

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: P840530

Luminaire Tested: **LD6C10D010 EU6109030 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: P840530
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 EU6109030 6LBSQLI
Description: 6 INCH 1000 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

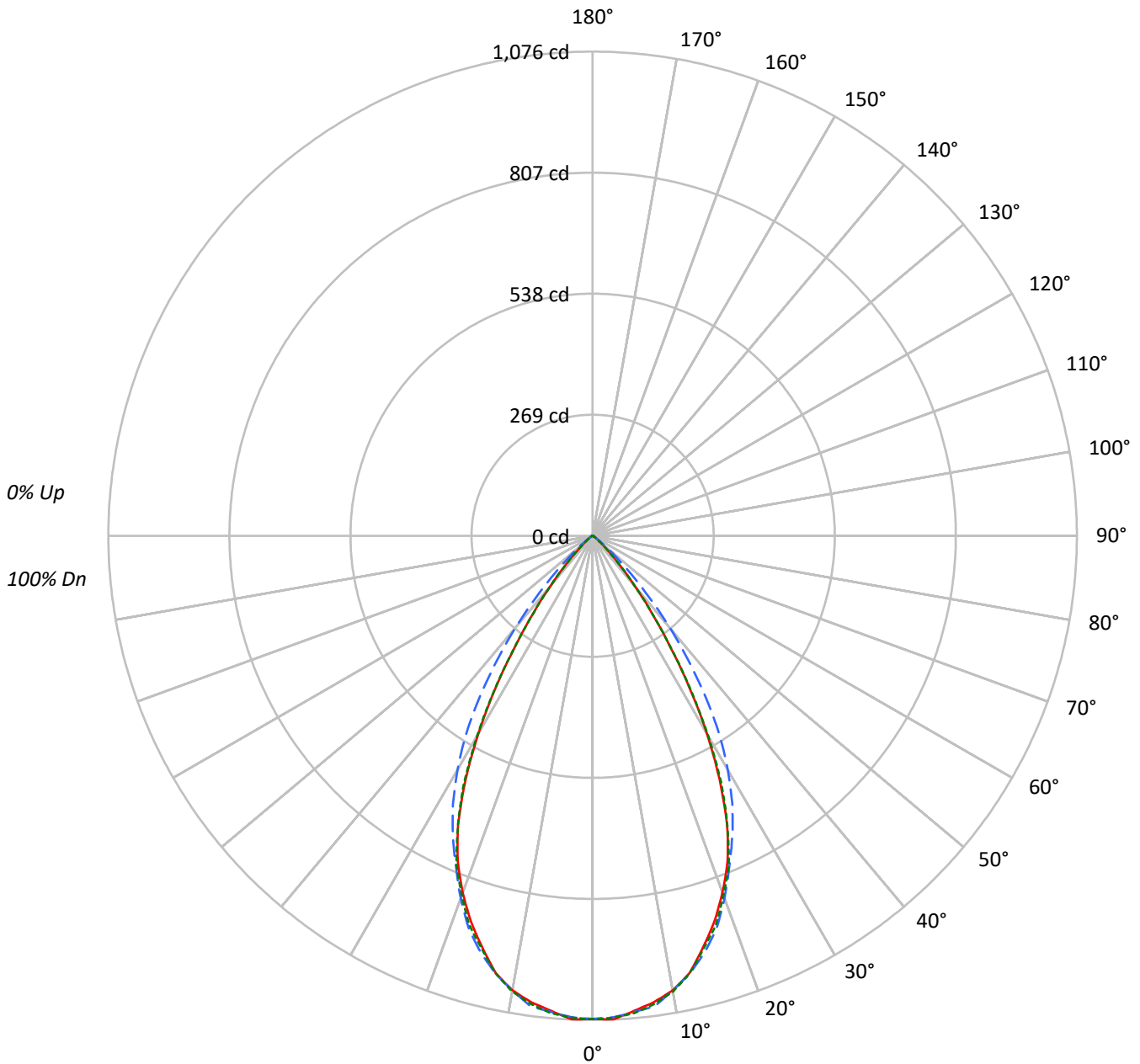
Lumens per Lamp: N/A
Luminaire Lumens: 1009.0 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.95
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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°	46229	46229	46229
5°	45792	45908	46025
10°	44843	44843	44962
15°	42221	42765	42373
20°	38657	39276	38937
25°	33587	34903	33620
30°	25261	29870	25500
35°	15684	23011	15753
40°	8251	14984	8217
45°	3416	7496	3501
50°	1313	2813	1313
55°	713	863	661
60°	465	405	465
65°	275	275	275
70°	164	252	164
75°	116	116	116
80°	174	174	174
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.5	10.0
10°-20°	267.4	26.5
20°-30°	328.2	32.5
30°-40°	226.5	22.5
40°-50°	70.8	7.0
50°-60°	11.1	1.1
60°-70°	3.2	0.3
70°-80°	1.0	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°	696.1	69.0
0°-40°	922.6	91.4
0°-60°	1004.5	99.6
0°-90°	1009.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1009.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1074	1074	1074	1074	1074	
5°	1060	1064	1062	1063	1065	100
15°	947	961	959	958	951	265
25°	707	725	735	730	708	317
35°	298	353	438	356	300	191
45°	56	77	123	76	58	50
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°	1073.7	1073.7	1073.7	1073.7	1073.7	1073.7	1073.7	1073.7	1073.7	1073.7	1073.7
2.5°	1075.7	1060.9	1070.4	1068.3	1073.7	1077.1	1073.7	1079.8	1075.7	1071.0	1072.4
5°	1059.5	1061.6	1060.9	1062.2	1063.6	1063.6	1070.4	1071.0	1072.4	1062.2	1064.9
7.5°	1045.3	1045.3	1048.7	1047.3	1052.1	1050.7	1051.4	1056.8	1057.5	1054.8	1052.7
10°	1025.7	1023.0	1019.6	1019.6	1025.7	1026.3	1031.8	1032.4	1036.5	1025.7	1027.1
12.5°	995.3	993.9	988.5	991.2	995.9	993.2	1002.0	1002.7	1001.3	996.6	999.3
15°	947.2	952.6	951.2	950.6	961.4	960.0	959.4	961.4	962.1	959.4	957.3
17.5°	899.2	903.9	904.6	905.9	907.9	910.0	912.7	920.2	917.4	915.4	922.2
20°	843.7	841.6	847.1	852.5	854.5	854.5	858.6	864.0	859.9	857.2	857.9
22.5°	783.5	786.8	784.1	789.5	792.3	795.6	799.7	804.5	801.0	793.6	802.4
25°	707.0	709.0	717.9	717.2	721.2	729.4	735.4	735.4	735.4	734.7	734.7
27.5°	611.0	609.6	620.4	627.8	638.0	650.9	659.0	671.8	673.9	671.8	667.1
30°	508.1	506.7	520.3	529.7	548.0	554.1	576.5	588.6	601.5	600.8	597.4
32.5°	401.2	403.9	414.8	428.3	443.1	462.1	483.1	510.1	521.7	524.4	518.2
