

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: **LD4C90D010 EX4C909040 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: LD4C90D010 EX4C909040 4LCSQWH  
Description: 4 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 4LCSQW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

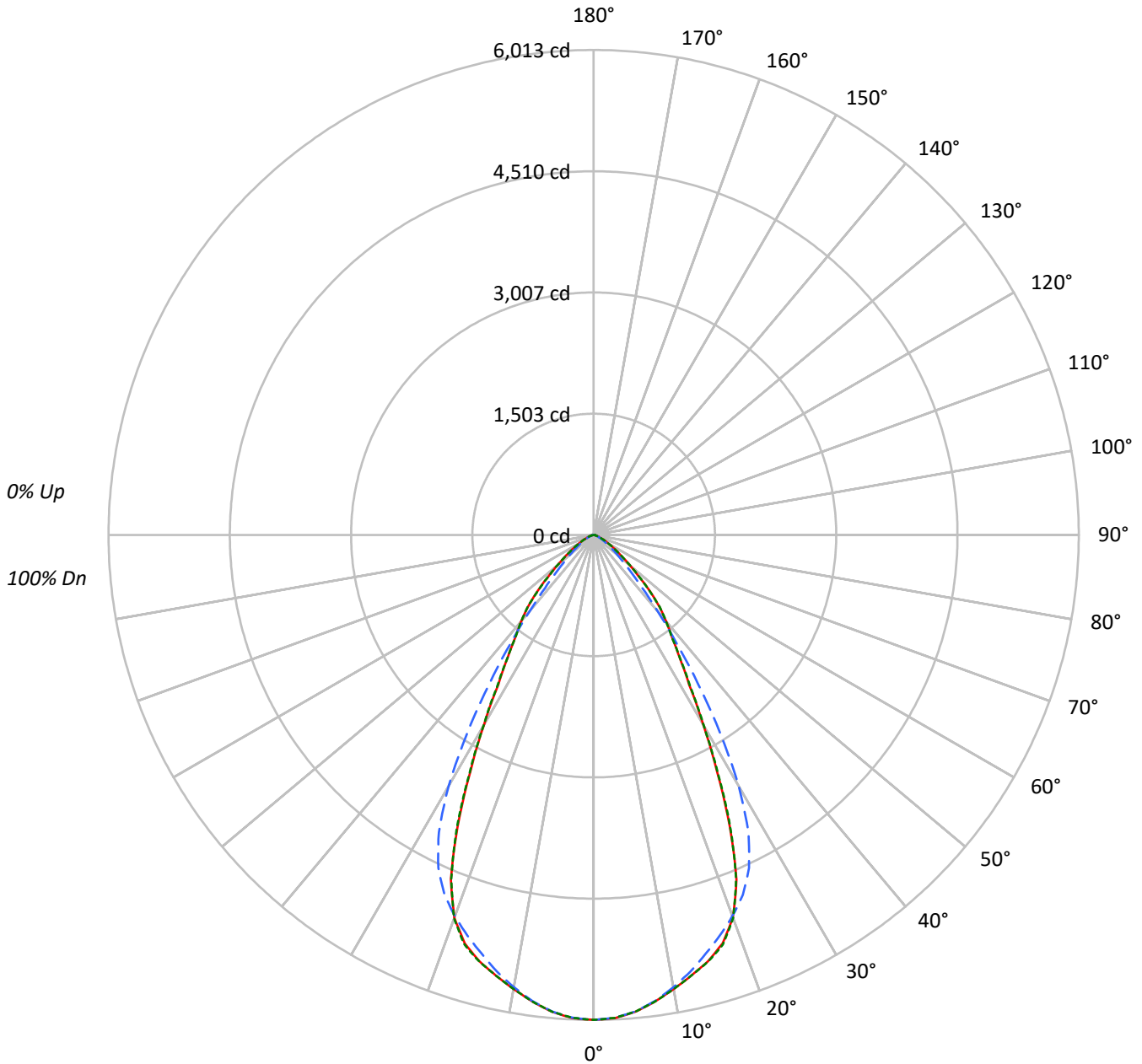
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6364.0 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): 97.1  
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°	580168	580168	580168
5°	574849	574481	574665
10°	560137	557903	560137
15°	546653	536803	547222
20°	518294	516354	519270
25°	425152	485102	427367
30°	303162	400774	303586
35°	218668	265572	219327
40°	175307	154285	175307
45°	133768	90047	132731
50°	88235	57492	87949
55°	59332	38590	58693
60°	39889	26341	40255
65°	27283	18607	26850
70°	18196	13372	18196
75°	12004	9879	12004
80°	8446	7390	8446
85°	6310	6310	6310



