

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: **LD4C75D010 EX4C759030 4LBSQLI**

Issue Date: 2/9/2022

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 (P209151)
Test Lab: INNOVATION CENTER
Issue Date: 2/9/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C75D010 EX4C759030 4LBSQLI
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

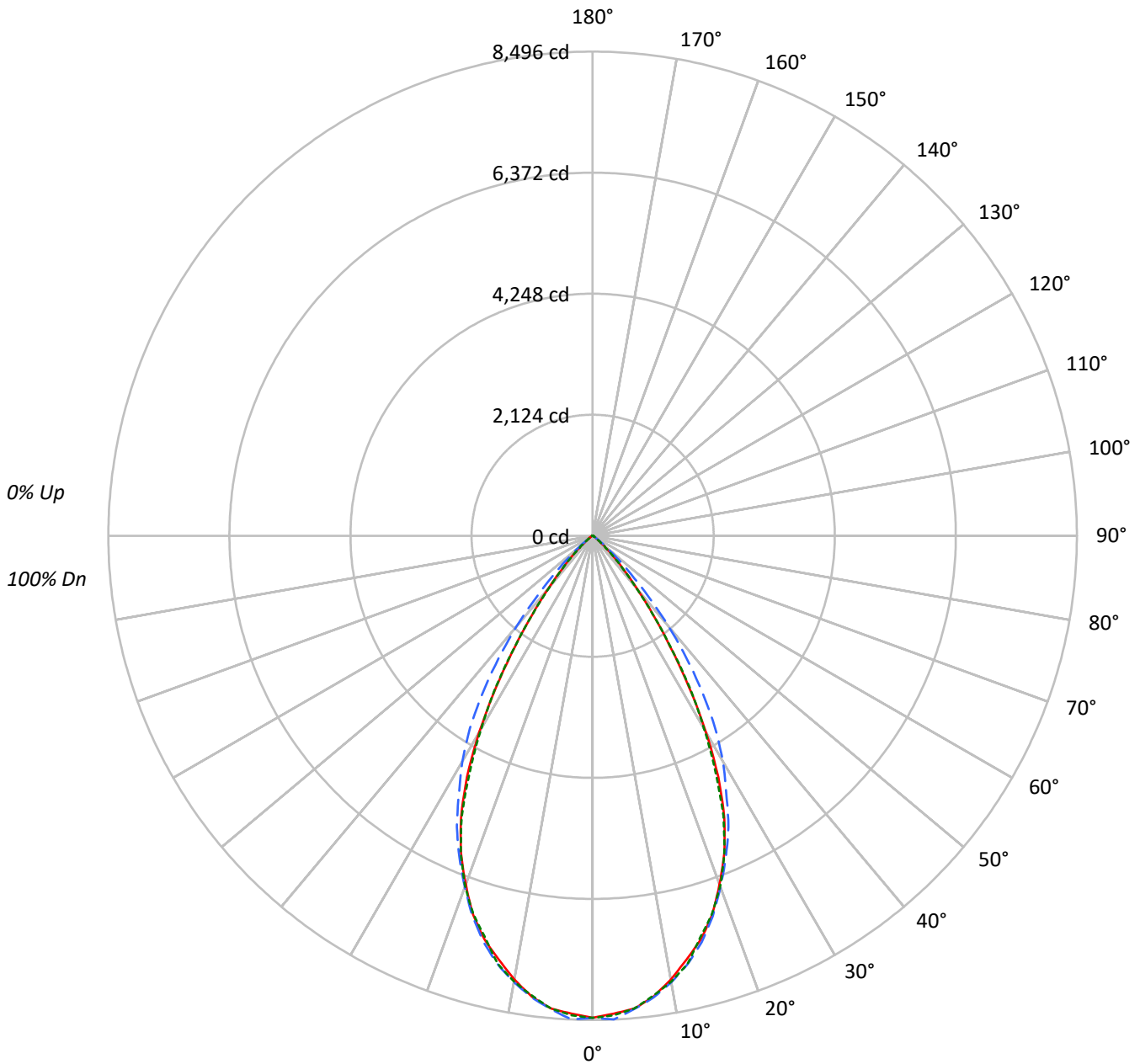
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7809.0 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.9 / 0.94
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 81.5
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				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	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	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87
3	102	96	91	87	100	94	90	86	92	88	84	89	86	83	87	84	82	80
4	97	89	84	79	95	88	83	79	86	81	78	84	80	77	82	79	76	75
5	92	83	77	73	90	82	77	73	81	76	72	79	75	71	77	74	71	69
6	87	78	72	68	86	77	71	67	76	71	67	74	70	66	73	69	66	64
7	83	73	67	63	81	73	67	63	71	66	62	70	65	62	69	65	62	60
8	79	69	63	59	77	68	62	58	67	62	58	66	61	58	65	61	58	56
9	75	65	59	55	74	64	59	55	63	58	55	63	58	54	62	57	54	53
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	50

