

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: **LD4C50D010 EX4C509050 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: LD4C50D010 EX4C509050 4LCSQWLI  
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LCSQW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

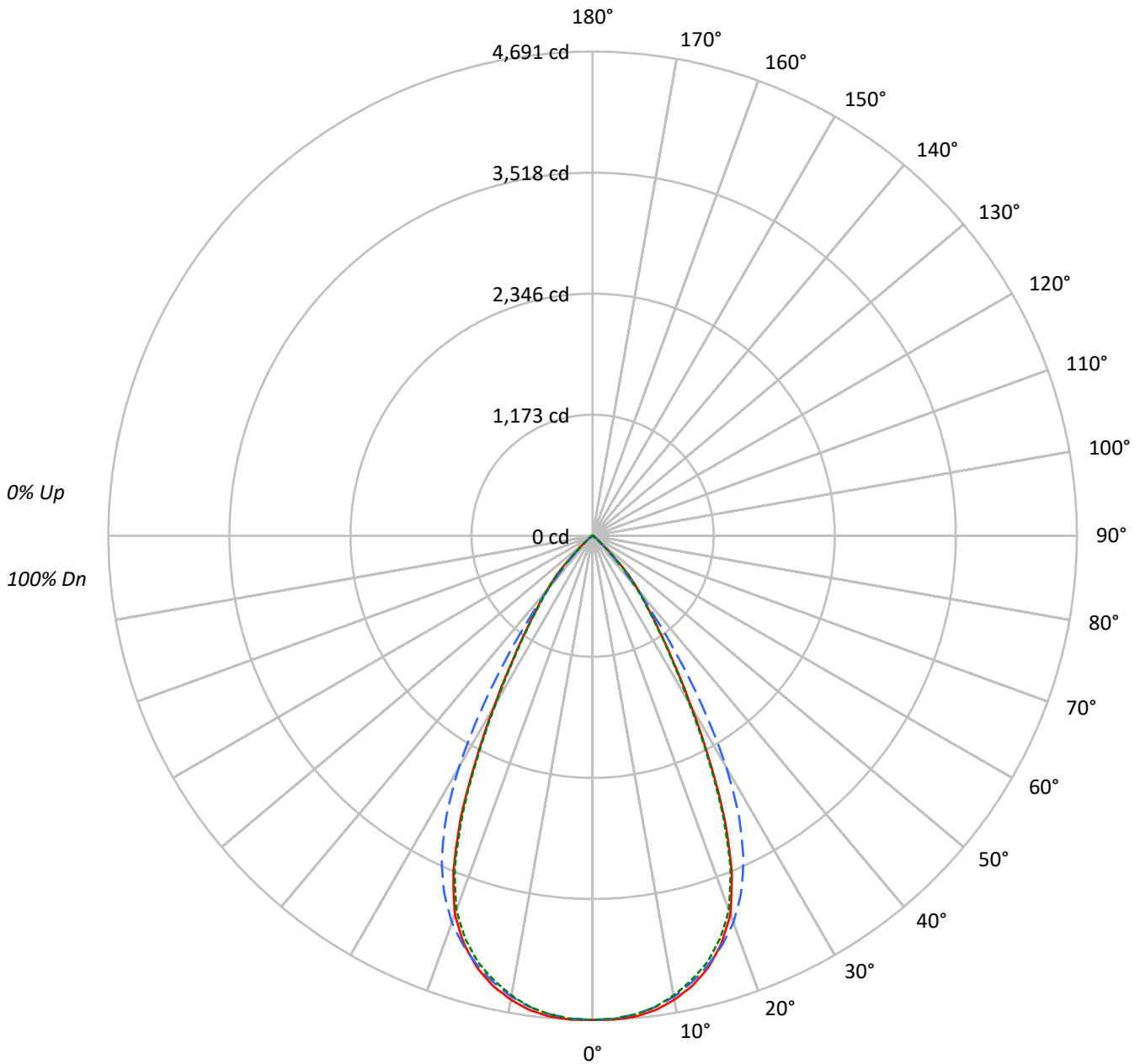
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4199.0 lumens  
Efficiency: N/A  
Efficacy: 71.9 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): 58.4  
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°	452572	452572	452572
5°	453041	450959	450959
10°	447090	444455	443083
15°	432585	430537	427630
20°	400622	409370	396196
25°	322117	368237	317879
30°	212615	288723	207568
35°	132880	173377	130477
40°	86722	80348	83333
45°	41756	32053	39408
50°	10508	12774	9862
55°	5804	5249	5619
60°	3956	3319	3744
65°	2717	2466	2717
70°	2116	1834	2116
75°	1603	1603	1603
80°	1222	1778	1778
85°	1218	2436	2436



