

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 EX4C509030 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 EX4C509030 4LCSQWLI  
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LCSQW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

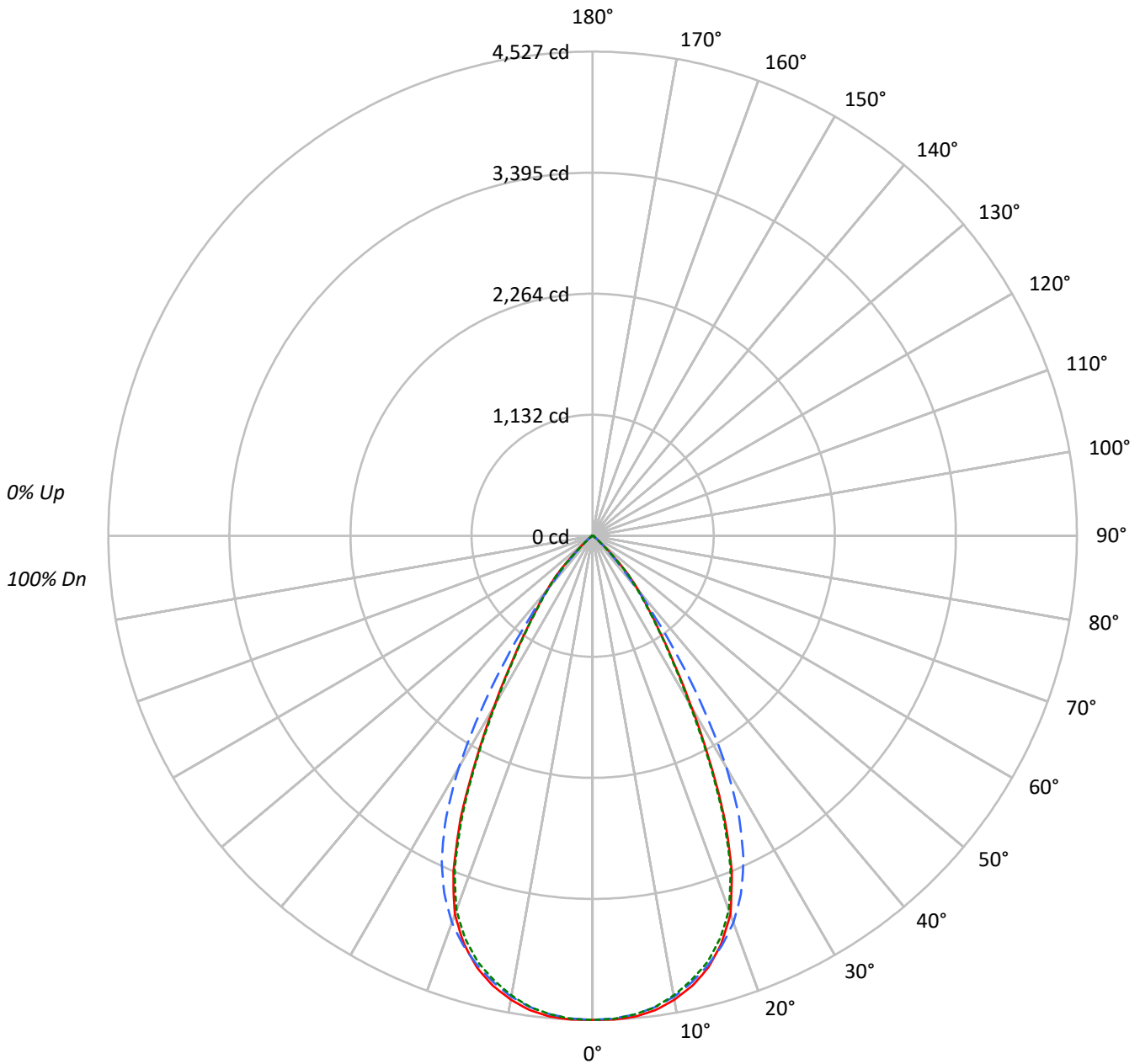
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4052.0 lumens  
Efficiency: N/A  
Efficacy: 69.4 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 (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	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°	436728	436728	436728
5°	437186	435171	435171
10°	431443	428896	427573
15°	417441	415464	412657
20°	386595	395036	382324
25°	310842	355344	306743
30°	205161	278617	200303
35°	128227	167299	125907
40°	83686	77527	80411
45°	40295	30935	38030
50°	10147	12324	9517
55°	5602	5080	5417
60°	3821	3203	3609
65°	2603	2374	2603
70°	2059	1749	2059
75°	1566	1566	1566
80°	1167	1723	1723
85°	1107	2325	2325



