

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: P563886

Luminaire Tested: **LD4C08D010 EX4C08D2W 4LBCSSQMW**

Issue Date: 5/25/2022

Test Information

Test Method: LM-79-08
Report Number: P563886
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P209253)
Test Lab: INNOVATION CENTER
Issue Date: 5/25/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C08D010 EX4C08D2W 4LBCSSQMW
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND 4LBCSSQ TRIM WITH MW FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

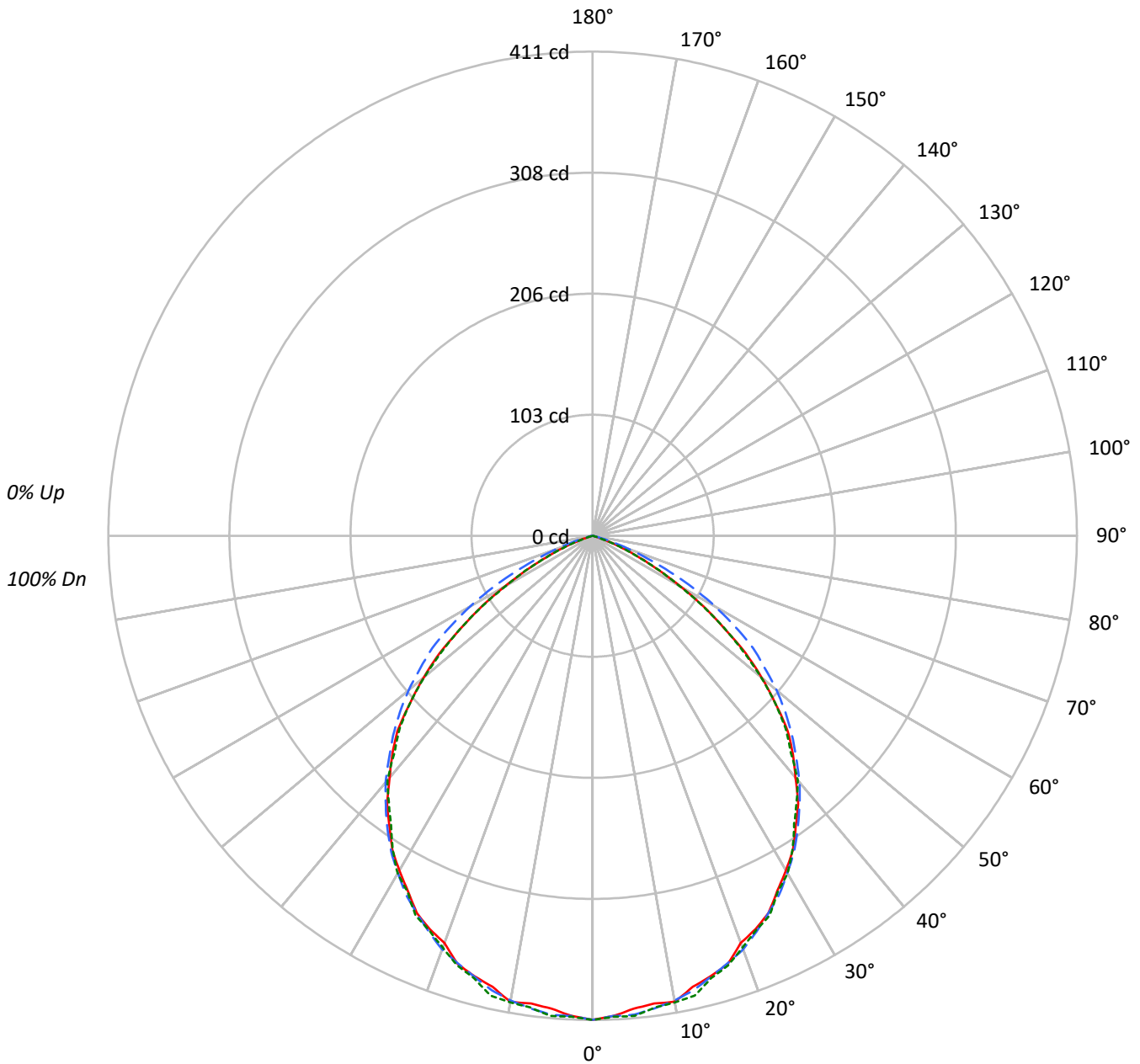
Lumens per Lamp: N/A
Luminaire Lumens: 877.8 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.2 / 1.29
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
Input Voltage (V):
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					
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	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89				89				
2	103	96	91	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77				77				
3	95	86	79	74	93	85	78	73	82	76	72	79	74	71	77	73	69	67				67				
4	88	77	70	64	86	76	69	63	74	67	63	71	66	62	69	65	61	59				59				
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54	52				52				
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	46				46				
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41				41				
8	65	53	45	40	64	52	45	39	51	44	39	50	44	39	49	43	39	37				37				
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34				34				
10	57	45	38	33	56	44	37	33	44	37	32	43	37	32	42	36	32	31				31				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	39647	39647	39647
5°	39014	39518	39634
10°	39348	39240	39407
15°	38658	38718	38838
20°	37756	38362	38187
25°	37603	37603	37848
30°	36544	36812	36879
35°	35408	35750	35125
40°	33744	34412	34122
45°	31944	32654	31617
50°	28131	30577	27950
55°	22777	27976	22878
60°	16673	23196	16326
65°	10114	16530	9863
70°	3950	8887	3780
75°	410	2386	410
80°	333	333	333
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.8	4.4
10°-20°	109.8	12.5
20°-30°	162.9	18.6
30°-40°	188.7	21.5
40°-50°	180.9	20.6
50°-60°	133.0	15.2
60°-70°	57.5	6.5
70°-80°	6.2	0.7
80°-90°	0.1	0.0
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°	311.4	35.5
0°-40°	500.1	57.0
0°-60°	814.1	92.7
