

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: P840522

Luminaire Tested: **LD6C100D010 EU61009727 6LBSQLI**

Issue Date: 2/15/2022

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: P840522  
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: LD6C100D010 EU61009727 6LBSQLI  
Description: 6 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 97CRI LEDS  
AND 6LBSQ TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

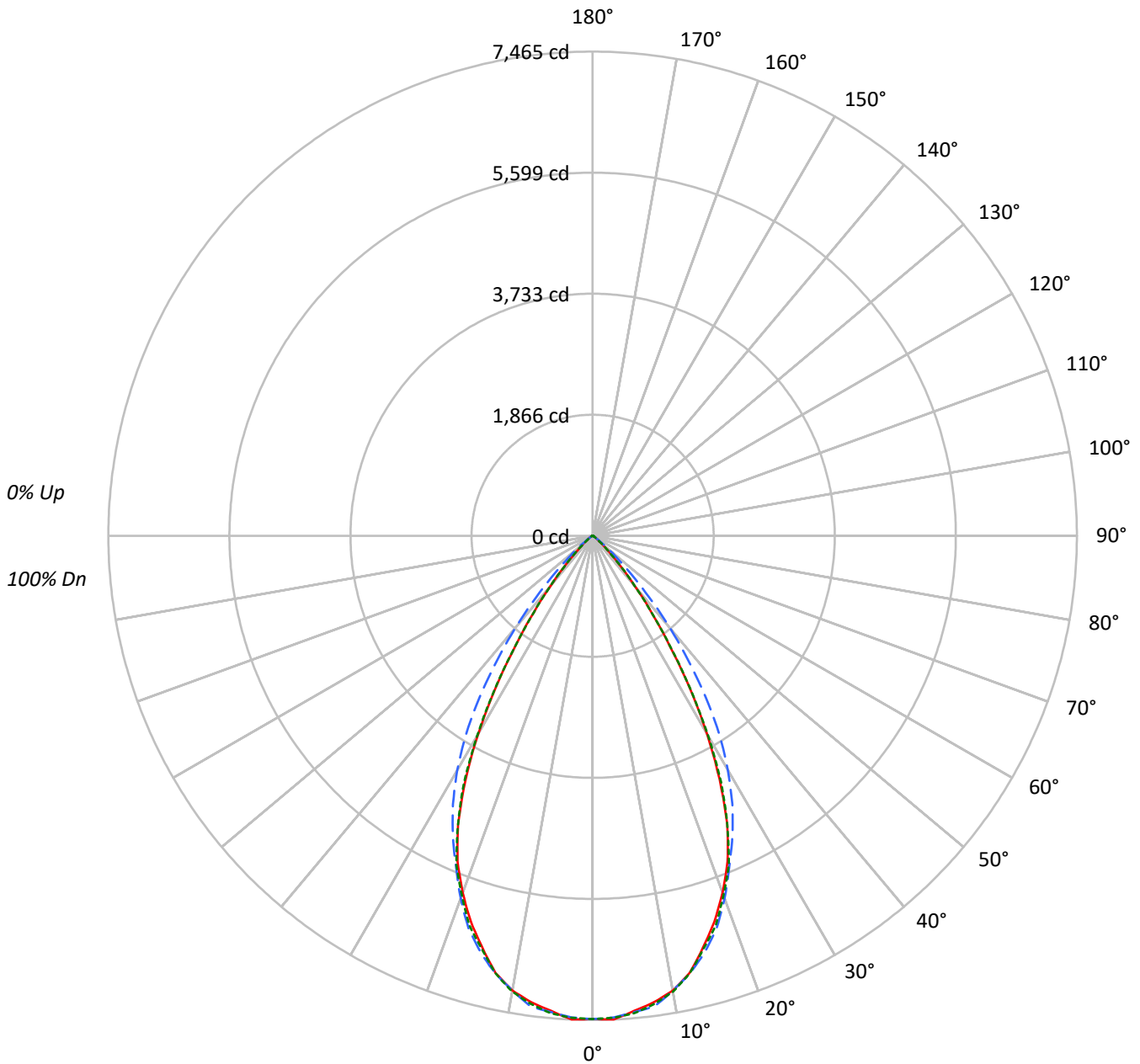
Lumens per Lamp: N/A  
Luminaire Lumens: 7001.9 lumens  
Efficiency: N/A  
Efficacy: 61.2 lumens/watt  
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.95  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 114.4  
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

