

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: P840568

Luminaire Tested: **LD6C130D010 EU61309030 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: P840568  
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: LD6C130D010 EU61309030 6LBSQLI  
Description: 6 INCH 13000 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**

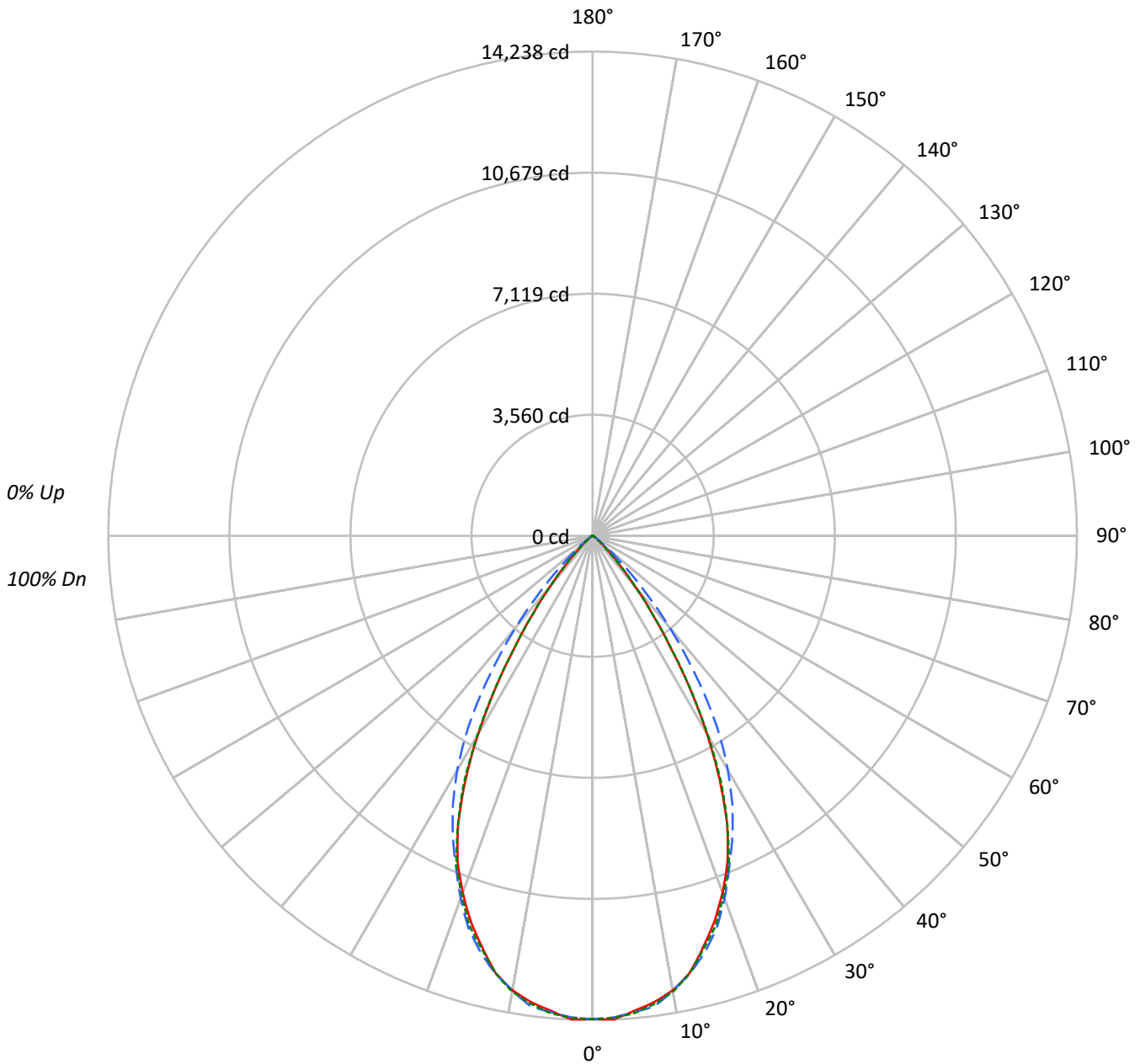
Lumens per Lamp: N/A  
Luminaire Lumens: 13355.0 lumens  
Efficiency: N/A  
Efficacy: 92.6 lumens/watt  
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.95  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 144.3  
Input Voltage (V):  
Input Current (Ain): 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: P840568

