

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: P840545

Luminaire Tested: **LD6C10D010 EU6109730 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: P840545  
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 EU6109730 6LBSQLI  
Description: 6 INCH 1000 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**

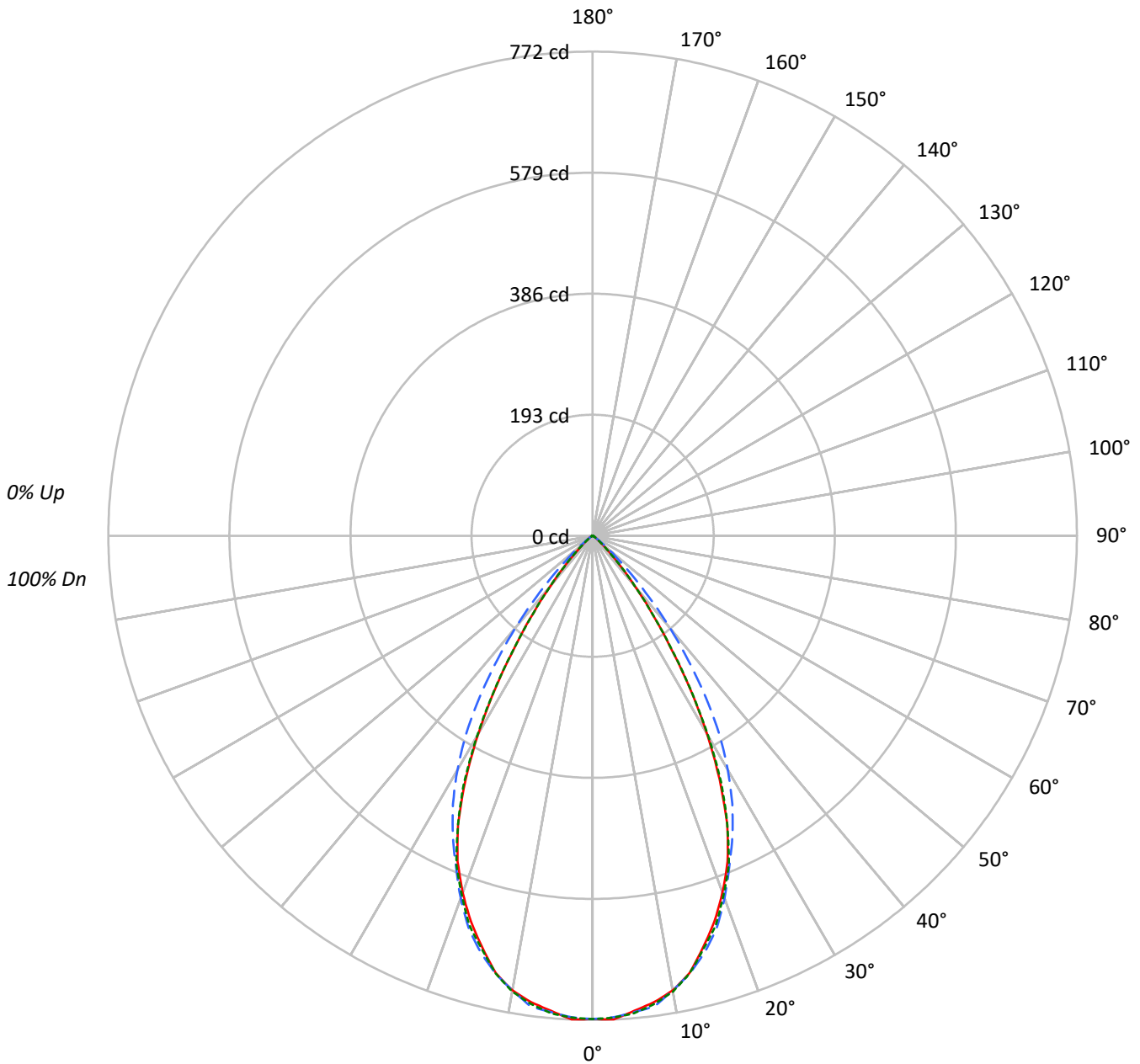
Lumens per Lamp: N/A  
Luminaire Lumens: 724.0 lumens  
Efficiency: N/A  
Efficacy: 73.9 lumens/watt  
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.95  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.8  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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°	33174	33174	33174
5°	32860	32942	33024
10°	32178	32178	32261
15°	30297	30685	30404
20°	27739	28183	27936
25°	24100	25046	24124
30°	18127	21433	18296
35°	11253	16509	11306
40°	5918	10752	5896
45°	2454	5383	2515
50°	944	2016	944
55°	510	616	473
60°	336	293	336
65°	194	194	194
70°	126	189	126
75°	83	83	83
80°	124	124	124
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.1	10.0
10°-20°	191.9	26.5
20°-30°	235.5	32.5
30°-40°	162.6	22.5
40°-50°	50.8	7.0
50°-60°	7.9	1.1
60°-70°	2.3	0.3
70°-80°	0.8	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°	499.5	69.0
0°-40°	662.0	91.4
0°-60°	720.8	99.6
0°-90°	724.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	724.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	770	770	770	770	770	
5°	760	763	762	762	764	72
15°	680	689	688	687	682	190
25°	507	520	527	524	508	227
35°	214	253	314	256	215	137
45°	40	55	88	55	41	36
55°	7	7	8	7	6	7
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°	770.5	770.5	770.5	770.5	770.5	770.5	770.5	770.5	770.5	770.5	770.5
2.5°	771.9	761.2	768.0	766.6	770.5	772.9	770.5	774.8	771.9	768.5	769.5
5°	760.3	761.7	761.2	762.2	763.2	763.2	768.0	768.5	769.5	762.2	764.1
7.5°	750.1	750.1	752.5	751.5	754.9	753.9	754.4	758.3	758.8	756.9	755.4
10°	736.0	734.0	731.6	731.6	736.0	736.5	740.3	740.8	743.7	736.0	736.9
12.5°	714.1	713.2	709.3	711.2	714.6	712.7	719.0	719.5	718.5	715.1	717.0
15°	679.7	683.6	682.6	682.1	689.9	688.9	688.4	689.9	690.3	688.4	686.9
17.5°	645.2	648.6	649.1	650.0	651.5	653.0	654.9	660.2	658.3	656.8	661.7
20°	605.4	603.9	607.8	611.7	613.1	613.1	616.1	619.9	617.0	615.1	615.6
22.5°	562.2	564.6	562.7	566.5	568.5	570.9	573.8	577.2	574.8	569.5	575.8
25°	507.3	508.8	515.1	514.6	517.5	523.3	527.7	527.7	527.7	527.2	527.2
27.5°	438.4	437.4	445.2	450.5	457.8	467.0	472.8	482.1	483.5	482.1	478.7
30°	364.6	363.6	373.3	380.1	393.2	397.6	413.6	422.4	431.6	431.1	428.7