35°	298.4	302.4	312.6	324.1	342.4	363.3	392.4	418.1	437.8	437.8	433.0
37.5°	215.1	216.5	226.0	233.4	252.3	271.3	296.4	331.5	343.7	348.4	343.7
40°	146.8	146.8	152.2	160.4	175.9	192.2	215.1	241.5	259.1	266.6	258.4
42.5°	93.4	94.7	98.8	104.2	115.7	129.9	147.5	167.1	180.0	185.4	178.0
45°	56.1	57.5	60.9	64.9	72.4	81.2	93.4	107.6	118.4	123.1	119.7
47.5°	33.8	35.2	36.5	39.3	44.6	50.8	56.8	64.9	71.7	72.4	71.1
50°	19.6	19.6	21.0	23.0	25.7	29.1	32.5	37.2	39.3	42.0	39.3
52.5°	12.8	12.8	12.8	13.5	14.9	16.3	17.6	20.3	21.6	21.6	21.0
55°	9.5	9.5	9.5	9.5	10.2	10.2	10.2	10.8	11.5	11.5	11.5
57.5°	6.8	6.8	6.8	7.5	7.5	7.5	6.8	6.8	6.8	6.8	6.8
60°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	4.7	4.7	4.7
62.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
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°	1.3	1.3	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
72.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
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°	1073.7	1073.7	1073.7	1073.7	1073.7	1073.7	1073.7	1073.7
2.5°	1076.4	1073.1	1073.1	1073.1	1071.7	1073.1	1075.1	1071.7
5°	1064.9	1066.3	1060.2	1064.9	1066.9	1063.6	1071.7	1064.9
7.5°	1054.8	1052.7	1043.3	1050.1	1054.1	1055.4	1054.8	1049.4
10°	1034.5	1029.8	1025.7	1025.7	1024.3	1023.6	1031.1	1028.4
12.5°	998.0	1001.3	995.3	998.6	995.9	996.6	997.3	995.9
15°	966.8	963.5	955.3	960.7	957.3	954.0	960.7	950.6
17.5°	918.1	917.4	912.7	909.3	910.7	910.0	913.4	908.7
20°	860.6	861.9	859.2	857.9	855.9	851.1	855.2	849.8
22.5°	798.3	799.7	802.4	797.0	797.7	790.9	797.0	790.9
25°	735.4	734.7	731.4	728.7	721.2	713.8	712.4	707.7
27.5°	666.4	661.7	653.6	644.8	633.3	623.1	622.5	619.1
30°	590.6	580.5	565.6	551.4	533.8	518.2	518.2	512.9
32.5°	510.8	487.8	467.5	449.9	426.9	418.1	409.3	404.6
35°	415.4	395.1	370.7	341.7	330.9	309.2	310.6	299.7
37.5°	325.4	300.4	277.4	253.7	234.8	224.6	219.2	213.8
40°	241.5	217.2	192.2	176.6	159.7	150.9	147.5	146.2
42.5°	165.1	144.8	128.6	115.7	106.9	97.4	94.7	93.4
45°	107.6	96.1	81.2	71.1	64.9	59.6	59.6	57.5
47.5°	64.3	56.8	49.4	42.6	38.6	35.2	33.8	33.1
50°	35.8	31.8	27.8	25.0	22.3	20.3	19.6	19.6
52.5°	19.6	17.6	16.3	14.2	12.8	12.8	12.8	12.2
55°	10.2	10.2	10.2	10.2	9.5	9.5	9.5	8.8
57.5°	6.8	6.8	7.5	7.5	7.5	6.8	6.8	6.8
60°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
62.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
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	1.3	1.3	1.3
72.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
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)