

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: P#

Luminaire Tested: **LD4C08D010 EX4C089050 4LBSQLI**

Issue Date: 2/9/2022

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P209151)
Test Lab: INNOVATION CENTER
Issue Date: 2/9/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C08D010 EX4C089050 4LBSQLI
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS AND 4LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

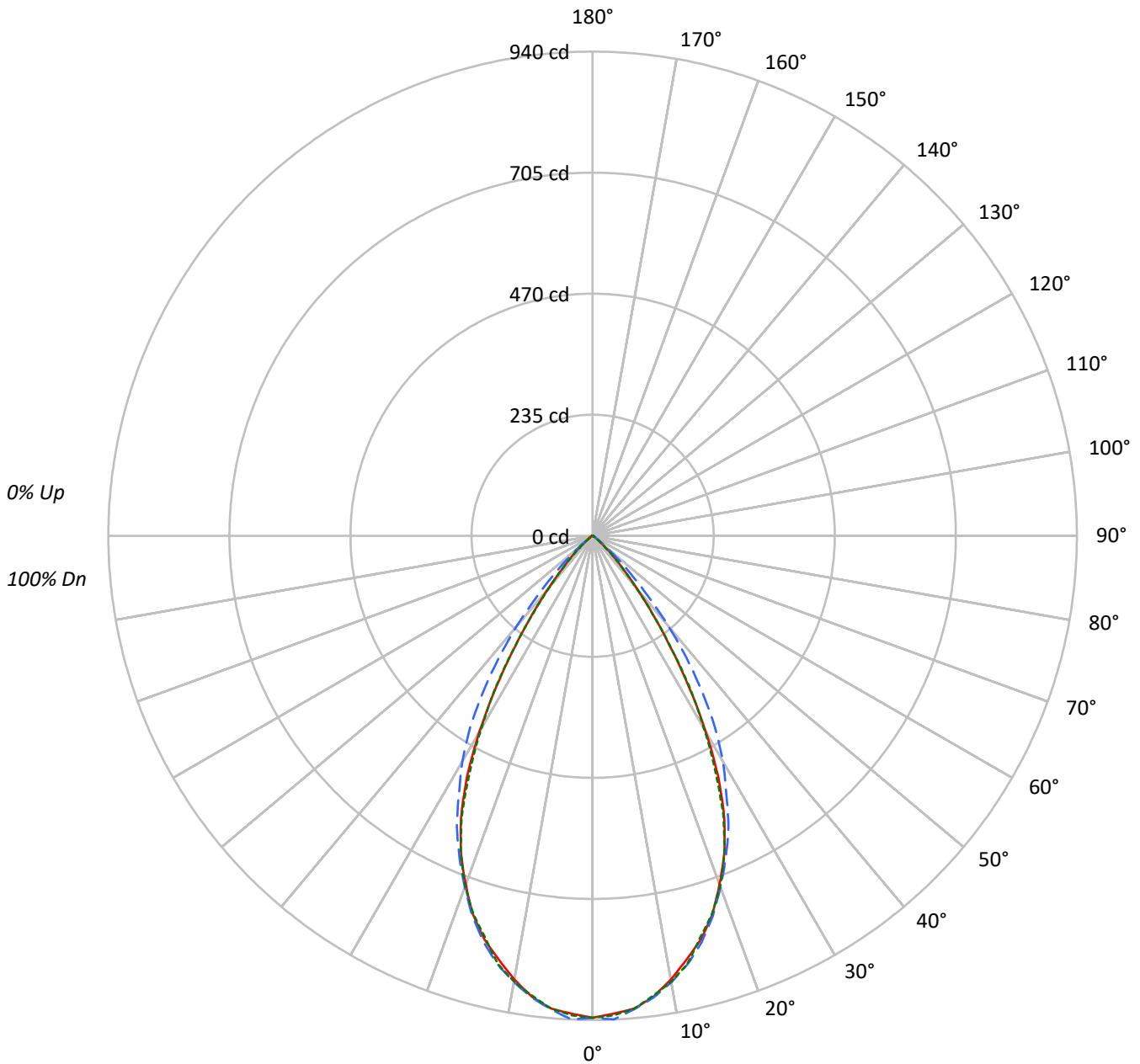
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 864.0 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.9 / 0.94
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 (Ain): 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: P#
CATALOG NUMBER: LD4C08D010 EX4C089050 4LBSQLI

