

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 EX4C709050 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 EX4C709050 4LCSQWLI  
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LCSQW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

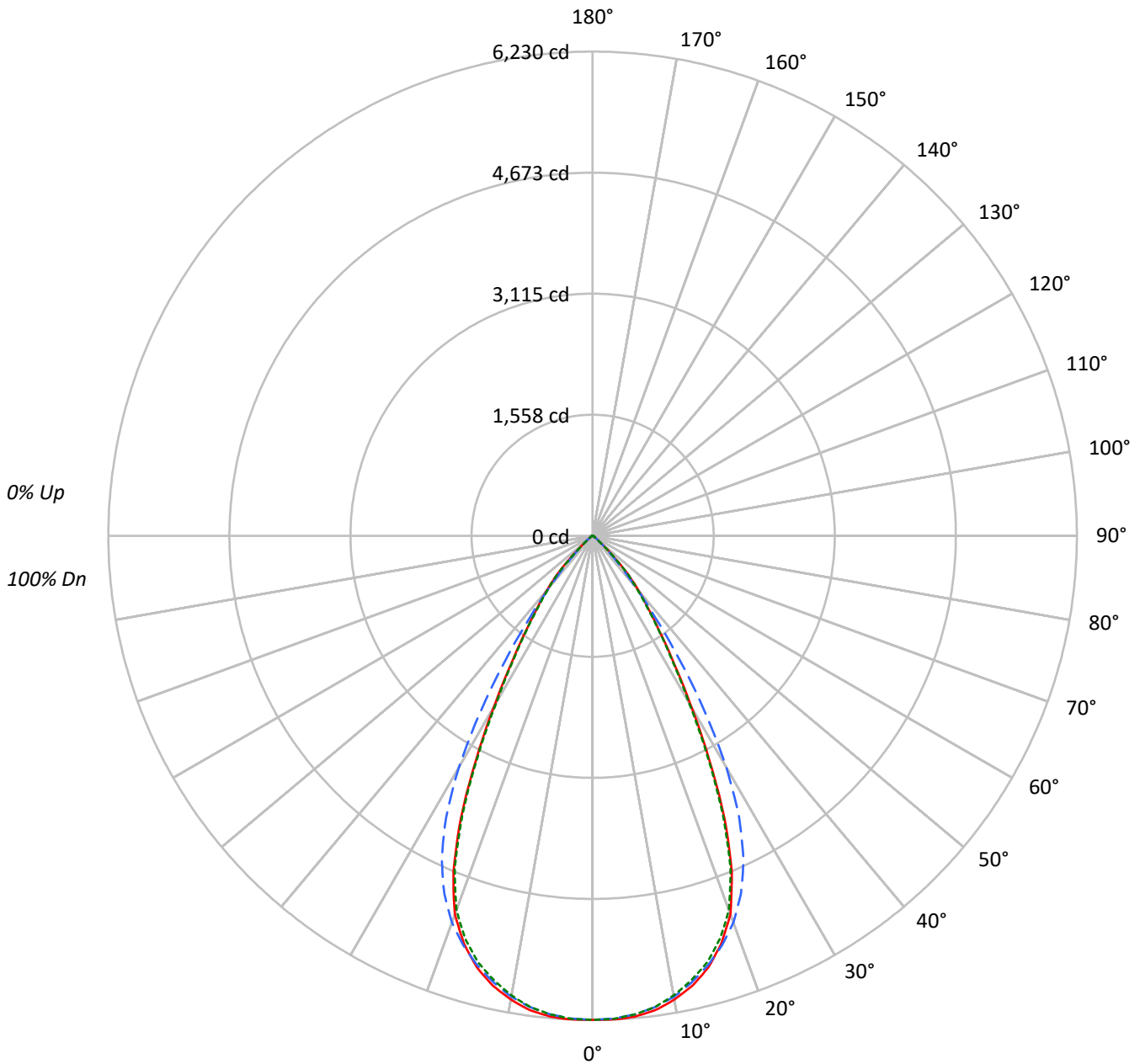
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5576.0 lumens  
Efficiency: N/A  
Efficacy: 71.5 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 (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

