

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: P840518

Luminaire Tested: **LD6C100D010 EU61009040 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: P840518  
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: LD6C100D010 EU61009040 6LBSQLI  
Description: 6 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 6LBSQ TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

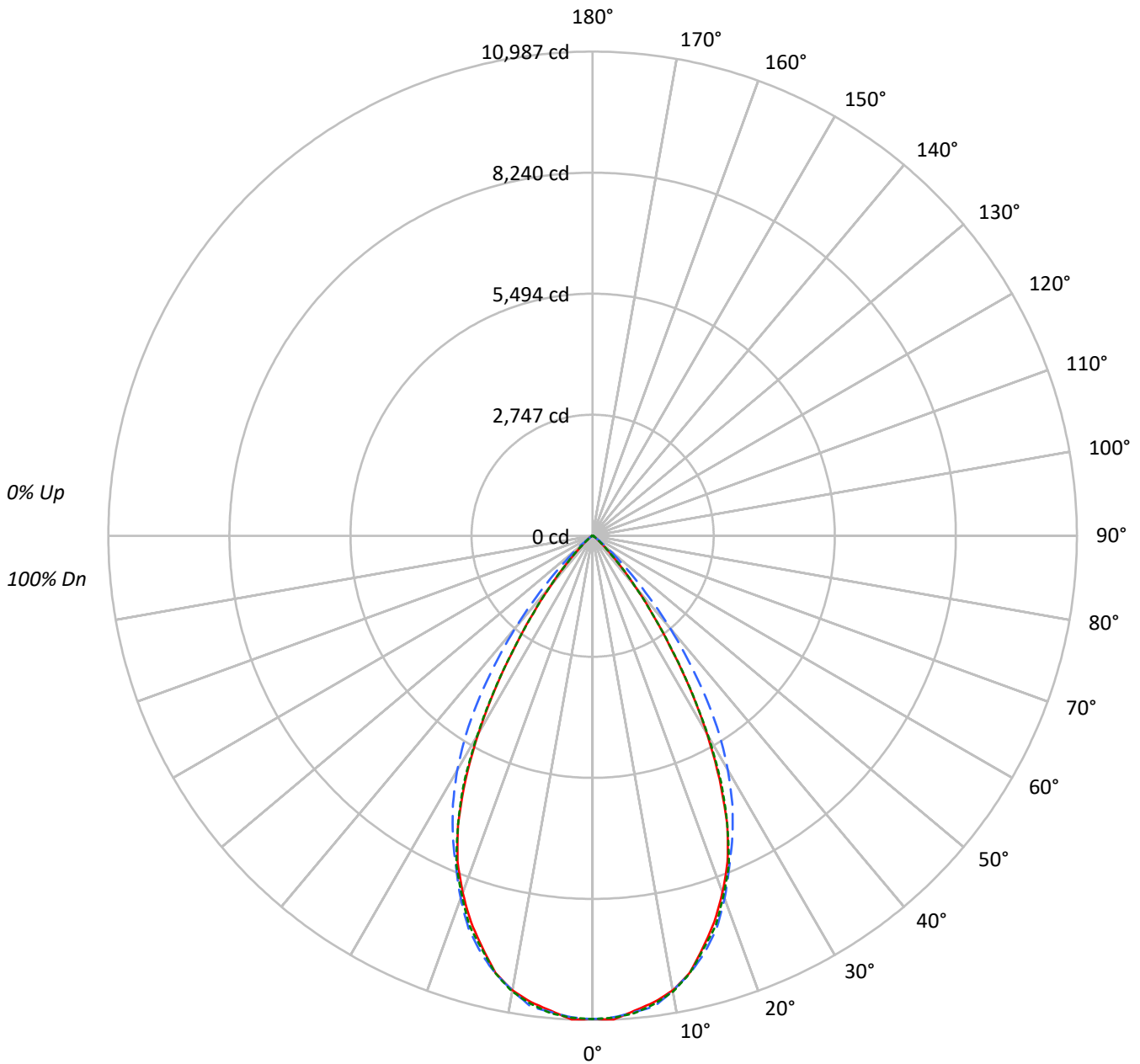
Lumens per Lamp: N/A  
Luminaire Lumens: 10305.0 lumens  
Efficiency: N/A  
Efficacy: 90.1 lumens/watt  
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.95  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 114.4  
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°	472148	472148	472148
5°	467689	468878	470066
10°	457974	457974	459198
15°	431205	436745	432738
20°	394794	401140	397653
25°	343041	356490	343369
30°	257988	305060	260405
35°	160175	234991	160895
40°	84285	153024	83897
45°	34914	76563	35755
50°	13430	28702	13430
55°	7266	8813	6748
60°	4779	4151	4779
65°	2802	2802	2802
70°	1737	2593	1737
75°	1148	1148	1148
80°	1711	1711	1711
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1026.6	10.0
10°-20°	2730.9	26.5
20°-30°	3351.6	32.5
30°-40°	2313.7	22.5
40°-50°	723.4	7.0
50°-60°	113.1	1.1
60°-70°	32.6	0.3
70°-80°	10.7	0.1
80°-90°	2.4	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°	7109.2	69.0
0°-40°	9422.9	91.4
0°-60°	10259.3	99.6
0°-90°	10305.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10305.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10966	10966	10966	10966	10966	
5°	10821	10862	10849	10852	10876	###
15°	9674	9812	9798	9784	9708	2706
25°	7221	7407	7504	7456	7228	3235
35°	3047	3604	4471	3638	3061	1947
45°	573	784	1257	778	587	514
55°	97	104	117	104	90	94
65°	28	34	28	34	28	31
75°	7	7	7	7	7	10
85°	0	0	0	0	0	1
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°	10966.0	10966.0	10966.0	10966.0	10966.0	10966.0	10966.0	10966.0	10966.0	10966.0	10966.0
2.5°	10986.7	10834.8	10931.6	10910.5	10966.0	11000.5	10966.0	11028.0	10986.7	10938.5	10952.3
5°	10821.1	10841.7	10834.8	10848.6	10862.4	10862.4	10931.6	10938.5	10952.3	10848.6	10876.1
