

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: P840578

Luminaire Tested: **LD6C130D010 EU61309727 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: P840578
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 EU61309727 6LBSQLI
Description: 6 INCH 13000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 97CRI LEDS
AND 6LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

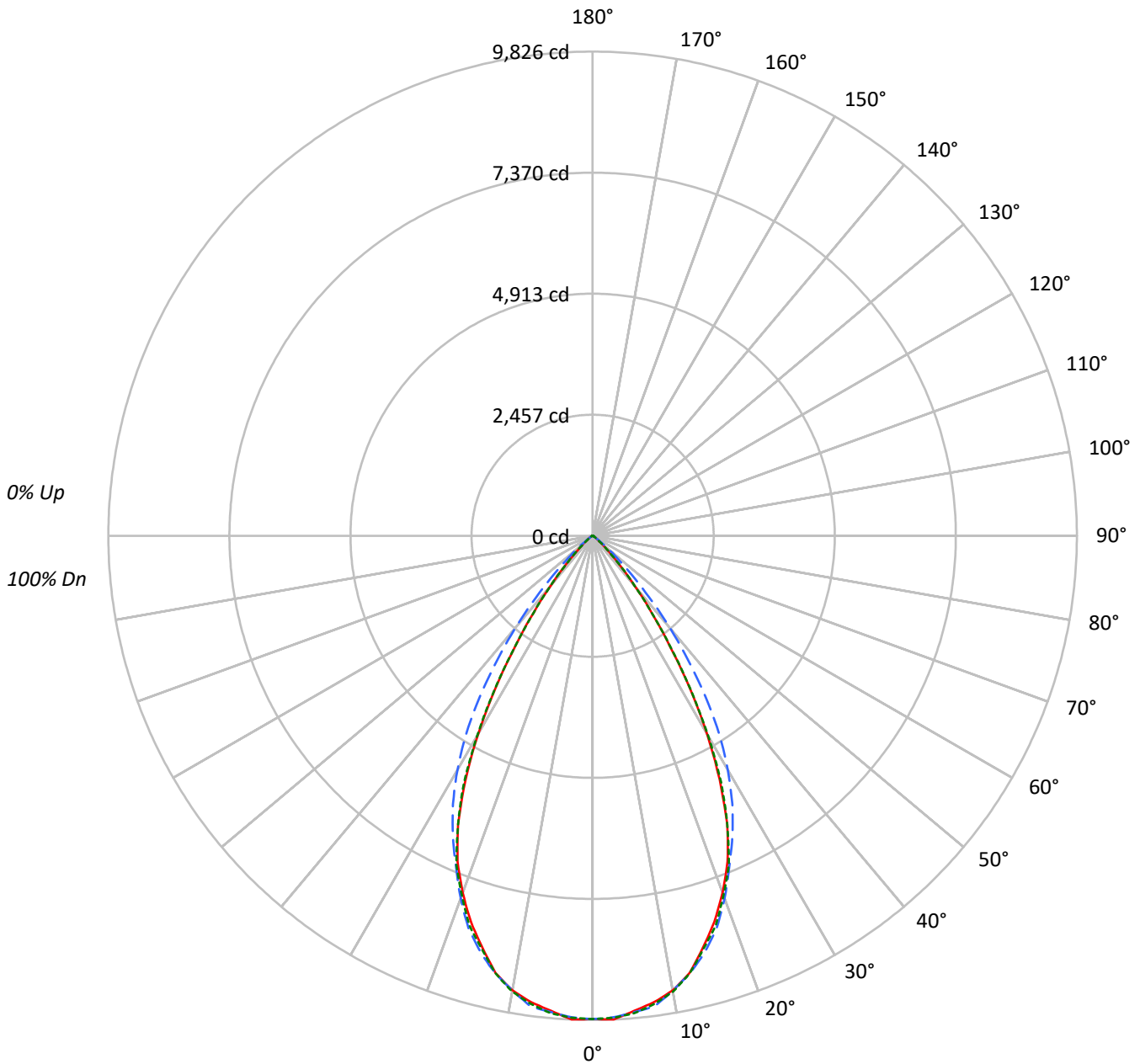
Lumens per Lamp: N/A
Luminaire Lumens: 9216.0 lumens
Efficiency: N/A
Efficacy: 63.9 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.95
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 144.3
Input Voltage (V):
Input Current (A_{in}): 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: P840578

