

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 4LCSQWH**

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 (G1-2105-247-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/18/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C70D010 EX4C709050 4LCSQWH  
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LCSQW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

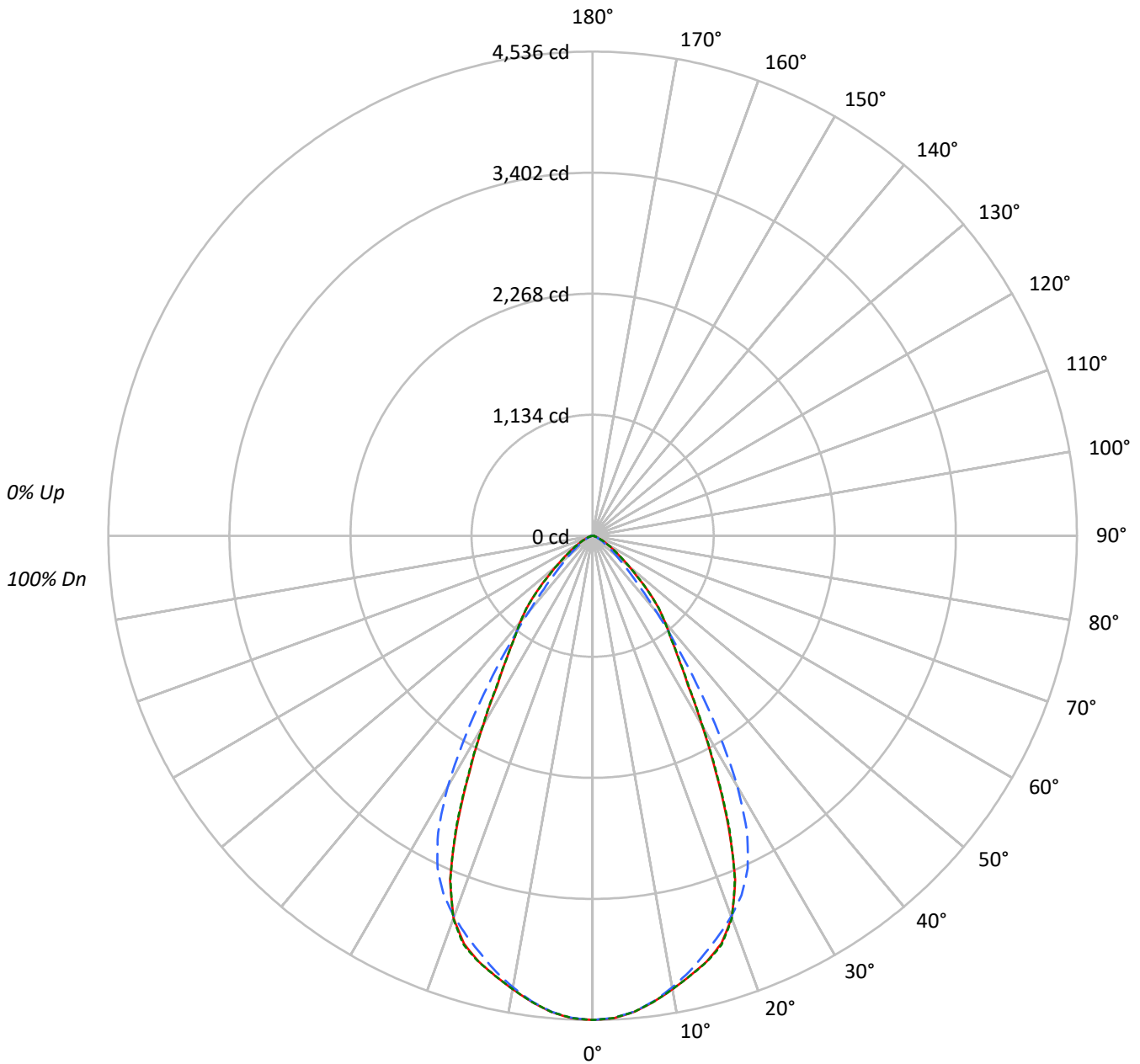
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4801.0 lumens  
Efficiency: N/A  
Efficacy: 61.6 lumens/watt  
Spacing Criteria (0/90/45): 0.93 / 0.93 / 0.94  
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

