

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: P840579

Luminaire Tested: **LD6C130D010 EU61309730 6LBSQLI**

Issue Date: 2/15/2022

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: P840579
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P209355)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD6C130D010 EU61309730 6LBSQLI
Description: 6 INCH 13000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 97CRI LEDS
AND 6LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

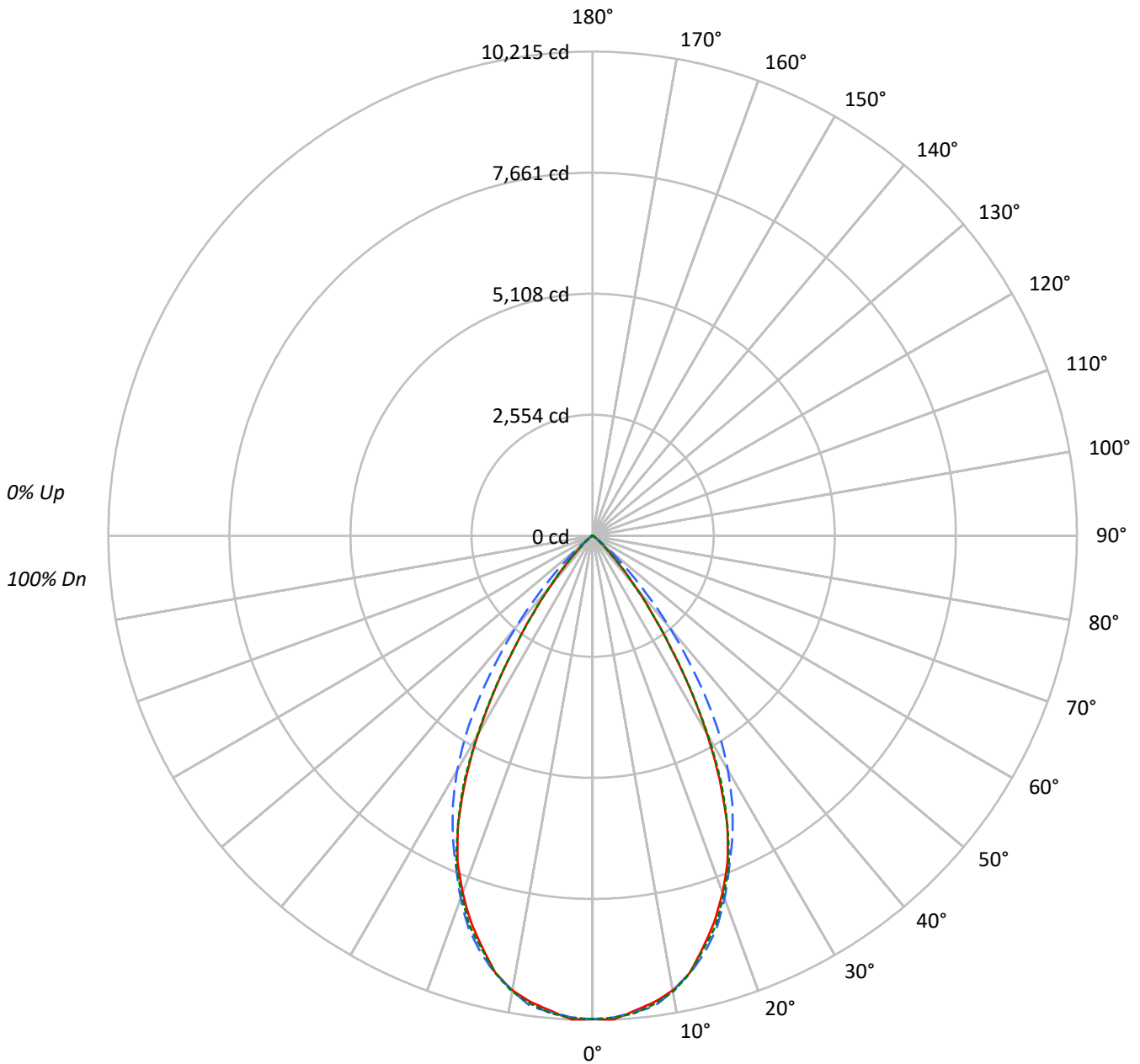
Lumens per Lamp: N/A
Luminaire Lumens: 9581.0 lumens
Efficiency: N/A
Efficacy: 66.4 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.95
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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: P840579

