

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: P840534

Luminaire Tested: **LD6C10D010 EU6109035 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: P840534
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 EU6109035 6LBSQLI
Description: 6 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

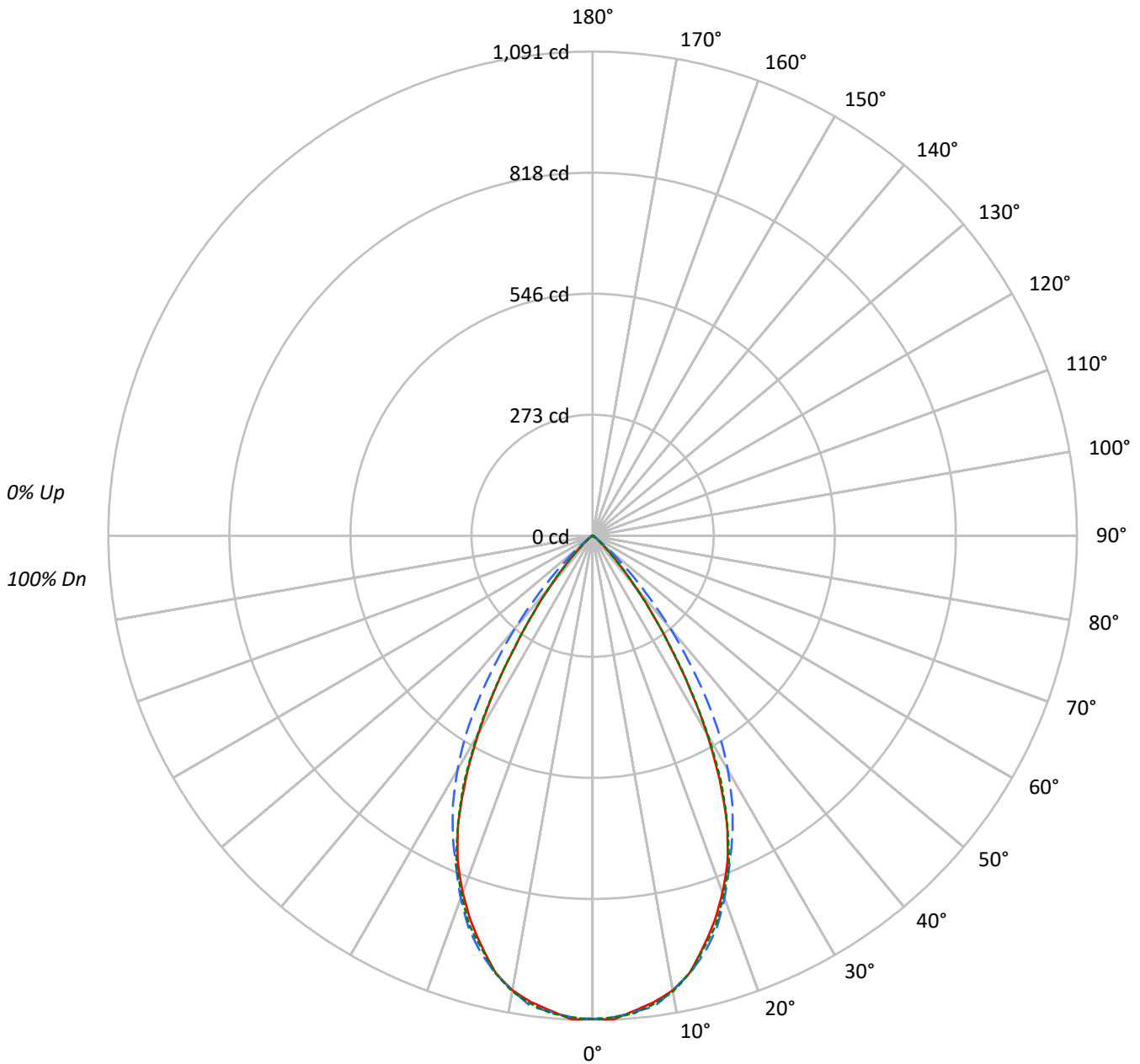
Lumens per Lamp: N/A
Luminaire Lumens: 1023.0 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.95
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P840534

CATALOG NUMBER: LD6C10D010 EU6109035 6LBSQLI

Luminous Intensity Polar Plot





TEST NUMBER: P840534

CATALOG NUMBER: LD6C10D010 EU6109035 6LBSQLI

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°	46870	46870	46870
5°	46427	46548	46665
10°	45464	45464	45587
15°	42805	43358	42961
20°	39193	39821	39478
25°	34053	35388	34086
30°	25609	30282	25853
35°	15900	23327	15973
40°	8369	15192	8330
45°	3465	7599	3550
50°	1333	2847	1333
55°	721	878	668
60°	474	413	474
65°	275	275	275
70°	176	252	176
75°	116	116	116
80°	174	174	174
85°	0	0	0



TEST NUMBER: P840534

CATALOG NUMBER: LD6C10D010 EU6109035 6LBSQLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.9	10.0
10°-20°	271.1	26.5
20°-30°	332.7	32.5
30°-40°	229.7	22.5
40°-50°	71.8	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°	705.7	69.0
0°-40°	935.4	91.4
0°-60°	1018.5	99.6
0°-90°	1023.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1023.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1089	1089	1089	1089	1089	
5°	1074	1078	1077	1077	1080	102
15°	960	974	973	971	964	269
25°	717	735	745	740	718	321
35°	302	358	444	361	304	193
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	