7.5°	10675.7	10675.7	10710.5	10696.3	10744.9	10731.2	10738.0	10793.1	10800.0	10772.5	10751.8
10°	10475.2	10447.7	10413.3	10413.3	10475.2	10482.1	10537.6	10544.5	10585.8	10475.2	10489.4
12.5°	10164.6	10150.4	10095.4	10122.9	10171.5	10143.5	10233.5	10240.3	10226.6	10178.4	10205.9
15°	9673.8	9729.3	9715.1	9708.2	9818.8	9805.0	9798.1	9818.8	9825.6	9798.1	9777.5
17.5°	9183.4	9231.6	9238.5	9252.2	9272.9	9293.9	9321.5	9397.6	9369.7	9349.0	9418.3
20°	8616.4	8595.8	8651.3	8706.3	8727.0	8727.0	8768.7	8823.8	8782.5	8754.9	8761.8
22.5°	8001.7	8036.1	8008.6	8063.6	8091.6	8126.0	8167.3	8215.9	8181.1	8105.4	8195.3
25°	7220.9	7241.6	7331.5	7324.6	7365.9	7448.9	7510.9	7510.9	7510.9	7504.0	7504.0
27.5°	6239.7	6225.9	6336.5	6412.2	6515.9	6647.5	6730.1	6861.3	6882.4	6861.3	6813.1
30°	5189.2	5175.4	5313.5	5410.3	5597.0	5659.4	5887.4	6011.7	6142.9	6136.0	6101.6
32.5°	4097.4	4125.4	4235.9	4374.0	4525.9	4719.5	4933.7	5209.9	5327.7	5355.3	5292.9
35°	3047.4	3088.7	3192.3	3309.8	3496.5	3710.7	4007.5	4270.4	4470.8	4470.8	4422.2
37.5°	2197.3	2211.1	2307.9	2384.0	2577.2	2770.8	3026.7	3385.9	3510.2	3558.4	3510.2
40°	1499.6	1499.6	1554.7	1637.7	1796.4	1962.5	2197.3	2466.6	2646.4	2722.6	2639.6
42.5°	953.7	967.5	1008.8	1064.3	1181.7	1326.7	1506.5	1706.9	1838.1	1893.2	1817.5
45°	573.4	587.2	622.0	663.3	739.5	829.4	953.7	1098.7	1209.2	1257.4	1223.0
47.5°	345.4	359.2	373.0	400.9	456.0	518.4	580.3	663.3	732.6	739.5	725.7
50°	200.5	200.5	214.2	234.9	262.4	297.3	331.7	379.8	400.9	428.5	400.9
52.5°	131.2	131.2	131.2	138.1	151.9	166.0	179.8	207.3	221.1	221.1	214.2
55°	96.8	96.8	96.8	96.8	103.7	103.7	103.7	110.6	117.4	117.4	117.4
57.5°	69.3	69.3	69.3	76.1	76.1	76.1	69.3	69.3	69.3	69.3	69.3
60°	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	48.2	48.2	48.2
62.5°	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
65°	27.5	27.5	27.5	34.4	34.4	34.4	34.4	34.4	27.5	27.5	27.5
67.5°	20.6	20.6	20.6	27.5	27.5	27.5	27.5	27.5	20.6	20.6	20.6
70°	13.8	13.8	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6
72.5°	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8
75°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
77.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