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	816142	816142	816142
5°	806765	807811	806765
10°	774501	779244	778195
15°	732203	737567	728437
20°	668219	673179	671536
25°	581845	600157	577832
30°	442454	508914	435881
35°	278505	395625	281038
40°	150267	261273	147559
45°	71134	129060	70384
50°	26630	48395	26630
55°	12650	15376	11776
60°	8298	7275	8298
65°	4909	4909	4909
70°	3019	4570	3019
75°	2050	2050	2050
80°	3056	3056	3056
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	784.2	10.0
10°-20°	2055.3	26.3
20°-30°	2510.7	32.2
30°-40°	1756.1	22.5
40°-50°	575.5	7.4
50°-60°	91.5	1.2
60°-70°	25.0	0.3
70°-80°	8.4	0.1
80°-90°	2.3	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°	5350.3	68.5
0°-40°	7106.3	91.0
0°-60°	7773.3	99.5
0°-90°	7809.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7809.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8458	8458	8458	8458	8458	
5°	8329	8332	8340	8289	8329	781
15°	7330	7360	7384	7335	7292	2045
25°	5465	5548	5637	5535	5428	2455
35°	2364	2792	3359	2749	2386	1509
45°	521	642	946	634	516	437
55°	75	81	91	81	70	74
65°	22	27	22	27	22	24
75°	6	6	6	6	6	8
85°	0	0	0	0	0	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	8458.4	8458.4	8458.4	8458.4	8458.4	8458.4	8458.4	8458.4	8458.4	8458.4	8458.4
2.5°	8393.9	8453.1	8436.9	8474.6	8474.6	8431.6	8442.4	8458.4	8479.9	8496.1	8366.9
5°	8329.4	8383.1	8334.7	8388.4	8356.2	8307.9	8388.4	8345.4	8372.4	8340.2	8361.7
7.5°	8157.5	8243.5	8146.7	8211.2	8189.7	8162.8	8195.0	8184.2	8200.5	8173.5	8114.5
10°	7904.9	7974.8	7910.3	8001.6	7958.6	7931.8	7958.6	7985.6	7980.1	7953.3	7985.6
12.5°	7614.7	7695.2	7663.0	7716.7	7668.5	7668.5	7732.9	7716.7	7722.2	7700.7	7738.2
15°	7329.9	7389.1	7340.6	7410.6	7389.1	7329.9	7356.6	7356.6	7399.8	7383.6	7340.6
17.5°	6975.3	7023.5	6969.8	6986.0	6964.5	6953.8	7066.5	6991.3	7034.3	7002.0	7007.5
20°	6507.7	6529.2	6513.0	6556.0	6529.2	6561.5	6550.7	6540.0	6540.0	6556.0	6518.5
22.5°	6034.7	6034.7	6051.0	6061.7	6083.2	6051.0	6115.4	6061.7	6067.0	6104.7	6093.9
25°	5465.2	5449.0	5486.7	5540.4	5561.9	5535.0	5620.9	5577.9	5610.2	5637.2	5577.9
27.5°	4772.0	4772.0	4809.5	4901.0	4917.0	4949.2	5067.4	5067.4	5110.4	5072.9	5115.9
30°	3971.2	4030.4	4078.6	4196.8	4234.6	4304.5	4428.0	4487.2	4583.9	4567.7	4546.2
32.5°	3149.1	3229.7	3235.0	3358.7	3460.7	3578.9	3745.5	3885.2	3955.2	4003.4	3949.7
35°	2364.4	2412.9	2455.9	2541.8	2713.8	2869.7	3020.1	3202.8	3326.5	3358.7	3310.2
37.5°	1730.4	1741.2	1784.2	1864.7	1993.6	2144.2	2326.9	2525.6	2654.8	2703.0	2649.3
40°	1193.0	1203.7	1225.2	1295.1	1402.6	1510.1	1655.2	1859.4	1977.6	2074.3	2004.3
42.5°	800.6	811.4	832.9	886.6	945.8	1047.8	1160.7	1289.7	1402.6	1445.6	1407.9
45°	521.3	521.3	532.0	569.7	602.0	682.4	763.1	843.6	918.8	945.8	918.8
47.5°	306.4	311.6	322.4	349.3	386.8	419.1	478.3	532.0	553.5	575.0	564.2