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	425.7	10.5
10°-20°	1162.4	28.7
20°-30°	1385.3	34.2
30°-40°	784.4	19.4
40°-50°	242.5	6.0
50°-60°	33.7	0.8
60°-70°	11.5	0.3
70°-80°	4.6	0.1
80°-90°	1.9	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°	2973.4	73.4
0°-40°	3757.8	92.7
0°-60°	4034.0	99.6
0°-90°	4052.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4052.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4526	4526	4526	4526	4526	
5°	4514	4503	4493	4490	4493	427
15°	4179	4172	4159	4142	4131	1165
25°	2920	3090	3338	3095	2881	1302
35°	1089	1187	1420	1190	1069	709
45°	295	344	227	335	279	244
55°	33	33	30	32	32	33
65°	11	11	10	11	11	12
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°	4526.2	4526.2	4526.2	4526.2	4526.2
2.5°	4527.2	4519.9	4517.8	4515.8	4519.9
5°	4513.7	4503.3	4492.9	4489.8	4492.9
7.5°	4475.2	4464.8	4447.1	4443.0	4446.1
10°	4403.5	4394.1	4377.5	4368.1	4364.0
12.5°	4308.8	4293.2	4277.7	4267.3	4256.9
15°	4178.9	4171.6	4159.1	4142.5	4131.0
17.5°	3999.0	4009.4	4016.7	3983.4	3953.2
20°	3765.0	3803.5	3847.2	3779.6	3723.4
22.5°	3400.1	3510.3	3621.6	3493.7	3368.9
25°	2919.7	3090.2	3337.7	3095.4	2881.2
27.5°	2359.3	2575.5	2965.5	2576.6	2328.1
30°	1841.4	2064.0	2500.7	2034.8	1797.8
32.5°	1414.1	1580.5	1953.7	1555.5	1383.9
35°	1088.6	1187.4	1420.3	1190.5	1068.9
37.5°	846.4	896.3	955.6	878.6	821.4
40°	664.4	666.5	615.5	656.1	638.4
42.5°	492.9	490.8	378.5	478.3	481.4
45°	295.3	344.2	226.7	334.8	278.7
47.5°	140.4	194.4	136.2	184.0	130.0
50°	67.6	93.6	82.1	87.3	63.4
52.5°	45.8	47.8	46.8	45.8	43.7
55°	33.3	33.3	30.2	32.2	32.2
57.5°	25.0	25.0	21.8	23.9	23.9
60°	19.8	18.7	16.6	18.7	18.7
62.5°	14.6	14.6	12.5	14.6	14.6
65°	11.4	11.4	10.4	11.4	11.4
67.5°	9.4	9.4	7.3	9.4	8.3
70°	7.3	7.3	6.2	7.3	7.3
72.5°	5.2	5.2	5.2	5.2	5.2
75°	4.2	4.2	4.2	4.2	4.2
77.5°	3.1	3.1	3.1	3.1	3.1
80°	2.1	2.1	3.1	3.1	3.1
82.5°	2.1	2.1	2.1	2.1	2.1
85°	1.0	2.1	2.1	2.1	2.1
87.5°	1.0	1.0	2.1	2.1	2.1
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)