

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: **LD4C45D010 EX4C459035 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: LD4C45D010 EX4C459035 4LCSQWLI  
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LCSQW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

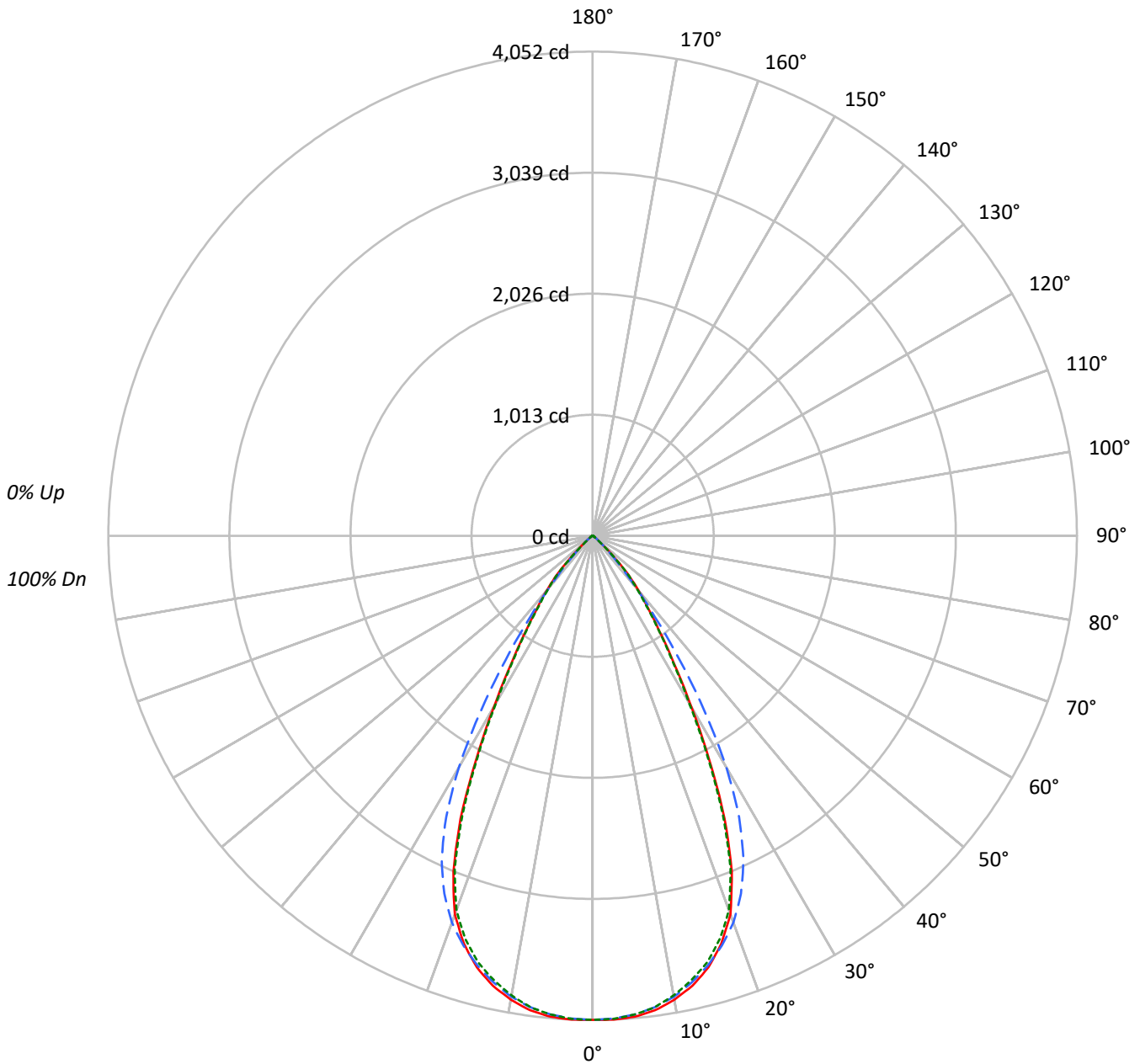
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3627.0 lumens  
Efficiency: N/A  
Efficacy: 73.1 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): 49.6  
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°	390915	390915	390915
5°	391333	389522	389522
10°	386188	383905	382719
15°	373658	371890	369383
20°	346046	353604	342227
25°	278243	318071	274570
30°	183647	249393	179290
35°	114788	149760	112703
40°	74907	69402	71985
45°	36065	27687	34032
50°	9082	11033	8526
55°	5013	4542	4862
60°	3416	2875	3242
65°	2329	2123	2329
70°	1834	1580	1834
75°	1379	1379	1379
80°	1056	1556	1556
85°	996	2103	2103



