

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: P840512

Luminaire Tested: **LD6C100D010 EU61009030 6LBSQLI**

Issue Date: 3/23/2022

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: P840512
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P209348)
Test Lab: INNOVATION CENTER
Issue Date: 3/23/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD6C100D010 EU61009030 6LBSQLI
Description: 6 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

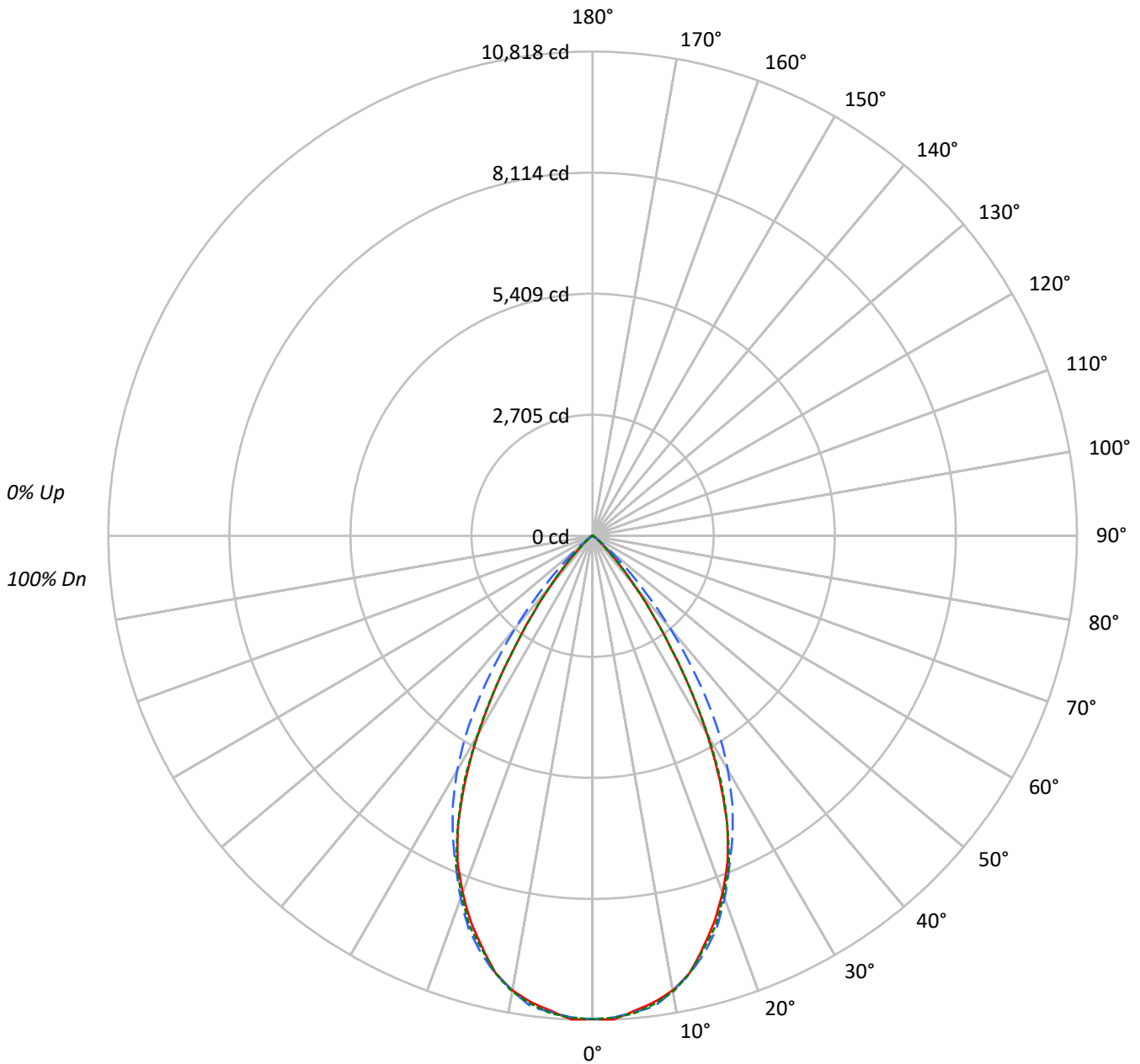
Lumens per Lamp: N/A
Luminaire Lumens: 10147.0 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.95
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 114.4
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	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93																			
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87																			
3	102	96	91	87	100	94	90	86	92	88	85	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	78	73	90	82	77	73	81	76	72	79	75	72	77	74	71	69																			
6	87	78	72	68	86	77	72	67	76	71	67	74	70	67	73	69	66	65																			
7	83	73	67	63	81	73	67	63	71	66	62	70	66	62	69	65	62	60																			
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	56																			
9	75	65	59	55	74	64	59	55	64	58	55	63	58	54	62	57	54	53																			
10	71	61	55	52	70	61	55	51	60	55	51	59	55	51	59	54	51	50																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	464911	464911	464911
5°	460519	461690	462862
10°	450953	450953	452155
15°	424594	430050	426105
20°	388741	394991	391554
25°	337782	351022	338105
30°	254031	300381	256412
35°	157715	231390	158430
40°	82993	150675	82610
45°	34378	75388	35207
50°	13222	28260	13222
55°	7154	8678	6643
60°	4702	4082	4702
65°	2761	2761	2761
70°	1712	2555	1712
75°	1131	1131	1131
80°	1686	1686	1686
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1010.9	10.0
10°-20°	2689.1	26.5
20°-30°	3300.2	32.5
30°-40°	2278.3	22.5
40°-50°	712.3	7.0
50°-60°	111.3	1.1
60°-70°	32.1	0.3
70°-80°	10.5	0.1
80°-90°	2.4	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°	7000.2	69.0
0°-40°	9278.4	91.4
0°-60°	10102.0	99.6
0°-90°	10147.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10147.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10798	10798	10798	10798	10798	
5°	10655	10696	10682	10686	10709	###
15°	9526	9661	9648	9634	9559	2664
25°	7110	7294	7389	7341	7117	3186