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	84	89	86	83	87	84	82	80																			
4	97	89	84	79	95	88	83	79	86	81	78	84	80	77	82	79	76	75																			
5	92	83	77	73	90	82	77	73	81	76	72	79	75	71	77	74	71	69																			
6	87	78	72	68	86	77	71	67	76	71	67	74	70	66	73	69	66	64																			
7	83	73	67	63	81	73	67	63	71	66	62	70	65	62	69	65	62	60																			
8	79	69	63	59	77	68	62	58	67	62	58	66	61	58	65	61	58	56																			
9	75	65	59	55	74	64	59	55	63	58	55	63	58	54	62	57	54	53																			
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	50																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	90294	90294	90294
5°	89264	89380	89264
10°	85691	86220	86103
15°	81013	81602	80593
20°	73931	74485	74300
25°	64379	66401	63931
30°	48956	56310	48232
35°	30814	43771	31097
40°	16626	28907	16324
45°	7874	14273	7792
50°	2942	5359	2942
55°	1396	1699	1295
60°	926	811	926
65°	548	548	548
70°	339	508	339
75°	224	224	224
80°	333	333	333
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.8	10.0
10°-20°	227.4	26.3
20°-30°	277.8	32.2
30°-40°	194.3	22.5
40°-50°	63.7	7.4
50°-60°	10.1	1.2
60°-70°	2.8	0.3
70°-80°	0.9	0.1
80°-90°	0.3	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°	592.0	68.5
0°-40°	786.3	91.0
0°-60°	860.1	99.5
0°-90°	864.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	864.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	936	936	936	936	936	
5°	922	922	923	917	922	86
15°	811	814	817	812	807	226
25°	605	614	624	612	600	272
35°	262	309	372	304	264	167
45°	58	71	105	70	57	48
55°	8	9	10	9	8	8
65°	2	3	2	3	2	3
75°	1	1	1	1	1	1
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°	25°	30°	35°	40°	45°	50°
0°	935.8	935.8	935.8	935.8	935.8	935.8	935.8	935.8	935.8	935.8	935.8
2.5°	928.7	935.3	933.5	937.6	937.6	932.9	934.1	935.8	938.2	940.0	925.7
5°	921.6	927.5	922.2	928.1	924.5	919.2	928.1	923.4	926.3	922.8	925.1
7.5°	902.6	912.1	901.4	908.5	906.1	903.1	906.7	905.5	907.3	904.3	897.8
10°	874.6	882.3	875.2	885.3	880.6	877.6	880.6	883.5	882.9	880.0	883.5
12.5°	842.5	851.4	847.8	853.8	848.5	848.5	855.6	853.8	854.4	852.0	856.2
15°	811.0	817.5	812.2	819.9	817.5	811.0	813.9	813.9	818.7	816.9	812.2
17.5°	771.8	777.1	771.1	772.9	770.6	769.4	781.8	773.5	778.3	774.7	775.3
20°	720.0	722.4	720.6	725.4	722.4	726.0	724.8	723.6	723.6	725.4	721.2
22.5°	667.7	667.7	669.5	670.7	673.1	669.5	676.6	670.7	671.3	675.4	674.2
25°	604.7	602.9	607.1	613.0	615.4	612.4	621.9	617.2	620.7	623.7	617.2
27.5°	528.0	528.0	532.1	542.3	544.0	547.6	560.7	560.7	565.4	561.3	566.0
30°	439.4	445.9	451.3	464.3	468.5	476.3	489.9	496.5	507.2	505.4	503.0
32.5°	348.4	357.3	357.9	371.6	382.9	396.0	414.4	429.9	437.6	442.9	437.0
35°	261.6	267.0	271.7	281.2	300.3	317.5	334.1	354.4	368.0	371.6	366.2
37.5°	191.5	192.6	197.4	206.3	220.6	237.2	257.5	279.4	293.7	299.1	293.1
