

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: P840551

Luminaire Tested: **LD6C120D010 EU61209030 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: P840551  
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: LD6C120D010 EU61209030 6LBSQLI  
Description: 6 INCH 12000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 6LBSQ TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

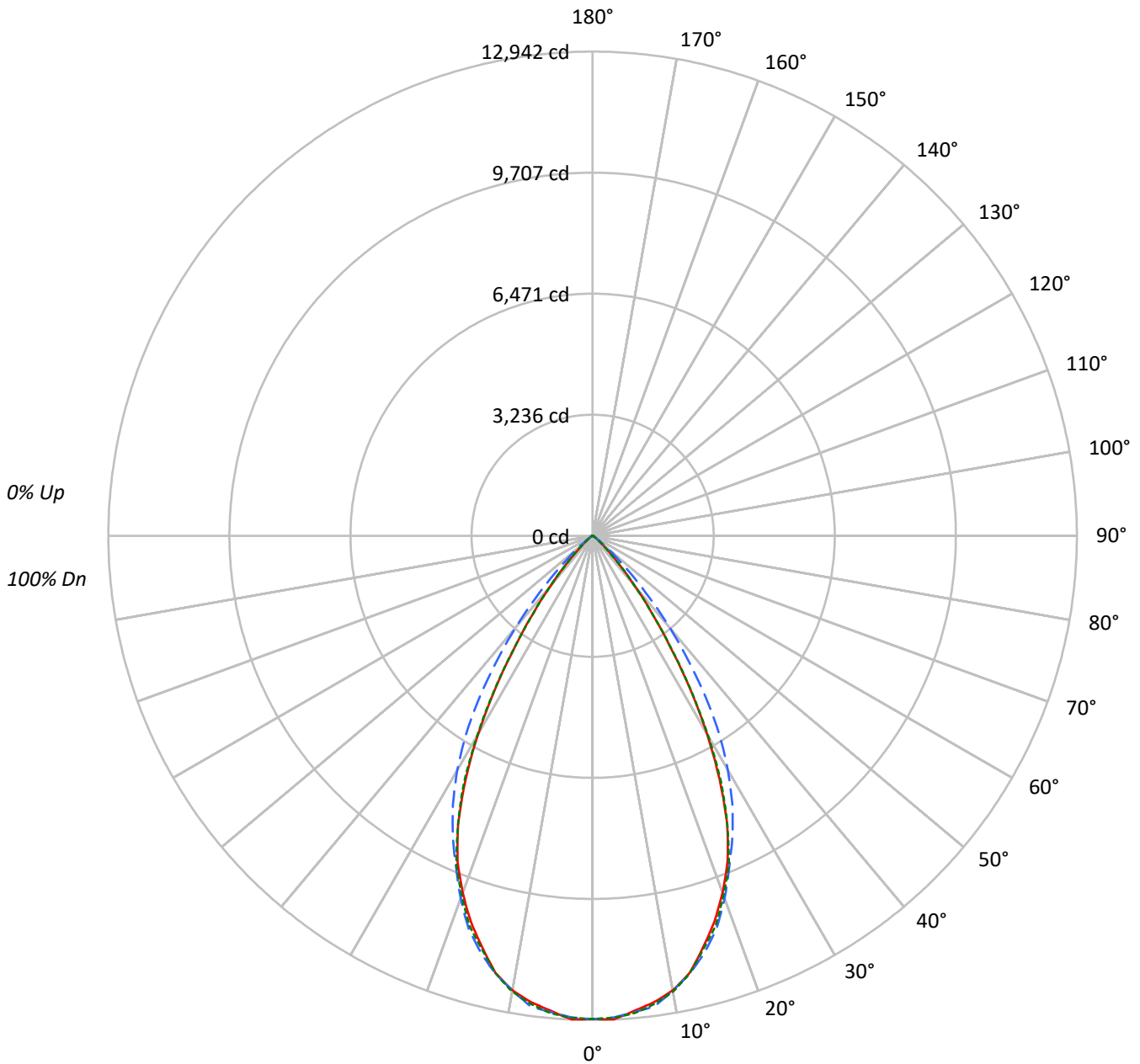
Lumens per Lamp: N/A  
Luminaire Lumens: 12139.0 lumens  
Efficiency: N/A  
Efficacy: 85.3 lumens/watt  
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.95  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 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					20					
RC	80					70					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°	556180	556180	556180
5°	550923	552323	553728
10°	539481	539481	540920
15°	507949	514474	509754
20°	465057	472535	468425
25°	404096	419935	404481
30°	303901	359355	306750
35°	188679	276814	189531
40°	99286	180256	98831
45°	41131	90190	42118
50°	15815	33806	15815
55°	8557	10382	7949
60°	5632	4891	5632
65°	3301	3301	3301
70°	2039	3059	2039
75°	1347	1347	1347
80°	2008	2008	2008
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1209.3	10.0
10°-20°	3217.0	26.5
20°-30°	3948.1	32.5
30°-40°	2725.5	22.5
40°-50°	852.1	7.0
50°-60°	133.2	1.1
60°-70°	38.4	0.3
70°-80°	12.6	0.1
80°-90°	2.8	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°	8374.4	69.0
0°-40°	11099.9	91.4
0°-60°	12085.2	99.6
0°-90°	12139.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12139.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12918	12918	12918	12918	12918	
5°	12747	12796	12779	12783	12812	###
15°	11396	11558	11542	11526	11436	3187
25°	8506	8726	8840	8783	8514	3811
35°	3590	4245	5266	4285	3606	2293
45°	676	924	1481	916	692	605
55°	114	122	138	122	106	111
65°	32	40	32	40	32	36
75°	8	8	8	8	8	12
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°	12917.7	12917.7	12917.7	12917.7	12917.7	12917.7	12917.7	12917.7	12917.7	12917.7	12917.7
2.5°	12942.0	12763.1	12877.1	12852.3	12917.7	12958.2	12917.7	12990.7	12942.0	12885.3	12901.5
5°	12746.9	12771.2	12763.1	12779.3	12795.6	12795.6	12877.1	12885.3	12901.5	12779.3	12811.8
