

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: P840542

Luminaire Tested: **LD6C10D010 EU6109050 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: P840542
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: LD6C10D010 EU6109050 6LBSQLI
Description: 6 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

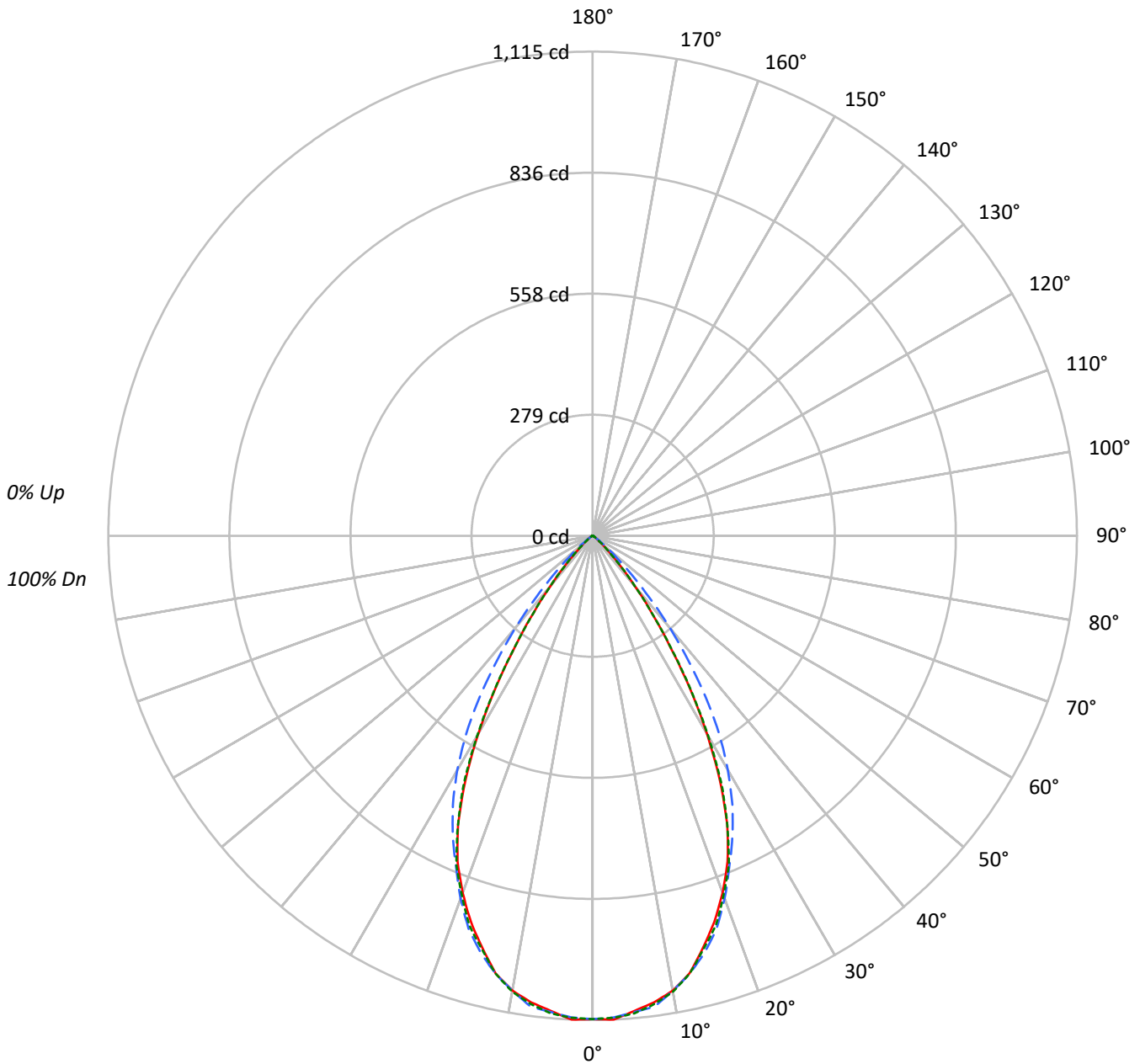
Lumens per Lamp: N/A
Luminaire Lumens: 1046.0 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.95
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 9.8
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

