

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: P840541

Luminaire Tested: **LD6C10D010 EU6109050 6LBCSSQMW**

Issue Date: 5/25/2022

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: P840541
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P209457)
Test Lab: INNOVATION CENTER
Issue Date: 5/25/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD6C10D010 EU6109050 6LBCSSQMW
Description: 6 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LBCSSQ TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

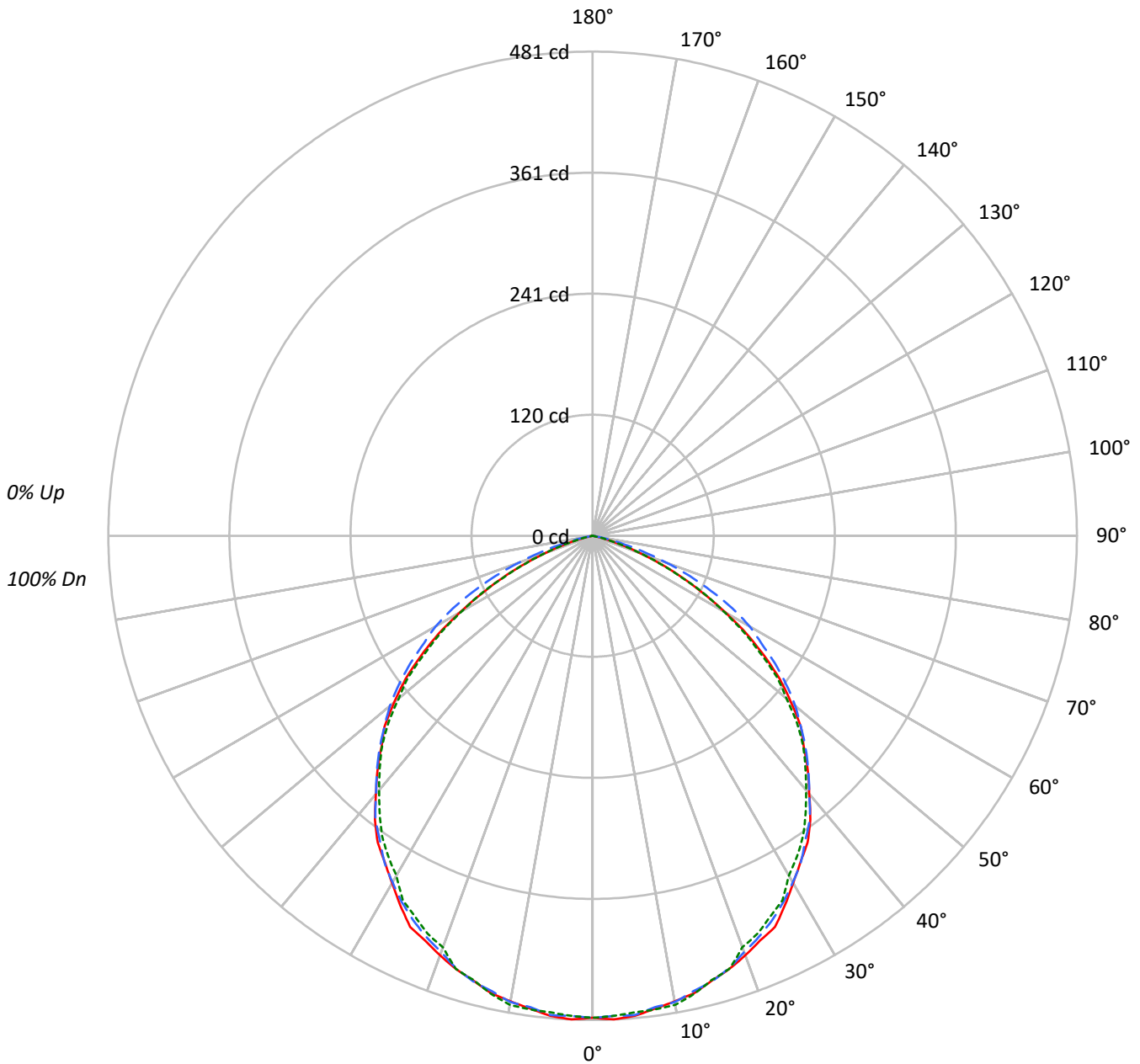
Lumens per Lamp: N/A
Luminaire Lumens: 1156.0 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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: P840541

CATALOG NUMBER: LD6C10D010 EU6109050 6LBCSSQMW

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20	
RC	80				70				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				100
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87				87
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	75				75
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64				64
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56				56
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49				49
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43				43
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38				38
8	63	50	42	37	62	50	42	36	48	41	36	47	41	36	46	40	36	34				34
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31				31
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28				28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20615	20615	20615
5°	20694	20664	20543
10°	20531	20561	20688
15°	20397	20428	20366
20°	20321	20160	19931
25°	20366	20029	19829
30°	19802	19767	19379
35°	19563	19374	19153
40°	18812	18812	18536
45°	18060	18230	18017
50°	17221	17596	16839
55°	15636	16589	15268
60°	13072	15509	12891
65°	10004	13234	9923
70°	6219	9781	6307
75°	2346	5290	2229
80°	174	868	174
85°	0	0	0