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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	82	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°	320821	320821	320821
5°	317785	318589	319405
10°	311189	311189	312011
15°	292993	296764	294040
20°	268265	272563	270194
25°	233091	242227	233310
30°	175305	207278	176941
35°	108828	159671	109322
40°	57262	103968	57003
45°	23735	52030	24307
50°	9116	19505	9116
55°	4932	5990	4586
60°	3229	2833	3229
65°	1915	1915	1915
70°	1183	1762	1183
75°	765	765	765
80°	1141	1141	1141
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	697.6	10.0
10°-20°	1855.6	26.5
20°-30°	2277.4	32.5
30°-40°	1572.1	22.5
40°-50°	491.5	7.0
50°-60°	76.7	1.1
60°-70°	22.2	0.3
70°-80°	7.2	0.1
80°-90°	1.6	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°	4830.5	69.0
0°-40°	6402.7	91.4
0°-60°	6970.9	99.6
0°-90°	7001.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7001.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7451	7451	7451	7451	7451	
5°	7353	7381	7371	7374	7390	695
15°	6573	6667	6658	6648	6597	1839
25°	4906	5033	5099	5066	4911	2198
35°	2070	2449	3038	2472	2080	1323
45°	390	533	854	528	399	349
55°	66	70	80	70	61	64
65°	19	23	19	23	19	21
75°	5	5	5	5	5	7
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°	7451.3	7451.3	7451.3	7451.3	7451.3	7451.3	7451.3	7451.3	7451.3	7451.3	7451.3
2.5°	7465.3	7361.9	7427.6	7413.6	7451.3	7474.7	7451.3	7493.4	7465.3	7432.4	7441.8
5°	7352.7	7366.7	7361.9	7371.3	7380.7	7380.7	7427.6	7432.4	7441.8	7371.3	7390.2
7.5°	7254.1	7254.1	7277.5	7268.1	7301.0	7291.6	7296.2	7333.8	7338.5	7319.8	7305.6
10°	7117.8	7099.0	7075.5	7075.5	7117.8	7122.6	7160.1	7164.7	7193.0	7117.8	7127.2
12.5°	6906.6	6897.2	6859.5	6878.3	6911.2	6892.4	6953.5	6958.1	6948.9	6916.0	6934.7
15°	6573.1	6610.8	6601.4	6596.6	6671.7	6662.3	6657.7	6671.7	6676.5	6657.7	6643.7
17.5°	6239.9	6272.7	6277.4	6286.8	6300.8	6315.0	6333.7	6385.4	6366.5	6352.5	6399.4
20°	5854.9	5840.7	5878.4	5915.9	5929.9	5929.9	5958.1	5995.6	5967.5	5948.7	5953.5
22.5°	5436.9	5460.4	5441.7	5479.2	5498.0	5521.5	5549.7	5582.6	5559.1	5507.4	5568.4
25°	4906.5	4920.5	4981.6	4976.8	5005.1	5061.4	5103.6	5103.6	5103.6	5098.8	5098.8
27.5°	4239.7	4230.3	4305.5	4357.2	4427.5	4516.7	4573.0	4662.2	4676.4	4662.2	4629.3
30°	3526.1	3516.7	3610.5	3676.2	3803.1	3845.4	4000.3	4084.8	4174.0	4169.2	4145.8
32.5°	2784.3	2802.9	2878.1	2972.0	3075.3	3206.7	3352.4	3540.2	3619.9	3638.8	3596.5
35°	2070.5	2098.7	2169.1	2249.0	2375.7	2521.4	2723.2	2901.5	3037.8	3037.8	3004.9
37.5°	1493.1	1502.4	1568.1	1619.8	1751.3	1882.7	2056.5	2300.5	2385.1	2418.0	2385.1
40°	1018.8	1018.8	1056.5	1112.8	1220.8	1333.4	1493.1	1676.1	1798.2	1849.8	1793.5
42.5°	647.9	657.3	685.5	723.0	802.8	901.4	1023.6	1159.7	1248.9	1286.5	1234.8
45°	389.8	399.2	422.6	450.7	502.4	563.5	647.9	746.5	821.6	854.5	831.0
47.5°	234.7	244.1	253.5	272.3	309.8	352.1	394.4	450.7	497.8	502.4	493.0