TEST NUMBER: P840534

CATALOG NUMBER: LD6C10D010 EU6109035 6LBSQLI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1088.6	1088.6	1088.6	1088.6	1088.6	1088.6	1088.6	1088.6	1088.6	1088.6	1088.6
2.5°	1090.7	1075.6	1085.2	1083.1	1088.6	1092.0	1088.6	1094.8	1090.7	1085.9	1087.3
5°	1074.2	1076.3	1075.6	1077.0	1078.3	1078.3	1085.2	1085.9	1087.3	1077.0	1079.7
7.5°	1059.8	1059.8	1063.3	1061.8	1066.7	1065.3	1066.0	1071.5	1072.1	1069.4	1067.4
10°	1039.9	1037.2	1033.7	1033.7	1039.9	1040.6	1046.1	1046.8	1050.9	1039.9	1041.3
12.5°	1009.1	1007.7	1002.2	1004.9	1009.7	1007.0	1015.9	1016.6	1015.2	1010.4	1013.2
15°	960.3	965.8	964.4	963.8	974.7	973.4	972.7	974.7	975.4	972.7	970.6
17.5°	911.7	916.4	917.1	918.5	920.5	922.6	925.4	932.9	930.1	928.1	935.0
20°	855.4	853.3	858.8	864.3	866.3	866.3	870.5	876.0	871.9	869.1	869.8
22.5°	794.3	797.8	795.0	800.5	803.3	806.7	810.8	815.6	812.2	804.6	813.6
25°	716.8	718.9	727.8	727.1	731.2	739.5	745.6	745.6	745.6	744.9	744.9
27.5°	619.4	618.1	629.0	636.6	646.8	659.9	668.1	681.1	683.2	681.1	676.4
30°	515.1	513.8	527.5	537.1	555.6	561.8	584.5	596.8	609.8	609.1	605.7
32.5°	406.8	409.5	420.5	434.2	449.3	468.5	489.8	517.2	528.9	531.6	525.4
35°	302.5	306.6	316.9	328.6	347.1	368.4	397.8	423.9	443.8	443.8	439.0
37.5°	218.1	219.5	229.1	236.7	255.8	275.1	300.5	336.1	348.5	353.3	348.5
40°	148.9	148.9	154.3	162.6	178.3	194.8	218.1	244.9	262.7	270.3	262.0
42.5°	94.7	96.0	100.1	105.7	117.3	131.7	149.6	169.5	182.5	187.9	180.4
45°	56.9	58.3	61.8	65.9	73.4	82.3	94.7	109.1	120.0	124.8	121.4
47.5°	34.3	35.7	37.0	39.8	45.3	51.5	57.6	65.9	72.7	73.4	72.0
50°	19.9	19.9	21.3	23.3	26.0	29.5	32.9	37.7	39.8	42.5	39.8
52.5°	13.0	13.0	13.0	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°	2.0	2.0	2.0	2.7	2.7	2.7	2.7	2.7	2.0	2.0	2.0
70°	1.4	1.4	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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



TEST NUMBER: P840534

CATALOG NUMBER: LD6C10D010 EU6109035 6LBSQLI

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1088.6	1088.6	1088.6	1088.6	1088.6	1088.6	1088.6	1088.6
2.5°	1091.4	1087.9	1087.9	1087.9	1086.6	1087.9	1090.0	1086.6
5°	1079.7	1081.1	1074.9	1079.7	1081.7	1078.3	1086.6	1079.7
7.5°	1069.4	1067.4	1057.7	1064.6	1068.7	1070.1	1069.4	1063.9
10°	1048.8	1044.0	1039.9	1039.9	1038.5	1037.8	1045.4	1042.7
12.5°	1011.8	1015.2	1009.1	1012.5	1009.7	1010.4	1011.1	1009.7
15°	980.2	976.8	968.6	974.0	970.6	967.2	974.0	963.8
17.5°	930.8	930.1	925.4	921.9	923.3	922.6	926.0	921.3
20°	872.5	873.9	871.2	869.8	867.8	862.9	867.1	861.6
22.5°	809.4	810.8	813.6	808.1	808.7	801.9	808.1	801.9
25°	745.6	744.9	741.5	738.8	731.2	723.7	722.3	717.5
27.5°	675.7	670.9	662.6	653.7	642.1	631.8	631.1	627.7
30°	598.8	588.6	573.5	559.0	541.2	525.4	525.4	520.0
32.5°	517.9	494.6	474.0	456.2	432.9	423.9	415.0	410.2
35°	421.2	400.6	375.9	346.4	335.4	313.5	314.9	303.9
37.5°	329.9	304.6	281.3	257.3	238.0	227.7	222.2	216.8
40°	244.9	220.2	194.8	179.0	161.9	153.0	149.6	148.2
42.5°	167.4	146.8	130.3	117.3	108.4	98.8	96.0	94.7
45°	109.1	97.4	82.3	72.0	65.9	60.4	60.4	58.3
47.5°	65.2	57.6	50.1	43.2	39.1	35.7	34.3	33.6
50°	36.3	32.2	28.1	25.4	22.6	20.6	19.9	19.9
52.5°	19.9	17.9	16.5	14.4	13.0	13.0	13.0	12.3
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°	2.0	2.7	2.7	2.7	2.0	2.0	2.0	2.0
70°	2.0	2.0	2.0	2.0	2.0	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)