

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: **LD4C70D010 EX4C709040 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: LD4C70D010 EX4C709040 4LCSQWH  
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 4LCSQW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

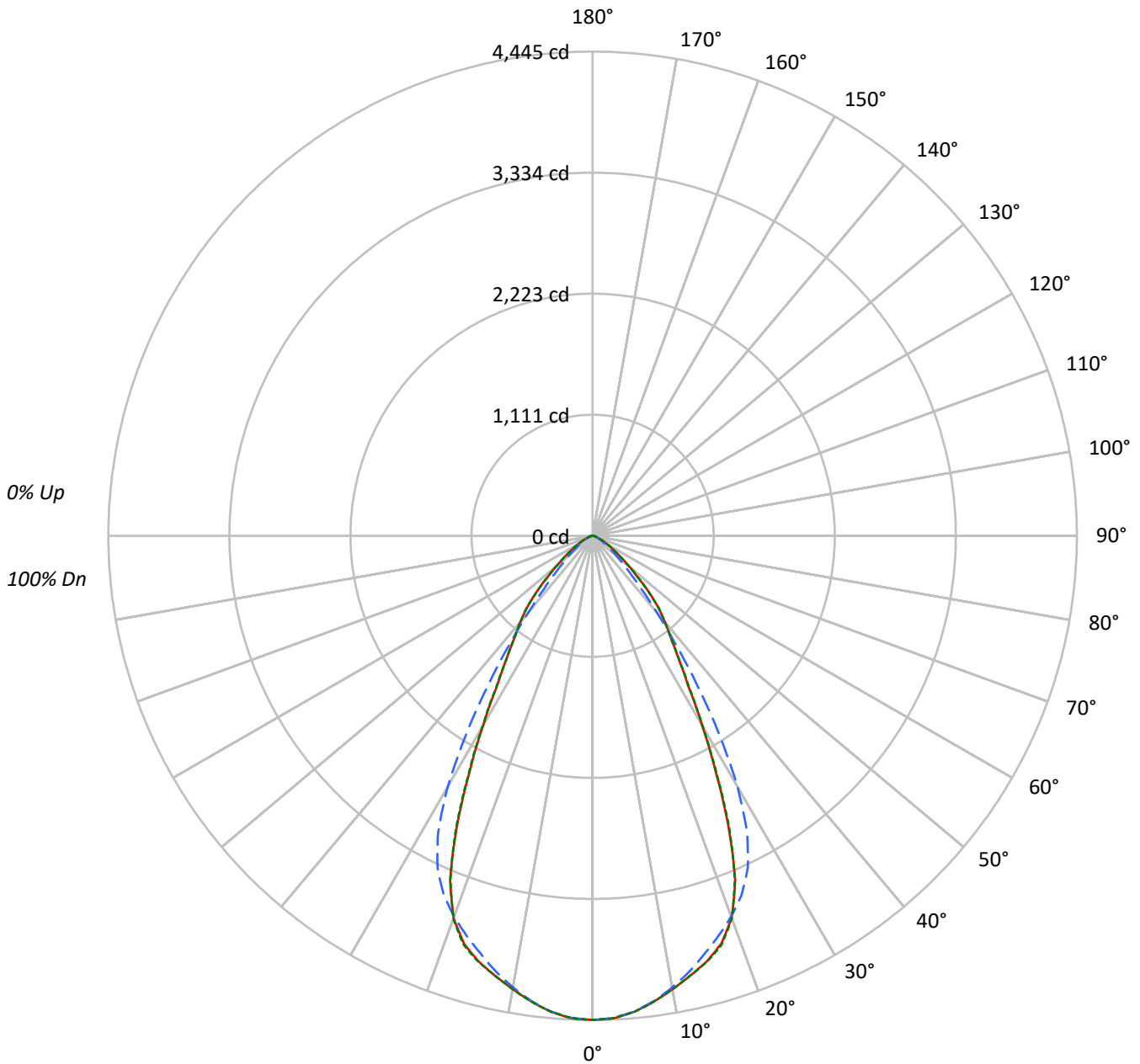
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4705.0 lumens  
Efficiency: N/A  
Efficacy: 60.3 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): 78  
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	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°	428922	428922	428922
5°	425001	424730	424865
10°	414111	412465	414111
15°	404146	396864	404565
20°	383186	381749	383905
25°	314313	358644	315963
30°	224135	296299	224447
35°	161657	196334	162151
40°	129610	114067	129610
45°	98903	66577	98139
50°	65238	42511	65028
55°	43856	28531	43385
60°	29487	19471	29757
65°	20160	13767	19840
70°	13457	9874	13457
75°	8873	7307	8873
80°	6223	5445	6223
85°	4650	4650	4650



