

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: **LD4C100D010 EX4C1009030 4LCSQWLI**

Issue Date: 2/18/2022

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 (G1-2105-247-13)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C100D010 EX4C1009030 4LCSQWLI
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LCSQW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

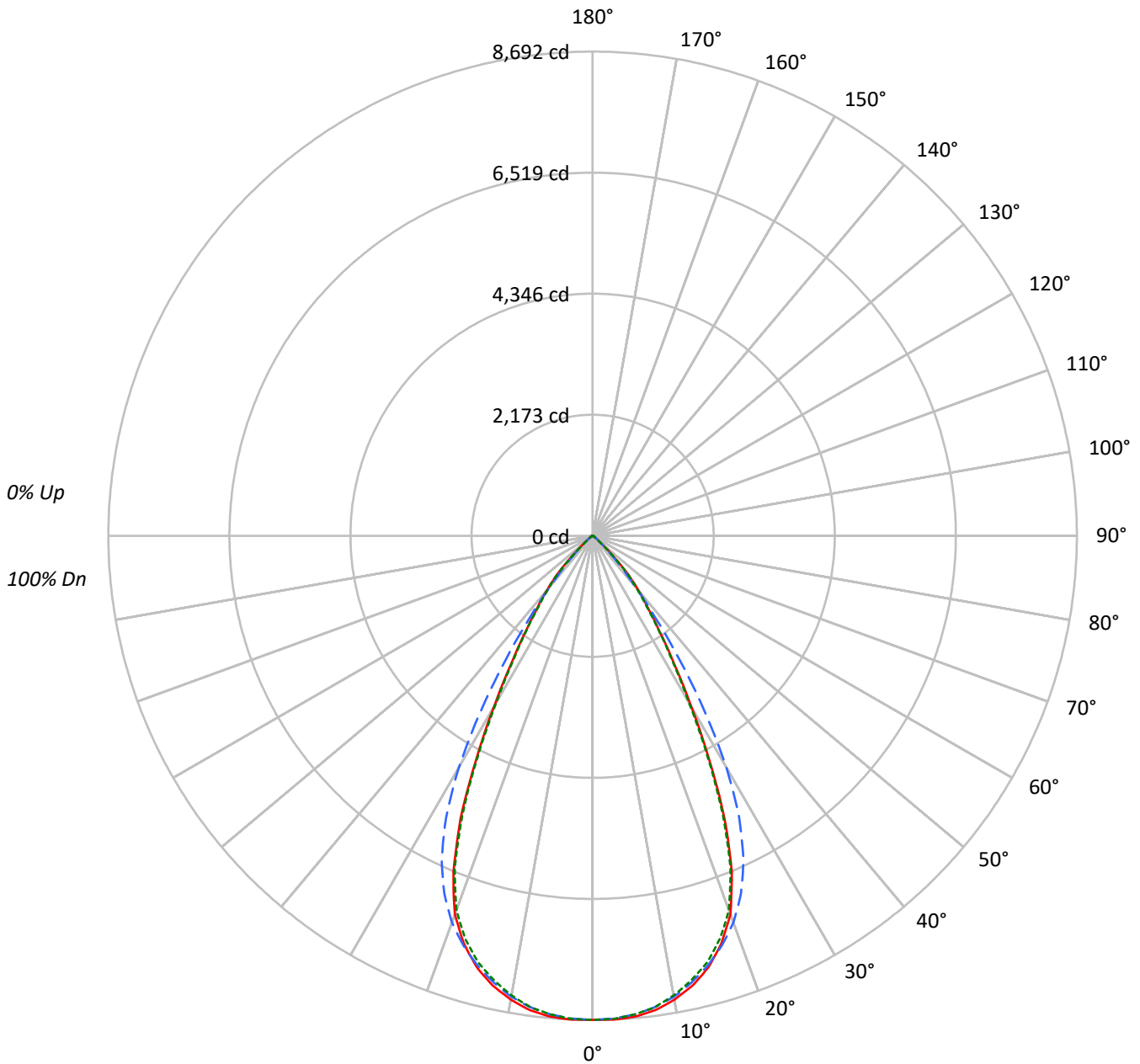
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7780.0 lumens
Efficiency: N/A
Efficacy: 68.0 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.9
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 114.4
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: LD4C100D010 EX4C1009030 4LCSQWLI

