

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: **LD4C15D010 EX4C159035 4LCSQWH**

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 (G1-2105-247-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/18/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C15D010 EX4C159035 4LCSQWH  
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LCSQW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

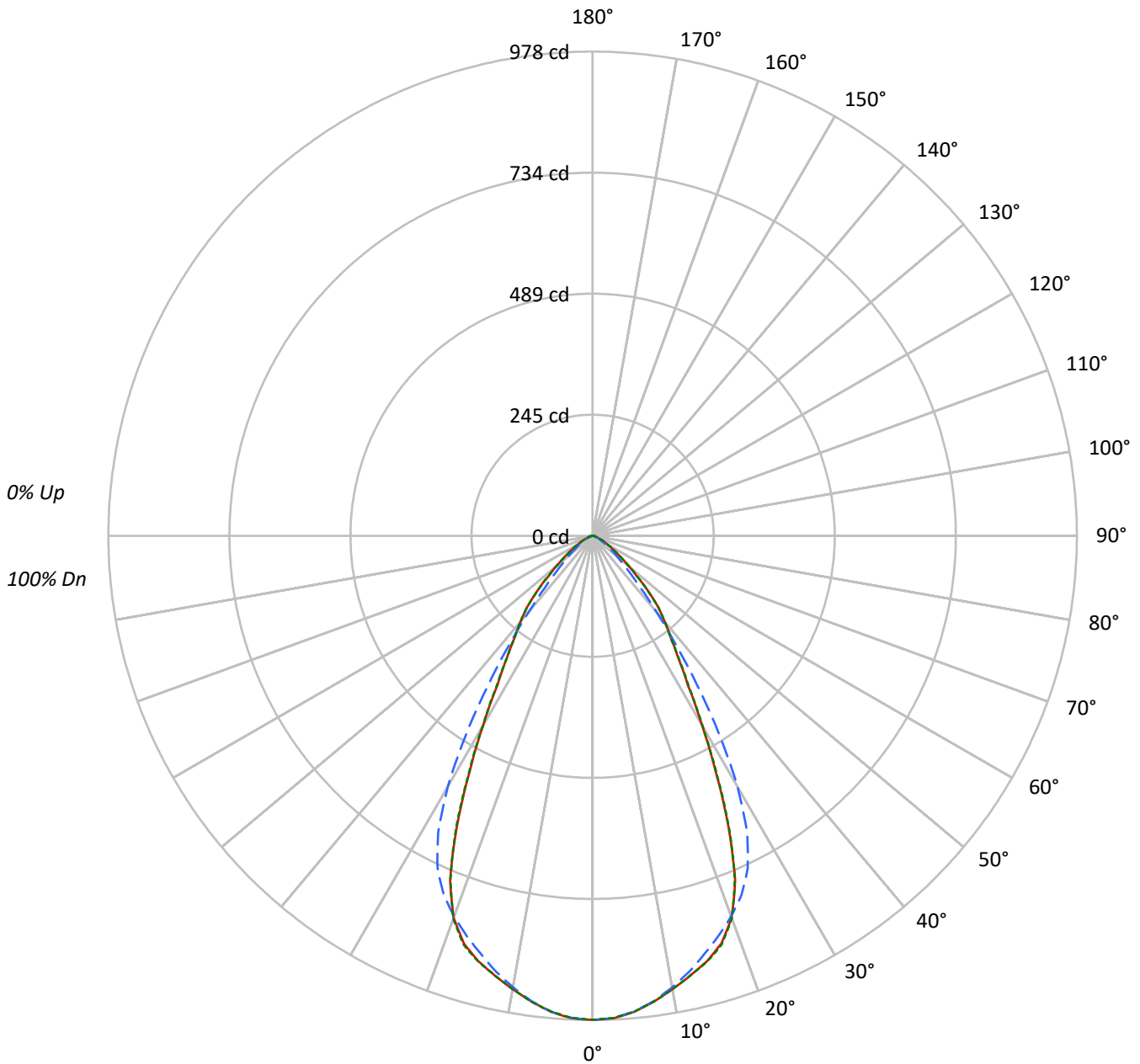
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1035.0 lumens  
Efficiency: N/A  
Efficacy: 65.5 lumens/watt  
Spacing Criteria (0/90/45): 0.93 / 0.93 / 0.94  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 15.8  
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