32.5°	287.9	289.8	297.6	307.3	318.0	331.6	346.6	366.0	374.3	376.2	371.9
35°	214.1	217.0	224.3	232.5	245.6	260.7	281.6	300.0	314.1	314.1	310.7
37.5°	154.4	155.3	162.1	167.5	181.1	194.7	212.6	237.9	246.6	250.0	246.6
40°	105.3	105.3	109.2	115.1	126.2	137.9	154.4	173.3	185.9	191.3	185.4
42.5°	67.0	68.0	70.9	74.8	83.0	93.2	105.8	119.9	129.1	133.0	127.7
45°	40.3	41.3	43.7	46.6	51.9	58.3	67.0	77.2	85.0	88.4	85.9
47.5°	24.3	25.2	26.2	28.2	32.0	36.4	40.8	46.6	51.5	51.9	51.0
50°	14.1	14.1	15.0	16.5	18.4	20.9	23.3	26.7	28.2	30.1	28.2
52.5°	9.2	9.2	9.2	9.7	10.7	11.6	12.6	14.6	15.5	15.5	15.0
55°	6.8	6.8	6.8	6.8	7.3	7.3	7.3	7.8	8.2	8.2	8.2
57.5°	4.8	4.8	4.8	5.3	5.3	5.3	4.8	4.8	4.8	4.8	4.8
60°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.4	3.4	3.4
62.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
65°	1.9	1.9	1.9	2.4	2.4	2.4	2.4	1.9	1.9	1.9	1.9
67.5°	1.5	1.5	1.5	1.9	1.9	1.9	1.9	1.9	1.5	1.5	1.5
70°	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
72.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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°	770.5	770.5	770.5	770.5	770.5	770.5	770.5	770.5
2.5°	772.4	770.0	770.0	770.0	769.0	770.0	771.4	769.0
5°	764.1	765.1	760.7	764.1	765.6	763.2	769.0	764.1
7.5°	756.9	755.4	748.6	753.5	756.4	757.3	756.9	753.0
10°	742.3	738.9	736.0	736.0	735.0	734.5	739.9	737.9
12.5°	716.1	718.5	714.1	716.6	714.6	715.1	715.6	714.6
15°	693.7	691.3	685.5	689.4	686.9	684.5	689.4	682.1
17.5°	658.8	658.3	654.9	652.5	653.4	653.0	655.4	652.0
20°	617.5	618.5	616.5	615.6	614.1	610.7	613.6	609.7
22.5°	572.9	573.8	575.8	571.9	572.4	567.5	571.9	567.5
25°	527.7	527.2	524.8	522.9	517.5	512.2	511.2	507.8
27.5°	478.2	474.8	469.0	462.7	454.4	447.1	446.6	444.2
30°	423.8	416.5	405.9	395.7	383.0	371.9	371.9	368.0
32.5°	366.5	350.0	335.5	322.8	306.3	300.0	293.7	290.3
35°	298.1	283.5	266.0	245.2	237.4	221.9	222.8	215.1
37.5°	233.5	215.6	199.0	182.1	168.5	161.2	157.3	153.4
40°	173.3	155.8	137.9	126.7	114.6	108.3	105.8	104.9
42.5°	118.5	103.9	92.2	83.0	76.7	69.9	68.0	67.0
45°	77.2	68.9	58.3	51.0	46.6	42.7	42.7	41.3
47.5°	46.1	40.8	35.4	30.6	27.7	25.2	24.3	23.8
50°	25.7	22.8	19.9	18.0	16.0	14.6	14.1	14.1
52.5°	14.1	12.6	11.6	10.2	9.2	9.2	9.2	8.7
55°	7.3	7.3	7.3	7.3	6.8	6.8	6.8	6.3
57.5°	4.8	4.8	5.3	5.3	5.3	4.8	4.8	4.8
60°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
62.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
65°	1.9	2.4	2.4	2.4	2.4	1.9	1.9	1.9
67.5°	1.5	1.9	1.9	1.9	1.5	1.5	1.5	1.5
70°	1.5	1.5	1.5	1.5	1.5	1.0	1.0	1.0
72.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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)