50°	177.4	177.4	193.4	209.6	236.4	257.9	279.4	300.9	311.6	322.4	311.6
52.5°	96.7	102.2	107.5	112.9	123.7	145.2	161.2	161.2	166.7	171.9	166.7
55°	75.2	75.2	75.2	75.2	80.7	80.7	80.7	86.0	86.0	91.4	86.0
57.5°	53.7	53.7	53.7	59.2	59.2	59.2	53.7	53.7	53.7	53.7	53.7
60°	43.0	43.0	43.0	43.0	43.0	43.0	43.0	37.7	37.7	37.7	37.7
62.5°	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
65°	21.5	21.5	27.0	27.0	27.0	27.0	27.0	21.5	21.5	21.5	21.5
67.5°	16.2	16.2	16.2	16.2	21.5	21.5	16.2	16.2	16.2	16.2	16.2
70°	10.7	10.7	10.7	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2
72.5°	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
75°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
77.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
80°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	8458.4	8458.4	8458.4	8458.4	8458.4	8458.4	8458.4	8458.4
2.5°	8458.4	8366.9	8377.7	8426.1	8399.2	8426.1	8420.9	8420.9
5°	8366.9	8340.2	8297.2	8281.0	8313.2	8383.1	8372.4	8329.4
7.5°	8195.0	8125.3	8173.5	8195.0	8168.2	8211.2	8232.7	8141.3
10°	7990.8	7964.1	7953.3	7964.1	7953.3	7996.3	7942.6	7942.6
12.5°	7700.7	7657.7	7657.7	7722.2	7684.5	7652.2	7695.2	7690.0
15°	7410.6	7324.4	7324.4	7345.9	7362.1	7340.6	7345.9	7292.2
17.5°	6980.5	6953.8	6916.1	6975.3	6991.3	6969.8	6986.0	6959.1
20°	6577.5	6577.5	6507.7	6534.5	6556.0	6572.2	6583.0	6540.0
22.5°	6061.7	6072.4	6024.0	6077.7	6093.9	6040.2	6051.0	6040.2
25°	5588.7	5583.4	5545.7	5524.2	5535.0	5513.5	5508.2	5427.5
27.5°	5067.4	5013.7	4933.2	4954.7	4863.3	4788.1	4788.1	4664.4
30°	4503.2	4412.0	4304.5	4196.8	4116.4	4030.4	3981.9	3912.2
32.5°	3842.2	3718.8	3584.3	3439.2	3347.9	3219.0	3149.1	3186.8
35°	3186.8	3003.9	2821.2	2676.3	2536.4	2461.1	2375.2	2385.9
37.5°	2552.6	2294.7	2133.5	1977.6	1859.4	1762.7	1725.0	1714.2
40°	1864.7	1660.5	1499.3	1386.4	1305.9	1230.7	1187.7	1171.5
42.5°	1289.7	1144.7	1015.6	924.3	870.6	822.1	800.6	795.4
45°	838.4	752.4	666.4	602.0	559.0	526.7	521.3	515.8
47.5°	526.7	483.5	429.8	381.6	343.9	322.4	306.4	306.4
50°	300.9	284.9	257.9	231.1	209.6	198.9	182.7	177.4
52.5°	161.2	161.2	150.4	128.9	112.9	102.2	102.2	96.7
55°	86.0	86.0	80.7	80.7	75.2	75.2	75.2	70.0
57.5°	53.7	53.7	59.2	59.2	53.7	53.7	53.7	53.7
60°	37.7	43.0	43.0	43.0	43.0	43.0	43.0	43.0
62.5°	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
65°	21.5	27.0	27.0	27.0	27.0	21.5	21.5	21.5
67.5°	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2
70°	16.2	16.2	16.2	16.2	16.2	10.7	10.7	10.7
72.5°	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
75°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
77.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
80°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
90°	0.0	0.0	0.0	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)