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	413.2	8.8
10°-20°	1126.8	23.9
20°-30°	1408.6	29.9
30°-40°	947.6	20.1
40°-50°	500.4	10.6
50°-60°	203.4	4.3
60°-70°	75.4	1.6
70°-80°	24.3	0.5
80°-90°	5.2	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°	2948.7	62.7
0°-40°	3896.3	82.8
0°-60°	4600.0	97.8
0°-90°	4705.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4705.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4445	4445	4445	4445	4445	
5°	4388	4384	4385	4385	4386	414
15°	4046	4012	3973	4011	4050	1133
25°	2952	3118	3369	3123	2968	1329
35°	1372	1441	1667	1444	1377	883
45°	725	688	488	686	719	556
55°	261	219	170	219	258	242
65°	88	72	60	72	87	91
75°	24	21	20	21	24	28
85°	4	4	4	4	4	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4445.3	4445.3	4445.3	4445.3	4445.3
2.5°	4434.1	4431.3	4429.9	4429.9	4431.3
5°	4387.9	4383.7	4385.1	4385.1	4386.5
7.5°	4313.6	4312.2	4308.0	4313.6	4313.6
10°	4226.6	4219.6	4209.8	4221.0	4226.6
12.5°	4136.9	4115.9	4099.1	4115.9	4136.9
15°	4045.8	4012.2	3972.9	4010.8	4050.0
17.5°	3926.6	3893.0	3849.5	3900.0	3937.9
20°	3731.8	3734.6	3717.8	3731.8	3738.8
22.5°	3419.2	3482.3	3570.6	3483.7	3409.4
25°	2952.3	3117.8	3368.7	3123.4	2967.8
27.5°	2451.9	2662.2	3072.9	2674.8	2467.3
30°	2011.7	2198.1	2659.4	2210.8	2014.5
32.5°	1629.0	1767.8	2161.7	1784.6	1647.2
35°	1372.4	1441.1	1666.8	1443.9	1376.6
37.5°	1176.2	1176.2	1237.9	1181.8	1170.6
40°	1029.0	984.1	905.6	982.7	1029.0
42.5°	891.6	824.3	657.5	821.5	894.4
45°	724.8	688.3	487.9	685.5	719.2
47.5°	556.5	531.3	367.3	528.5	560.7
50°	434.6	395.3	283.2	392.5	433.2
52.5°	333.6	291.6	218.7	291.6	330.8
55°	260.7	218.7	169.6	218.7	257.9
57.5°	200.5	166.8	129.0	164.0	199.1
60°	152.8	124.8	100.9	124.8	154.2
62.5°	116.4	95.3	77.1	93.9	115.0
65°	88.3	71.5	60.3	71.5	86.9
67.5°	64.5	53.3	46.3	53.3	65.9
70°	47.7	40.7	35.0	39.3	47.7
72.5°	35.0	29.4	26.6	29.4	35.0
75°	23.8	21.0	19.6	21.0	23.8
77.5°	16.8	15.4	14.0	15.4	16.8
80°	11.2	9.8	9.8	11.2	11.2
82.5°	7.0	7.0	7.0	7.0	7.0
85°	4.2	4.2	4.2	4.2	4.2
87.5°	2.8	2.8	2.8	2.8	2.8
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)