

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 EX4C089027 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: LD4C08D010 EX4C089027 4LCSQWLI  
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS AND 4LCSQW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

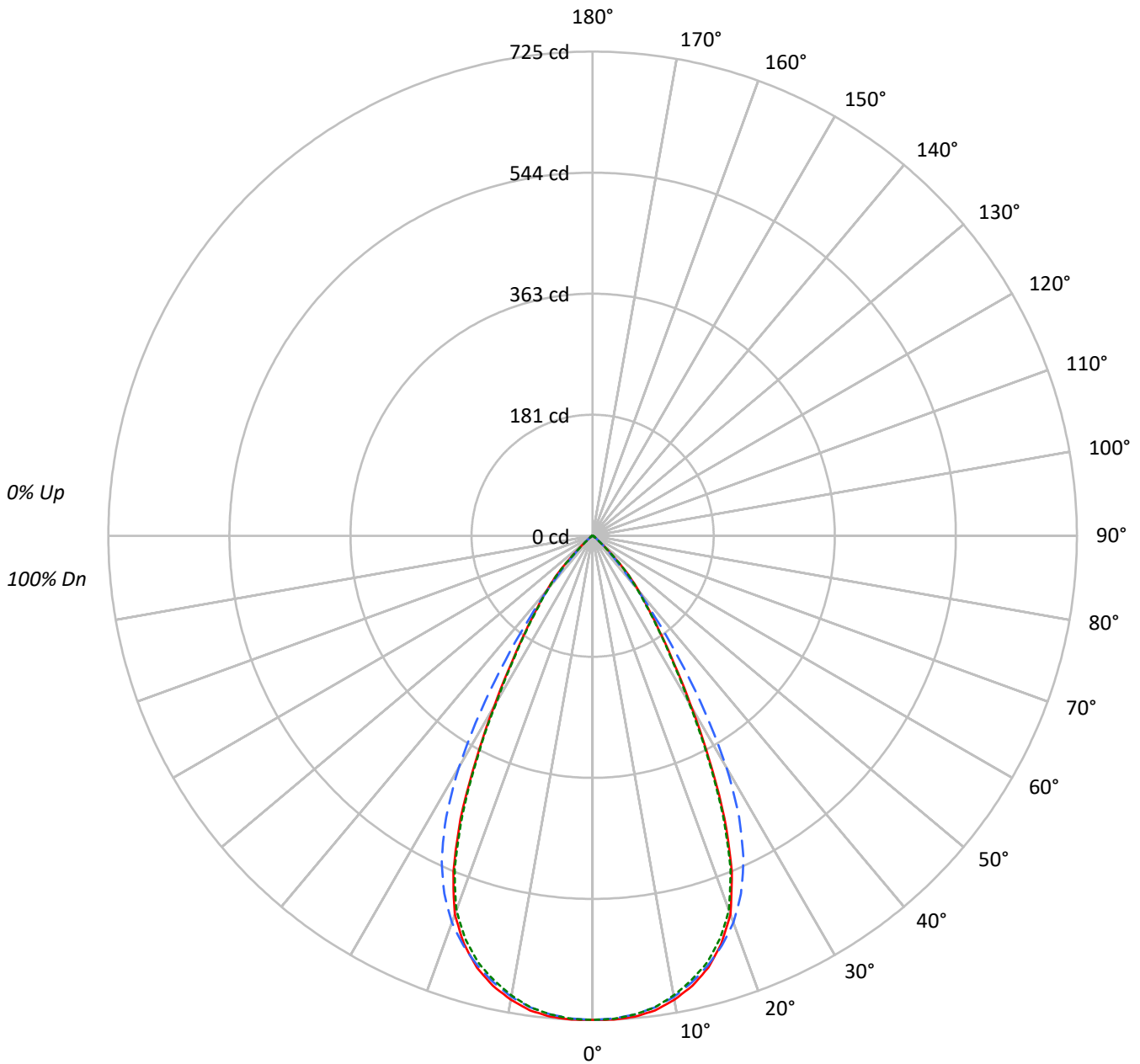
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 649.0 lumens  
Efficiency: N/A  
Efficacy: 65.6 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): 9.9  
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

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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°	69945	69945	69945
5°	70018	69699	69699
10°	69103	68692	68486
15°	66858	66548	66099
20°	61917	63272	61239
25°	49782	56916	49133
30°	32857	44622	32077
35°	20543	26797	20166
40°	13402	12419	12885
45°	6454	4953	6086
50°	1621	1981	1531
55°	892	807	875
60°	618	521	579
65°	411	388	411
70°	339	282	339
75°	261	261	261
80°	167	278	278
85°	221	332	332



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.2	10.5
10°-20°	186.2	28.7
20°-30°	221.9	34.2
30°-40°	125.6	19.4
40°-50°	38.8	6.0
50°-60°	5.4	0.8
60°-70°	1.8	0.3
70°-80°	0.7	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°	476.2	73.4
0°-40°	601.9	92.7
0°-60°	646.1	99.6
0°-90°	649.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	649.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	725	725	725	725	725	
5°	723	721	720	719	720	68
15°	669	668	666	664	662	187
25°	468	495	535	496	462	209
35°	174	190	228	191	171	113
45°	47	55	36	54	45	39
55°	5	5	5	5	5	5
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°	724.9	724.9	724.9	724.9	724.9
2.5°	725.1	723.9	723.6	723.3	723.9
5°	722.9	721.3	719.6	719.1	719.6
7.5°	716.8	715.1	712.3	711.6	712.1
10°	705.3	703.8	701.1	699.6	699.0
12.5°	690.1	687.6	685.1	683.5	681.8
15°	669.3	668.2	666.2	663.5	661.7
17.5°	640.5	642.2	643.3	638.0	633.2
20°	603.0	609.2	616.2	605.4	596.4
22.5°	544.6	562.2	580.1	559.6	539.6
25°	467.6	495.0	534.6	495.8	461.5
27.5°	377.9	412.5	475.0	412.7	372.9
30°	294.9	330.6	400.5	325.9	287.9
32.5°	226.5	253.1	312.9	249.1	221.7
35°	174.4	190.2	227.5	190.7	171.2
37.5°	135.6	143.6	153.0	140.7	131.6
40°	106.4	106.8	98.6	105.1	102.3
42.5°	78.9	78.6	60.6	76.6	77.1
45°	47.3	55.1	36.3	53.6	44.6
47.5°	22.5	31.1	21.8	29.5	20.8
50°	10.8	15.0	13.2	14.0	10.2
52.5°	7.3	7.7	7.5	7.3	7.0
55°	5.3	5.3	4.8	5.2	5.2
57.5°	4.0	4.0	3.5	3.8	3.8
60°	3.2	3.0	2.7	3.0	3.0
62.5°	2.3	2.3	2.0	2.3	2.3
65°	1.8	1.8	1.7	1.8	1.8
67.5°	1.5	1.5	1.2	1.5	1.3
70°	1.2	1.2	1.0	1.2	1.2
72.5°	0.8	0.8	0.8	0.8	0.8
75°	0.7	0.7	0.7	0.7	0.7
77.5°	0.5	0.5	0.5	0.5	0.5
80°	0.3	0.3	0.5	0.5	0.5
82.5°	0.3	0.3	0.3	0.3	0.3
85°	0.2	0.3	0.3	0.3	0.3
87.5°	0.2	0.2	0.3	0.3	0.3
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)