

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 EX4C709035 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 EX4C709035 4LCSQWH
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LCSQW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

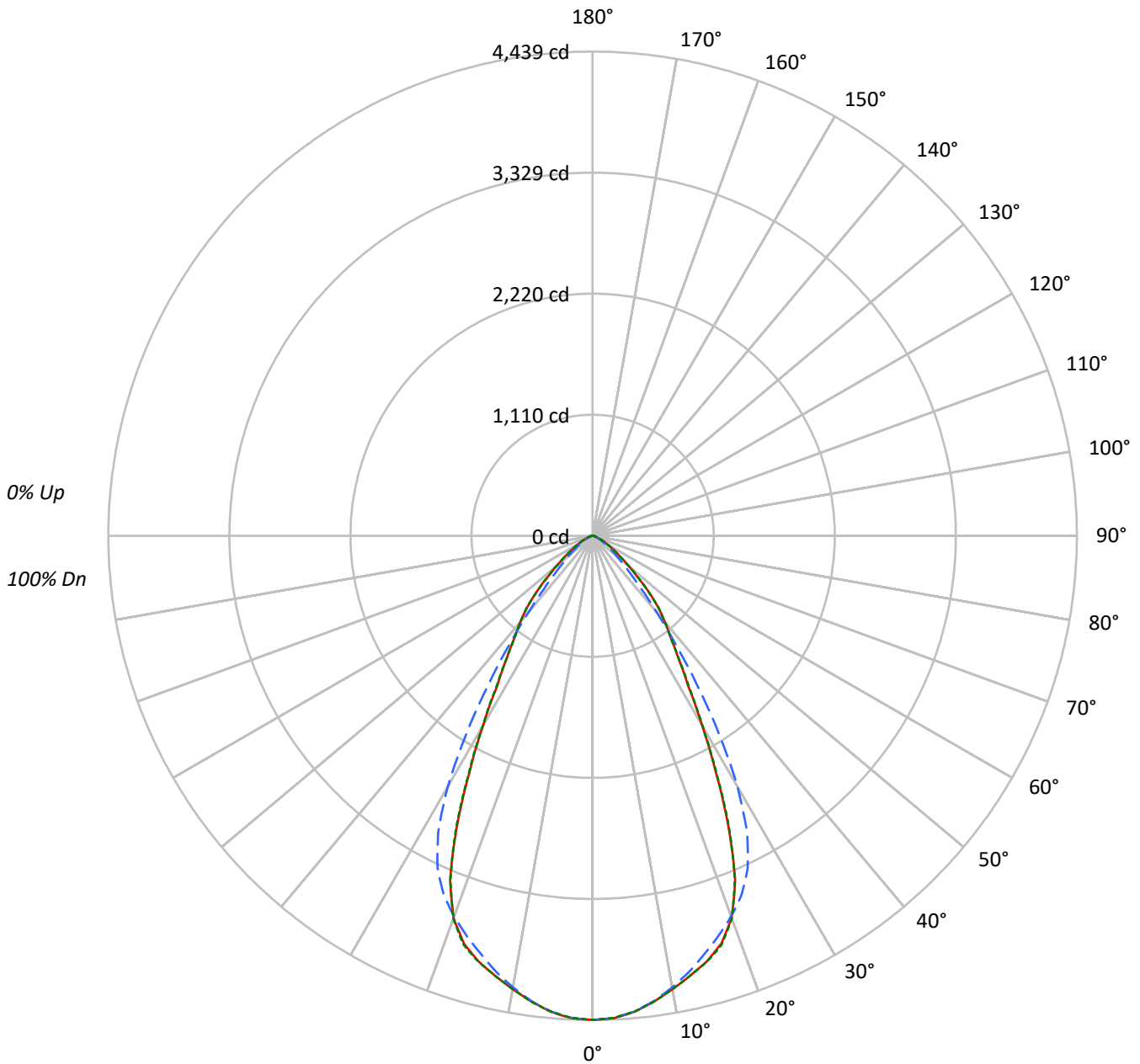
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4698.0 lumens
Efficiency: N/A
Efficacy: 60.2 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