CATALOG NUMBER: LD6C130D010 EU61309727 6LBSQLI

Luminous Intensity Polar Plot





TEST NUMBER: P840578

CATALOG NUMBER: LD6C130D010 EU61309727 6LBSQLI

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	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°	422260	422260	422260
5°	418263	419326	420398
10°	409585	409585	410669
15°	385636	390597	387014
20°	353089	358748	355628
25°	306793	318822	307078
30°	230739	272819	232887
35°	143240	210156	143892
40°	75371	136848	75028
45°	31237	68483	31992
50°	11997	25668	11997
55°	6493	7882	6035
60°	4245	3729	4245
65°	2527	2527	2527
70°	1561	2329	1561
75°	1015	1015	1015
80°	1512	1512	1512
85°	0	0	0



TEST NUMBER: P840578

CATALOG NUMBER: LD6C130D010 EU61309727 6LBSQLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	918.1	10.0
10°-20°	2442.3	26.5
20°-30°	2997.5	32.5
30°-40°	2069.2	22.5
40°-50°	646.9	7.0
50°-60°	101.0	1.1
60°-70°	29.3	0.3
70°-80°	9.5	0.1
80°-90°	2.1	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°	6357.9	69.0
0°-40°	8427.2	91.4
0°-60°	9175.1	99.6
0°-90°	9216.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9216.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9807	9807	9807	9807	9807	
5°	9678	9714	9702	9705	9727	915
15°	8652	8775	8763	8750	8682	2420
25°	6458	6625	6711	6668	6464	2894
35°	2725	3223	3998	3254	2738	1741
45°	513	701	1125	695	525	459
55°	86	93	105	93	80	84
65°	25	31	25	31	25	27
75°	6	6	6	6	6	9
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



TEST NUMBER: P840578

CATALOG NUMBER: LD6C130D010 EU61309727 6LBSQLI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	9807.3	9807.3	9807.3	9807.3	9807.3	9807.3	9807.3	9807.3	9807.3	9807.3	9807.3
2.5°	9825.8	9689.7	9776.2	9757.7	9807.3	9838.2	9807.3	9862.7	9825.8	9782.5	9794.9
5°	9677.5	9696.0	9689.7	9702.1	9714.5	9714.5	9776.2	9782.5	9794.9	9702.1	9726.9
7.5°	9547.8	9547.8	9578.6	9566.3	9609.5	9597.1	9603.2	9652.8	9658.8	9634.3	9615.6
10°	9368.4	9343.7	9312.8	9312.8	9368.4	9374.8	9424.1	9430.2	9467.3	9368.4	9380.8
12.5°	9090.4	9078.0	9028.5	9053.3	9096.5	9071.7	9152.2	9158.2	9146.1	9102.8	9127.4
15°	8651.5	8701.1	8688.7	8682.4	8781.3	8768.9	8762.8	8781.3	8787.6	8762.8	8744.4
17.5°	8212.9	8256.2	8262.2	8274.6	8293.1	8311.8	8336.4	8404.4	8379.6	8361.1	8422.9
20°	7706.2	7687.5	7737.1	7786.4	7804.9	7804.9	7842.1	7891.4	7854.5	7829.7	7836.0
22.5°	7156.0	7186.9	7162.4	7211.7	7236.5	7267.3	7304.5	7347.8	7316.9	7248.9	7329.1
25°	6457.9	6476.3	6556.8	6550.4	6587.6	6661.7	6717.4	6717.4	6717.4	6711.1	6711.1
27.5°	5580.3	5567.9	5666.8	5734.9	5827.5	5944.9	6019.0	6136.4	6155.1	6136.4	6093.1
30°	4641.1	4628.7	4752.1	4838.7	5005.6	5061.3	5265.1	5376.4	5493.8	5487.5	5456.6
32.5°	3664.7	3689.2	3788.1	3911.8	4047.6	4220.7	4412.4	4659.6	4764.5	4789.3	4733.7
35°	2725.2	2762.3	2854.9	2960.2	3126.9	3318.6	3584.2	3819.0	3998.3	3998.3	3955.1
37.5°	1965.3	1977.4	2063.9	2132.0	2305.0	2478.0	2706.7	3028.0	3139.3	3182.5	3139.3
40°	1341.0	1341.0	1390.5	1464.6	1606.8	1755.0	1965.3	2206.1	2366.7	2434.8	2360.6
42.5°	852.7	865.1	902.3	951.6	1056.6	1186.4	1347.3	1526.4	1643.7	1693.3	1625.3
45°	513.0	525.4	556.3	593.2	661.2	741.7	852.7	982.5	1081.4	1124.7	1093.8
47.5°	308.9	321.3	333.7	358.4	407.8	463.4	519.1	593.2	655.2	661.2	648.8
50°	179.1	179.1	191.5	210.2	234.8	265.6	296.7	340.0	358.4	383.2	358.4
52.5°	117.4	117.4	117.4	123.7	135.8	148.2	160.6	185.4	197.8	197.8	191.5
55°	86.5	86.5	86.5	86.5	92.6	92.6	92.6	98.9	105.0	105.0	105.0
57.5°	61.7	61.7	61.7	68.0	68.0	68.0	61.7	61.7	61.7	61.7	61.7
60°	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	43.3	43.3	43.3
62.5°	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2
65°	24.8	24.8	24.8	30.9	30.9	30.9	30.9	24.8	24.8	24.8	24.8
67.5°	18.5	18.5	18.5	24.8	24.8	24.8	24.8	24.8	18.5	18.5	18.5
70°	12.4	12.4	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
72.5°	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
75°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
77.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
80°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
82.5°	0.0	0.0	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
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: P840578

