

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: **LX6C120D010 EX6C1209730 6LBSQLI**

Issue Date: 2/15/2022



**Test Information**

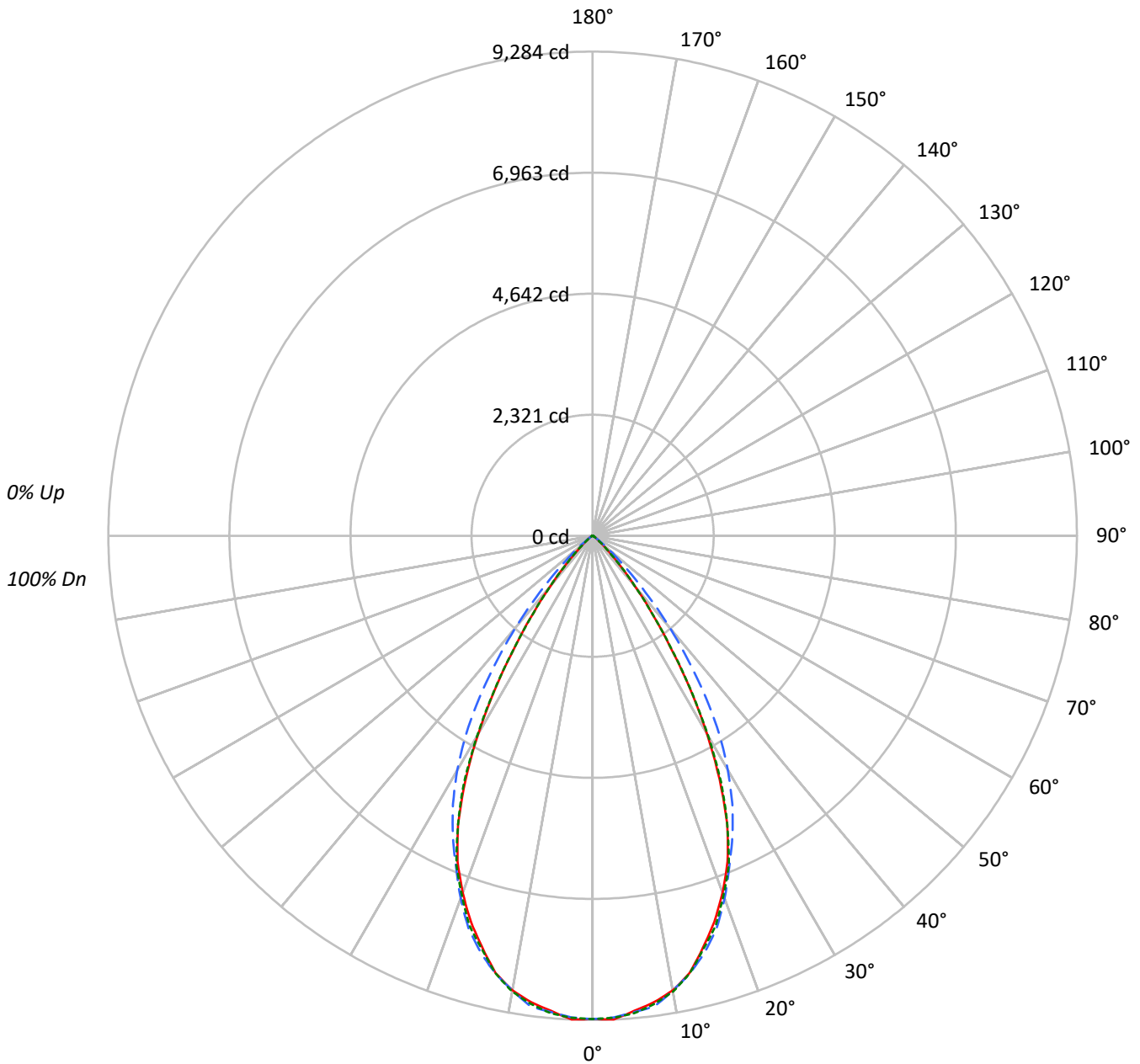
Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P209355)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX6C120D010 EX6C1209730 6LBSQLI  
Description: 6 INCH 12000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 97CRI LEDS  
AND 6LBSQ TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8708.0 lumens  
Efficiency: N/A  
Efficacy: 61.2 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): 142.3  
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°	398984	398984	398984
5°	395209	396212	397223
10°	387008	387008	388036
15°	364383	369068	365680
20°	333626	338973	336026
25°	289881	301249	290152
30°	218021	257780	220050
35°	135340	198571	135960
40°	71212	129306	70892
45°	29513	64708	30226
50°	11333	24254	11333
55°	6133	7446	5705
60°	4013	3522	4013
65°	2384	2384	2384
70°	1473	2203	1473
75°	948	948	948
80°	1413	1413	1413
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	867.5	10.0
10°-20°	2307.7	26.5
20°-30°	2832.2	32.5
30°-40°	1955.2	22.5
40°-50°	611.3	7.0
50°-60°	95.4	1.1
60°-70°	27.6	0.3
70°-80°	9.0	0.1
80°-90°	2.0	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°	6007.5	69.0
0°-40°	7962.7	91.4
0°-60°	8669.4	99.6
0°-90°	8708.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8708.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9267	9267	9267	9267	9267	
5°	9144	9179	9167	9170	9191	864
15°	8175	8291	8280	8268	8204	2286
25°	6102	6260	6341	6300	6108	2734
35°	2575	3045	3778	3074	2587	1645
45°	485	663	1063	657	496	434
55°	82	88	99	88	76	79
65°	23	29	23	29	23	26
75°	6	6	6	6	6	8
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°	9266.7	9266.7	9266.7	9266.7	9266.7	9266.7	9266.7	9266.7	9266.7	9266.7	9266.7
2.5°	9284.2	9155.6	9237.3	9219.9	9266.7	9295.9	9266.7	9319.1	9284.2	9243.3	9255.0
5°	9144.1	9161.6	9155.6	9167.3	9179.0	9179.0	9237.3	9243.3	9255.0	9167.3	9190.7
7.5°	9021.5	9021.5	9050.7	9038.9	9079.8	9068.1	9073.9	9120.7	9126.4	9103.2	9085.6
