

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: P856758

Luminaire Tested: **LD4C10D010 EU4109040 4LBMDSWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P856758
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 EU4109040 4LBMDSWLI
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

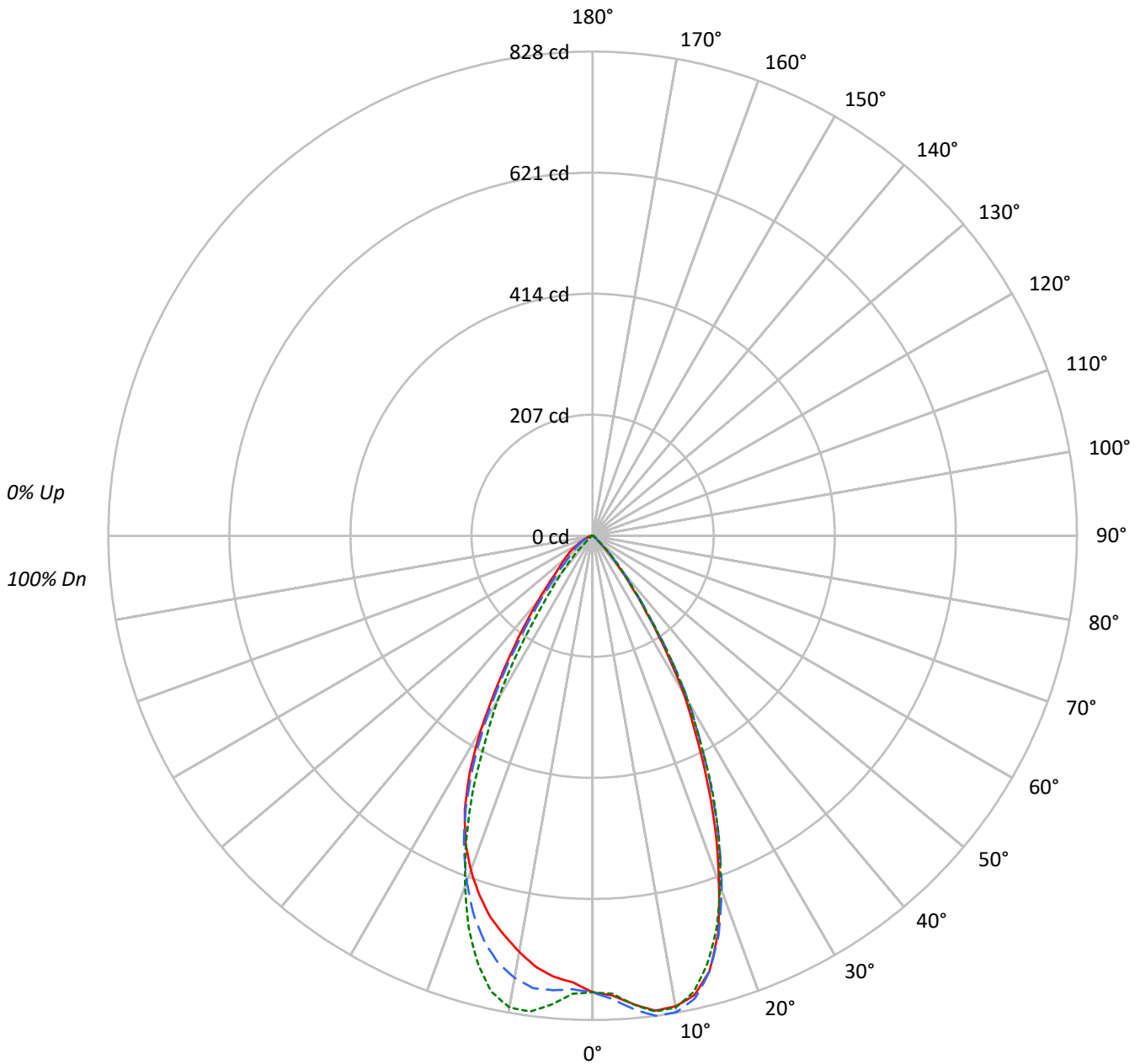
Lumens per Lamp: N/A
Luminaire Lumens: 694.0 lumens
Efficiency: N/A
Efficacy: 70.8 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot





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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°	95899	95899	95899
5°	99164	99225	93368
10°	101907	102182	90118
15°	98061	96357	85890
20°	82561	83332	79567
25°	62721	65906	70041
30°	44118	45934	53892
35°	23801	24926	35664
40°	11483	12686	23142
45°	4083	5577	15046
50°	1529	1949	12041
55°	1135	1371	9960
60°	909	1057	7224
65°	785	930	5581
70°	575	754	4418
75°	522	759	3275
80°	354	778	2264
85°	0	705	1551



