

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 EX4C709030 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 EX4C709030 4LCSQWLI
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LCSQW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

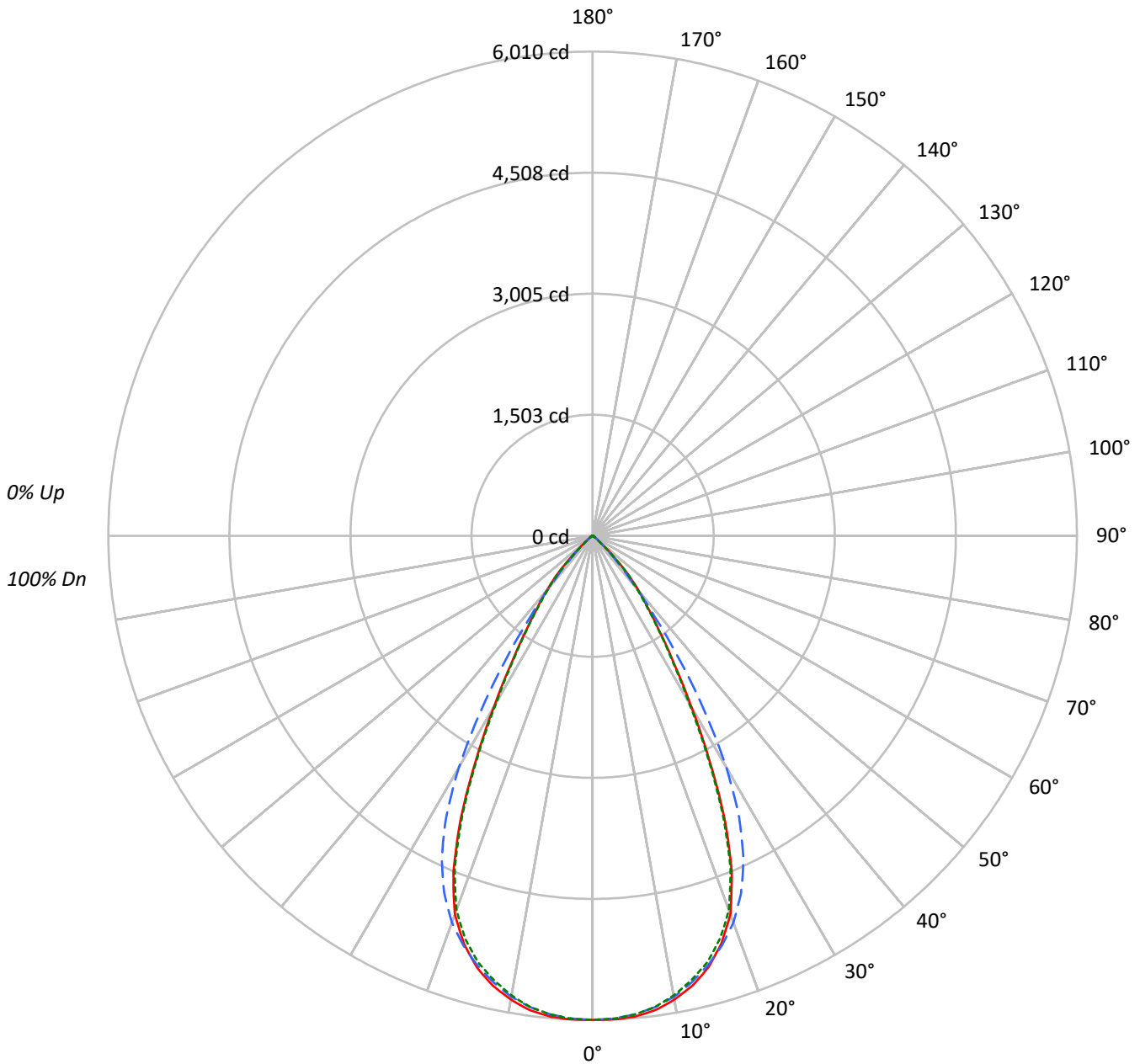
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5379.0 lumens
Efficiency: N/A
Efficacy: 69.0 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 (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 EX4C709030 4LCSQWLI

