

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 EX4C109030 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 EX4C109030 4LCSQWLI  
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LCSQW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

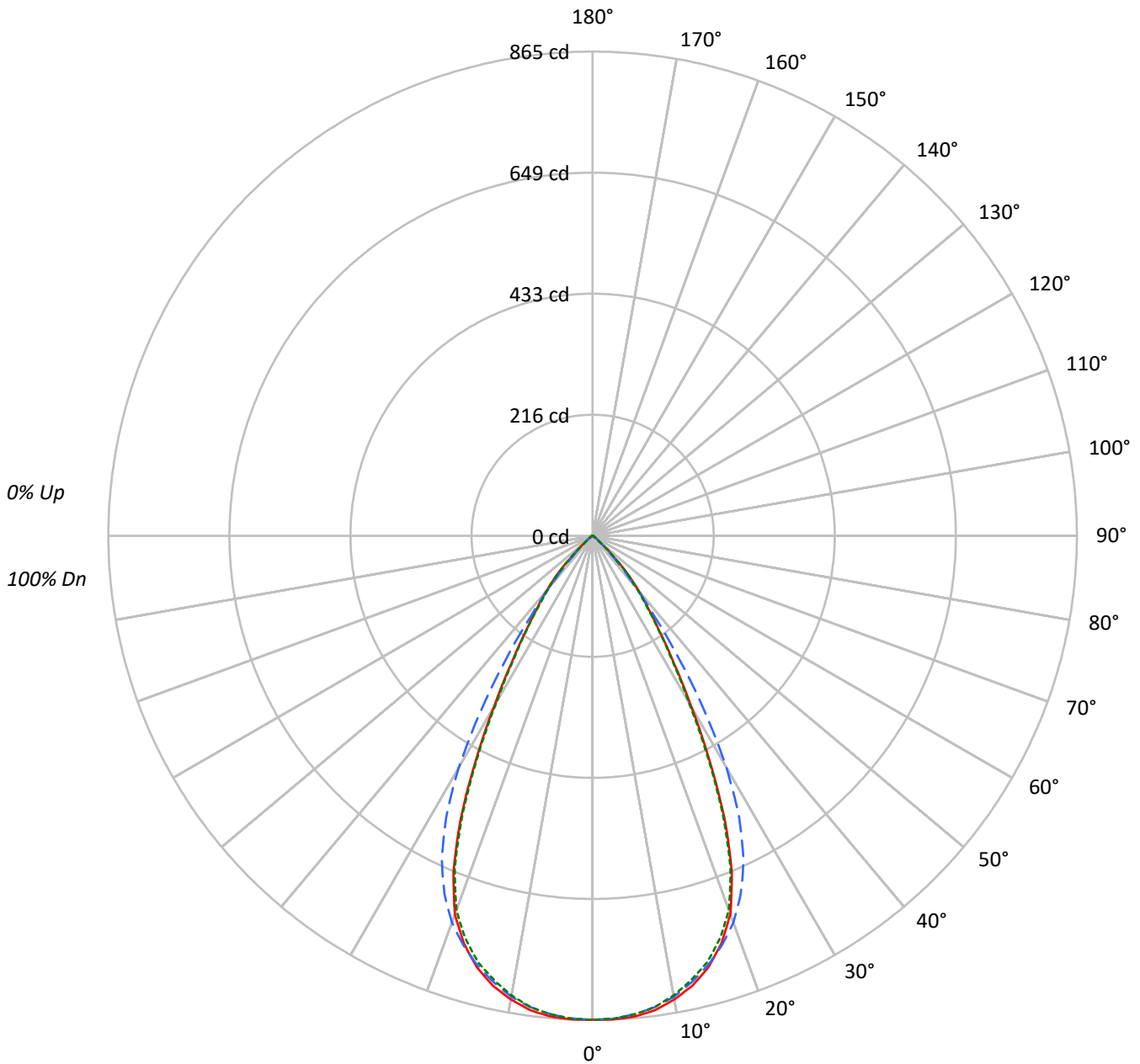
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 774.0 lumens  
Efficiency: N/A  
Efficacy: 79.0 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): 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

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### 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°	83424	83424	83424
5°	83511	83123	83123
10°	82409	81929	81674
15°	79734	79365	78825
20°	73848	75461	73027
25°	59375	67881	58598
30°	39185	53223	38260
35°	24501	31957	24053
40°	15984	14813	15354
45°	7696	5909	7259
50°	1936	2357	1816
55°	1077	976	1043
60°	733	618	695
65°	502	457	502
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°	81.3	10.5
10°-20°	222.0	28.7
20°-30°	264.6	34.2
30°-40°	149.8	19.4
40°-50°	46.3	6.0
50°-60°	6.4	0.8
60°-70°	2.2	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°	568.0	73.4
0°-40°	717.8	92.7
0°-60°	770.6	99.6
0°-90°	774.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	774.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	865	865	865	865	865	
5°	862	860	858	858	858	82
15°	798	797	794	791	789	223
25°	558	590	638	591	550	249
35°	208	227	271	227	204	135
45°	56	66	43	64	53	47
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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	864.6	864.6	864.6	864.6	864.6
2.5°	864.8	863.4	863.0	862.6	863.4
5°	862.2	860.2	858.2	857.6	858.2
7.5°	854.8	852.9	849.5	848.7	849.3
10°	841.1	839.3	836.2	834.4	833.6
12.5°	823.1	820.1	817.1	815.1	813.1
15°	798.2	796.8	794.5	791.3	789.1
17.5°	763.9	765.9	767.3	760.9	755.1
20°	719.2	726.5	734.9	722.0	711.2
22.5°	649.5	670.5	691.8	667.3	643.5
25°	557.7	590.3	637.6	591.3	550.4
27.5°	450.7	492.0	566.5	492.2	444.7
30°	351.7	394.3	477.7	388.7	343.4
32.5°	270.1	301.9	373.2	297.1	264.4
35°	208.0	226.8	271.3	227.4	204.2
37.5°	161.7	171.2	182.5	167.8	156.9
40°	126.9	127.3	117.6	125.3	121.9
42.5°	94.1	93.7	72.3	91.4	92.0
45°	56.4	65.7	43.3	64.0	53.2
47.5°	26.8	37.1	26.0	35.2	24.8
50°	12.9	17.9	15.7	16.7	12.1
52.5°	8.7	9.1	8.9	8.7	8.3
55°	6.4	6.4	5.8	6.2	6.2
57.5°	4.8	4.8	4.2	4.6	4.6
60°	3.8	3.6	3.2	3.6	3.6
62.5°	2.8	2.8	2.4	2.8	2.8
65°	2.2	2.2	2.0	2.2	2.2
67.5°	1.8	1.8	1.4	1.8	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)