

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 EX4C909035 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: LD4C90D010 EX4C909035 4LCSQWLI  
Description: 4 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LCSQW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

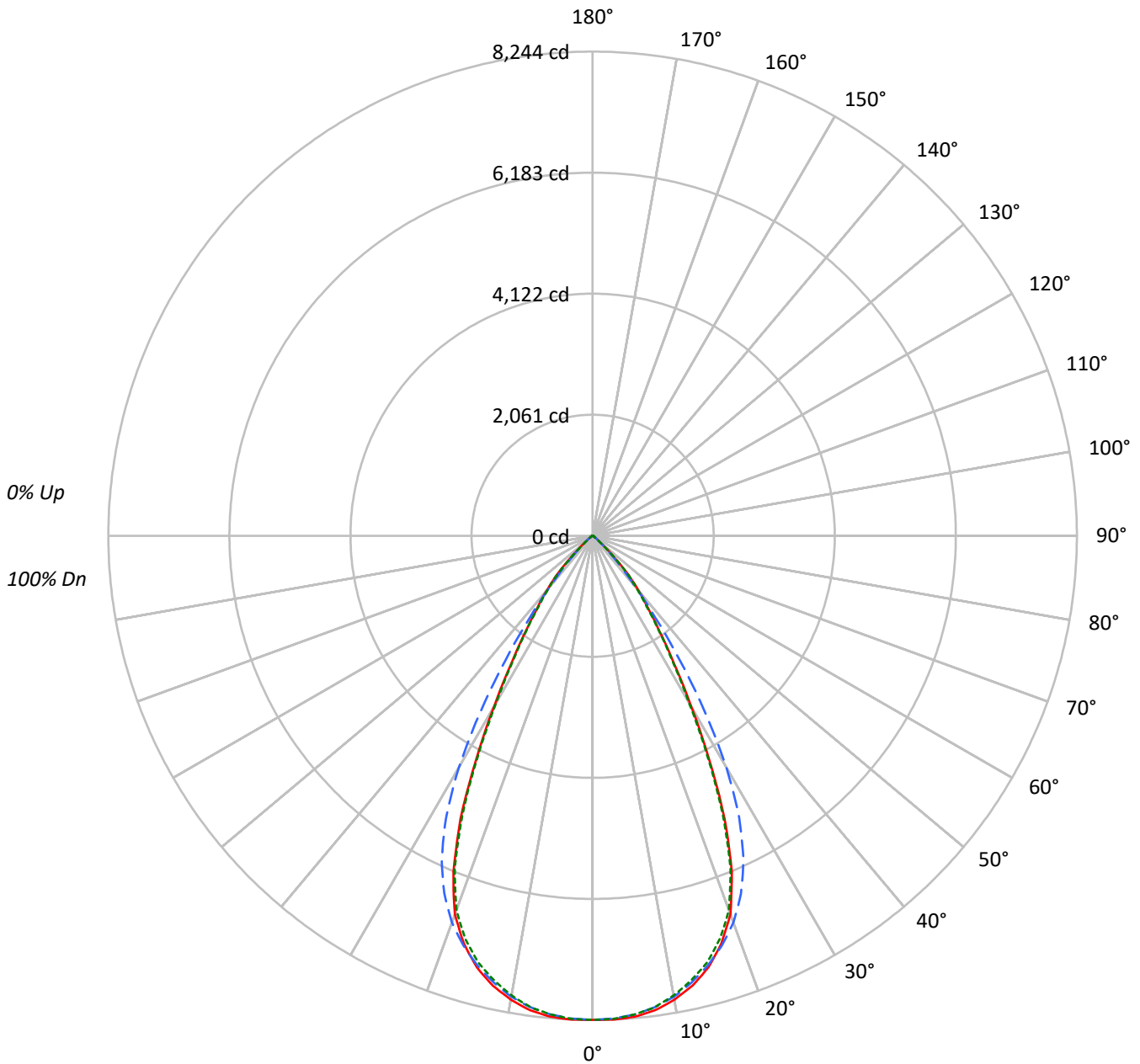
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7379.0 lumens  
Efficiency: N/A  
Efficacy: 76.0 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): 97.1  
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°	795310	795310	795310
5°	796149	792478	792478
10°	785681	781046	778636
15°	760183	756597	751482
20°	704024	719385	696251
25°	566068	647108	558604
30°	373622	507376	364764
35°	233521	304667	229281
40°	152408	141198	146438
45°	73386	56329	69251
50°	18479	22456	17338
55°	10194	9235	9875
60°	6947	5847	6581
65°	4749	4315	4749
70°	3752	3216	3752
75°	2833	2833	2833
80°	2111	3167	3167
85°	2103	4207	4207



