

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 EX4C109027 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 EX4C109027 4LCSQWLI  
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LCSQW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

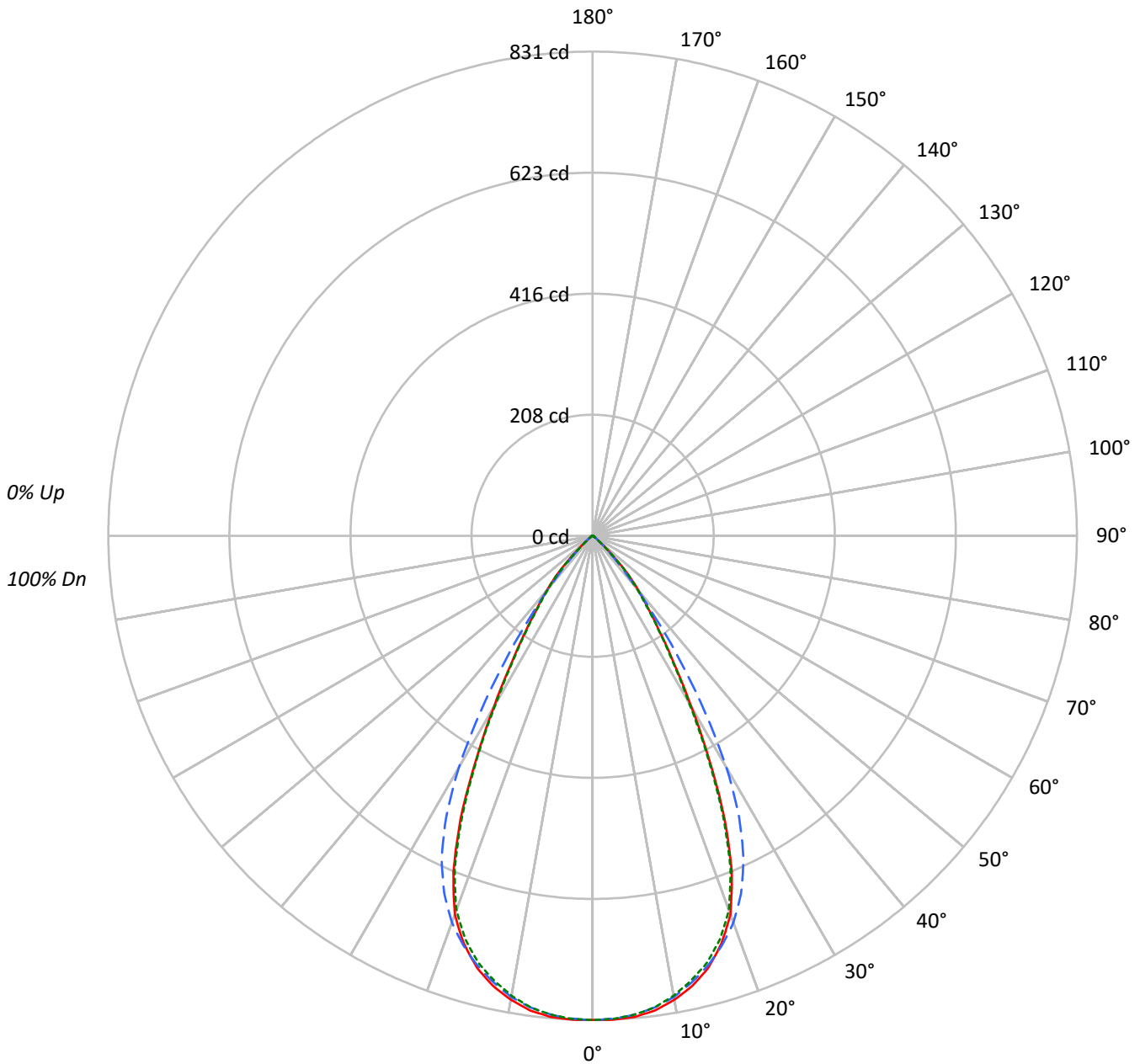
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 744.0 lumens  
Efficiency: N/A  
Efficacy: 75.9 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 (A<sub>in</sub>): 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 EX4C109027 4LCSQWLI

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LD4C10D010 EX4C109027 4LCSQWLI

**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	83	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°	80192	80192	80192
5°	80275	79907	79907
10°	79215	78754	78509
15°	76648	76288	75769
20°	70984	72534	70203
25°	57075	65241	56319
30°	37670	51162	36778
35°	23546	30720	23122
40°	15367	14233	14762
45°	7396	5677	6987
50°	1861	2267	1741
55°	1026	925	993
60°	695	598	656
65°	479	434	479
70°	367	310	367
75°	298	298	298
80°	222	333	333
85°	221	443	443



TEST NUMBER: P#

CATALOG NUMBER: LD4C10D010 EX4C109027 4LCSQWLI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.2	10.5
10°-20°	213.4	28.7
20°-30°	254.4	34.2
30°-40°	144.0	19.4
40°-50°	44.5	6.0
50°-60°	6.2	0.8
60°-70°	2.1	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°	546.0	73.4
0°-40°	690.0	92.7
0°-60°	740.7	99.6
0°-90°	744.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	744.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	831	831	831	831	831	
5°	829	827	825	824	825	78
15°	767	766	764	761	758	214
25°	536	567	613	568	529	239
35°	200	218	261	219	196	130
45°	54	63	42	62	51	45
55°	6	6	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	



TEST NUMBER: P#

CATALOG NUMBER: LD4C10D010 EX4C109027 4LCSQWLI

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	831.1	831.1	831.1	831.1	831.1
2.5°	831.3	829.9	829.5	829.2	829.9
5°	828.8	826.9	825.0	824.4	825.0
7.5°	821.7	819.8	816.6	815.8	816.4
10°	808.5	806.8	803.8	802.0	801.3
12.5°	791.2	788.3	785.4	783.5	781.6
15°	767.3	766.0	763.7	760.6	758.5
17.5°	734.3	736.2	737.5	731.4	725.9
20°	691.3	698.4	706.4	694.0	683.7
22.5°	624.3	644.5	665.0	641.5	618.6
25°	536.1	567.4	612.8	568.4	529.0
27.5°	433.2	472.9	544.5	473.1	427.5
30°	338.1	379.0	459.2	373.6	330.1
32.5°	259.6	290.2	358.7	285.6	254.1
35°	199.9	218.0	260.8	218.6	196.3
37.5°	155.4	164.6	175.5	161.3	150.8
40°	122.0	122.4	113.0	120.5	117.2
42.5°	90.5	90.1	69.5	87.8	88.4
45°	54.2	63.2	41.6	61.5	51.2
47.5°	25.8	35.7	25.0	33.8	23.9
50°	12.4	17.2	15.1	16.0	11.6
52.5°	8.4	8.8	8.6	8.4	8.0
55°	6.1	6.1	5.5	5.9	5.9
57.5°	4.6	4.6	4.0	4.4	4.4
60°	3.6	3.4	3.1	3.4	3.4
62.5°	2.7	2.7	2.3	2.7	2.7
65°	2.1	2.1	1.9	2.1	2.1
67.5°	1.7	1.7	1.3	1.7	1.5
70°	1.3	1.3	1.1	1.3	1.3
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)