80°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
82.5°	0.0	0.0	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
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°	10966.0	10966.0	10966.0	10966.0	10966.0	10966.0	10966.0	10966.0
2.5°	10993.6	10959.2	10959.2	10959.2	10945.4	10959.2	10979.8	10945.4
5°	10876.1	10889.9	10828.0	10876.1	10896.8	10862.4	10945.4	10876.1
7.5°	10772.5	10751.8	10655.0	10724.3	10765.6	10779.3	10772.5	10717.4
10°	10565.1	10516.9	10475.2	10475.2	10461.4	10454.6	10530.7	10503.2
12.5°	10192.2	10226.6	10164.6	10199.0	10171.5	10178.4	10185.3	10171.5
15°	9874.3	9839.8	9756.8	9811.9	9777.5	9743.1	9811.9	9708.2
17.5°	9376.5	9369.7	9321.5	9287.1	9300.8	9293.9	9328.4	9280.2
20°	8789.4	8803.1	8775.6	8761.8	8741.2	8692.6	8734.3	8678.8
22.5°	8153.6	8167.3	8195.3	8139.8	8146.7	8077.8	8139.8	8077.8
25°	7510.9	7504.0	7469.6	7442.0	7365.9	7289.8	7276.0	7227.8
27.5°	6806.2	6758.1	6675.0	6585.1	6467.7	6364.0	6357.1	6322.7
30°	6032.4	5928.7	5776.8	5631.4	5452.0	5292.9	5292.9	5237.8
32.5°	5217.2	4981.9	4774.5	4595.1	4360.3	4270.4	4180.4	4132.3
35°	4242.8	4035.5	3786.4	3489.6	3379.0	3157.9	3171.7	3061.1
37.5°	3323.5	3068.0	2833.1	2591.4	2397.8	2294.1	2238.6	2183.6
40°	2466.6	2218.0	1962.5	1803.3	1630.8	1540.9	1506.5	1492.7
42.5°	1685.9	1478.5	1312.9	1181.7	1091.8	995.0	967.5	953.7
45°	1098.7	981.2	829.4	725.7	663.3	608.3	608.3	587.2
47.5°	656.4	580.3	504.6	435.3	394.0	359.2	345.4	338.5
50°	366.1	324.8	283.5	255.5	228.0	207.3	200.5	200.5
52.5°	200.5	179.8	166.0	145.0	131.2	131.2	131.2	124.3
55°	103.7	103.7	103.7	103.7	96.8	96.8	96.8	89.9
57.5°	69.3	69.3	76.1	76.1	76.1	69.3	69.3	69.3
60°	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
62.5°	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
65°	27.5	34.4	34.4	34.4	34.4	27.5	27.5	27.5
67.5°	20.6	27.5	27.5	27.5	20.6	20.6	20.6	20.6
70°	20.6	20.6	20.6	20.6	20.6	13.8	13.8	13.8
72.5°	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8
75°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
77.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
80°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
82.5°	6.9	6.9	6.9	6.9	6.9	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)