

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 EX6C1009027 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 EX6C1009027 6LBSQLI
Description: 6 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

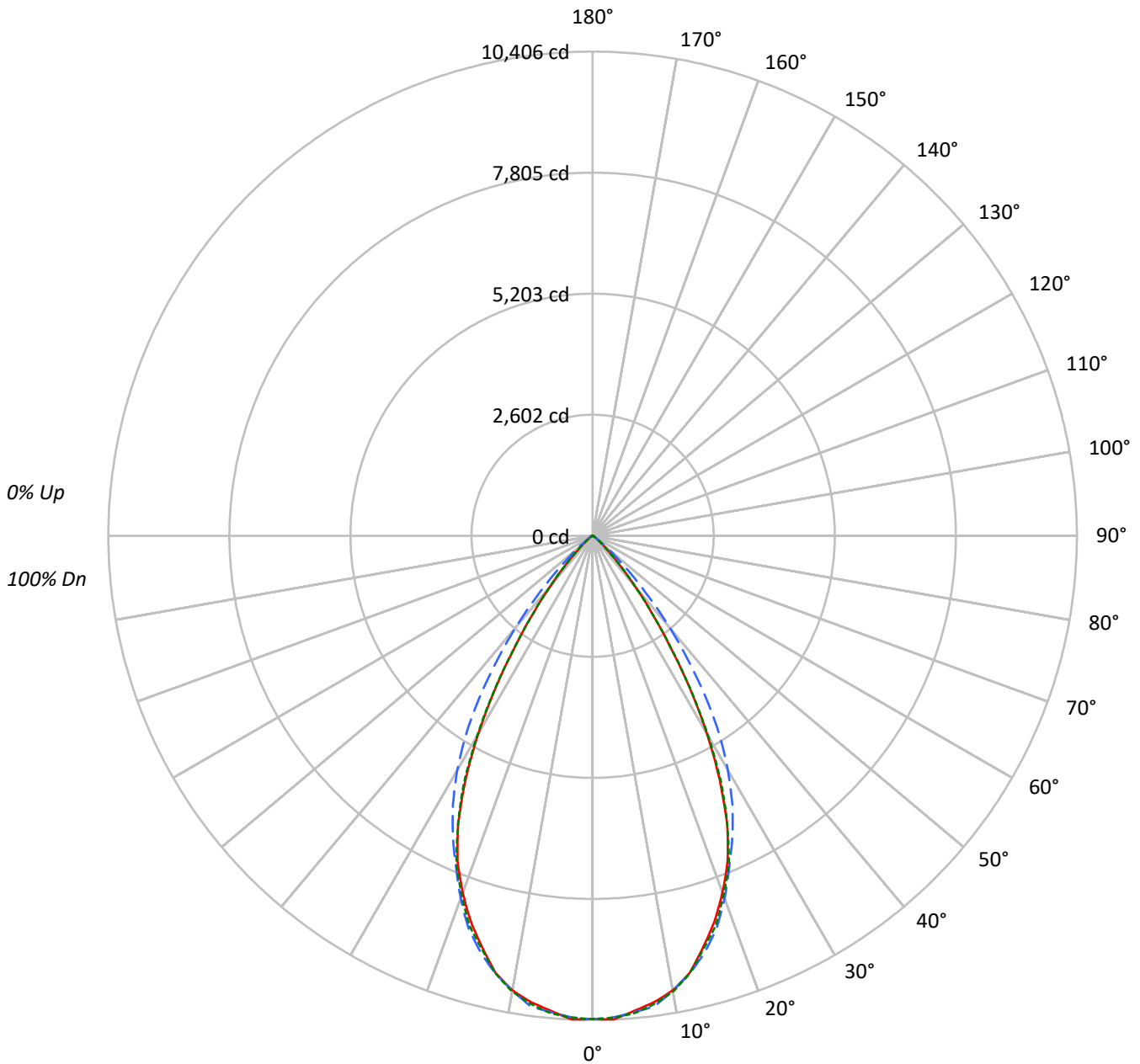
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9760.0 lumens
Efficiency: N/A
Efficacy: 85.3 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_{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: P#
CATALOG NUMBER: LX6C100D010 EX6C1009027 6LBSQLI

