

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: P840571

Luminaire Tested: **LD6C130D010 EU61309035 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: P840571
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: LD6C130D010 EU61309035 6LBSQLI
Description: 6 INCH 13000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

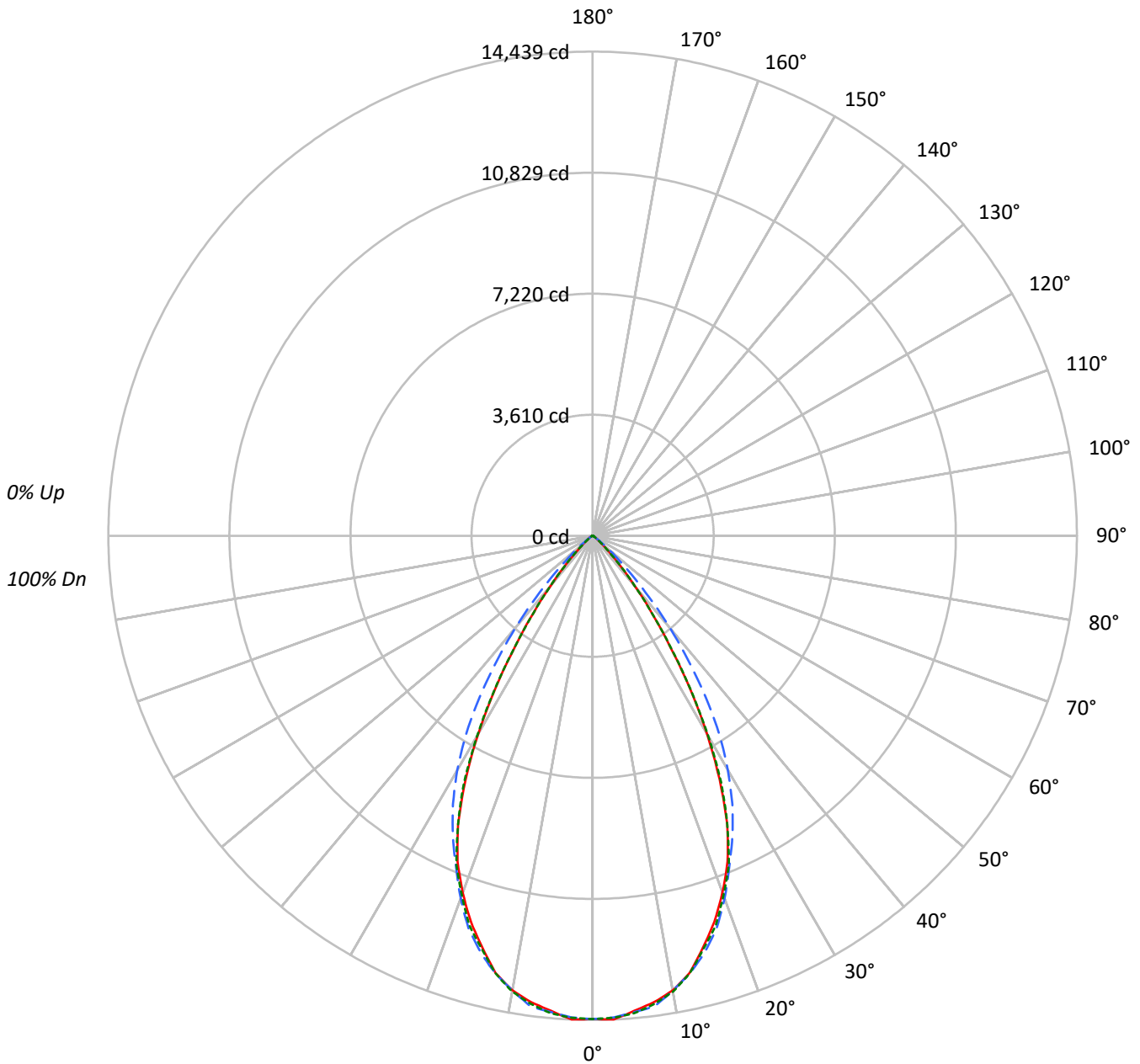
Lumens per Lamp: N/A
Luminaire Lumens: 13542.9 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.95
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 144.3
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: P840571

