

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: P840538

Luminaire Tested: **LD6C10D010 EU6109040 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: P840538
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 EU6109040 6LBSQLI
Description: 6 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

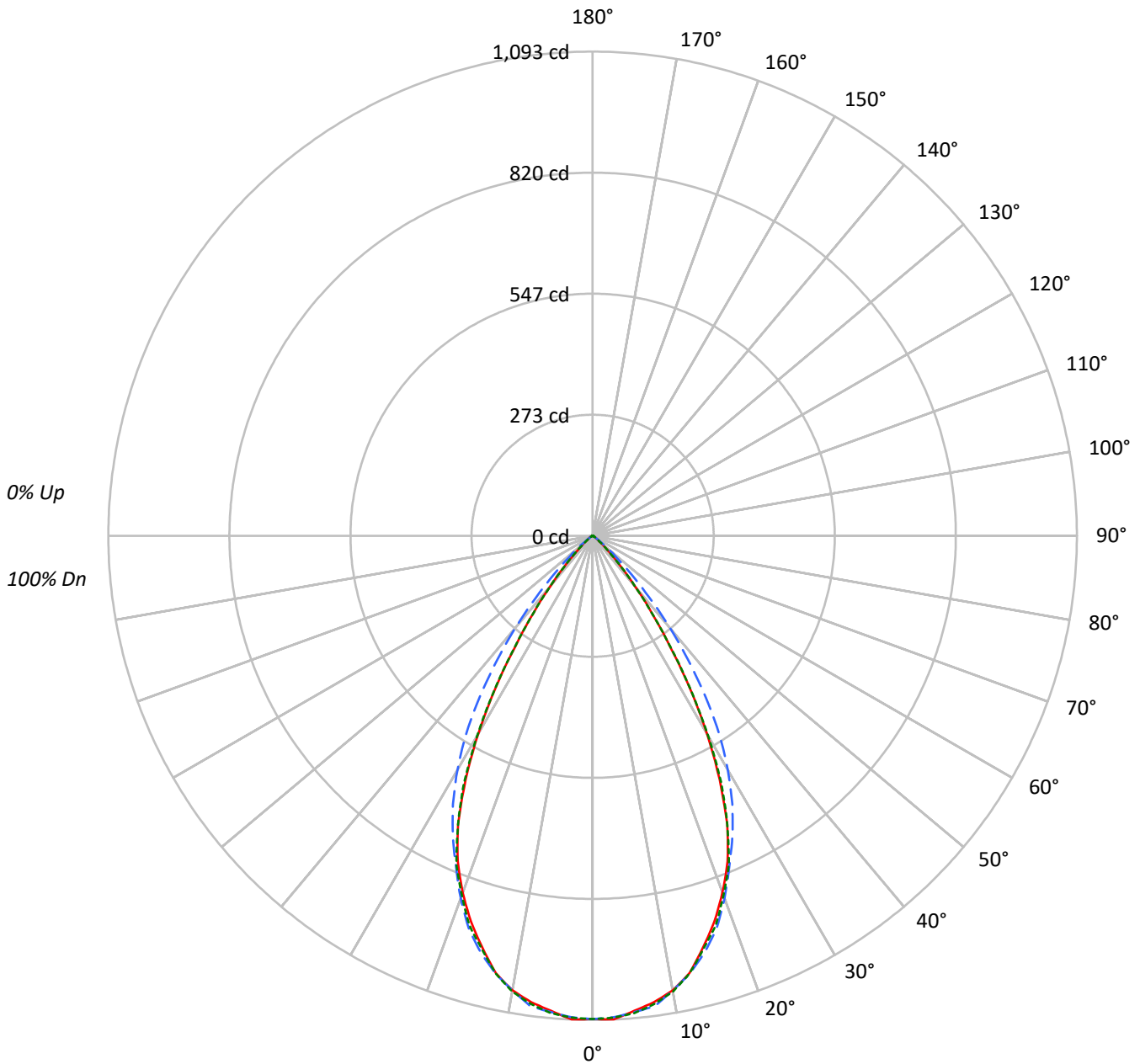
Lumens per Lamp: N/A
Luminaire Lumens: 1025.0 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.95
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 9.8
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	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°	46965	46965	46965
5°	46518	46639	46756
10°	45552	45552	45674
15°	42890	43442	43041
20°	39267	39899	39551
25°	34119	35459	34153
30°	25664	30342	25902
35°	15931	23374	16005
40°	8386	15220	8346
45°	3471	7617	3556
50°	1333	2853	1333
55°	721	878	668
60°	474	413	474
65°	275	275	275
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°	102.1	10.0
10°-20°	271.6	26.5
20°-30°	333.4	32.5
30°-40°	230.1	22.5
40°-50°	72.0	7.0
50°-60°	11.2	1.1
60°-70°	3.2	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°	707.1	69.0
0°-40°	937.3	91.4
0°-60°	1020.5	99.6
0°-90°	1025.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1025.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1091	1091	1091	1091	1091	
5°	1076	1080	1079	1079	1082	102
15°	962	976	975	973	966	269
25°	718	737	746	742	719	322
35°	303	358	445	362	304	194
45°	57	78	125	77	58	51
55°	10	10	12	10	9	9
65°	3	3	3	3	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°	1090.8	1090.8	1090.8	1090.8	1090.8	1090.8	1090.8	1090.8	1090.8	1090.8	1090.8
2.5°	1092.8	1077.7	1087.3	1085.2	1090.8	1094.2	1090.8	1096.9	1092.8	1088.0	1089.4
5°	1076.3	1078.4	1077.7	1079.1	1080.4	1080.4	1087.3	1088.0	1089.4	1079.1	1081.8
7.5°	1061.9	1061.9	1065.3	1063.9	1068.8	1067.4	1068.1	1073.6	1074.2	1071.5	1069.4
10°	1041.9	1039.2	1035.8	1035.8	1041.9	1042.6	1048.1	1048.8	1052.9	1041.9	1043.3
12.5°	1011.0	1009.6	1004.1	1006.9	1011.7	1008.9	1017.9	1018.6	1017.2	1012.4	1015.1
15°	962.2	967.7	966.3	965.6	976.6	975.3	974.6	976.6	977.3	974.6	972.5
17.5°	913.4	918.2	918.9	920.3	922.3	924.4	927.2	934.7	932.0	929.9	936.8
20°	857.0	855.0	860.5	866.0	868.0	868.0	872.2	877.7	873.6	870.8	871.5
22.5°	795.9	799.3	796.6	802.1	804.8	808.3	812.4	817.2	813.7	806.2	815.2
25°	718.2	720.3	729.2	728.6	732.7	740.9	747.1	747.1	747.1	746.4	746.4
27.5°	620.6	619.3	630.3	637.8	648.1	661.2	669.4	682.5	684.6	682.5	677.7
