1
10°-20°	158.4	26.5
20°-30°	181.8	30.4
30°-40°	110.4	18.5
40°-50°	47.3	7.9
50°-60°	22.7	3.8
60°-70°	11.0	1.8
70°-80°	4.1	0.7
80°-90°	0.9	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°	400.5	67.1
0°-40°	510.9	85.6
0°-60°	580.9	97.3
0°-90°	597.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	597.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	656	656	656	656	656	
5°	623	637	652	646	646	58
15°	544	557	575	578	579	152
25°	389	402	396	412	416	177
35°	181	184	148	179	183	116
45°	74	66	37	59	70	60
55°	40	29	8	26	36	36
65°	18	12	4	11	16	18
75°	6	4	2	4	6	7
85°	1	1	0	0	1	1
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°	655.8	655.8	655.8	655.8	655.8	655.8	655.8	655.8	655.8
2.5°	640.1	647.2	646.7	652.8	654.3	652.8	648.7	652.8	652.3
5°	623.4	631.5	637.1	647.2	652.3	651.2	645.7	646.7	646.2
7.5°	599.1	609.2	618.8	634.0	643.6	643.1	635.0	633.5	631.5
10°	574.8	584.4	595.5	611.2	623.9	625.9	617.8	615.8	614.8
12.5°	560.6	568.2	575.8	589.5	600.6	604.6	600.1	600.6	600.1
15°	544.4	552.0	557.0	567.2	574.8	580.3	578.3	581.4	578.8
17.5°	520.1	529.2	531.2	538.8	544.4	547.9	550.0	553.0	548.9
20°	487.2	494.3	496.8	499.8	502.4	506.9	513.0	516.0	511.5
22.5°	441.1	454.8	454.2	452.7	455.3	456.8	466.4	471.5	467.9
25°	389.4	403.6	402.1	396.0	396.5	399.6	411.7	418.3	415.8
27.5°	335.2	348.4	344.9	333.2	330.2	334.7	350.4	358.0	356.5
30°	283.1	291.7	286.1	265.4	261.8	267.4	287.6	295.2	291.2
32.5°	226.9	233.5	230.9	205.6	199.5	205.1	228.9	236.0	231.4
35°	181.3	187.4	183.8	153.9	148.4	154.5	179.3	187.4	183.3
37.5°	145.3	149.9	145.3	113.4	108.4	114.4	138.2	148.9	143.8
40°	115.5	119.0	112.9	83.6	79.5	82.5	104.8	115.5	111.9
42.5°	91.2	93.7	87.1	61.3	56.7	60.8	79.0	88.6	86.6
45°	73.9	73.9	65.8	42.5	37.0	41.0	59.2	69.4	69.9
47.5°	63.3	61.8	51.7	28.4	21.3	26.8	47.1	57.7	59.2
50°	54.7	52.7	42.5	20.8	13.7	19.2	39.0	49.6	51.1
52.5°	47.1	45.6	35.4	16.2	9.6	14.7	32.9	43.0	44.6
55°	39.5	38.5	29.4	12.7	7.6	11.1	26.3	34.9	36.0
57.5°	32.4	30.9	23.8	10.6	6.1	9.1	21.8	28.9	29.9
60°	27.3	25.8	19.2	8.6	5.1	7.1	17.7	23.8	24.8
62.5°	22.8	21.3	15.7	7.1	4.1	6.1	14.2	19.2	20.3
65°	18.2	17.2	12.2	5.6	3.5	4.6	11.1	15.2	16.2
67.5°	14.7	13.7	9.6	4.6	3.0	3.5	8.6	12.2	13.2
70°	11.1	10.1	7.1	3.5	2.5	3.0	6.6	9.1	10.1
72.5°	8.1	7.6	5.6	3.0	2.0	2.5	4.6	6.6	7.6
75°	6.1	5.6	4.1	2.0	1.5	2.0	3.5	5.1	5.6
77.5°	4.1	4.1	3.0	1.5	1.5	1.5	2.5	3.5	3.5
80°	3.0	2.5	2.0	1.0	1.0	1.0	1.5	2.5	2.5
82.5°	2.0	1.5	1.5	1.0	1.0	1.0	1.0	1.5	1.5
85°	1.0	1.0	1.0	0.5	0.5	0.5	0.5	1.0	1.0
87.5°	0.5	0.5	0.5	0.5	0.5	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)