CATALOG NUMBER: LD6C130D010 EU61309035 6LBSQLI

Luminous Intensity Polar Plot





TEST NUMBER: P840571

CATALOG NUMBER: LD6C130D010 EU61309035 6LBSQLI

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°	620510	620510	620510
5°	614642	616207	617771
10°	601878	601878	603483
15°	566698	573977	568713
20°	518844	527187	522601
25°	450833	468506	451261
30°	339051	400918	342228
35°	210503	308829	211454
40°	110769	201108	110258
45°	45887	100621	46989
50°	17650	37718	17650
55°	9548	11583	8873
60°	6278	5451	6278
65°	3688	3688	3688
70°	2279	3412	2279
75°	1497	1497	1497
80°	2232	2232	2232
85°	0	0	0



TEST NUMBER: P840571

CATALOG NUMBER: LD6C130D010 EU61309035 6LBSQLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1349.2	10.0
10°-20°	3589.0	26.5
20°-30°	4404.8	32.5
30°-40°	3040.7	22.5
40°-50°	950.7	7.0
50°-60°	148.6	1.1
60°-70°	42.8	0.3
70°-80°	14.0	0.1
80°-90°	3.1	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°	9343.0	69.0
0°-40°	12383.7	91.4
0°-60°	13483.0	99.6
0°-90°	13542.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13542.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14412	14412	14412	14412	14412	
5°	14221	14276	14257	14262	14294	###
15°	12714	12895	12877	12859	12759	3556
25°	9490	9735	9862	9799	9499	4252
35°	4005	4736	5876	4781	4023	2558
45°	754	1031	1652	1022	772	675
55°	127	136	154	136	118	124
65°	36	45	36	45	36	40
75°	9	9	9	9	9	13
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



TEST NUMBER: P840571

CATALOG NUMBER: LD6C130D010 EU61309035 6LBSQLI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	14411.8	14411.8	14411.8	14411.8	14411.8	14411.8	14411.8	14411.8	14411.8	14411.8	14411.8
2.5°	14438.9	14239.3	14366.5	14338.8	14411.8	14457.0	14411.8	14493.2	14438.9	14375.6	14393.7
5°	14221.2	14248.4	14239.3	14257.4	14275.5	14275.5	14366.5	14375.6	14393.7	14257.4	14293.6
7.5°	14030.1	14030.1	14075.9	14057.3	14121.2	14103.1	14112.1	14184.5	14193.5	14157.3	14130.2
10°	13766.7	13730.5	13685.3	13685.3	13766.7	13775.7	13848.7	13857.7	13912.0	13766.7	13785.3
12.5°	13358.5	13339.9	13267.5	13303.7	13367.6	13330.8	13449.0	13458.0	13439.9	13376.6	13412.8
15°	12713.5	12786.4	12767.7	12758.7	12904.0	12885.9	12876.8	12904.0	12913.0	12876.8	12849.7
17.5°	12069.0	12132.3	12141.3	12159.4	12186.6	12214.3	12250.4	12350.5	12313.8	12286.6	12377.6
20°	11323.8	11296.7	11369.6	11442.0	11469.1	11469.1	11524.0	11596.3	11542.1	11505.9	11514.9
22.5°	10516.0	10561.2	10525.0	10597.4	10634.1	10679.3	10733.6	10797.5	10751.7	10652.2	10770.4
25°	9489.9	9517.0	9635.2	9626.1	9680.4	9789.5	9870.9	9870.9	9870.9	9861.9	9861.9
27.5°	8200.3	8182.2	8327.5	8427.0	8563.3	8736.3	8844.8	9017.2	9044.9	9017.2	8953.9
30°	6819.7	6801.7	6983.1	7110.3	7355.7	7437.7	7737.3	7900.7	8073.1	8064.1	8018.8
32.5°	5384.9	5421.6	5566.9	5748.4	5948.0	6202.4	6483.9	6846.9	7001.8	7038.0	6956.0
35°	4004.9	4059.2	4195.4	4349.8	4595.1	4876.7	5266.7	5612.2	5875.6	5875.6	5811.7
37.5°	2887.8	2905.9	3033.1	3133.1	3387.0	3641.4	3977.8	4449.8	4613.2	4676.5	4613.2
40°	1970.8	1970.8	2043.2	2152.3	2360.9	2579.1	2887.8	3241.7	3478.0	3578.1	3469.0
42.5°	1253.4	1271.5	1325.7	1398.7	1553.0	1743.5	1979.8	2243.3	2415.7	2488.1	2388.6
45°	753.6	771.7	817.5	871.8	971.8	1090.0	1253.4	1443.9	1589.2	1652.5	1607.3
47.5°	454.0	472.1	490.2	526.9	599.3	681.2	762.6	871.8	962.8	971.8	953.7
50°	263.5	263.5	281.5	308.7	344.9	390.7	435.9	499.2	526.9	563.1	526.9
52.5°	172.4	172.4	172.4	181.5	199.6	218.2	236.3	272.5	290.6	290.6	281.5
55°	127.2	127.2	127.2	127.2	136.2	136.2	136.2	145.3	154.3	154.3	154.3
57.5°	91.0	91.0	91.0	100.1	100.1	100.1	91.0	91.0	91.0	91.0	91.0
60°	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	63.3	63.3	63.3
62.5°	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3
65°	36.2	36.2	36.2	45.2	45.2	45.2	45.2	36.2	36.2	36.2	36.2
67.5°	27.1	27.1	27.1	36.2	36.2	36.2	36.2	36.2	27.1	27.1	27.1
70°	18.1	18.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1
72.5°	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1
75°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
77.5°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
80°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
82.5°	0.0	0.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
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°	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