CATALOG NUMBER: LD6C130D010 EU61309030 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°	611894	611894	611894
5°	606110	607653	609196
10°	593523	593523	595106
15°	558830	566011	560819
20°	511641	519870	515348
25°	444572	462002	444995
30°	334348	395350	337480
35°	207580	304545	208516
40°	109229	198314	108729
45°	45247	99226	46337
50°	17402	37196	17402
55°	9413	11425	8745
60°	6191	5373	6191
65°	3637	3637	3637
70°	2241	3374	2241
75°	1481	1481	1481
80°	2207	2207	2207
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1330.5	10.0
10°-20°	3539.2	26.5
20°-30°	4343.6	32.5
30°-40°	2998.5	22.5
40°-50°	937.5	7.0
50°-60°	146.5	1.1
60°-70°	42.3	0.3
70°-80°	13.8	0.1
80°-90°	3.1	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°	9213.3	69.0
0°-40°	12211.8	91.4
0°-60°	13295.8	99.6
0°-90°	13355.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13355.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	14212	14212	14212	14212	14212	
5°	14024	14077	14060	14064	14095	###
15°	12537	12716	12698	12680	12582	3507
25°	9358	9600	9725	9663	9367	4193
35°	3949	4670	5794	4715	3967	2523
45°	743	1017	1630	1008	761	666
55°	125	134	152	134	116	122
65°	36	45	36	45	36	40
75°	9	9	9	9	9	13
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



TEST NUMBER: P840568

CATALOG NUMBER: LD6C130D010 EU61309030 6LBSQLI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	14211.7	14211.7	14211.7	14211.7	14211.7	14211.7	14211.7	14211.7	14211.7	14211.7	14211.7
2.5°	14238.5	14041.7	14167.1	14139.8	14211.7	14256.3	14211.7	14292.0	14238.5	14176.0	14193.9
5°	14023.8	14050.6	14041.7	14059.5	14077.3	14077.3	14167.1	14176.0	14193.9	14059.5	14095.2
7.5°	13835.4	13835.4	13880.5	13862.1	13925.1	13907.3	13916.2	13987.6	13996.5	13960.8	13934.1
10°	13575.6	13539.9	13495.3	13495.3	13575.6	13584.5	13656.4	13665.3	13718.9	13575.6	13594.0
12.5°	13173.1	13154.7	13083.3	13119.0	13182.0	13145.8	13262.3	13271.2	13253.4	13190.9	13226.6
15°	12537.0	12608.9	12590.5	12581.6	12724.8	12707.0	12698.1	12724.8	12733.8	12698.1	12671.3
17.5°	11901.4	11963.9	11972.8	11990.6	12017.4	12044.7	12080.4	12179.1	12142.8	12116.1	12205.8
20°	11166.6	11139.9	11211.8	11283.2	11309.9	11309.9	11364.0	11435.4	11381.8	11346.2	11355.1
22.5°	10370.0	10414.6	10378.9	10450.3	10486.5	10531.1	10584.6	10647.6	10602.5	10504.3	10620.9
25°	9358.1	9384.9	9501.4	9492.5	9546.0	9653.6	9733.9	9733.9	9733.9	9725.0	9725.0
27.5°	8086.5	8068.6	8211.9	8310.0	8444.4	8615.0	8722.0	8892.1	8919.4	8892.1	8829.6
30°	6725.1	6707.2	6886.2	7011.6	7253.6	7334.4	7629.9	7791.0	7961.0	7952.1	7907.5
32.5°	5310.2	5346.4	5489.7	5668.6	5865.4	6116.3	6393.9	6751.8	6904.6	6940.3	6859.4
35°	3949.3	4002.8	4137.2	4289.4	4531.3	4809.0	5193.6	5534.3	5794.1	5794.1	5731.1
37.5°	2847.7	2865.5	2991.0	3089.6	3340.0	3590.8	3922.5	4388.1	4549.2	4611.6	4549.2
40°	1943.4	1943.4	2014.8	2122.4	2328.1	2543.3	2847.7	3196.7	3429.7	3528.4	3420.8
42.5°	1236.0	1253.8	1307.3	1379.2	1531.4	1719.3	1952.4	2212.1	2382.2	2453.5	2355.4
45°	743.1	761.0	806.1	859.7	958.3	1074.9	1236.0	1423.8	1567.1	1629.6	1585.0
47.5°	447.7	465.5	483.3	519.6	590.9	671.8	752.1	859.7	949.4	958.3	940.5
50°	259.8	259.8	277.6	304.4	340.1	385.2	429.8	492.3	519.6	555.3	519.6
52.5°	170.0	170.0	170.0	179.0	196.8	215.2	233.0	268.7	286.6	286.6	277.6
55°	125.4	125.4	125.4	125.4	134.4	134.4	134.4	143.3	152.2	152.2	152.2
57.5°	89.8	89.8	89.8	98.7	98.7	98.7	89.8	89.8	89.8	89.8	89.8
60°	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	62.4	62.4	62.4
62.5°	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5
65°	35.7	35.7	35.7	44.6	44.6	44.6	44.6	35.7	35.7	35.7	35.7
67.5°	26.8	26.8	26.8	35.7	35.7	35.7	35.7	35.7	26.8	26.8	26.8
70°	17.8	17.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8
72.5°	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8
75°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
77.5°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
80°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
82.5°	0.0	0.0	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
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