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	441.1	10.5
10°-20°	1204.6	28.7
20°-30°	1435.5	34.2
30°-40°	812.9	19.4
40°-50°	251.3	6.0
50°-60°	34.9	0.8
60°-70°	11.9	0.3
70°-80°	4.7	0.1
80°-90°	2.0	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°	3081.2	73.4
0°-40°	3894.1	92.7
0°-60°	4180.4	99.6
0°-90°	4199.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4199.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4690	4690	4690	4690	4690	
5°	4677	4667	4656	4653	4656	443
15°	4330	4323	4310	4293	4281	1208
25°	3026	3202	3459	3208	2986	1349
35°	1128	1230	1472	1234	1108	734
45°	306	357	235	347	289	253
55°	34	34	31	33	33	34
65°	12	12	11	12	12	13
75°	4	4	4	4	4	5
85°	1	2	2	2	2	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4690.4	4690.4	4690.4	4690.4	4690.4
2.5°	4691.4	4683.9	4681.7	4679.6	4683.9
5°	4677.4	4666.7	4655.9	4652.6	4655.9
7.5°	4637.6	4626.8	4608.5	4604.2	4607.4
10°	4563.2	4553.5	4536.3	4526.6	4522.3
12.5°	4465.2	4449.0	4432.8	4422.1	4411.3
15°	4330.5	4322.9	4310.0	4292.8	4280.9
17.5°	4144.1	4154.8	4162.4	4127.9	4096.7
20°	3901.6	3941.5	3986.8	3916.7	3858.5
22.5°	3523.4	3637.6	3752.9	3620.4	3491.1
25°	3025.6	3202.3	3458.8	3207.7	2985.8
27.5°	2444.8	2669.0	3073.0	2670.0	2412.5
30°	1908.3	2138.8	2591.4	2108.7	1863.0
32.5°	1465.4	1637.8	2024.6	1611.9	1434.2
35°	1128.1	1230.5	1471.9	1233.7	1107.7
37.5°	877.1	928.8	990.2	910.5	851.2
40°	688.5	690.7	637.9	679.9	661.6
42.5°	510.7	508.6	392.2	495.7	498.9
45°	306.0	356.7	234.9	347.0	288.8
47.5°	145.5	201.5	141.2	190.7	134.7
50°	70.0	97.0	85.1	90.5	65.7
52.5°	47.4	49.6	48.5	47.4	45.3
55°	34.5	34.5	31.2	33.4	33.4
57.5°	25.9	25.9	22.6	24.8	24.8
60°	20.5	19.4	17.2	19.4	19.4
62.5°	15.1	15.1	12.9	15.1	15.1
65°	11.9	11.9	10.8	11.9	11.9
67.5°	9.7	9.7	7.5	9.7	8.6
70°	7.5	7.5	6.5	7.5	7.5
72.5°	5.4	5.4	5.4	5.4	5.4
75°	4.3	4.3	4.3	4.3	4.3
77.5°	3.2	3.2	3.2	3.2	3.2
80°	2.2	2.2	3.2	3.2	3.2
82.5°	2.2	2.2	2.2	2.2	2.2
85°	1.1	2.2	2.2	2.2	2.2
87.5°	1.1	1.1	2.2	2.2	2.2
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)