0°-90°	877.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	877.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	411	411	411	411	411	
5°	403	407	408	409	409	38
15°	387	389	388	388	389	109
25°	353	353	353	354	356	162
35°	301	302	304	303	298	188
45°	234	235	239	236	232	178
55°	135	149	166	149	136	122
65°	44	55	72	55	43	46
75°	1	2	6	1	1	4
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	410.9	410.9	410.9	410.9	410.9	410.9	410.9	410.9	410.9	410.9	410.9
2.5°	408.0	412.7	413.3	410.3	409.2	407.5	411.6	408.6	409.7	408.6	408.0
5°	402.8	408.0	408.6	408.6	407.5	406.9	408.6	408.0	407.5	406.3	408.0
7.5°	400.5	403.3	406.3	402.8	404.5	403.9	408.0	406.3	405.7	405.7	404.5
10°	401.6	401.0	403.3	399.9	401.0	399.9	403.3	403.3	402.2	401.0	400.5
12.5°	392.2	396.9	396.9	396.3	395.2	393.5	396.9	399.3	395.8	395.8	395.2
15°	387.0	388.2	388.8	388.8	388.2	389.4	391.1	388.8	389.4	386.4	387.6
17.5°	381.1	378.8	380.5	379.4	380.0	381.1	383.5	383.5	380.0	379.4	380.5
20°	367.7	374.7	375.3	371.9	372.4	372.4	376.5	373.0	375.3	372.4	373.6
22.5°	361.3	366.0	366.6	361.9	364.8	361.3	365.4	360.2	366.0	361.9	363.6
25°	353.2	352.6	354.3	352.0	352.6	352.6	355.5	353.2	354.9	352.6	353.2
27.5°	339.7	344.4	343.8	341.5	342.6	342.1	347.9	341.5	344.9	342.1	343.2
30°	328.0	332.1	331.0	328.7	328.7	326.8	333.3	331.5	331.0	331.0	330.4
32.5°	316.3	317.0	315.8	316.3	317.0	314.6	319.9	317.6	317.0	317.6	318.2
35°	300.6	300.6	301.8	300.1	302.4	302.4	307.0	304.1	303.5	301.8	303.5
37.5°	286.6	284.8	285.4	285.4	286.6	287.8	290.1	289.0	289.0	287.2	288.4
40°	267.9	266.8	268.5	268.5	270.3	270.3	272.6	271.4	273.2	273.2	273.2
42.5°	251.6	251.6	250.4	252.2	252.8	252.2	256.2	255.6	256.2	255.1	255.6
45°	234.1	234.1	232.9	232.3	235.3	234.7	239.3	237.5	239.9	238.7	239.3
47.5°	210.2	213.1	211.3	213.1	216.6	217.2	220.0	218.9	221.2	219.5	221.9
50°	187.4	187.4	189.1	191.4	195.0	195.5	199.1	201.4	202.5	203.1	203.7
52.5°	163.5	162.9	164.6	167.5	170.5	172.8	176.3	179.7	182.1	185.6	183.9
55°	135.4	136.6	138.3	141.8	146.5	149.4	152.4	157.1	161.1	162.9	166.3
57.5°	111.5	110.4	111.5	116.2	121.5	123.8	127.9	132.5	138.3	141.8	143.0
60°	86.4	87.0	88.2	92.3	96.3	99.8	101.6	109.1	114.4	117.9	120.2
62.5°	63.7	64.8	66.0	69.5	73.5	76.5	79.3	85.9	90.4	94.0	96.3
65°	44.3	45.0	46.7	48.4	52.5	55.4	57.8	63.1	67.7	70.6	72.4
67.5°	27.5	28.0	29.2	31.5	34.5	36.8	39.1	42.6	46.7	49.6	50.2