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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°	47925	47925	47925
5°	47473	47594	47715
10°	46487	46487	46610
15°	43768	44329	43924
20°	40073	40719	40362
25°	34822	36186	34856
30°	26186	30963	26434
35°	16257	23852	16331
40°	8554	15535	8515
45°	3544	7770	3629
50°	1360	2914	1360
55°	736	893	683
60°	482	422	482
65°	285	285	285
70°	176	264	176
75°	116	116	116
80°	174	174	174
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.2	10.0
10°-20°	277.2	26.5
20°-30°	340.2	32.5
30°-40°	234.9	22.5
40°-50°	73.4	7.0
50°-60°	11.5	1.1
60°-70°	3.3	0.3
70°-80°	1.1	0.1
80°-90°	0.2	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°	721.6	69.0
0°-40°	956.5	91.4
0°-60°	1041.3	99.6
0°-90°	1046.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1046.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1113	1113	1113	1113	1113	
5°	1098	1103	1101	1102	1104	104
15°	982	996	994	993	985	275
25°	733	752	762	757	734	328
35°	309	366	454	369	311	198
45°	58	80	128	79	60	52
55°	10	10	12	10	9	10
65°	3	4	3	4	3	3
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
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°	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1
2.5°	1115.2	1099.8	1109.6	1107.5	1113.1	1116.6	1113.1	1119.4	1115.2	1110.3	1111.7
5°	1098.4	1100.5	1099.8	1101.2	1102.6	1102.6	1109.6	1110.3	1111.7	1101.2	1104.0
7.5°	1083.6	1083.6	1087.2	1085.7	1090.7	1089.3	1090.0	1095.5	1096.2	1093.4	1091.4
10°	1063.3	1060.5	1057.0	1057.0	1063.3	1064.0	1069.6	1070.3	1074.5	1063.3	1064.7
12.5°	1031.8	1030.3	1024.7	1027.5	1032.4	1029.6	1038.7	1039.4	1038.0	1033.1	1035.9
15°	981.9	987.6	986.1	985.4	996.6	995.2	994.5	996.6	997.3	994.5	992.5
17.5°	932.2	937.0	937.7	939.1	941.2	943.4	946.2	953.9	951.1	949.0	956.0
20°	874.6	872.5	878.1	883.7	885.8	885.8	890.1	895.6	891.5	888.7	889.4
22.5°	812.2	815.7	812.9	818.5	821.3	824.8	829.0	834.0	830.4	822.7	831.9
25°	733.0	735.1	744.2	743.5	747.7	756.1	762.4	762.4	762.4	761.7	761.7
27.5°	633.4	632.0	643.2	650.9	661.4	674.7	683.1	696.5	698.6	696.5	691.6
30°	526.7	525.3	539.3	549.2	568.1	574.5	597.6	610.2	623.5	622.8	619.3
32.5°	415.9	418.7	430.0	444.0	459.4	479.0	500.8	528.8	540.8	543.6	537.2
35°	309.3	313.5	324.0	336.0	354.9	376.7	406.8	433.5	453.8	453.8	448.9
37.5°	223.0	224.4	234.3	242.0	261.6	281.2	307.2	343.7	356.3	361.2	356.3
40°	152.2	152.2	157.8	166.2	182.3	199.2	223.0	250.4	268.6	276.4	267.9
42.5°	96.8	98.2	102.4	108.0	119.9	134.7	152.9	173.3	186.6	192.2	184.5
45°	58.2	59.6	63.1	67.3	75.1	84.2	96.8	111.5	122.7	127.6	124.1
47.5°	35.1	36.5	37.9	40.7	46.3	52.6	58.9	67.3	74.4	75.1	73.7
50°	20.3	20.3	21.7	23.8	26.6	30.2	33.7	38.6	40.7	43.5	40.7
52.5°	13.3	13.3	13.3	14.0	15.4	16.9	18.3	21.0	22.4	22.4	21.7
55°	9.8	9.8	9.8	9.8	10.5	10.5	10.5	11.2	11.9	11.9	11.9
57.5°	7.0	7.0	7.0	7.7	7.7	7.7	7.0	7.0	7.0	7.0	7.0
60°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	4.9	4.9	4.9
62.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
65°	2.8	2.8	2.8	3.5	3.5	3.5	3.5	2.8	2.8	2.8	2.8
67.5°	2.1	2.1	2.1	2.8	2.8	2.8	2.8	2.8	2.1	2.1	2.1
70°	1.4	1.4	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
72.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
75°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
82.5°	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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°	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1	1113.1
2.5°	1115.9	1112.4	1112.4	1112.4	1111.0	1112.4	1114.5	1111.0
5°	1104.0	1105.4	1099.1	1104.0	1106.1	1102.6	1111.0	1104.0
7.5°	1093.4	1091.4	1081.5	1088.6	1092.8	1094.1	1093.4	1087.9
10°	1072.4	1067.5	1063.3	1063.3	1061.9	1061.2	1068.9	1066.1
12.5°	1034.5	1038.0	1031.8	1035.2	1032.4	1033.1	1033.8	1032.4
15°	1002.3	998.8	990.4	995.9	992.5	989.0	995.9	985.4
17.5°	951.8	951.1	946.2	942.7	944.1	943.4	946.9	942.0
20°	892.2	893.6	890.8	889.4	887.3	882.3	886.6	880.9
22.5°	827.6	829.0	831.9	826.2	826.9	819.9	826.2	819.9
25°	762.4	761.7	758.2	755.4	747.7	739.9	738.5	733.7
27.5°	690.9	686.0	677.5	668.4	656.5	646.0	645.3	641.8
30°	612.3	601.8	586.4	571.6	553.4	537.2	537.2	531.7
32.5°	529.6	505.7	484.6	466.4	442.6	433.5	424.3	419.4
35°	430.7	409.6	384.3	354.2	343.0	320.5	321.9	310.7
37.5°	337.4	311.4	287.6	263.0	243.4	232.9	227.2	221.6
40°	250.4	225.1	199.2	183.0	165.5	156.4	152.9	151.5
42.5°	171.1	150.1	133.3	119.9	110.8	101.0	98.2	96.8
45°	111.5	99.6	84.2	73.7	67.3	61.7	61.7	59.6
47.5°	66.6	58.9	51.2	44.2	40.0	36.5	35.1	34.4
50°	37.2	33.0	28.8	25.9	23.1	21.0	20.3	20.3
52.5°	20.3	18.3	16.9	14.7	13.3	13.3	13.3	12.6
55°	10.5	10.5	10.5	10.5	9.8	9.8	9.8	9.1
57.5°	7.0	7.0	7.7	7.7	7.7	7.0	7.0	7.0
60°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
62.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
65°	2.8	3.5	3.5	3.5	3.5	2.8	2.8	2.8
67.5°	2.1	2.8	2.8	2.8	2.1	2.1	2.1	2.1
70°	2.1	2.1	2.1	2.1	2.1	1.4	1.4	1.4
72.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
75°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
82.5°	0.7	0.7	0.7	0.7	0.7	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)