10°	8852.0	8828.6	8799.5	8799.5	8852.0	8858.0	8904.6	8910.4	8945.5	8852.0	8863.7
12.5°	8589.3	8577.6	8530.8	8554.2	8595.1	8571.7	8647.7	8653.4	8641.9	8601.1	8624.3
15°	8174.7	8221.5	8209.8	8203.8	8297.3	8285.6	8279.8	8297.3	8303.2	8279.8	8262.4
17.5°	7760.2	7801.1	7806.8	7818.5	7836.0	7853.6	7876.8	7941.1	7917.7	7900.3	7958.6
20°	7281.4	7263.8	7310.6	7357.2	7374.7	7374.7	7409.8	7456.4	7421.5	7398.1	7404.1
22.5°	6761.6	6790.8	6767.6	6814.2	6837.6	6866.8	6901.9	6942.8	6913.6	6849.3	6925.1
25°	6101.9	6119.3	6195.3	6189.4	6224.5	6294.5	6347.1	6347.1	6347.1	6341.2	6341.2
27.5°	5272.7	5261.0	5354.5	5418.8	5506.3	5617.2	5687.2	5798.1	5815.8	5798.1	5757.2
30°	4385.3	4373.5	4490.2	4571.9	4729.7	4782.3	4974.9	5080.1	5191.0	5185.0	5155.9
32.5°	3462.6	3485.8	3579.3	3696.2	3824.5	3988.0	4169.2	4402.7	4501.9	4525.3	4472.7
35°	2574.9	2610.1	2697.6	2797.0	2954.5	3135.7	3386.6	3608.5	3777.9	3777.9	3737.0
37.5°	1856.9	1868.4	1950.2	2014.4	2177.9	2341.4	2557.5	2861.1	2966.2	3007.1	2966.2
40°	1267.0	1267.0	1313.9	1383.9	1518.2	1658.3	1856.9	2084.5	2236.3	2300.6	2230.5
42.5°	805.7	817.4	852.6	899.2	998.4	1121.0	1273.0	1442.2	1553.1	1600.0	1535.7
45°	484.7	496.4	525.6	560.5	624.8	700.8	805.7	928.4	1021.8	1062.7	1033.5
47.5°	291.8	303.6	315.3	338.7	385.3	437.9	490.5	560.5	619.0	624.8	613.1
50°	169.2	169.2	180.9	198.6	221.8	251.0	280.4	321.2	338.7	362.1	338.7
52.5°	110.9	110.9	110.9	116.9	128.4	140.1	151.8	175.2	186.9	186.9	180.9
55°	81.7	81.7	81.7	81.7	87.5	87.5	87.5	93.5	99.2	99.2	99.2
57.5°	58.3	58.3	58.3	64.3	64.3	64.3	58.3	58.3	58.3	58.3	58.3
60°	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	40.9	40.9	40.9
62.5°	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1
65°	23.4	23.4	23.4	29.2	29.2	29.2	29.2	23.4	23.4	23.4	23.4
67.5°	17.5	17.5	17.5	23.4	23.4	23.4	23.4	23.4	17.5	17.5	17.5
70°	11.7	11.7	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
72.5°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
75°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
77.5°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
80°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
