

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: P840544

Luminaire Tested: **LD6C10D010 EU6109727 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: P840544
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: LD6C10D010 EU6109727 6LBSQLI
Description: 6 INCH 1000 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

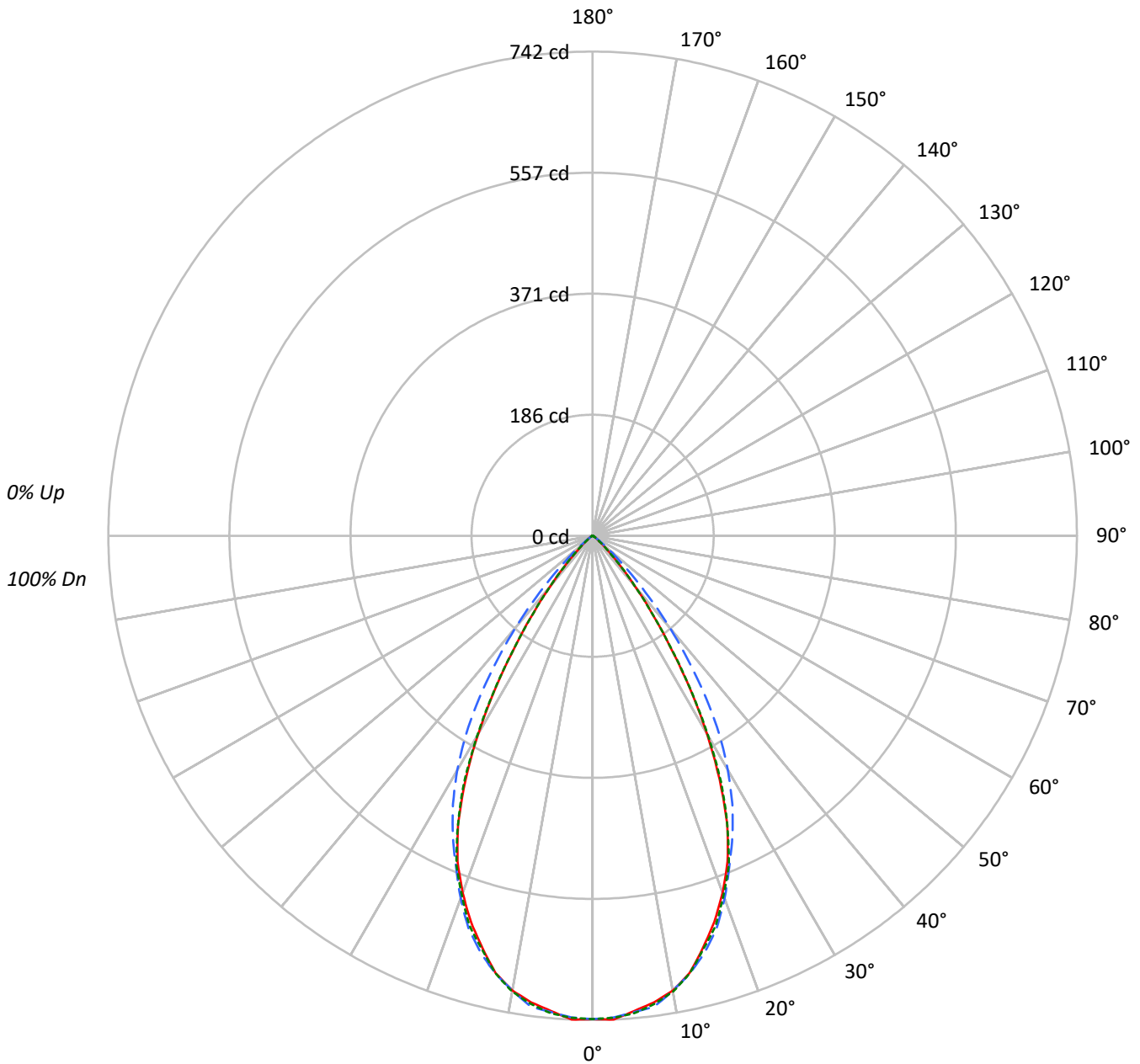
Lumens per Lamp: N/A
Luminaire Lumens: 696.0 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.95
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 9.8
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