CATALOG NUMBER: LD6C130D010 EU61309730 6LBSQLI

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°	438983	438983	438983
5°	434829	435935	437046
10°	425810	425810	426933
15°	400912	406069	402343
20°	367073	372956	369713
25°	318941	331449	319240
30°	239877	283622	242114
35°	148911	218481	149589
40°	78356	142267	77996
45°	32473	71192	33258
50°	12472	26686	12472
55°	6748	8190	6275
60°	4418	3875	4418
65°	2628	2628	2628
70°	1624	2417	1624
75°	1048	1048	1048
80°	1562	1562	1562
85°	0	0	0



TEST NUMBER: P840579

CATALOG NUMBER: LD6C130D010 EU61309730 6LBSQLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	954.5	10.0
10°-20°	2539.1	26.5
20°-30°	3116.2	32.5
30°-40°	2151.2	22.5
40°-50°	672.6	7.0
50°-60°	105.0	1.1
60°-70°	30.4	0.3
70°-80°	9.9	0.1
80°-90°	2.2	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°	6609.8	69.0
0°-40°	8760.9	91.4
0°-60°	9538.5	99.6
0°-90°	9581.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9581.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10196	10196	10196	10196	10196	
5°	10061	10099	10086	10090	10112	951
15°	8994	9123	9110	9097	9026	2516
25°	6714	6887	6977	6932	6720	3008
35°	2833	3350	4157	3382	2846	1810
45°	533	729	1169	723	546	478
55°	90	96	109	96	84	87
65°	26	32	26	32	26	28
75°	6	6	6	6	6	9
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



TEST NUMBER: P840579

CATALOG NUMBER: LD6C130D010 EU61309730 6LBSQLI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	10195.7	10195.7	10195.7	10195.7	10195.7	10195.7	10195.7	10195.7	10195.7	10195.7	10195.7
2.5°	10214.9	10073.5	10163.4	10144.2	10195.7	10227.8	10195.7	10253.3	10214.9	10170.0	10182.9
5°	10060.8	10080.0	10073.5	10086.4	10099.2	10099.2	10163.4	10170.0	10182.9	10086.4	10112.1
7.5°	9925.9	9925.9	9958.0	9945.1	9990.1	9977.2	9983.5	10035.1	10041.4	10015.9	9996.4
10°	9739.5	9713.7	9681.6	9681.6	9739.5	9746.0	9797.3	9803.6	9842.3	9739.5	9752.4
12.5°	9450.5	9437.6	9386.0	9411.8	9456.8	9431.0	9514.6	9520.9	9508.3	9463.3	9488.9
15°	8994.2	9045.7	9032.8	9026.3	9129.1	9116.2	9109.9	9129.1	9135.7	9109.9	9090.7
17.5°	8538.2	8583.1	8589.5	8602.3	8621.6	8641.0	8666.5	8737.3	8711.5	8692.3	8756.5
20°	8011.4	7992.0	8043.5	8094.8	8114.0	8114.0	8152.7	8203.9	8165.5	8139.8	8146.3
22.5°	7439.5	7471.5	7446.0	7497.3	7523.1	7555.2	7593.8	7638.8	7606.7	7536.0	7619.3
25°	6713.6	6732.8	6816.4	6809.9	6848.5	6925.6	6983.4	6983.4	6983.4	6976.9	6976.9
27.5°	5801.3	5788.5	5891.3	5962.0	6058.3	6180.3	6257.4	6379.4	6398.8	6379.4	6334.4
30°	4824.9	4812.0	4940.4	5030.3	5203.9	5261.7	5473.7	5589.4	5711.4	5704.8	5672.8
32.5°	3809.8	3835.3	3938.1	4066.7	4208.0	4387.8	4587.2	4844.1	4953.2	4979.0	4921.1
35°	2833.1	2871.7	2968.0	3077.4	3250.7	3450.0	3726.2	3970.2	4156.7	4156.7	4111.7
37.5°	2043.1	2055.7	2145.7	2216.4	2396.3	2576.2	2813.9	3147.9	3263.6	3308.6	3263.6
40°	1394.1	1394.1	1445.6	1522.7	1670.4	1824.6	2043.1	2293.5	2460.5	2531.2	2454.1
42.5°	886.5	899.4	938.0	989.3	1098.5	1233.4	1400.6	1586.8	1708.9	1760.4	1689.6
45°	533.3	546.2	578.3	616.7	687.4	771.0	886.5	1021.4	1124.2	1169.2	1137.1
47.5°	321.1	334.0	346.9	372.6	423.9	481.8	539.6	616.7	681.1	687.4	674.5
50°	186.2	186.2	199.1	218.5	244.1	276.1	308.5	353.4	372.6	398.4	372.6
52.5°	122.0	122.0	122.0	128.6	141.2	154.1	167.0	192.8	205.6	205.6	199.1
55°	89.9	89.9	89.9	89.9	96.3	96.3	96.3	102.8	109.1	109.1	109.1
57.5°	64.2	64.2	64.2	70.7	70.7	70.7	64.2	64.2	64.2	64.2	64.2
60°	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	45.0	45.0	45.0
62.5°	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6
65°	25.8	25.8	25.8	32.1	32.1	32.1	32.1	25.8	25.8	25.8	25.8
67.5°	19.2	19.2	19.2	25.8	25.8	25.8	25.8	25.8	19.2	19.2	19.2
70°	12.9	12.9	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2
72.5°	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9
75°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
77.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
80°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
82.5°	0.0	0.0	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
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: P840579