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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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92																			
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84																			
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77																			
4	95	87	80	76	93	85	80	75	83	78	74	81	77	74	79	76	73	71																			
5	89	80	74	69	88	79	73	69	78	72	68	76	71	68	74	70	67	66																			
6	85	75	68	64	83	74	68	63	72	67	63	71	66	63	70	65	62	61																			
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	65	61	58	56																			
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52																			
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49																			
10	68	58	52	48	67	57	51	47	57	51	47	56	51	47	55	50	47	46																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	437674	437674	437674
5°	433670	433389	433534
10°	422567	420881	422567
15°	412397	404965	412816
20°	391000	389532	391740
25°	320733	365958	322404
30°	228703	302338	229026
35°	164955	200339	165461
40°	132255	116397	132255
45°	100923	67928	100131
50°	66559	43382	66349
55°	44764	29119	44276
60°	30085	19877	30375
65°	20571	14041	20251
70°	13711	10100	13711
75°	9059	7456	9059
80°	6334	5557	6334
85°	4760	4760	4760



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	421.7	8.8
10°-20°	1149.8	23.9
20°-30°	1437.4	29.9
30°-40°	966.9	20.1
40°-50°	510.6	10.6
50°-60°	207.5	4.3
60°-70°	77.0	1.6
70°-80°	24.8	0.5
80°-90°	5.4	0.1
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°	3008.8	62.7
0°-40°	3975.7	82.8
0°-60°	4693.9	97.8
0°-90°	4801.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4801.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4536	4536	4536	4536	4536	
5°	4477	4473	4474	4474	4476	422
15°	4128	4094	4054	4093	4133	1157
25°	3013	3181	3437	3187	3028	1356
35°	1400	1470	1701	1473	1405	901
45°	740	702	498	700	734	567
55°	266	223	173	223	263	247
65°	90	73	62	73	89	93
75°	24	22	20	22	24	28
85°	4	4	4	4	4	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4536.0	4536.0	4536.0	4536.0	4536.0
2.5°	4524.6	4521.7	4520.3	4520.3	4521.7
5°	4477.4	4473.1	4474.5	4474.5	4476.0
7.5°	4401.6	4400.1	4395.9	4401.6	4401.6
10°	4312.9	4305.7	4295.7	4307.2	4312.9
12.5°	4221.3	4199.9	4182.7	4199.9	4221.3
15°	4128.4	4094.0	4054.0	4092.6	4132.6
17.5°	4006.8	3972.4	3928.1	3979.6	4018.2
20°	3807.9	3810.8	3793.6	3807.9	3815.1
22.5°	3488.9	3553.3	3643.4	3554.7	3478.9
25°	3012.6	3181.4	3437.4	3187.1	3028.3
27.5°	2501.9	2716.5	3135.6	2729.3	2517.6
30°	2052.7	2243.0	2713.6	2255.9	2055.6
32.5°	1662.2	1803.8	2205.8	1821.0	1680.8
35°	1400.4	1470.5	1700.8	1473.4	1404.7
37.5°	1200.2	1200.2	1263.1	1205.9	1194.4
40°	1050.0	1004.2	924.1	1002.8	1050.0
42.5°	909.8	841.1	670.9	838.3	912.6
45°	739.6	702.4	497.8	699.5	733.8
47.5°	567.9	542.2	374.8	539.3	572.2
50°	443.4	403.4	289.0	400.5	442.0
52.5°	340.5	297.5	223.2	297.5	337.6
55°	266.1	223.2	173.1	223.2	263.2
57.5°	204.6	170.2	131.6	167.4	203.1
60°	155.9	127.3	103.0	127.3	157.4
62.5°	118.7	97.3	78.7	95.8	117.3
65°	90.1	73.0	61.5	73.0	88.7
67.5°	65.8	54.4	47.2	54.4	67.2
70°	48.6	41.5	35.8	40.1	48.6
72.5°	35.8	30.0	27.2	30.0	35.8
75°	24.3	21.5	20.0	21.5	24.3
77.5°	17.2	15.7	14.3	15.7	17.2
80°	11.4	10.0	10.0	11.4	11.4
82.5°	7.2	7.2	7.2	7.2	7.2
85°	4.3	4.3	4.3	4.3	4.3
87.5°	2.9	2.9	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)