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	775.2	10.5
10°-20°	2116.9	28.7
20°-30°	2522.7	34.2
30°-40°	1428.5	19.4
40°-50°	441.6	6.0
50°-60°	61.4	0.8
60°-70°	20.9	0.3
70°-80°	8.4	0.1
80°-90°	3.5	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°	5414.7	73.4
0°-40°	6843.2	92.7
0°-60°	7346.2	99.6
0°-90°	7379.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7379.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8242	8242	8242	8242	8242	
5°	8220	8201	8182	8176	8182	778
15°	7610	7597	7574	7544	7523	2122
25°	5317	5628	6078	5637	5247	2371
35°	1982	2162	2586	2168	1946	1290
45°	538	627	413	610	508	444
55°	61	61	55	59	59	60
65°	21	21	19	21	21	22
75°	8	8	8	8	8	8
85°	2	4	4	4	4	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8242.5	8242.5	8242.5	8242.5	8242.5
2.5°	8244.4	8231.1	8227.3	8223.5	8231.1
5°	8219.8	8200.8	8181.9	8176.2	8181.9
7.5°	8149.7	8130.8	8098.6	8091.0	8096.7
10°	8019.0	8002.0	7971.7	7954.7	7947.1
12.5°	7846.7	7818.3	7789.9	7771.0	7752.1
15°	7610.0	7596.8	7574.1	7543.8	7522.9
17.5°	7282.5	7301.4	7314.7	7254.1	7199.2
20°	6856.4	6926.5	7006.0	6882.9	6780.7
22.5°	6191.8	6392.5	6595.1	6362.2	6135.0
25°	5317.0	5627.5	6078.2	5637.0	5246.9
27.5°	4296.4	4690.2	5400.3	4692.1	4239.6
30°	3353.4	3758.6	4553.9	3705.6	3273.9
32.5°	2575.2	2878.1	3557.9	2832.7	2520.3
35°	1982.5	2162.4	2586.5	2168.1	1946.5
37.5°	1541.3	1632.2	1740.1	1600.0	1495.9
40°	1210.0	1213.7	1121.0	1194.8	1162.6
42.5°	897.5	893.7	689.2	871.0	876.7
45°	537.8	626.8	412.8	609.7	507.5
47.5°	255.6	354.1	248.1	335.2	236.7
50°	123.1	170.4	149.6	159.1	115.5
52.5°	83.3	87.1	85.2	83.3	79.5
55°	60.6	60.6	54.9	58.7	58.7
57.5°	45.4	45.4	39.8	43.6	43.6
60°	36.0	34.1	30.3	34.1	34.1
62.5°	26.5	26.5	22.7	26.5	26.5
65°	20.8	20.8	18.9	20.8	20.8
67.5°	17.0	17.0	13.3	17.0	15.1
70°	13.3	13.3	11.4	13.3	13.3
72.5°	9.5	9.5	9.5	9.5	9.5
75°	7.6	7.6	7.6	7.6	7.6
77.5°	5.7	5.7	5.7	5.7	5.7
80°	3.8	3.8	5.7	5.7	5.7
82.5°	3.8	3.8	3.8	3.8	3.8
85°	1.9	3.8	3.8	3.8	3.8
87.5°	1.9	1.9	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)