

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: **LD4C10D010 EX4C109050 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: LD4C10D010 EX4C109050 4LCSQWLI
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LCSQW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

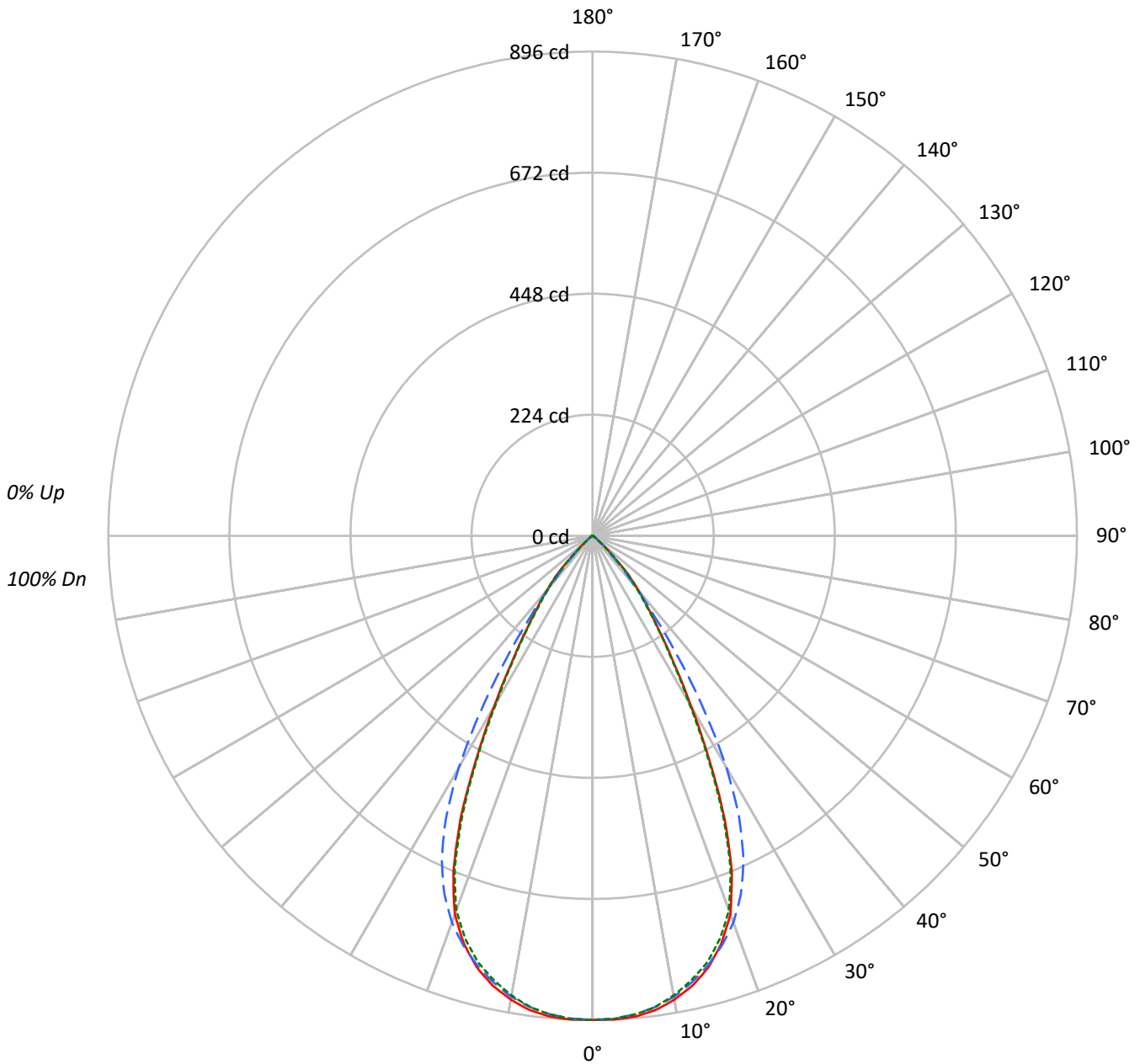
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 802.0 lumens
Efficiency: N/A
Efficacy: 81.8 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): 9.8
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: LD4C10D010 EX4C109050 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°	86435	86435	86435
5°	86532	86135	86135
10°	85397	84888	84623
15°	82621	82232	81672
20°	76518	78192	75676
25°	61525	70330	60716
30°	40611	55140	39642
35°	25384	33111	24925
40°	16563	15342	15921
45°	7969	6127	7532
50°	2011	2447	1891
55°	1110	1009	1077
60°	753	637	714
65°	525	479	525
70°	395	339	395
75°	298	298	298
80°	222	333	333
85°	221	443	443



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.2	10.5
10°-20°	230.1	28.7
20°-30°	274.2	34.2
30°-40°	155.3	19.4
40°-50°	48.0	6.0
50°-60°	6.7	0.8
60°-70°	2.3	0.3
70°-80°	0.9	0.1
80°-90°	0.4	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°	588.5	73.4
0°-40°	743.8	92.7
0°-60°	798.4	99.6
0°-90°	802.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	802.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	896	896	896	896	896	
5°	893	891	889	889	889	85
15°	827	826	823	820	818	231
25°	578	612	661	613	570	258
35°	216	235	281	236	212	140
45°	58	68	45	66	55	48
55°	7	7	6	6	6	6
65°	2	2	2	2	2	2
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°	22.5°	45°	67.5°	90°
0°	895.8	895.8	895.8	895.8	895.8
2.5°	896.1	894.6	894.2	893.8	894.6
5°	893.4	891.3	889.3	888.6	889.3
7.5°	885.8	883.7	880.2	879.4	880.0
10°	871.6	869.7	866.4	864.6	863.7
12.5°	852.8	849.7	846.7	844.6	842.5
15°	827.1	825.7	823.2	819.9	817.6
17.5°	791.5	793.6	795.0	788.4	782.5
20°	745.2	752.8	761.5	748.1	737.0
22.5°	673.0	694.8	716.8	691.5	666.8
25°	577.9	611.6	660.6	612.7	570.3
27.5°	467.0	509.8	586.9	510.0	460.8
30°	364.5	408.5	494.9	402.8	355.8
32.5°	279.9	312.8	386.7	307.9	273.9
35°	215.5	235.0	281.1	235.6	211.6
37.5°	167.5	177.4	189.1	173.9	162.6
40°	131.5	131.9	121.8	129.9	126.4
42.5°	97.5	97.1	74.9	94.7	95.3
45°	58.4	68.1	44.9	66.3	55.2
47.5°	27.8	38.5	27.0	36.4	25.7
50°	13.4	18.5	16.3	17.3	12.6
52.5°	9.1	9.5	9.3	9.1	8.6
55°	6.6	6.6	6.0	6.4	6.4
57.5°	4.9	4.9	4.3	4.7	4.7
60°	3.9	3.7	3.3	3.7	3.7
62.5°	2.9	2.9	2.5	2.9	2.9
65°	2.3	2.3	2.1	2.3	2.3
67.5°	1.9	1.9	1.4	1.9	1.6
70°	1.4	1.4	1.2	1.4	1.4
72.5°	1.0	1.0	1.0	1.0	1.0
75°	0.8	0.8	0.8	0.8	0.8
77.5°	0.6	0.6	0.6	0.6	0.6
80°	0.4	0.4	0.6	0.6	0.6
82.5°	0.4	0.4	0.4	0.4	0.4
85°	0.2	0.4	0.4	0.4	0.4
87.5°	0.2	0.2	0.4	0.4	0.4
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)