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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°	31891	31891	31891
5°	31590	31667	31750
10°	30932	30932	31015
15°	29125	29499	29227
20°	26667	27093	26859
25°	23169	24076	23193
30°	17426	20602	17590
35°	10817	15873	10864
40°	5694	10336	5665
45°	2356	5170	2417
50°	904	1936	904
55°	488	593	458
60°	319	284	319
65°	194	194	194
70°	113	176	113
75°	83	83	83
80°	124	124	124
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.3	10.0
10°-20°	184.4	26.5
20°-30°	226.4	32.5
30°-40°	156.3	22.5
40°-50°	48.9	7.0
50°-60°	7.6	1.1
60°-70°	2.2	0.3
70°-80°	0.7	0.1
80°-90°	0.2	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°	480.2	69.0
0°-40°	636.4	91.4
0°-60°	692.9	99.6
0°-90°	696.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	696.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	741	741	741	741	741	
5°	731	734	733	733	735	69
15°	653	663	662	661	656	183
25°	488	500	507	504	488	219
35°	206	243	302	246	207	131
45°	39	53	85	52	40	35
55°	6	7	8	7	6	6
65°	2	2	2	2	2	2
75°	0	0	0	0	0	1
85°	0	0	0	0	0	0
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°	740.7	740.7	740.7	740.7	740.7	740.7	740.7	740.7	740.7	740.7	740.7
2.5°	742.1	731.8	738.3	736.9	740.7	743.0	740.7	744.8	742.1	738.8	739.7
5°	730.9	732.3	731.8	732.7	733.6	733.6	738.3	738.8	739.7	732.7	734.6
7.5°	721.1	721.1	723.4	722.5	725.7	724.8	725.2	729.0	729.4	727.6	726.2
10°	707.5	705.6	703.3	703.3	707.5	708.0	711.7	712.2	715.0	707.5	708.4
12.5°	686.5	685.6	681.8	683.7	687.0	685.1	691.2	691.6	690.7	687.5	689.3
15°	653.4	657.1	656.2	655.7	663.2	662.2	661.8	663.2	663.6	661.8	660.4
17.5°	620.2	623.5	624.0	624.9	626.3	627.7	629.6	634.7	632.8	631.4	636.1
20°	582.0	580.6	584.3	588.0	589.4	589.4	592.2	596.0	593.2	591.3	591.8
22.5°	540.4	542.8	540.9	544.6	546.5	548.8	551.6	554.9	552.6	547.4	553.5
25°	487.7	489.1	495.2	494.7	497.5	503.1	507.3	507.3	507.3	506.8	506.8
27.5°	421.4	420.5	428.0	433.1	440.1	449.0	454.6	463.4	464.8	463.4	460.2
30°	350.5	349.6	358.9	365.4	378.0	382.2	397.6	406.0	414.9	414.4	412.1
32.5°	276.8	278.6	286.1	295.4	305.7	318.7	333.2	351.9	359.8	361.7	357.5
35°	205.8	208.6	215.6	223.6	236.1	250.6	270.7	288.4	302.0	302.0	298.7
37.5°	148.4	149.3	155.9	161.0	174.1	187.1	204.4	228.7	237.1	240.3	237.1
40°	101.3	101.3	105.0	110.6	121.3	132.5	148.4	166.6	178.7	183.9	178.3
42.5°	64.4	65.3	68.1	71.9	79.8	89.6	101.7	115.3	124.1	127.9	122.7
45°	38.7	39.7	42.0	44.8	49.9	56.0	64.4	74.2	81.7	84.9	82.6
47.5°	23.3	24.3	25.2	27.1	30.8	35.0	39.2	44.8	49.5	49.9	49.0
50°	13.5	13.5	14.5	15.9	17.7	20.1	22.4	25.7	27.1	28.9	27.1
52.5°	8.9	8.9	8.9	9.3	10.3	11.2	12.1	14.0	14.9	14.9	14.5
55°	6.5	6.5	6.5	6.5	7.0	7.0	7.0	7.5	7.9	7.9	7.9
57.5°	4.7	4.7	4.7	5.1	5.1	5.1	4.7	4.7	4.7	4.7	4.7
60°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.3	3.3	3.3
62.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
65°	1.9	1.9	1.9	2.3	2.3	2.3	2.3	1.9	1.9	1.9	1.9
67.5°	1.4	1.4	1.4	1.9	1.9	1.9	1.9	1.9	1.4	1.4	1.4
70°	0.9	0.9	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
72.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
82.5°	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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°	740.7	740.7	740.7	740.7	740.7	740.7	740.7	740.7
2.5°	742.5	740.2	740.2	740.2	739.2	740.2	741.6	739.2
5°	734.6	735.5	731.3	734.6	736.0	733.6	739.2	734.6
7.5°	727.6	726.2	719.6	724.3	727.1	728.0	727.6	723.8
10°	713.6	710.3	707.5	707.5	706.6	706.1	711.3	709.4
12.5°	688.4	690.7	686.5	688.8	687.0	687.5	687.9	687.0
15°	666.9	664.6	659.0	662.7	660.4	658.1	662.7	655.7
17.5°	633.3	632.8	629.6	627.2	628.2	627.7	630.0	626.8
20°	593.6	594.6	592.7	591.8	590.4	587.1	589.9	586.2
22.5°	550.7	551.6	553.5	549.8	550.2	545.6	549.8	545.6
25°	507.3	506.8	504.5	502.6	497.5	492.4	491.4	488.2
27.5°	459.7	456.4	450.8	444.8	436.8	429.8	429.4	427.0
30°	407.4	400.4	390.2	380.4	368.2	357.5	357.5	353.8
32.5°	352.4	336.5	322.5	310.4	294.5	288.4	282.4	279.1
35°	286.6	272.6	255.7	235.7	228.2	213.3	214.2	206.7
37.5°	224.5	207.2	191.3	175.0	161.9	155.0	151.2	147.5
40°	166.6	149.8	132.5	121.8	110.1	104.1	101.7	100.8
42.5°	113.9	99.9	88.7	79.8	73.7	67.2	65.3	64.4
45°	74.2	66.3	56.0	49.0	44.8	41.1	41.1	39.7
47.5°	44.3	39.2	34.1	29.4	26.6	24.3	23.3	22.9
50°	24.7	21.9	19.1	17.3	15.4	14.0	13.5	13.5
52.5°	13.5	12.1	11.2	9.8	8.9	8.9	8.9	8.4
55°	7.0	7.0	7.0	7.0	6.5	6.5	6.5	6.1
57.5°	4.7	4.7	5.1	5.1	5.1	4.7	4.7	4.7
60°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
62.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
65°	1.9	2.3	2.3	2.3	2.3	1.9	1.9	1.9
67.5°	1.4	1.9	1.9	1.9	1.4	1.4	1.4	1.4
70°	1.4	1.4	1.4	1.4	1.4	0.9	0.9	0.9
72.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
82.5°	0.5	0.5	0.5	0.5	0.5	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)