50°	136.1	136.1	145.5	159.7	178.4	201.8	225.4	258.3	272.3	291.2	272.3
52.5°	89.2	89.2	89.2	94.0	103.2	112.6	122.0	140.9	150.3	150.3	145.5
55°	65.7	65.7	65.7	65.7	70.3	70.3	70.3	75.1	79.8	79.8	79.8
57.5°	46.9	46.9	46.9	51.7	51.7	51.7	46.9	46.9	46.9	46.9	46.9
60°	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	32.9	32.9	32.9
62.5°	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
65°	18.8	18.8	18.8	23.4	23.4	23.4	23.4	18.8	18.8	18.8	18.8
67.5°	14.0	14.0	14.0	18.8	18.8	18.8	18.8	18.8	14.0	14.0	14.0
70°	9.4	9.4	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
72.5°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
75°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
77.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
80°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
82.5°	0.0	0.0	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
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°	7451.3	7451.3	7451.3	7451.3	7451.3	7451.3	7451.3	7451.3
2.5°	7469.9	7446.5	7446.5	7446.5	7437.1	7446.5	7460.5	7437.1
5°	7390.2	7399.6	7357.3	7390.2	7404.2	7380.7	7437.1	7390.2
7.5°	7319.8	7305.6	7239.9	7286.9	7315.0	7324.4	7319.8	7282.1
10°	7178.9	7146.1	7117.8	7117.8	7108.4	7103.8	7155.5	7136.6
12.5°	6925.2	6948.9	6906.6	6930.0	6911.2	6916.0	6920.6	6911.2
15°	6709.4	6686.0	6629.5	6667.1	6643.7	6620.2	6667.1	6596.6
17.5°	6371.3	6366.5	6333.7	6310.2	6319.6	6315.0	6338.5	6305.6
20°	5972.2	5981.6	5962.8	5953.5	5939.3	5906.4	5934.7	5897.0
22.5°	5540.3	5549.7	5568.4	5530.9	5535.5	5488.6	5530.9	5488.6
25°	5103.6	5098.8	5075.4	5056.7	5005.1	4953.4	4943.9	4911.1
27.5°	4624.7	4591.8	4535.5	4474.4	4394.7	4324.3	4319.5	4296.1
30°	4098.9	4028.3	3925.1	3826.5	3704.5	3596.5	3596.5	3559.0
32.5°	3544.8	3385.3	3244.4	3122.3	2962.6	2901.5	2840.6	2807.7
35°	2882.9	2742.0	2572.9	2371.1	2295.9	2145.6	2155.0	2079.9
37.5°	2258.4	2084.7	1925.0	1760.7	1629.2	1558.9	1521.2	1483.7
40°	1676.1	1507.2	1333.4	1225.4	1108.0	1047.1	1023.6	1014.2
42.5°	1145.7	1004.8	892.1	802.8	741.9	676.1	657.3	647.9
45°	746.5	666.7	563.5	493.0	450.7	413.2	413.2	399.2
47.5°	446.1	394.4	342.7	295.8	267.5	244.1	234.7	230.1
50°	248.9	220.6	192.6	173.7	154.9	140.9	136.1	136.1
52.5°	136.1	122.0	112.6	98.6	89.2	89.2	89.2	84.6
55°	70.3	70.3	70.3	70.3	65.7	65.7	65.7	61.1
57.5°	46.9	46.9	51.7	51.7	51.7	46.9	46.9	46.9
60°	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5
62.5°	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
65°	18.8	23.4	23.4	23.4	23.4	18.8	18.8	18.8
67.5°	14.0	18.8	18.8	18.8	14.0	14.0	14.0	14.0
70°	14.0	14.0	14.0	14.0	14.0	9.4	9.4	9.4
72.5°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
75°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
77.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
80°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
82.5°	4.6	4.6	4.6	4.6	4.6	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)