7.5°	12575.6	12575.6	12616.7	12600.0	12657.2	12641.0	12649.1	12714.0	12722.1	12689.7	12665.3
10°	12339.5	12307.1	12266.5	12266.5	12339.5	12347.6	12413.0	12421.1	12469.7	12339.5	12356.2
12.5°	11973.6	11956.9	11892.1	11924.5	11981.7	11948.8	12054.7	12062.8	12046.6	11989.9	12022.3
15°	11395.5	11460.8	11444.1	11436.0	11566.2	11550.0	11541.9	11566.2	11574.3	11541.9	11517.6
17.5°	10817.8	10874.5	10882.6	10898.9	10923.2	10948.0	10980.4	11070.1	11037.2	11012.9	11094.5
20°	10149.9	10125.6	10190.9	10255.8	10280.1	10280.1	10329.3	10394.1	10345.5	10313.1	10321.2
22.5°	9425.8	9466.3	9433.9	9498.7	9531.7	9572.2	9620.9	9678.1	9637.1	9547.9	9653.8
25°	8506.1	8530.4	8636.3	8628.2	8676.8	8774.6	8847.6	8847.6	8847.6	8839.5	8839.5
27.5°	7350.2	7334.0	7464.2	7553.4	7675.5	7830.6	7927.9	8082.4	8107.3	8082.4	8025.7
30°	6112.7	6096.5	6259.2	6373.2	6593.1	6666.6	6935.2	7081.6	7236.2	7228.1	7187.5
32.5°	4826.7	4859.6	4989.8	5152.5	5331.4	5559.4	5811.7	6137.1	6275.9	6308.3	6234.9
35°	3589.7	3638.4	3760.5	3898.8	4118.7	4371.1	4720.7	5030.4	5266.5	5266.5	5209.2
37.5°	2588.4	2604.6	2718.6	2808.3	3035.8	3263.9	3565.4	3988.5	4135.0	4191.7	4135.0
40°	1766.5	1766.5	1831.3	1929.1	2116.1	2311.7	2588.4	2905.6	3117.4	3207.1	3109.3
42.5°	1123.4	1139.6	1188.3	1253.7	1392.0	1562.8	1774.6	2010.7	2165.3	2230.1	2141.0
45°	675.5	691.7	732.7	781.4	871.1	977.0	1123.4	1294.2	1424.4	1481.2	1440.6
47.5°	406.9	423.1	439.3	472.3	537.1	610.6	683.6	781.4	863.0	871.1	854.9
50°	236.1	236.1	252.4	276.7	309.1	350.2	390.7	447.4	472.3	504.7	472.3
52.5°	154.6	154.6	154.6	162.7	178.9	195.6	211.8	244.2	260.5	260.5	252.4
55°	114.0	114.0	114.0	114.0	122.1	122.1	122.1	130.2	138.3	138.3	138.3
57.5°	81.6	81.6	81.6	89.7	89.7	89.7	81.6	81.6	81.6	81.6	81.6
60°	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	56.8	56.8	56.8
62.5°	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
65°	32.4	32.4	32.4	40.5	40.5	40.5	40.5	32.4	32.4	32.4	32.4
67.5°	24.3	24.3	24.3	32.4	32.4	32.4	32.4	32.4	24.3	24.3	24.3
70°	16.2	16.2	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3
72.5°	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2
75°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
77.5°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
