

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: P#

Luminaire Tested: **LX6C100D010 EX6C1009040 6LBSQLI**

Issue Date: 3/23/2022



**Test Information**

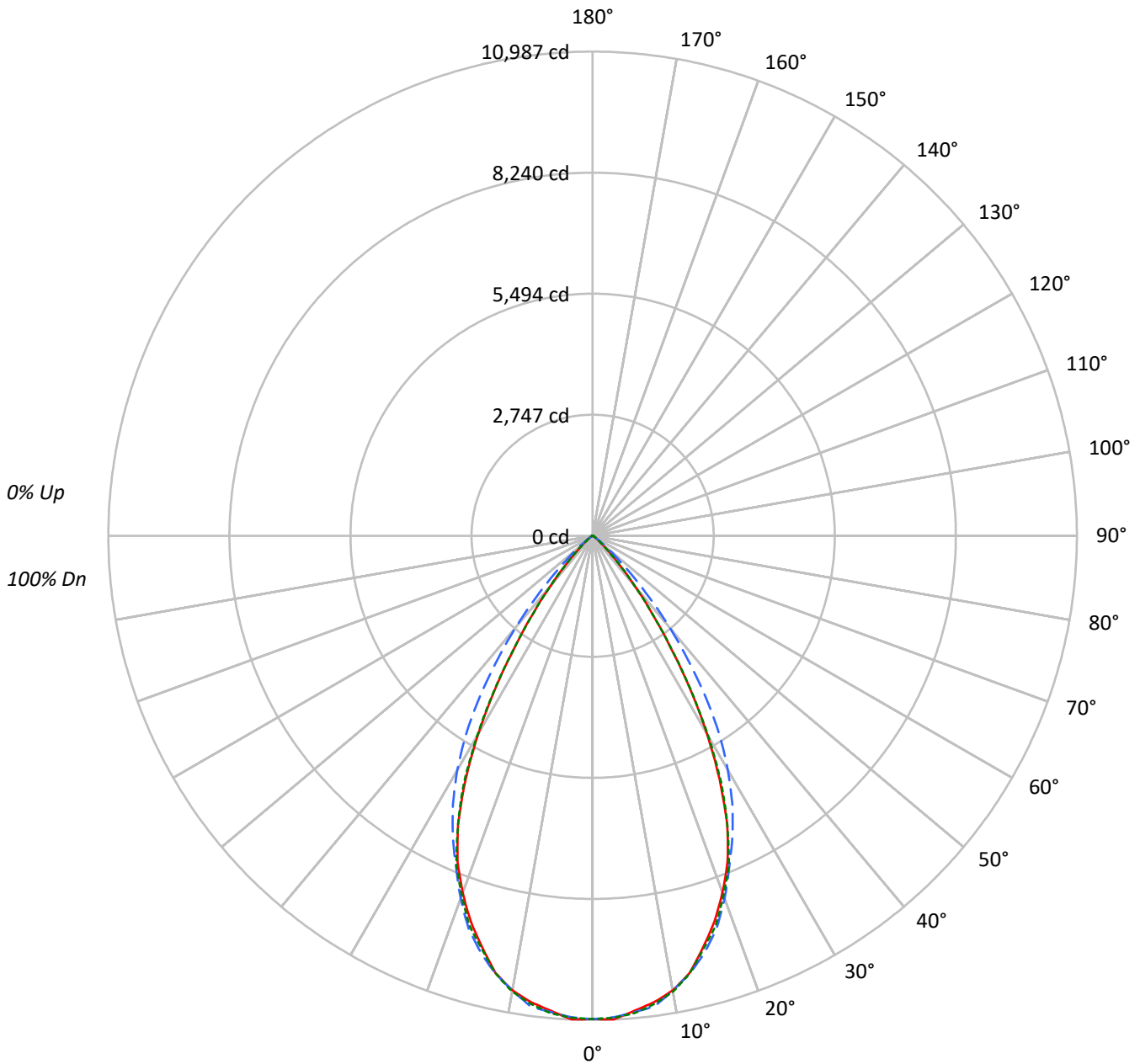
Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P209348)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/23/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX6C100D010 EX6C1009040 6LBSQLI  
Description: 6 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 6LBSQ TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

**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)