CATALOG NUMBER: LD6C130D010 EU61309727 6LBSQLI

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	9807.3	9807.3	9807.3	9807.3	9807.3	9807.3	9807.3	9807.3
2.5°	9831.9	9801.0	9801.0	9801.0	9788.6	9801.0	9819.5	9788.6
5°	9726.9	9739.3	9683.6	9726.9	9745.4	9714.5	9788.6	9726.9
7.5°	9634.3	9615.6	9529.1	9591.0	9628.0	9640.4	9634.3	9584.7
10°	9448.9	9405.6	9368.4	9368.4	9356.0	9350.0	9418.0	9393.2
12.5°	9115.0	9146.1	9090.4	9121.3	9096.5	9102.8	9108.9	9096.5
15°	8830.9	8800.0	8725.7	8775.2	8744.4	8713.5	8775.2	8682.4
17.5°	8385.9	8379.6	8336.4	8305.5	8317.9	8311.8	8342.7	8299.4
20°	7860.5	7872.9	7848.1	7836.0	7817.3	7774.0	7811.2	7761.6
22.5°	7292.1	7304.5	7329.1	7279.7	7285.8	7224.1	7279.7	7224.1
25°	6717.4	6711.1	6680.2	6655.7	6587.6	6519.6	6507.2	6463.9
27.5°	6087.0	6043.8	5969.6	5889.2	5784.2	5691.6	5685.3	5654.5
30°	5394.9	5302.1	5166.2	5036.5	4875.8	4733.7	4733.7	4684.3
32.5°	4665.6	4455.7	4270.2	4109.6	3899.4	3819.0	3738.8	3695.5
35°	3794.4	3609.0	3386.4	3120.8	3021.9	2824.1	2836.5	2737.6
37.5°	2972.5	2743.9	2533.7	2317.4	2144.4	2051.8	2002.2	1952.9
40°	2206.1	1983.7	1755.0	1612.9	1458.3	1378.1	1347.3	1334.9
42.5°	1507.9	1322.5	1174.2	1056.6	976.4	889.9	865.1	852.7
45°	982.5	877.5	741.7	648.8	593.2	543.9	543.9	525.4
47.5°	587.1	519.1	451.0	389.3	352.1	321.3	308.9	302.8
50°	327.6	290.4	253.5	228.7	203.9	185.4	179.1	179.1
52.5°	179.1	160.6	148.2	129.8	117.4	117.4	117.4	111.3
55°	92.6	92.6	92.6	92.6	86.5	86.5	86.5	80.4
57.5°	61.7	61.7	68.0	68.0	68.0	61.7	61.7	61.7
60°	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
62.5°	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2
65°	24.8	30.9	30.9	30.9	30.9	24.8	24.8	24.8
67.5°	18.5	24.8	24.8	24.8	18.5	18.5	18.5	18.5
70°	18.5	18.5	18.5	18.5	18.5	12.4	12.4	12.4
72.5°	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
75°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
77.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
80°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
82.5°	6.1	6.1	6.1	6.1	6.1	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)