35°	3001	3548	4402	3582	3014	1917
45°	565	772	1238	766	578	506
55°	95	102	116	102	88	93
65°	27	34	27	34	27	30
75°	7	7	7	7	7	10
85°	0	0	0	0	0	1
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°	10797.9	10797.9	10797.9	10797.9	10797.9	10797.9	10797.9	10797.9	10797.9	10797.9	10797.9
2.5°	10818.2	10668.7	10764.0	10743.3	10797.9	10831.8	10797.9	10858.9	10818.2	10770.8	10784.4
5°	10655.2	10675.5	10668.7	10682.3	10695.8	10695.8	10764.0	10770.8	10784.4	10682.3	10709.4
7.5°	10512.0	10512.0	10546.3	10532.3	10580.2	10566.6	10573.4	10627.6	10634.4	10607.3	10587.0
10°	10314.6	10287.5	10253.6	10253.6	10314.6	10321.4	10376.0	10382.8	10423.5	10314.6	10328.6
12.5°	10008.8	9994.8	9940.6	9967.7	10015.6	9988.0	10076.5	10083.3	10069.8	10022.3	10049.4
15°	9525.5	9580.1	9566.1	9559.4	9668.2	9654.7	9647.9	9668.2	9675.0	9647.9	9627.6
17.5°	9042.6	9090.0	9096.8	9110.4	9130.7	9151.4	9178.6	9253.5	9226.0	9205.7	9273.9
20°	8484.3	8464.0	8518.6	8572.8	8593.2	8593.2	8634.3	8688.5	8647.8	8620.7	8627.5
22.5°	7879.0	7912.9	7885.8	7940.0	7967.5	8001.4	8042.1	8090.0	8055.6	7981.1	8069.6
25°	7110.2	7130.5	7219.1	7212.3	7253.0	7334.7	7395.7	7395.7	7395.7	7388.9	7388.9
27.5°	6144.0	6130.5	6239.3	6313.9	6416.0	6545.6	6626.9	6756.1	6776.9	6756.1	6708.7
30°	5109.6	5096.1	5232.1	5327.4	5511.2	5572.6	5797.1	5919.5	6048.7	6041.9	6008.1
32.5°	4034.6	4062.1	4171.0	4307.0	4456.5	4647.1	4858.0	5130.0	5246.0	5273.1	5211.7
35°	3000.6	3041.3	3143.4	3259.0	3442.9	3653.8	3946.1	4204.9	4402.3	4402.3	4354.4
37.5°	2163.6	2177.2	2272.5	2347.5	2537.7	2728.3	2980.3	3334.0	3456.4	3503.9	3456.4
40°	1476.6	1476.6	1530.8	1612.6	1768.9	1932.4	2163.6	2428.8	2605.9	2680.8	2599.1
42.5°	939.1	952.6	993.3	1047.9	1163.6	1306.3	1483.4	1680.8	1810.0	1864.2	1789.6
45°	564.6	578.2	612.5	653.2	728.1	816.7	939.1	1081.8	1190.7	1238.1	1204.2
47.5°	340.1	353.7	367.2	394.8	449.0	510.4	571.4	653.2	721.4	728.1	714.6
50°	197.4	197.4	210.9	231.3	258.4	292.7	326.6	374.0	394.8	421.9	394.8
52.5°	129.2	129.2	129.2	136.0	149.5	163.5	177.1	204.2	217.7	217.7	210.9
55°	95.3	95.3	95.3	95.3	102.1	102.1	102.1	108.9	115.6	115.6	115.6
57.5°	68.2	68.2	68.2	75.0	75.0	75.0	68.2	68.2	68.2	68.2	68.2
60°	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	47.4	47.4	47.4
62.5°	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
65°	27.1	27.1	27.1	33.9	33.9	33.9	33.9	27.1	27.1	27.1	27.1
67.5°	20.3	20.3	20.3	27.1	27.1	27.1	27.1	27.1	20.3	20.3	20.3
