

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

Luminaire Equipment: Sample No.   Condition   Description

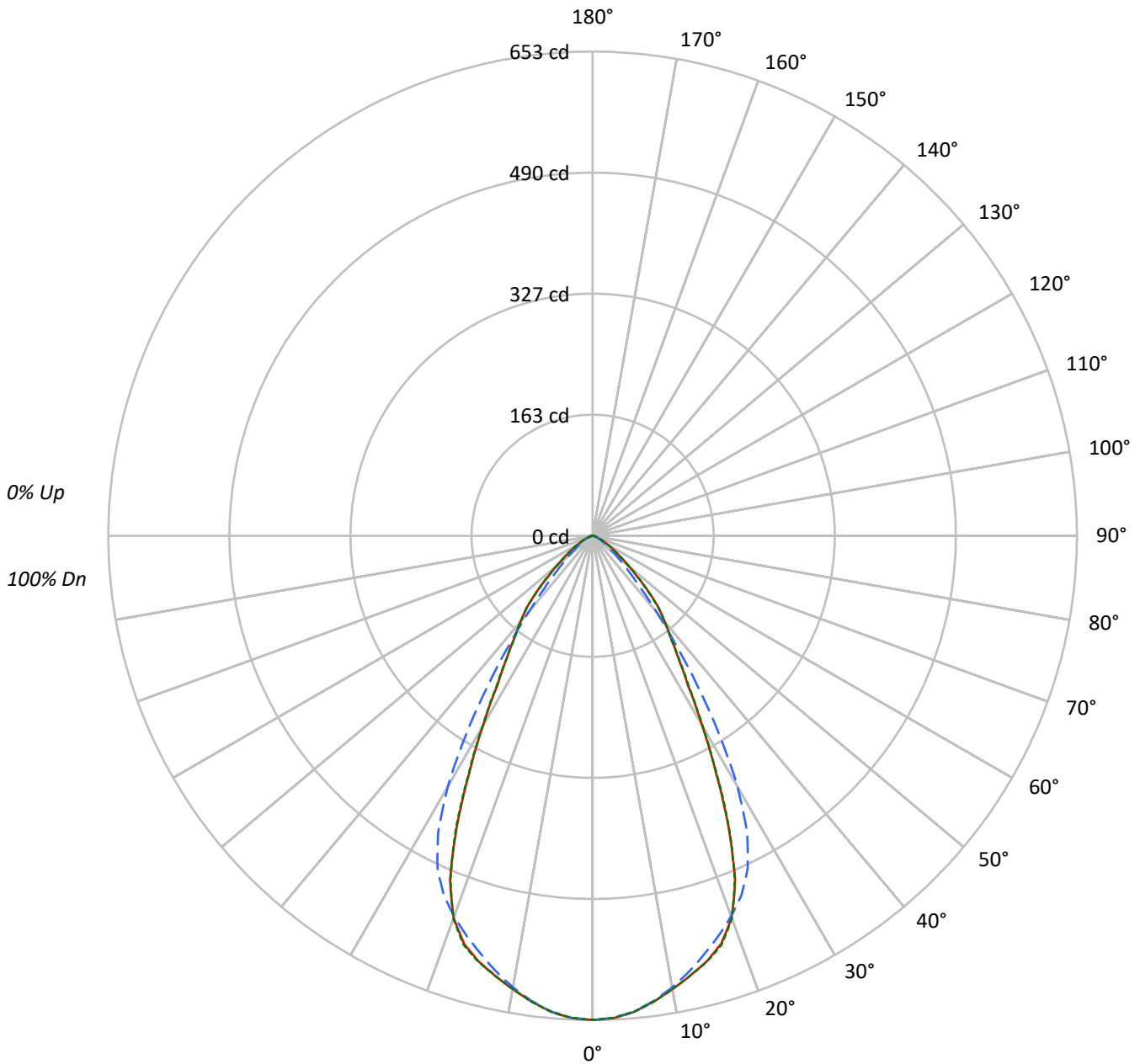
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 691.0 lumens  
Efficiency: N/A  
Efficacy: 70.5 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): 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	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	90	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°	62998	62998	62998
5°	62415	62376	62396
10°	60815	60579	60815
15°	59356	58287	59416
20°	56280	56064	56382
25°	46163	52668	46408
30°	32912	43519	32968
35°	23747	28835	23817
40°	19032	16752	19032
45°	14519	9770	14410
50°	9577	6245	9547
55°	6443	4189	6376
60°	4323	2856	4361
65°	2968	2032	2922
70°	1975	1439	1975
75°	1305	1081	1305
80°	889	778	889
85°	664	664	664



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.7	8.8
10°-20°	165.5	24.0
20°-30°	206.9	29.9
30°-40°	139.2	20.1
40°-50°	73.5	10.6
50°-60°	29.9	4.3
60°-70°	11.1	1.6
70°-80°	3.6	0.5
80°-90°	0.7	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°	433.1	62.7
0°-40°	572.2	82.8
0°-60°	675.6	97.8
0°-90°	691.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	691.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	653	653	653	653	653	
5°	644	644	644	644	644	61
15°	594	589	584	589	595	166
25°	434	458	495	459	436	195
35°	202	212	245	212	202	130
45°	106	101	72	101	106	82
55°	38	32	25	32	38	35
65°	13	10	9	10	13	13
75°	4	3	3	3	4	4
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°	652.9	652.9	652.9	652.9	652.9
2.5°	651.2	650.8	650.6	650.6	650.8
5°	644.4	643.8	644.0	644.0	644.2
7.5°	633.5	633.3	632.7	633.5	633.5
10°	620.7	619.7	618.3	619.9	620.7
12.5°	607.6	604.5	602.0	604.5	607.6
15°	594.2	589.2	583.5	589.0	594.8
17.5°	576.7	571.7	565.4	572.8	578.3
20°	548.1	548.5	546.0	548.1	549.1
22.5°	502.2	511.4	524.4	511.6	500.7
25°	433.6	457.9	494.7	458.7	435.9
27.5°	360.1	391.0	451.3	392.8	362.4
30°	295.4	322.8	390.6	324.7	295.9
32.5°	239.2	259.6	317.5	262.1	241.9
35°	201.6	211.7	244.8	212.1	202.2
37.5°	172.7	172.7	181.8	173.6	171.9
40°	151.1	144.5	133.0	144.3	151.1
42.5°	130.9	121.1	96.6	120.6	131.4
45°	106.4	101.1	71.6	100.7	105.6
47.5°	81.7	78.0	53.9	77.6	82.4
50°	63.8	58.1	41.6	57.6	63.6
52.5°	49.0	42.8	32.1	42.8	48.6
55°	38.3	32.1	24.9	32.1	37.9
57.5°	29.4	24.5	18.9	24.1	29.2
60°	22.4	18.3	14.8	18.3	22.6
62.5°	17.1	14.0	11.3	13.8	16.9
65°	13.0	10.5	8.9	10.5	12.8
67.5°	9.5	7.8	6.8	7.8	9.7
70°	7.0	6.0	5.1	5.8	7.0
72.5°	5.1	4.3	3.9	4.3	5.1
75°	3.5	3.1	2.9	3.1	3.5
77.5°	2.5	2.3	2.1	2.3	2.5
80°	1.6	1.4	1.4	1.6	1.6
82.5°	1.0	1.0	1.0	1.0	1.0
85°	0.6	0.6	0.6	0.6	0.6
87.5°	0.4	0.4	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)