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.0	11.0
10°-20°	205.0	29.5
20°-30°	222.4	32.0
30°-40°	123.4	17.8
40°-50°	39.3	5.7
50°-60°	15.8	2.3
60°-70°	8.0	1.2
70°-80°	3.3	0.5
80°-90°	0.7	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°	503.4	72.5
0°-40°	626.8	90.3
0°-60°	682.0	98.3
0°-90°	694.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	694.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	781	781	781	781	781	
5°	804	813	805	780	757	77
15°	771	772	758	717	675	211
25°	463	482	486	512	517	211
35°	159	172	166	220	238	105
45°	24	28	32	72	87	23
55°	5	5	6	34	46	5
65°	3	3	3	16	19	3
75°	1	1	2	5	7	1
85°	0	0	0	1	1	0
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°	780.6	780.6	780.6	780.6	780.6	780.6	780.6	780.6	780.6
2.5°	787.0	794.0	793.4	788.1	783.8	782.2	776.3	769.4	764.6
5°	804.1	812.7	812.7	808.4	804.6	795.6	780.1	765.1	757.1
7.5°	819.1	827.6	828.1	824.9	820.7	805.7	780.1	756.0	743.7
10°	816.9	823.3	827.1	823.9	819.1	799.3	767.8	735.7	722.4
12.5°	804.6	810.5	810.0	805.2	798.8	778.5	747.5	714.3	699.4
15°	771.0	774.2	771.5	766.2	757.6	742.1	717.0	688.7	675.3
17.5°	712.7	717.0	715.9	707.4	704.2	689.2	677.5	655.6	643.8
20°	631.5	644.9	644.9	638.5	637.4	627.3	628.9	617.1	608.6
22.5°	549.8	561.5	565.3	562.6	564.7	559.9	574.9	571.7	567.4
25°	462.7	474.4	481.9	480.9	486.2	486.2	512.4	518.8	516.7
27.5°	380.9	392.2	400.7	402.9	399.6	405.5	441.3	454.1	454.1
30°	311.0	320.0	328.1	328.1	323.8	328.1	366.0	380.9	379.9
32.5°	231.9	242.0	249.5	248.4	244.7	250.6	290.7	305.6	301.9
35°	158.7	165.6	171.5	169.4	166.2	175.8	219.6	238.3	237.8
37.5°	107.4	113.8	117.5	115.9	114.9	126.1	166.2	187.0	185.9
40°	71.6	75.9	78.5	78.0	79.1	88.7	125.0	144.3	144.3
42.5°	45.4	48.1	50.8	50.8	53.4	63.6	95.1	111.7	111.7
45°	23.5	25.1	27.8	29.4	32.1	42.7	71.6	85.5	86.6
47.5°	11.2	11.8	12.8	13.4	15.5	26.7	55.0	70.0	73.2
50°	8.0	8.5	8.5	8.5	10.2	20.3	46.5	60.4	63.0
52.5°	6.4	6.4	6.4	6.9	8.0	17.1	40.1	52.4	54.5
55°	5.3	5.3	5.3	5.3	6.4	13.9	34.2	44.9	46.5
57.5°	4.3	4.3	4.3	4.3	5.3	11.2	28.3	35.8	36.3
60°	3.7	3.7	3.7	3.7	4.3	9.6	23.0	29.4	29.4
62.5°	3.2	3.2	3.2	3.2	3.7	8.0	19.2	24.0	23.5
65°	2.7	2.7	2.7	2.7	3.2	6.4	15.5	19.2	19.2
67.5°	2.1	2.1	2.1	2.1	2.7	5.3	12.3	15.5	15.5
70°	1.6	1.6	1.6	1.6	2.1	4.3	10.2	12.3	12.3
72.5°	1.6	1.6	1.6	1.6	1.6	3.2	7.5	9.6	9.1
75°	1.1	1.1	1.1	1.1	1.6	2.7	5.3	6.9	6.9
77.5°	1.1	1.1	1.1	1.1	1.1	2.1	4.3	4.8	4.8
80°	0.5	0.5	0.5	0.5	1.1	1.6	2.7	3.2	3.2
82.5°	0.0	0.5	0.0	0.5	0.5	1.1	2.1	2.1	2.1
85°	0.0	0.0	0.0	0.0	0.5	0.5	1.1	1.6	1.1
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)