40°	132.0	133.2	135.6	143.3	155.2	167.1	183.1	205.7	218.8	229.5	221.8
42.5°	88.6	89.8	92.2	98.1	104.6	115.9	128.4	142.7	155.2	159.9	155.8
45°	57.7	57.7	58.9	63.0	66.6	75.5	84.4	93.3	101.7	104.6	101.7
47.5°	33.9	34.5	35.7	38.7	42.8	46.4	52.9	58.9	61.2	63.6	62.4
50°	19.6	19.6	21.4	23.2	26.2	28.5	30.9	33.3	34.5	35.7	34.5
52.5°	10.7	11.3	11.9	12.5	13.7	16.1	17.8	17.8	18.4	19.0	18.4
55°	8.3	8.3	8.3	8.3	8.9	8.9	8.9	9.5	9.5	10.1	9.5
57.5°	5.9	5.9	5.9	6.6	6.6	6.6	5.9	5.9	5.9	5.9	5.9
60°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.2	4.2	4.2	4.2
62.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
65°	2.4	2.4	3.0	3.0	3.0	3.0	3.0	2.4	2.4	2.4	2.4
67.5°	1.8	1.8	1.8	1.8	2.4	2.4	1.8	1.8	1.8	1.8	1.8
70°	1.2	1.2	1.2	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
72.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
75°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
77.5°	0.6	0.6	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	0.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	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°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	935.8	935.8	935.8	935.8	935.8	935.8	935.8	935.8
2.5°	935.8	925.7	926.9	932.3	929.3	932.3	931.7	931.7
5°	925.7	922.8	918.0	916.2	919.8	927.5	926.3	921.6
7.5°	906.7	899.0	904.3	906.7	903.7	908.5	910.9	900.8
10°	884.1	881.2	880.0	881.2	880.0	884.7	878.8	878.8
12.5°	852.0	847.3	847.3	854.4	850.2	846.7	851.4	850.8
15°	819.9	810.4	810.4	812.8	814.6	812.2	812.8	806.8
17.5°	772.3	769.4	765.2	771.8	773.5	771.1	772.9	770.0
20°	727.7	727.7	720.0	723.0	725.4	727.2	728.3	723.6
22.5°	670.7	671.9	666.5	672.4	674.2	668.3	669.5	668.3
25°	618.3	617.8	613.6	611.2	612.4	610.0	609.4	600.5
27.5°	560.7	554.7	545.8	548.2	538.1	529.8	529.8	516.1
30°	498.2	488.1	476.3	464.3	455.4	445.9	440.6	432.9
32.5°	425.1	411.5	396.6	380.5	370.4	356.2	348.4	352.6
35°	352.6	332.4	312.1	296.1	280.6	272.3	262.8	264.0
37.5°	282.4	253.9	236.1	218.8	205.7	195.0	190.9	189.7
40°	206.3	183.7	165.9	153.4	144.5	136.2	131.4	129.6
42.5°	142.7	126.7	112.4	102.3	96.3	91.0	88.6	88.0
45°	92.8	83.2	73.7	66.6	61.8	58.3	57.7	57.1
47.5°	58.3	53.5	47.6	42.2	38.0	35.7	33.9	33.9
50°	33.3	31.5	28.5	25.6	23.2	22.0	20.2	19.6
52.5°	17.8	17.8	16.6	14.3	12.5	11.3	11.3	10.7
55°	9.5	9.5	8.9	8.9	8.3	8.3	8.3	7.7
57.5°	5.9	5.9	6.6	6.6	5.9	5.9	5.9	5.9
60°	4.2	4.8	4.8	4.8	4.8	4.8	4.8	4.8
62.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
65°	2.4	3.0	3.0	3.0	3.0	2.4	2.4	2.4
67.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
70°	1.8	1.8	1.8	1.8	1.8	1.2	1.2	1.2
72.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
75°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
77.5°	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
82.5°	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
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
90°	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)