80°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
82.5°	0.0	0.0	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
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°	12917.7	12917.7	12917.7	12917.7	12917.7	12917.7	12917.7	12917.7
2.5°	12950.1	12909.6	12909.6	12909.6	12893.4	12909.6	12933.9	12893.4
5°	12811.8	12828.0	12755.0	12811.8	12836.1	12795.6	12893.4	12811.8
7.5°	12689.7	12665.3	12551.3	12632.9	12681.5	12697.8	12689.7	12624.8
10°	12445.4	12388.7	12339.5	12339.5	12323.3	12315.2	12404.9	12372.4
12.5°	12006.1	12046.6	11973.6	12014.2	11981.7	11989.9	11998.0	11981.7
15°	11631.6	11591.1	11493.3	11558.1	11517.6	11477.0	11558.1	11436.0
17.5°	11045.3	11037.2	10980.4	10939.9	10956.1	10948.0	10988.5	10931.8
20°	10353.6	10369.8	10337.4	10321.2	10296.9	10239.6	10288.7	10223.4
22.5°	9604.7	9620.9	9653.8	9588.4	9596.5	9515.5	9588.4	9515.5
25°	8847.6	8839.5	8798.9	8766.5	8676.8	8587.1	8570.9	8514.2
27.5°	8017.6	7960.8	7863.0	7757.1	7618.8	7496.6	7488.5	7448.0
30°	7105.9	6983.8	6804.9	6633.7	6422.4	6234.9	6234.9	6170.0
32.5°	6145.7	5868.5	5624.3	5412.9	5136.3	5030.4	4924.5	4867.7
35°	4997.9	4753.7	4460.3	4110.6	3980.4	3719.9	3736.2	3605.9
37.5°	3915.0	3614.0	3337.4	3052.6	2824.5	2702.4	2637.0	2572.2
40°	2905.6	2612.7	2311.7	2124.2	1921.0	1815.1	1774.6	1758.4
42.5°	1985.9	1741.6	1546.6	1392.0	1286.1	1172.1	1139.6	1123.4
45°	1294.2	1155.9	977.0	854.9	781.4	716.5	716.5	691.7
47.5°	773.3	683.6	594.4	512.8	464.2	423.1	406.9	398.8
50°	431.2	382.6	333.9	301.0	268.6	244.2	236.1	236.1
52.5°	236.1	211.8	195.6	170.8	154.6	154.6	154.6	146.4
55°	122.1	122.1	122.1	122.1	114.0	114.0	114.0	105.9
57.5°	81.6	81.6	89.7	89.7	89.7	81.6	81.6	81.6
60°	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
62.5°	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
65°	32.4	40.5	40.5	40.5	40.5	32.4	32.4	32.4
67.5°	24.3	32.4	32.4	32.4	24.3	24.3	24.3	24.3
70°	24.3	24.3	24.3	24.3	24.3	16.2	16.2	16.2
72.5°	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2
75°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
77.5°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
80°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
82.5°	8.1	8.1	8.1	8.1	8.1	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)