TEST NUMBER: P#  
CATALOG NUMBER: LD4C70D010 EX4C709050 4LCSQWLI

### 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°	600981	600981	600981
5°	601611	598841	598841
10°	593714	590206	588384
15°	574443	571726	567870
20°	532002	543605	526129
25°	427750	488988	422118
30°	282328	383404	275631
35°	176463	230223	173259
40°	115163	106698	110653
45°	55456	42561	52331
50°	13960	16962	13105
55°	7705	6981	7469
60°	5249	4419	4979
65°	3585	3265	3585
70°	2821	2426	2821
75°	2125	2125	2125
80°	1611	2389	2389
85°	1550	3211	3211



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	585.8	10.5
10°-20°	1599.6	28.7
20°-30°	1906.3	34.2
30°-40°	1079.5	19.4
40°-50°	333.7	6.0
50°-60°	46.4	0.8
60°-70°	15.8	0.3
70°-80°	6.3	0.1
80°-90°	2.7	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°	4091.7	73.4
0°-40°	5171.2	92.7
0°-60°	5551.3	99.6
0°-90°	5576.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5576.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6228	6228	6228	6228	6228	
5°	6211	6197	6183	6178	6183	588
15°	5751	5741	5723	5700	5685	1603
25°	4018	4252	4593	4260	3965	1791
35°	1498	1634	1954	1638	1471	975
45°	406	474	312	461	384	336
55°	46	46	42	44	44	45
65°	16	16	14	16	16	17
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°	6228.5	6228.5	6228.5	6228.5	6228.5
2.5°	6229.9	6219.9	6217.0	6214.2	6219.9
5°	6211.3	6197.0	6182.7	6178.4	6182.7
7.5°	6158.4	6144.1	6119.7	6114.0	6118.3
10°	6059.7	6046.8	6023.9	6011.0	6005.3
12.5°	5929.4	5908.0	5886.5	5872.2	5857.9
15°	5750.6	5740.6	5723.4	5700.5	5684.8
17.5°	5503.1	5517.4	5527.4	5481.6	5440.1
20°	5181.1	5234.1	5294.1	5201.1	5123.9
22.5°	4678.9	4830.6	4983.7	4807.7	4636.0
25°	4017.8	4252.5	4593.0	4259.6	3964.9
27.5°	3246.6	3544.2	4080.8	3545.6	3203.7
30°	2534.0	2840.2	3441.2	2800.2	2473.9
32.5°	1946.0	2174.9	2688.6	2140.6	1904.5
35°	1498.1	1634.0	1954.5	1638.3	1470.9
37.5°	1164.7	1233.4	1315.0	1209.1	1130.4
40°	914.3	917.2	847.1	902.9	878.5
42.5°	678.2	675.4	520.8	658.2	662.5
45°	406.4	473.6	311.9	460.7	383.5
47.5°	193.2	267.6	187.4	253.3	178.9
50°	93.0	128.8	113.0	120.2	87.3
52.5°	63.0	65.8	64.4	63.0	60.1
55°	45.8	45.8	41.5	44.4	44.4
57.5°	34.3	34.3	30.0	32.9	32.9
60°	27.2	25.8	22.9	25.8	25.8
62.5°	20.0	20.0	17.2	20.0	20.0
65°	15.7	15.7	14.3	15.7	15.7
67.5°	12.9	12.9	10.0	12.9	11.4
70°	10.0	10.0	8.6	10.0	10.0
72.5°	7.2	7.2	7.2	7.2	7.2
75°	5.7	5.7	5.7	5.7	5.7
77.5°	4.3	4.3	4.3	4.3	4.3
80°	2.9	2.9	4.3	4.3	4.3
82.5°	2.9	2.9	2.9	2.9	2.9
85°	1.4	2.9	2.9	2.9	2.9
87.5°	1.4	1.4	2.9	2.9	2.9
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)