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°	447180	447180	447180
5°	442954	444082	445206
10°	433754	433754	434912
15°	408400	413647	409854
20°	373914	379926	376622
25°	324898	337635	325212
30°	244346	288927	246633
35°	151702	222565	152386
40°	79828	144931	79463
45°	33069	72514	33861
50°	12720	27182	12720
55°	6883	8347	6396
60°	4529	3927	4529
65°	2659	2659	2659
70°	1637	2467	1637
75°	1081	1081	1081
80°	1612	1612	1612
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	972.3	10.0
10°-20°	2586.5	26.5
20°-30°	3174.4	32.5
30°-40°	2191.4	22.5
40°-50°	685.1	7.0
50°-60°	107.1	1.1
60°-70°	30.9	0.3
70°-80°	10.1	0.1
80°-90°	2.3	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°	6733.2	69.0
0°-40°	8924.5	91.4
0°-60°	9716.8	99.6
0°-90°	9760.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9760.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10386	10386	10386	10386	10386	
5°	10249	10288	10275	10278	10301	969
15°	9162	9293	9280	9267	9195	2563
25°	6839	7016	7107	7062	6846	3064
35°	2886	3413	4234	3446	2899	1844
45°	543	743	1191	736	556	487
55°	92	98	111	98	85	89
65°	26	33	26	33	26	29
75°	6	6	6	6	6	9
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°	10386.1	10386.1	10386.1	10386.1	10386.1	10386.1	10386.1	10386.1	10386.1	10386.1	10386.1
2.5°	10405.6	10261.8	10353.5	10333.5	10386.1	10418.7	10386.1	10444.7	10405.6	10360.0	10373.0
5°	10248.8	10268.3	10261.8	10274.9	10287.9	10287.9	10353.5	10360.0	10373.0	10274.9	10300.9
7.5°	10111.1	10111.1	10144.1	10130.6	10176.7	10163.6	10170.1	10222.3	10228.8	10202.7	10183.2
10°	9921.2	9895.1	9862.5	9862.5	9921.2	9927.7	9980.3	9986.8	10025.9	9921.2	9934.7
12.5°	9627.0	9613.6	9561.5	9587.5	9633.6	9607.1	9692.2	9698.8	9685.7	9640.1	9666.2
15°	9162.2	9214.7	9201.3	9194.8	9299.5	9286.4	9279.9	9299.5	9306.0	9279.9	9260.4
17.5°	8697.7	8743.3	8749.9	8762.9	8782.5	8802.4	8828.5	8900.6	8874.1	8854.6	8920.2
20°	8160.7	8141.2	8193.7	8245.9	8265.4	8265.4	8305.0	8357.1	8318.0	8291.9	8298.4
22.5°	7578.5	7611.1	7585.0	7637.2	7663.7	7696.3	7735.4	7781.4	7748.4	7676.7	7761.9
25°	6839.0	6858.6	6943.7	6937.2	6976.3	7055.0	7113.6	7113.6	7113.6	7107.1	7107.1
27.5°	5909.7	5896.7	6001.4	6073.1	6171.3	6295.9	6374.2	6498.4	6518.4	6498.4	6452.8
30°	4914.8	4901.7	5032.5	5124.2	5301.0	5360.1	5576.0	5693.8	5818.0	5811.5	5778.9
32.5°	3880.7	3907.2	4011.9	4142.7	4286.5	4469.9	4672.8	4934.3	5046.0	5072.0	5013.0
35°	2886.2	2925.3	3023.5	3134.7	3311.6	3514.4	3795.6	4044.5	4234.4	4234.4	4188.3
37.5°	2081.1	2094.2	2185.8	2257.9	2440.9	2624.2	2866.6	3206.8	3324.6	3370.2	3324.6
40°	1420.3	1420.3	1472.4	1551.1	1701.4	1858.7	2081.1	2336.2	2506.5	2578.6	2500.0
42.5°	903.3	916.3	955.4	1008.0	1119.2	1256.5	1426.8	1616.7	1740.9	1793.1	1721.4
45°	543.1	556.1	589.1	628.2	700.4	785.5	903.3	1040.6	1145.3	1190.9	1158.3
47.5°	327.2	340.2	353.2	379.7	431.9	490.9	549.6	628.2	693.8	700.4	687.3
50°	189.9	189.9	202.9	222.5	248.5	281.5	314.1	359.8	379.7	405.8	379.7
52.5°	124.3	124.3	124.3	130.8	143.8	157.3	170.3	196.4	209.4	209.4	202.9
55°	91.7	91.7	91.7	91.7	98.2	98.2	98.2	104.7	111.2	111.2	111.2
57.5°	65.6	65.6	65.6	72.1	72.1	72.1	65.6	65.6	65.6	65.6	65.6
60°	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	45.6	45.6	45.6
62.5°	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
65°	26.1	26.1	26.1	32.6	32.6	32.6	32.6	26.1	26.1	26.1	26.1
67.5°	19.6	19.6	19.6	26.1	26.1	26.1	26.1	26.1	19.6	19.6	19.6
70°	13.0	13.0	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6
72.5°	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
75°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
77.5°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
80°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
82.5°	0.0	0.0	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
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