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	114	111	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95	94																			
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87																			
3	103	96	91	88	101	95	90	87	92	89	85	90	87	84	88	85	83	81																			
4	98	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76																			
5	93	84	79	74	91	84	78	74	82	77	73	80	76	73	79	75	72	71																			
6	88	79	73	69	87	79	73	69	77	72	68	76	71	68	74	71	68	66																			
7	84	75	69	65	82	74	68	64	73	68	64	71	67	64	70	66	63	62																			
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	59	58																			
9	76	66	61	57	75	66	60	57	65	60	56	64	60	56	63	59	56	55																			
10	72	63	57	53	71	62	57	53	62	57	53	61	56	53	60	56	53	52																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	838527	838527	838527
5°	839406	835541	835541
10°	828379	823490	820953
15°	801499	797713	792329
20°	742283	758476	734089
25°	596825	682273	588968
30°	393933	534952	384585
35°	246207	321228	241743
40°	160684	148869	154398
45°	77370	59386	73004
50°	19484	23672	18283
55°	10749	9740	10413
60°	7314	6156	6928
65°	5023	4566	5023
70°	3950	3385	3950
75°	2982	2982	2982
80°	2223	3334	3334
85°	2214	4428	4428



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	817.3	10.5
10°-20°	2231.9	28.7
20°-30°	2659.8	34.2
30°-40°	1506.1	19.4
40°-50°	465.6	6.0
50°-60°	64.7	0.8
60°-70°	22.1	0.3
70°-80°	8.8	0.1
80°-90°	3.7	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°	5709.0	73.4
0°-40°	7215.1	92.7
0°-60°	7745.4	99.6
0°-90°	7780.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7780.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8690	8690	8690	8690	8690	
5°	8666	8646	8626	8620	8626	821
15°	8024	8010	7986	7954	7932	2237
25°	5606	5933	6408	5943	5532	2499
35°	2090	2280	2727	2286	2052	1360
45°	567	661	435	643	535	468
55°	64	64	58	62	62	63
65°	22	22	20	22	22	23
75°	8	8	8	8	8	9
85°	2	4	4	4	4	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8690.4	8690.4	8690.4	8690.4	8690.4
2.5°	8692.4	8678.4	8674.4	8670.4	8678.4
5°	8666.4	8646.5	8626.5	8620.5	8626.5
7.5°	8592.6	8572.6	8538.7	8530.7	8536.7
10°	8454.8	8436.9	8404.9	8386.9	8379.0
12.5°	8273.2	8243.2	8213.3	8193.3	8173.3
15°	8023.6	8009.6	7985.7	7953.7	7931.8
17.5°	7678.2	7698.2	7712.2	7648.3	7590.4
20°	7229.0	7302.9	7386.7	7257.0	7149.2
22.5°	6528.3	6739.9	6953.5	6708.0	6468.4
25°	5605.9	5933.4	6408.5	5943.3	5532.1
27.5°	4529.9	4945.1	5693.8	4947.1	4470.0
30°	3535.7	3962.9	4801.4	3907.0	3451.8
32.5°	2715.1	3034.6	3751.3	2986.6	2657.2
35°	2090.2	2279.9	2727.1	2285.9	2052.3
37.5°	1625.1	1720.9	1834.7	1687.0	1577.2
40°	1275.7	1279.7	1181.9	1259.7	1225.8
42.5°	946.3	942.3	726.7	918.4	924.3
45°	567.0	660.8	435.2	642.8	535.0
47.5°	269.5	373.3	261.5	353.4	249.6
50°	129.8	179.7	157.7	167.7	121.8
52.5°	87.8	91.8	89.8	87.8	83.8
55°	63.9	63.9	57.9	61.9	61.9
57.5°	47.9	47.9	41.9	45.9	45.9
60°	37.9	35.9	31.9	35.9	35.9
62.5°	27.9	27.9	24.0	27.9	27.9
65°	22.0	22.0	20.0	22.0	22.0
67.5°	18.0	18.0	14.0	18.0	16.0
70°	14.0	14.0	12.0	14.0	14.0
72.5°	10.0	10.0	10.0	10.0	10.0
75°	8.0	8.0	8.0	8.0	8.0
77.5°	6.0	6.0	6.0	6.0	6.0
80°	4.0	4.0	6.0	6.0	6.0
82.5°	4.0	4.0	4.0	4.0	4.0
85°	2.0	4.0	4.0	4.0	4.0
87.5°	2.0	2.0	4.0	4.0	4.0
90°	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)