82.5°	0.0	0.0	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
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°	9266.7	9266.7	9266.7	9266.7	9266.7	9266.7	9266.7	9266.7
2.5°	9289.9	9260.8	9260.8	9260.8	9249.0	9260.8	9278.2	9249.0
5°	9190.7	9202.4	9149.9	9190.7	9208.2	9179.0	9249.0	9190.7
7.5°	9103.2	9085.6	9003.8	9062.4	9097.3	9109.0	9103.2	9056.4
10°	8928.0	8887.2	8852.0	8852.0	8840.3	8834.6	8898.9	8875.5
12.5°	8612.5	8641.9	8589.3	8618.5	8595.1	8601.1	8606.8	8595.1
15°	8344.1	8315.0	8244.7	8291.5	8262.4	8233.2	8291.5	8203.8
17.5°	7923.7	7917.7	7876.8	7847.7	7859.4	7853.6	7882.8	7841.9
20°	7427.3	7439.0	7415.5	7404.1	7386.4	7345.5	7380.6	7333.8
22.5°	6890.2	6901.9	6925.1	6878.5	6884.2	6825.9	6878.5	6825.9
25°	6347.1	6341.2	6312.0	6288.8	6224.5	6160.2	6148.5	6107.6
27.5°	5751.5	5710.6	5640.6	5564.6	5465.4	5377.9	5371.9	5342.8
30°	5097.5	5009.8	4881.5	4758.9	4607.1	4472.7	4472.7	4426.1
32.5°	4408.5	4210.1	4034.9	3883.1	3684.5	3608.5	3532.7	3491.8
35°	3585.3	3410.1	3199.7	2948.8	2855.3	2668.4	2680.1	2586.7
37.5°	2808.7	2592.6	2394.0	2189.6	2026.2	1938.7	1891.8	1845.2
40°	2084.5	1874.4	1658.3	1524.0	1377.9	1302.2	1273.0	1261.3
42.5°	1424.8	1249.6	1109.5	998.4	922.6	840.9	817.4	805.7
45°	928.4	829.2	700.8	613.1	560.5	513.9	513.9	496.4
47.5°	554.8	490.5	426.2	367.8	332.7	303.6	291.8	286.1
50°	309.5	274.4	239.5	216.1	192.7	175.2	169.2	169.2
52.5°	169.2	151.8	140.1	122.6	110.9	110.9	110.9	105.2
55°	87.5	87.5	87.5	87.5	81.7	81.7	81.7	76.0
57.5°	58.3	58.3	64.3	64.3	64.3	58.3	58.3	58.3
60°	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6
62.5°	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1
65°	23.4	29.2	29.2	29.2	29.2	23.4	23.4	23.4
67.5°	17.5	23.4	23.4	23.4	17.5	17.5	17.5	17.5
70°	17.5	17.5	17.5	17.5	17.5	11.7	11.7	11.7
72.5°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
75°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
77.5°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
80°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
82.5°	5.7	5.7	5.7	5.7	5.7	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)