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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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92																			
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84																			
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77																			
4	95	87	80	76	93	85	80	75	83	78	74	81	77	74	79	76	73	71																			
5	89	80	74	69	88	79	73	69	78	72	68	76	71	68	74	70	67	66																			
6	85	75	68	64	83	74	68	63	72	67	63	71	66	63	70	65	62	61																			
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	65	61	58	56																			
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52																			
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49																			
10	68	58	52	48	67	57	51	47	57	51	47	56	51	47	55	50	47	46																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	94356	94356	94356
5°	93487	93429	93458
10°	91099	90737	91099
15°	88904	87306	88994
20°	84291	83973	84455
25°	69148	78890	69500
30°	49301	65178	49368
35°	35561	43194	35667
40°	28517	25091	28517
45°	21751	14642	21587
50°	14351	9352	14305
55°	9656	6275	9538
60°	6484	4284	6542
65°	4429	3037	4361
70°	2962	2172	2962
75°	1939	1603	1939
80°	1389	1222	1389
85°	996	996	996



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.9	8.8
10°-20°	247.9	23.9
20°-30°	309.9	29.9
30°-40°	208.5	20.1
40°-50°	110.1	10.6
50°-60°	44.7	4.3
60°-70°	16.6	1.6
70°-80°	5.4	0.5
80°-90°	1.1	0.1
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°	648.6	62.7
0°-40°	857.1	82.8
0°-60°	1011.9	97.8
0°-90°	1035.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1035.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	978	978	978	978	978	
5°	965	964	965	965	965	91
15°	890	883	874	882	891	249
25°	650	686	741	687	653	292
35°	302	317	367	318	303	194
45°	159	151	107	151	158	122
55°	57	48	37	48	57	53
65°	19	16	13	16	19	20
75°	5	5	4	5	5	6
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	977.9	977.9	977.9	977.9	977.9
2.5°	975.4	974.8	974.5	974.5	974.8
5°	965.2	964.3	964.6	964.6	964.9
7.5°	948.9	948.6	947.7	948.9	948.9
10°	929.8	928.2	926.1	928.5	929.8
12.5°	910.0	905.4	901.7	905.4	910.0
15°	890.0	882.6	874.0	882.3	890.9
17.5°	863.8	856.4	846.8	857.9	866.2
20°	820.9	821.5	817.8	820.9	822.5
22.5°	752.1	766.0	785.4	766.3	750.0
25°	649.5	685.8	741.0	687.1	652.8
27.5°	539.4	585.6	676.0	588.4	542.8
30°	442.5	483.5	585.0	486.3	443.1
32.5°	358.3	388.9	475.5	392.6	362.3
35°	301.9	317.0	366.7	317.6	302.8
37.5°	258.7	258.7	272.3	260.0	257.5
40°	226.4	216.5	199.2	216.2	226.4
42.5°	196.1	181.3	144.6	180.7	196.7
45°	159.4	151.4	107.3	150.8	158.2
47.5°	122.4	116.9	80.8	116.3	123.4
50°	95.6	87.0	62.3	86.3	95.3
52.5°	73.4	64.1	48.1	64.1	72.8
55°	57.4	48.1	37.3	48.1	56.7
57.5°	44.1	36.7	28.4	36.1	43.8
60°	33.6	27.4	22.2	27.4	33.9
62.5°	25.6	21.0	17.0	20.7	25.3
65°	19.4	15.7	13.3	15.7	19.1
67.5°	14.2	11.7	10.2	11.7	14.5
70°	10.5	8.9	7.7	8.6	10.5
72.5°	7.7	6.5	5.9	6.5	7.7
75°	5.2	4.6	4.3	4.6	5.2
77.5°	3.7	3.4	3.1	3.4	3.7
80°	2.5	2.2	2.2	2.5	2.5
82.5°	1.5	1.5	1.5	1.5	1.5
85°	0.9	0.9	0.9	0.9	0.9
87.5°	0.6	0.6	0.6	0.6	0.6
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)