TEST NUMBER: P#
CATALOG NUMBER: LD4C70D010 EX4C709035 4LCSQWH

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°	428285	428285	428285
5°	424362	424090	424226
10°	413504	411858	413504
15°	403546	396274	403966
20°	382611	381174	383330
25°	313855	358112	315495
30°	223801	295853	224113
35°	161421	196040	161916
40°	129409	113903	129409
45°	98753	66468	97989
50°	65133	42451	64923
55°	43805	28497	43334
60°	29448	19452	29719
65°	20137	13744	19817
70°	13429	9874	13429
75°	8873	7307	8873
80°	6223	5445	6223
85°	4650	4650	4650



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.6	8.8
10°-20°	1125.1	23.9
20°-30°	1406.5	29.9
30°-40°	946.2	20.1
40°-50°	499.6	10.6
50°-60°	203.1	4.3
60°-70°	75.3	1.6
70°-80°	24.3	0.5
80°-90°	5.2	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°	2944.3	62.7
0°-40°	3890.5	82.8
0°-60°	4593.2	97.8
0°-90°	4698.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4698.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4439	4439	4439	4439	4439	
5°	4381	4377	4378	4378	4380	413
15°	4040	4006	3967	4005	4044	1132
25°	2948	3113	3364	3119	2963	1327
35°	1370	1439	1664	1442	1375	882
45°	724	687	487	684	718	555
55°	260	218	169	218	258	241
65°	88	71	60	71	87	91
75°	24	21	20	21	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°	4438.7	4438.7	4438.7	4438.7	4438.7
2.5°	4427.5	4424.7	4423.3	4423.3	4424.7
5°	4381.3	4377.1	4378.5	4378.5	4379.9
7.5°	4307.1	4305.7	4301.5	4307.1	4307.1
10°	4220.4	4213.4	4203.6	4214.8	4220.4
12.5°	4130.8	4109.8	4093.0	4109.8	4130.8
15°	4039.8	4006.2	3967.0	4004.8	4044.0
17.5°	3920.8	3887.2	3843.8	3894.2	3932.0
20°	3726.2	3729.0	3712.2	3726.2	3733.2
22.5°	3414.1	3477.1	3565.3	3478.5	3404.3
25°	2948.0	3113.1	3363.7	3118.7	2963.4
27.5°	2448.2	2658.2	3068.3	2670.8	2463.6
30°	2008.7	2194.9	2655.4	2207.5	2011.5
32.5°	1626.6	1765.1	2158.5	1781.9	1644.8
35°	1370.4	1439.0	1664.3	1441.8	1374.6
37.5°	1174.4	1174.4	1236.0	1180.0	1168.8
40°	1027.4	982.7	904.3	981.3	1027.4
42.5°	890.3	823.1	656.5	820.3	893.1
45°	723.7	687.3	487.1	684.5	718.1
47.5°	555.7	530.5	366.7	527.7	559.9
50°	433.9	394.7	282.8	391.9	432.5
52.5°	333.1	291.2	218.4	291.2	330.3
55°	260.4	218.4	169.4	218.4	257.6
57.5°	200.2	166.6	128.8	163.8	198.8
60°	152.6	124.6	100.8	124.6	154.0
62.5°	116.2	95.2	77.0	93.8	114.8
65°	88.2	71.4	60.2	71.4	86.8
67.5°	64.4	53.2	46.2	53.2	65.8
70°	47.6	40.6	35.0	39.2	47.6
72.5°	35.0	29.4	26.6	29.4	35.0
75°	23.8	21.0	19.6	21.0	23.8
77.5°	16.8	15.4	14.0	15.4	16.8
80°	11.2	9.8	9.8	11.2	11.2
82.5°	7.0	7.0	7.0	7.0	7.0
85°	4.2	4.2	4.2	4.2	4.2
87.5°	2.8	2.8	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)