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	381.0	10.5
10°-20°	1040.5	28.7
20°-30°	1240.0	34.2
30°-40°	702.2	19.4
40°-50°	217.1	6.0
50°-60°	30.2	0.8
60°-70°	10.3	0.3
70°-80°	4.1	0.1
80°-90°	1.8	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°	2661.5	73.4
0°-40°	3363.7	92.7
0°-60°	3610.9	99.6
0°-90°	3627.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3627.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4051	4051	4051	4051	4051	
5°	4040	4031	4022	4019	4022	383
15°	3741	3734	3723	3708	3698	1043
25°	2614	2766	2988	2771	2579	1165
35°	974	1063	1271	1066	957	634
45°	264	308	203	300	249	218
55°	30	30	27	29	29	29
65°	10	10	9	10	10	11
75°	4	4	4	4	4	4
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°	4051.4	4051.4	4051.4	4051.4	4051.4
2.5°	4052.4	4045.8	4044.0	4042.1	4045.8
5°	4040.3	4030.9	4021.6	4018.9	4021.6
7.5°	4005.8	3996.5	3980.7	3977.0	3979.8
10°	3941.6	3933.2	3918.3	3910.0	3906.2
12.5°	3856.9	3842.9	3829.0	3819.7	3810.4
15°	3740.6	3734.1	3722.9	3708.0	3697.8
17.5°	3579.6	3588.9	3595.4	3565.6	3538.6
20°	3370.1	3404.6	3443.7	3383.2	3332.9
22.5°	3043.5	3142.1	3241.7	3127.2	3015.5
25°	2613.5	2766.1	2987.6	2770.8	2579.0
27.5°	2111.8	2305.4	2654.4	2306.3	2083.9
30°	1648.3	1847.5	2238.4	1821.4	1609.2
32.5°	1265.8	1414.7	1748.8	1392.4	1238.8
35°	974.5	1062.9	1271.4	1065.7	956.8
37.5°	757.6	802.3	855.3	786.5	735.3
40°	594.7	596.6	551.0	587.3	571.5
42.5°	441.2	439.3	338.8	428.1	430.9
45°	264.3	308.1	202.9	299.7	249.4
47.5°	125.6	174.0	121.9	164.7	116.3
50°	60.5	83.8	73.5	78.2	56.8
52.5°	41.0	42.8	41.9	41.0	39.1
55°	29.8	29.8	27.0	28.9	28.9
57.5°	22.3	22.3	19.5	21.4	21.4
60°	17.7	16.8	14.9	16.8	16.8
62.5°	13.0	13.0	11.2	13.0	13.0
65°	10.2	10.2	9.3	10.2	10.2
67.5°	8.4	8.4	6.5	8.4	7.4
70°	6.5	6.5	5.6	6.5	6.5
72.5°	4.7	4.7	4.7	4.7	4.7
75°	3.7	3.7	3.7	3.7	3.7
77.5°	2.8	2.8	2.8	2.8	2.8
80°	1.9	1.9	2.8	2.8	2.8
82.5°	1.9	1.9	1.9	1.9	1.9
85°	0.9	1.9	1.9	1.9	1.9
87.5°	0.9	0.9	1.9	1.9	1.9
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)