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LD4C70D010 EX4C709030 4LCSQWLI

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°	579744	579744	579744
5°	580360	577687	577687
10°	572737	569356	567593
15°	554145	551527	547801
20°	513212	524404	507544
25°	412643	471719	407202
30°	272356	369856	265894
35°	170232	222095	167134
40°	111094	102920	106749
45°	53491	41060	50475
50°	13465	16362	12639
55°	7435	6729	7200
60°	5056	4265	4786
65°	3470	3151	3470
70°	2737	2342	2737
75°	2050	2050	2050
80°	1556	2278	2278
85°	1550	3100	3100



TEST NUMBER: P#

CATALOG NUMBER: LD4C70D010 EX4C709030 4LCSQWLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	565.1	10.5
10°-20°	1543.1	28.7
20°-30°	1839.0	34.2
30°-40°	1041.3	19.4
40°-50°	321.9	6.0
50°-60°	44.7	0.8
60°-70°	15.3	0.3
70°-80°	6.1	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°	3947.1	73.4
0°-40°	4988.5	92.7
0°-60°	5355.1	99.6
0°-90°	5379.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5379.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6008	6008	6008	6008	6008	
5°	5992	5978	5964	5960	5964	567
15°	5547	5538	5521	5499	5484	1547
25°	3876	4102	4431	4109	3825	1728
35°	1445	1576	1886	1580	1419	941
45°	392	457	301	444	370	324
55°	44	44	40	43	43	43
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	



TEST NUMBER: P#

CATALOG NUMBER: LD4C70D010 EX4C709030 4LCSQWLI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6008.4	6008.4	6008.4	6008.4	6008.4
2.5°	6009.8	6000.2	5997.4	5994.6	6000.2
5°	5991.9	5978.1	5964.3	5960.1	5964.3
7.5°	5940.8	5927.0	5903.5	5898.0	5902.2
10°	5845.6	5833.1	5811.1	5798.6	5793.1
12.5°	5720.0	5699.3	5678.6	5664.7	5650.9
15°	5547.4	5537.8	5521.2	5499.1	5483.9
17.5°	5308.6	5322.4	5332.1	5287.9	5247.9
20°	4998.1	5049.1	5107.1	5017.4	4942.9
22.5°	4513.6	4659.9	4807.6	4637.8	4472.2
25°	3875.9	4102.2	4430.8	4109.2	3824.8
27.5°	3131.9	3419.0	3936.6	3420.4	3090.5
30°	2444.5	2739.9	3319.6	2701.2	2386.5
32.5°	1877.2	2098.1	2593.6	2064.9	1837.2
35°	1445.2	1576.3	1885.5	1580.4	1418.9
37.5°	1123.6	1189.8	1268.5	1166.4	1090.4
40°	882.0	884.8	817.1	871.0	847.5
42.5°	654.3	651.5	502.4	634.9	639.1
45°	392.0	456.9	300.9	444.5	369.9
47.5°	186.3	258.1	180.8	244.3	172.5
50°	89.7	124.2	109.0	115.9	84.2
52.5°	60.7	63.5	62.1	60.7	58.0
55°	44.2	44.2	40.0	42.8	42.8
57.5°	33.1	33.1	29.0	31.7	31.7
60°	26.2	24.8	22.1	24.8	24.8
62.5°	19.3	19.3	16.6	19.3	19.3
65°	15.2	15.2	13.8	15.2	15.2
67.5°	12.4	12.4	9.7	12.4	11.0
70°	9.7	9.7	8.3	9.7	9.7
72.5°	6.9	6.9	6.9	6.9	6.9
75°	5.5	5.5	5.5	5.5	5.5
77.5°	4.1	4.1	4.1	4.1	4.1
80°	2.8	2.8	4.1	4.1	4.1
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)