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	558.9	8.8
10°-20°	1524.1	23.9
20°-30°	1905.3	29.9
30°-40°	1281.7	20.1
40°-50°	676.8	10.6
50°-60°	275.1	4.3
60°-70°	102.0	1.6
70°-80°	32.9	0.5
80°-90°	7.1	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°	3988.4	62.7
0°-40°	5270.1	82.8
0°-60°	6222.0	97.8
0°-90°	6364.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6364.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6013	6013	6013	6013	6013	
5°	5935	5929	5931	5931	5933	559
15°	5472	5427	5374	5425	5478	1533
25°	3993	4217	4556	4225	4014	1797
35°	1856	1949	2255	1953	1862	1195
45°	980	931	660	927	973	752
55°	353	296	229	296	349	327
65°	120	97	82	97	118	123
75°	32	28	26	28	32	37
85°	6	6	6	6	6	7
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6012.8	6012.8	6012.8	6012.8	6012.8
2.5°	5997.6	5993.8	5991.9	5991.9	5993.8
5°	5935.0	5929.4	5931.2	5931.2	5933.1
7.5°	5834.5	5832.6	5827.0	5834.5	5834.5
10°	5717.0	5707.5	5694.2	5709.4	5717.0
12.5°	5595.6	5567.2	5544.4	5567.2	5595.6
15°	5472.4	5426.9	5373.8	5425.0	5478.1
17.5°	5311.2	5265.7	5206.9	5275.2	5326.4
20°	5047.6	5051.4	5028.7	5047.6	5057.1
22.5°	4624.8	4710.1	4829.6	4712.0	4611.5
25°	3993.4	4217.1	4556.5	4224.7	4014.2
27.5°	3316.4	3600.8	4156.4	3617.9	3337.3
30°	2721.0	2973.2	3597.1	2990.3	2724.8
32.5°	2203.4	2391.1	2923.9	2413.8	2228.0
35°	1856.4	1949.3	2254.6	1953.1	1862.0
37.5°	1590.9	1590.9	1674.3	1598.5	1583.3
40°	1391.8	1331.1	1224.9	1329.2	1391.8
42.5°	1206.0	1115.0	889.3	1111.2	1209.8
45°	980.3	931.0	659.9	927.2	972.7
47.5°	752.8	718.7	496.8	714.9	758.5
50°	587.8	534.7	383.0	530.9	585.9
52.5°	451.3	394.4	295.8	394.4	447.5
55°	352.7	295.8	229.4	295.8	348.9
57.5°	271.2	225.6	174.4	221.9	269.3
60°	206.7	168.8	136.5	168.8	208.6
62.5°	157.4	128.9	104.3	127.0	155.5
65°	119.5	96.7	81.5	96.7	117.6
67.5°	87.2	72.1	62.6	72.1	89.1
70°	64.5	55.0	47.4	53.1	64.5
72.5°	47.4	39.8	36.0	39.8	47.4
75°	32.2	28.4	26.5	28.4	32.2
77.5°	22.8	20.9	19.0	20.9	22.8
80°	15.2	13.3	13.3	15.2	15.2
82.5°	9.5	9.5	9.5	9.5	9.5
85°	5.7	5.7	5.7	5.7	5.7
87.5°	3.8	3.8	3.8	3.8	3.8
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)