70°	13.6	13.6	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3
72.5°	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
75°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
77.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
80°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
82.5°	0.0	0.0	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	10797.9	10797.9	10797.9	10797.9	10797.9	10797.9	10797.9	10797.9
2.5°	10825.0	10791.1	10791.1	10791.1	10777.6	10791.1	10811.5	10777.6
5°	10709.4	10722.9	10661.9	10709.4	10729.7	10695.8	10777.6	10709.4
7.5°	10607.3	10587.0	10491.7	10559.9	10600.5	10614.1	10607.3	10553.1
10°	10403.1	10355.7	10314.6	10314.6	10301.0	10294.3	10369.2	10342.1
12.5°	10035.9	10069.8	10008.8	10042.7	10015.6	10022.3	10029.1	10015.6
15°	9722.9	9689.0	9607.2	9661.4	9627.6	9593.7	9661.4	9559.4
17.5°	9232.8	9226.0	9178.6	9144.7	9158.2	9151.4	9185.3	9137.9
20°	8654.6	8668.1	8641.0	8627.5	8607.1	8559.3	8600.4	8545.7
22.5°	8028.5	8042.1	8069.6	8015.0	8021.8	7954.0	8015.0	7954.0
25°	7395.7	7388.9	7355.0	7327.9	7253.0	7178.0	7164.4	7117.0
27.5°	6701.9	6654.4	6572.7	6484.2	6368.5	6266.4	6259.7	6225.8
30°	5939.9	5837.8	5688.3	5545.1	5368.5	5211.7	5211.7	5157.5
32.5°	5137.2	4905.5	4701.3	4524.7	4293.4	4204.9	4116.4	4068.9
35°	4177.8	3973.6	3728.4	3436.1	3327.2	3109.5	3123.1	3014.2
37.5°	3272.6	3021.0	2789.7	2551.6	2361.0	2259.0	2204.3	2150.1
40°	2428.8	2184.0	1932.4	1775.6	1605.8	1517.3	1483.4	1469.8
42.5°	1660.0	1455.8	1292.8	1163.6	1075.0	979.7	952.6	939.1
45°	1081.8	966.2	816.7	714.6	653.2	598.9	598.9	578.2
47.5°	646.4	571.4	496.9	428.7	388.0	353.7	340.1	333.4
50°	360.5	319.8	279.1	251.6	224.5	204.2	197.4	197.4
52.5°	197.4	177.1	163.5	142.7	129.2	129.2	129.2	122.4
55°	102.1	102.1	102.1	102.1	95.3	95.3	95.3	88.5
57.5°	68.2	68.2	75.0	75.0	75.0	68.2	68.2	68.2
60°	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
62.5°	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
65°	27.1	33.9	33.9	33.9	33.9	27.1	27.1	27.1
67.5°	20.3	27.1	27.1	27.1	20.3	20.3	20.3	20.3
70°	20.3	20.3	20.3	20.3	20.3	13.6	13.6	13.6
72.5°	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
75°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
77.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
80°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
82.5°	6.8	6.8	6.8	6.8	6.8	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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)