

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: **LD4C70D010 EX4C709040 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: LD4C70D010 EX4C709040 4LCSQWLI  
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 4LCSQW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

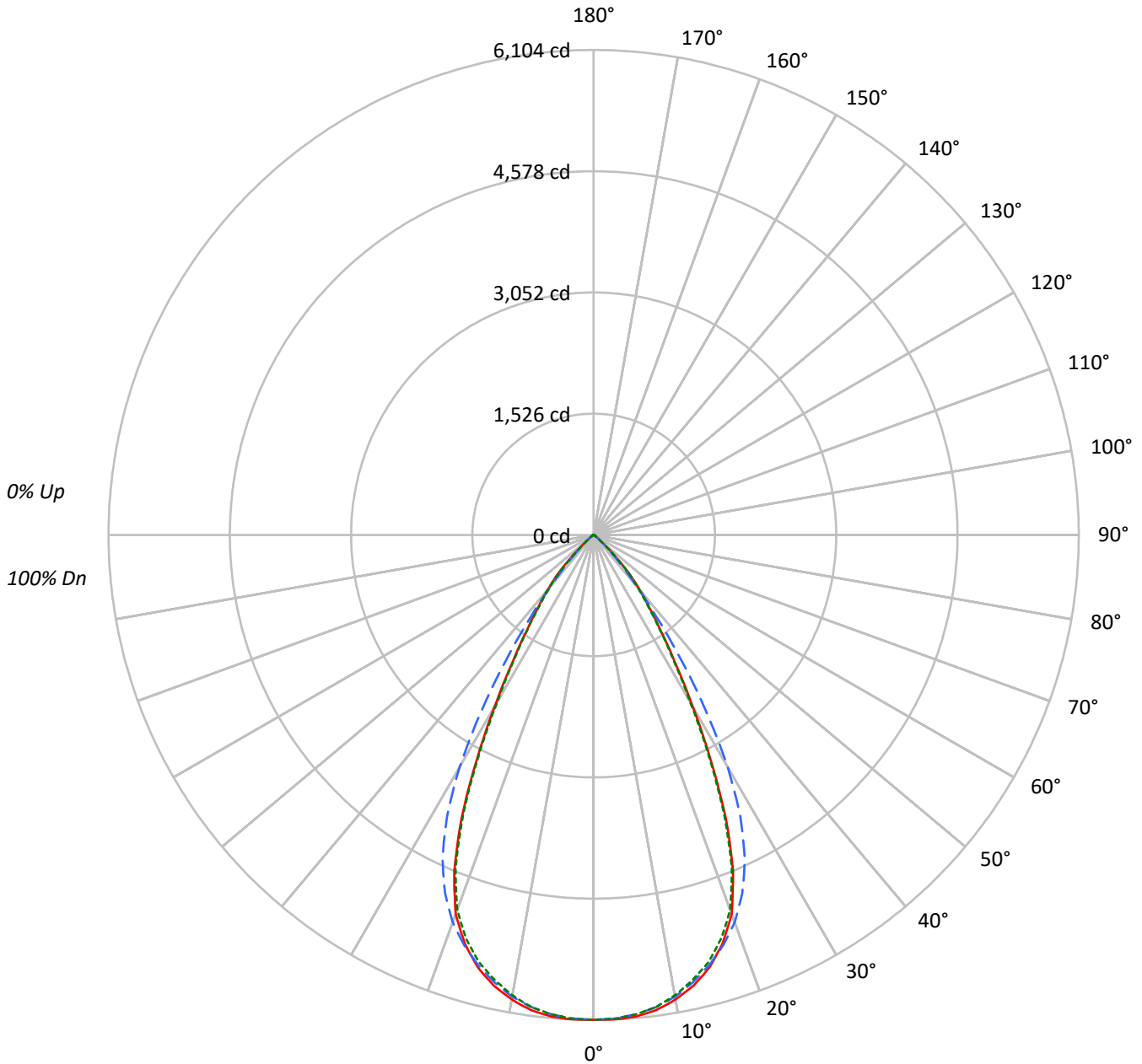
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5463.0 lumens  
Efficiency: N/A  
Efficacy: 70.0 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): 78  
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°	588804	588804	588804
5°	589416	586704	586704
10°	581682	578243	576460
15°	562805	560138	556362
20°	521221	532598	515460
25°	419084	479087	413558
30°	276612	375638	270050
35°	172882	225558	169749
40°	112833	104532	108411
45°	54323	41701	51266
50°	13675	16617	12834
55°	7553	6847	7318
60°	5133	4323	4863
65°	3516	3196	3516
70°	2765	2370	2765
75°	2088	2088	2088
80°	1556	2334	2334
85°	1550	3100	3100