CATALOG NUMBER: LD6C130D010 EU61309730 6LBSQLI

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	10195.7	10195.7	10195.7	10195.7	10195.7	10195.7	10195.7	10195.7
2.5°	10221.3	10189.2	10189.2	10189.2	10176.3	10189.2	10208.4	10176.3
5°	10112.1	10125.0	10067.1	10112.1	10131.3	10099.2	10176.3	10112.1
7.5°	10015.9	9996.4	9906.5	9970.9	10009.3	10022.2	10015.9	9964.3
10°	9823.1	9778.1	9739.5	9739.5	9726.6	9720.3	9791.0	9765.2
12.5°	9476.0	9508.3	9450.5	9482.5	9456.8	9463.3	9469.7	9456.8
15°	9180.6	9148.5	9071.3	9122.8	9090.7	9058.6	9122.8	9026.3
17.5°	8718.1	8711.5	8666.5	8634.4	8647.3	8641.0	8673.1	8628.1
20°	8171.9	8184.7	8159.0	8146.3	8126.9	8081.9	8120.6	8069.0
22.5°	7580.9	7593.8	7619.3	7568.0	7574.4	7510.2	7568.0	7510.2
25°	6983.4	6976.9	6944.8	6919.3	6848.5	6777.8	6764.9	6719.9
27.5°	6328.1	6283.1	6206.1	6122.4	6013.3	5917.0	5910.5	5878.4
30°	5608.6	5512.1	5370.8	5235.9	5068.9	4921.1	4921.1	4869.9
32.5°	4850.4	4632.1	4439.4	4272.4	4053.8	3970.2	3886.8	3841.9
35°	3944.7	3751.9	3520.5	3244.4	3141.6	2935.9	2948.8	2846.0
37.5°	3090.3	2852.5	2634.0	2409.2	2229.3	2133.0	2081.5	2030.2
40°	2293.5	2062.3	1824.6	1676.8	1516.1	1432.7	1400.6	1387.7
42.5°	1567.6	1374.9	1220.7	1098.5	1015.1	925.2	899.4	886.5
45°	1021.4	912.3	771.0	674.5	616.7	565.4	565.4	546.2
47.5°	610.4	539.6	468.9	404.7	366.1	334.0	321.1	314.8
50°	340.6	301.9	263.5	237.7	212.0	192.8	186.2	186.2
52.5°	186.2	167.0	154.1	134.9	122.0	122.0	122.0	115.7
55°	96.3	96.3	96.3	96.3	89.9	89.9	89.9	83.6
57.5°	64.2	64.2	70.7	70.7	70.7	64.2	64.2	64.2
60°	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
62.5°	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6
65°	25.8	32.1	32.1	32.1	32.1	25.8	25.8	25.8
67.5°	19.2	25.8	25.8	25.8	19.2	19.2	19.2	19.2
70°	19.2	19.2	19.2	19.2	19.2	12.9	12.9	12.9
72.5°	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9
75°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
77.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
80°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
82.5°	6.3	6.3	6.3	6.3	6.3	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)