TEST NUMBER: P840568

CATALOG NUMBER: LD6C130D010 EU61309030 6LBSQLI

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	14211.7	14211.7	14211.7	14211.7	14211.7	14211.7	14211.7	14211.7
2.5°	14247.4	14202.8	14202.8	14202.8	14184.9	14202.8	14229.5	14184.9
5°	14095.2	14113.0	14032.7	14095.2	14121.9	14077.3	14184.9	14095.2
7.5°	13960.8	13934.1	13808.6	13898.4	13951.9	13969.7	13960.8	13889.5
10°	13692.1	13629.7	13575.6	13575.6	13557.7	13548.8	13647.5	13611.8
12.5°	13208.8	13253.4	13173.1	13217.7	13182.0	13190.9	13199.8	13182.0
15°	12796.8	12752.2	12644.6	12715.9	12671.3	12626.7	12715.9	12581.6
17.5°	12151.7	12142.8	12080.4	12035.8	12053.6	12044.7	12089.3	12026.9
20°	11390.8	11408.6	11372.9	11355.1	11328.3	11265.3	11319.4	11247.5
22.5°	10566.8	10584.6	10620.9	10548.9	10557.9	10468.7	10548.9	10468.7
25°	9733.9	9725.0	9680.4	9644.7	9546.0	9447.3	9429.5	9367.0
27.5°	8820.7	8758.3	8650.7	8534.2	8382.0	8247.6	8238.7	8194.1
30°	7817.8	7683.4	7486.6	7298.2	7065.7	6859.4	6859.4	6788.1
32.5°	6761.3	6456.4	6187.6	5955.2	5650.8	5534.3	5417.7	5355.3
35°	5498.6	5229.9	4907.1	4522.4	4379.1	4092.6	4110.4	3967.1
37.5°	4307.2	3976.1	3671.7	3358.4	3107.5	2973.1	2901.2	2829.9
40°	3196.7	2874.4	2543.3	2337.0	2113.5	1997.0	1952.4	1934.5
42.5°	2184.8	1916.1	1701.5	1531.4	1414.9	1289.5	1253.8	1236.0
45°	1423.8	1271.6	1074.9	940.5	859.7	788.3	788.3	761.0
47.5°	850.7	752.1	653.9	564.2	510.7	465.5	447.7	438.7
50°	474.4	420.9	367.4	331.2	295.5	268.7	259.8	259.8
52.5°	259.8	233.0	215.2	187.9	170.0	170.0	170.0	161.1
55°	134.4	134.4	134.4	134.4	125.4	125.4	125.4	116.5
57.5°	89.8	89.8	98.7	98.7	98.7	89.8	89.8	89.8
60°	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
62.5°	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5
65°	35.7	44.6	44.6	44.6	44.6	35.7	35.7	35.7
67.5°	26.8	35.7	35.7	35.7	26.8	26.8	26.8	26.8
70°	26.8	26.8	26.8	26.8	26.8	17.8	17.8	17.8
72.5°	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8
75°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
77.5°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
80°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
82.5°	8.9	8.9	8.9	8.9	8.9	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)