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	573.9	10.5
10°-20°	1567.2	28.7
20°-30°	1867.7	34.2
30°-40°	1057.6	19.4
40°-50°	327.0	6.0
50°-60°	45.4	0.8
60°-70°	15.5	0.3
70°-80°	6.2	0.1
80°-90°	2.6	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°	4008.8	73.4
0°-40°	5066.4	92.7
0°-60°	5438.7	99.6
0°-90°	5463.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5463.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6102	6102	6102	6102	6102	
5°	6085	6071	6057	6053	6057	576
15°	5634	5624	5607	5585	5570	1571
25°	3936	4166	4500	4173	3884	1755
35°	1468	1601	1915	1605	1441	955
45°	398	464	306	451	376	329
55°	45	45	41	44	44	44
65°	15	15	14	15	15	16
75°	6	6	6	6	6	6
85°	1	3	3	3	3	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6102.3	6102.3	6102.3	6102.3	6102.3
2.5°	6103.7	6093.9	6091.1	6088.3	6093.9
5°	6085.4	6071.4	6057.4	6053.2	6057.4
7.5°	6033.6	6019.6	5995.7	5990.1	5994.3
10°	5936.9	5924.2	5901.8	5889.2	5883.6
12.5°	5809.3	5788.3	5767.2	5753.2	5739.2
15°	5634.1	5624.2	5607.4	5585.0	5569.6
17.5°	5391.5	5405.6	5415.4	5370.5	5329.8
20°	5076.1	5128.0	5186.9	5095.7	5020.0
22.5°	4584.1	4732.7	4882.7	4710.2	4542.0
25°	3936.4	4166.3	4500.0	4173.3	3884.5
27.5°	3180.8	3472.4	3998.1	3473.8	3138.8
30°	2482.7	2782.7	3371.5	2743.4	2423.8
32.5°	1906.5	2130.8	2634.1	2097.2	1865.9
35°	1467.7	1600.9	1914.9	1605.1	1441.1
37.5°	1141.1	1208.4	1288.3	1184.6	1107.5
40°	895.8	898.6	829.9	884.6	860.7
42.5°	664.5	661.7	510.3	644.9	649.1
45°	398.1	464.0	305.6	451.4	375.7
47.5°	189.3	262.1	183.6	248.1	175.2
50°	91.1	126.2	110.7	117.8	85.5
52.5°	61.7	64.5	63.1	61.7	58.9
55°	44.9	44.9	40.7	43.5	43.5
57.5°	33.6	33.6	29.4	32.2	32.2
60°	26.6	25.2	22.4	25.2	25.2
62.5°	19.6	19.6	16.8	19.6	19.6
65°	15.4	15.4	14.0	15.4	15.4
67.5°	12.6	12.6	9.8	12.6	11.2
70°	9.8	9.8	8.4	9.8	9.8
72.5°	7.0	7.0	7.0	7.0	7.0
75°	5.6	5.6	5.6	5.6	5.6
77.5°	4.2	4.2	4.2	4.2	4.2
80°	2.8	2.8	4.2	4.2	4.2
82.5°	2.8	2.8	2.8	2.8	2.8
85°	1.4	2.8	2.8	2.8	2.8
87.5°	1.4	1.4	2.8	2.8	2.8
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)