TEST NUMBER: P840571

CATALOG NUMBER: LD6C130D010 EU61309035 6LBSQLI

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	14411.8	14411.8	14411.8	14411.8	14411.8	14411.8	14411.8	14411.8
2.5°	14447.9	14402.7	14402.7	14402.7	14384.6	14402.7	14429.8	14384.6
5°	14293.6	14311.7	14230.3	14293.6	14320.7	14275.5	14384.6	14293.6
7.5°	14157.3	14130.2	14003.0	14094.0	14148.3	14166.4	14157.3	14085.0
10°	13884.9	13821.5	13766.7	13766.7	13748.6	13739.6	13839.6	13803.4
12.5°	13394.7	13439.9	13358.5	13403.7	13367.6	13376.6	13385.7	13367.6
15°	12976.9	12931.7	12822.6	12894.9	12849.7	12804.5	12894.9	12758.7
17.5°	12322.8	12313.8	12250.4	12205.2	12223.3	12214.3	12259.5	12196.2
20°	11551.1	11569.2	11533.0	11514.9	11487.8	11423.9	11478.7	11405.8
22.5°	10715.5	10733.6	10770.4	10697.4	10706.5	10616.0	10697.4	10616.0
25°	9870.9	9861.9	9816.6	9780.5	9680.4	9580.3	9562.2	9498.9
27.5°	8944.9	8881.6	8772.4	8654.3	8499.9	8363.7	8354.7	8309.4
30°	7927.8	7791.6	7592.0	7400.9	7165.2	6956.0	6956.0	6883.6
32.5°	6856.5	6547.2	6274.8	6039.0	5730.3	5612.2	5494.0	5430.7
35°	5576.0	5303.5	4976.2	4586.1	4440.8	4150.2	4168.3	4023.0
37.5°	4367.8	4032.0	3723.4	3405.6	3151.2	3015.0	2942.1	2869.7
40°	3241.7	2914.9	2579.1	2369.9	2143.2	2025.1	1979.8	1961.7
42.5°	2215.6	1943.1	1725.4	1553.0	1434.8	1307.6	1271.5	1253.4
45°	1443.9	1289.5	1090.0	953.7	871.8	799.4	799.4	771.7
47.5°	862.7	762.6	663.1	572.1	517.9	472.1	454.0	444.9
50°	481.1	426.8	372.6	335.8	299.6	272.5	263.5	263.5
52.5°	263.5	236.3	218.2	190.5	172.4	172.4	172.4	163.4
55°	136.2	136.2	136.2	136.2	127.2	127.2	127.2	118.2
57.5°	91.0	91.0	100.1	100.1	100.1	91.0	91.0	91.0
60°	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
62.5°	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3
65°	36.2	45.2	45.2	45.2	45.2	36.2	36.2	36.2
67.5°	27.1	36.2	36.2	36.2	27.1	27.1	27.1	27.1
70°	27.1	27.1	27.1	27.1	27.1	18.1	18.1	18.1
72.5°	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1
75°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
77.5°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
80°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
82.5°	9.0	9.0	9.0	9.0	9.0	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°	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)