70°	14.0	14.6	15.2	16.9	19.2	20.4	22.2	25.1	28.0	30.3	31.5
72.5°	4.7	4.7	5.3	6.4	7.6	8.7	9.4	12.3	14.6	15.8	16.4
75°	1.1	1.1	1.1	1.1	1.1	1.7	1.7	3.5	4.7	5.8	6.4
77.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.1	1.1
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	410.9	410.9	410.9	410.9	410.9	410.9	410.9	410.9	410.9	410.9
2.5°	410.9	409.7	409.2	409.7	409.7	409.2	410.9	413.3	416.1	408.6
5°	410.3	409.2	410.3	406.9	408.6	407.5	409.7	409.2	411.6	409.2
7.5°	408.6	406.3	406.9	405.2	407.5	404.5	406.3	409.7	407.5	403.9
10°	402.8	401.6	405.7	399.9	398.6	401.0	405.7	402.2	401.0	402.2
12.5°	396.9	396.9	398.6	394.1	394.6	395.8	398.1	395.8	396.9	399.9
15°	390.5	389.4	392.2	388.8	388.2	387.0	389.4	389.4	390.5	388.8
17.5°	382.9	381.1	381.1	380.0	379.4	382.4	383.5	384.1	384.7	382.4
20°	373.6	373.0	374.7	373.0	373.6	374.1	374.1	373.0	378.3	371.9
22.5°	363.6	365.4	363.0	361.9	363.0	364.3	364.3	364.8	363.6	362.5
25°	353.8	354.9	355.5	352.0	353.8	352.0	356.1	356.6	354.3	355.5
27.5°	344.9	343.2	342.6	340.4	341.5	340.9	341.5	341.5	344.9	340.4
30°	331.5	329.8	330.4	328.7	329.2	328.7	329.2	329.2	331.5	331.0
32.5°	318.7	317.0	317.6	315.8	315.8	316.3	315.2	315.2	317.0	315.8
35°	306.5	302.4	302.9	302.4	302.9	300.6	300.6	300.1	301.2	298.2
37.5°	289.0	287.2	286.6	286.0	286.6	285.4	286.6	284.8	286.6	284.3
40°	273.2	272.0	272.6	269.0	269.0	269.7	268.5	267.9	268.5	270.9
42.5°	257.5	255.1	253.9	252.8	253.3	251.6	251.0	249.8	251.0	248.7
45°	238.7	238.7	238.1	235.3	235.8	235.8	233.4	231.1	231.7	231.7
47.5°	221.9	220.6	220.0	217.2	216.6	216.0	213.6	211.9	211.9	210.2
50°	203.1	201.9	200.2	197.3	196.1	192.7	190.9	188.6	186.2	186.2
52.5°	185.6	181.6	179.2	174.6	172.8	171.0	166.3	164.6	162.9	161.1
55°	164.6	161.1	156.4	151.2	148.8	146.0	141.3	137.7	135.4	136.0
57.5°	144.1	138.3	133.7	126.6	123.8	122.0	117.3	112.6	110.4	110.4
60°	119.1	114.4	108.5	102.1	99.8	96.9	91.0	88.2	86.4	84.6
62.5°	95.1	91.6	86.4	78.2	76.5	73.5	69.5	66.0	64.2	64.2
65°	71.2	67.7	63.1	57.2	54.8	52.5	49.0	45.6	43.7	43.2
67.5°	50.2	46.1	42.0	37.3	35.6	34.5	30.9	28.6	27.5	26.9
70°	30.3	28.0	25.1	21.6	19.8	18.7	16.4	14.6	14.0	13.4
72.5°	15.8	14.0	11.7	9.4	8.1	7.0	5.8	4.7	4.1	4.1
75°	5.8	4.7	2.9	1.7	1.1	1.1	1.1	1.1	1.1	1.1
77.5°	1.1	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	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)