30°	516.2	514.8	528.5	538.1	556.7	562.9	585.6	598.0	611.0	610.3	606.9
32.5°	407.6	410.3	421.3	435.1	450.2	469.4	490.7	518.2	529.9	532.7	526.5
35°	303.1	307.2	317.5	329.2	347.8	369.1	398.6	424.8	444.7	444.7	439.9
37.5°	218.6	219.9	229.6	237.1	256.3	275.6	301.1	336.8	349.1	353.9	349.1
40°	149.2	149.2	154.6	162.9	178.7	195.2	218.6	245.3	263.2	270.8	262.5
42.5°	94.9	96.2	100.3	105.9	117.5	132.0	149.8	169.8	182.8	188.3	180.8
45°	57.0	58.4	61.9	66.0	73.6	82.5	94.9	109.3	120.3	125.1	121.6
47.5°	34.4	35.7	37.1	39.9	45.4	51.6	57.7	66.0	72.9	73.6	72.2
50°	19.9	19.9	21.3	23.4	26.1	29.6	33.0	37.8	39.9	42.6	39.9
52.5°	13.1	13.1	13.1	13.7	15.1	16.5	17.9	20.6	22.0	22.0	21.3
55°	9.6	9.6	9.6	9.6	10.3	10.3	10.3	11.0	11.7	11.7	11.7
57.5°	6.9	6.9	6.9	7.6	7.6	7.6	6.9	6.9	6.9	6.9	6.9
60°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	4.8	4.8	4.8
62.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
65°	2.7	2.7	2.7	3.4	3.4	3.4	3.4	2.7	2.7	2.7	2.7
67.5°	2.1	2.1	2.1	2.7	2.7	2.7	2.7	2.7	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°	1090.8	1090.8	1090.8	1090.8	1090.8	1090.8	1090.8	1090.8
2.5°	1093.5	1090.1	1090.1	1090.1	1088.7	1090.1	1092.1	1088.7
5°	1081.8	1083.2	1077.0	1081.8	1083.9	1080.4	1088.7	1081.8
7.5°	1071.5	1069.4	1059.8	1066.7	1070.8	1072.2	1071.5	1066.0
10°	1050.9	1046.1	1041.9	1041.9	1040.6	1039.9	1047.4	1044.7
12.5°	1013.8	1017.2	1011.0	1014.5	1011.7	1012.4	1013.1	1011.7
15°	982.2	978.7	970.5	976.0	972.5	969.1	976.0	965.6
17.5°	932.6	932.0	927.2	923.7	925.1	924.4	927.9	923.1
20°	874.2	875.6	872.9	871.5	869.5	864.6	868.8	863.2
22.5°	811.0	812.4	815.2	809.6	810.3	803.5	809.6	803.5
25°	747.1	746.4	743.0	740.2	732.7	725.1	723.7	718.9
27.5°	677.0	672.2	663.9	655.0	643.3	633.0	632.3	628.9
30°	600.0	589.7	574.6	560.1	542.3	526.5	526.5	521.0
32.5°	518.9	495.5	474.9	457.1	433.7	424.8	415.8	411.0
35°	422.0	401.4	376.6	347.1	336.1	314.1	315.5	304.5
37.5°	330.6	305.2	281.8	257.8	238.5	228.2	222.7	217.2
40°	245.3	220.6	195.2	179.4	162.2	153.3	149.8	148.5
42.5°	167.7	147.1	130.6	117.5	108.6	99.0	96.2	94.9
45°	109.3	97.6	82.5	72.2	66.0	60.5	60.5	58.4
47.5°	65.3	57.7	50.2	43.3	39.2	35.7	34.4	33.7
50°	36.4	32.3	28.2	25.4	22.7	20.6	19.9	19.9
52.5°	19.9	17.9	16.5	14.4	13.1	13.1	13.1	12.4
55°	10.3	10.3	10.3	10.3	9.6	9.6	9.6	8.9
57.5°	6.9	6.9	7.6	7.6	7.6	6.9	6.9	6.9
60°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
62.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
65°	2.7	3.4	3.4	3.4	3.4	2.7	2.7	2.7
67.5°	2.1	2.7	2.7	2.7	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)