TEST NUMBER: P#

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	10386.1	10386.1	10386.1	10386.1	10386.1	10386.1	10386.1	10386.1
2.5°	10412.2	10379.6	10379.6	10379.6	10366.5	10379.6	10399.1	10366.5
5°	10300.9	10314.0	10255.3	10300.9	10320.5	10287.9	10366.5	10300.9
7.5°	10202.7	10183.2	10091.5	10157.1	10196.2	10209.3	10202.7	10150.6
10°	10006.4	9960.7	9921.2	9921.2	9908.2	9901.7	9973.8	9947.7
12.5°	9653.1	9685.7	9627.0	9659.6	9633.6	9640.1	9646.6	9633.6
15°	9352.0	9319.4	9240.8	9293.0	9260.4	9227.8	9293.0	9194.8
17.5°	8880.6	8874.1	8828.5	8795.9	8808.9	8802.4	8835.0	8789.4
20°	8324.5	8337.5	8311.5	8298.4	8278.9	8232.8	8272.4	8219.8
22.5°	7722.3	7735.4	7761.9	7709.3	7715.8	7650.6	7709.3	7650.6
25°	7113.6	7107.1	7074.5	7048.5	6976.3	6904.2	6891.2	6845.6
27.5°	6446.3	6400.6	6322.0	6236.9	6125.6	6027.4	6020.9	5988.3
30°	5713.3	5615.1	5471.3	5333.6	5163.7	5013.0	5013.0	4960.8
32.5°	4941.3	4718.4	4522.0	4352.1	4129.7	4044.5	3959.4	3913.7
35°	4018.4	3822.1	3586.2	3305.0	3200.3	2990.9	3003.9	2899.2
37.5°	3147.8	2905.8	2683.3	2454.3	2271.0	2172.8	2120.2	2068.1
40°	2336.2	2100.7	1858.7	1707.9	1544.5	1459.4	1426.8	1413.8
42.5°	1596.7	1400.3	1243.5	1119.2	1034.0	942.4	916.3	903.3
45°	1040.6	929.3	785.5	687.3	628.2	576.1	576.1	556.1
47.5°	621.7	549.6	477.9	412.3	373.2	340.2	327.2	320.6
50°	346.7	307.6	268.5	242.0	215.9	196.4	189.9	189.9
52.5°	189.9	170.3	157.3	137.3	124.3	124.3	124.3	117.7
55°	98.2	98.2	98.2	98.2	91.7	91.7	91.7	85.2
57.5°	65.6	65.6	72.1	72.1	72.1	65.6	65.6	65.6
60°	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
62.5°	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
65°	26.1	32.6	32.6	32.6	32.6	26.1	26.1	26.1
67.5°	19.6	26.1	26.1	26.1	19.6	19.6	19.6	19.6
70°	19.6	19.6	19.6	19.6	19.6	13.0	13.0	13.0
72.5°	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
75°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
77.5°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
80°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
82.5°	6.5	6.5	6.5	6.5	6.5	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)