TEST NUMBER: P840541

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.3	3.9
10°-20°	129.1	11.2
20°-30°	194.3	16.8
30°-40°	229.9	19.9
40°-50°	229.4	19.8
50°-60°	190.2	16.5
60°-70°	111.1	9.6
70°-80°	26.5	2.3
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°	368.7	31.9
0°-40°	598.6	51.8
0°-60°	1018.2	88.1
0°-90°	1156.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1156.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	479	479	479	479	479	
5°	479	476	478	477	475	45
15°	458	457	458	456	457	129
25°	429	424	422	420	417	196
35°	372	369	369	366	364	231
45°	297	297	299	296	296	229
55°	208	216	221	215	203	185
65°	98	110	130	110	97	98
75°	14	20	32	20	13	19
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°	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8
2.5°	480.9	478.1	480.2	476.0	478.8	476.0	476.7	475.3	478.1	477.4	476.7
5°	478.8	479.5	478.1	479.5	477.4	475.3	477.4	476.0	471.7	478.1	476.7
7.5°	473.9	474.6	473.2	475.3	473.9	471.0	476.7	472.4	471.7	472.4	475.3
10°	469.6	471.0	470.3	469.6	470.3	470.3	468.9	466.8	468.9	470.3	469.6
12.5°	465.4	467.5	466.1	464.7	463.3	464.0	465.4	461.9	461.9	463.3	467.5
15°	457.6	459.0	459.7	456.9	456.9	457.6	460.4	454.8	457.6	458.3	459.0
17.5°	451.3	452.0	452.0	449.8	451.3	449.1	451.3	448.4	451.3	450.6	452.0
20°	443.5	444.9	443.5	443.5	442.1	442.8	442.8	442.8	440.7	440.0	441.4
22.5°	435.0	435.0	433.6	435.0	433.6	432.9	436.4	430.8	436.4	431.5	435.7
25°	428.7	425.1	423.0	422.3	425.1	422.3	423.7	421.6	423.0	421.6	422.3
27.5°	413.8	411.7	411.0	411.7	411.7	411.0	413.8	406.1	411.0	410.3	410.3
30°	398.3	398.3	399.7	398.3	399.7	397.6	400.4	394.1	398.3	397.6	398.3
32.5°	384.2	384.9	384.9	386.3	384.2	384.9	384.9	382.8	384.2	384.9	383.5
35°	372.2	368.6	368.6	368.6	368.6	368.6	370.1	367.9	370.1	368.6	368.6
37.5°	355.2	351.7	351.7	351.0	354.5	352.4	355.9	353.1	353.1	354.5	354.5
40°	334.7	336.2	334.0	336.8	336.2	333.3	339.7	335.5	338.3	334.7	337.6
42.5°	316.4	317.1	316.4	315.7	318.5	317.8	320.6	317.8	317.1	317.1	322.0
45°	296.6	296.6	296.6	298.7	296.6	297.3	300.1	298.7	300.1	299.4	304.4
47.5°	280.4	276.8	276.1	280.4	279.7	280.4	280.4	281.1	281.8	280.4	282.5
50°	257.1	255.6	255.6	256.4	257.1	258.5	260.6	262.0	260.6	262.7	263.4
52.5°	234.5	233.0	233.8	236.6	238.0	237.3	240.8	241.5	240.8	242.2	242.2
55°	208.3	206.9	209.0	212.6	214.7	216.8	220.3	217.5	220.3	221.0	221.7
57.5°	181.5	180.8	181.5	185.0	187.2	192.1	197.7	197.7	200.6	198.4	200.6
60°	151.8	151.8	154.7	156.8	162.4	166.0	171.6	174.4	177.3	180.1	178.7
62.5°	123.6	124.3	126.4	131.3	134.9	139.8	146.2	149.0	153.9	156.8	155.4
65°	98.2	98.2	99.6	103.8	107.3	113.7	119.4	125.7	128.5	129.9	130.7
67.5°	73.4	72.7	75.6	78.4	81.9	88.3	94.6	98.2	103.1	104.5	103.8
70°	49.4	50.1	51.6	54.4	58.6	63.5	70.6	73.4	76.3	77.7	76.3
72.5°	31.1	31.1	31.8	34.6	37.4	41.0	45.9	48.7	52.3	53.0	51.6
75°	14.1	14.1	15.5	16.9	19.1	21.9	25.4	27.5	29.7	31.8	31.8
77.5°	2.8	3.5	4.2	4.2	5.6	7.8	9.9	12.0	14.1	14.1	14.1
80°	0.7	0.7	0.7	0.7	0.7	0.7	1.4	2.1	3.5	3.5	3.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P840541

CATALOG NUMBER: LD6C10D010 EU6109050 6LBCSSQMW

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8
2.5°	478.8	483.0	478.8	476.7	479.5	478.8	476.7	477.4
5°	476.7	478.1	479.5	473.9	477.4	478.1	476.7	475.3
7.5°	474.6	475.3	474.6	473.2	473.2	473.2	474.6	474.6
10°	473.9	471.7	468.2	466.1	468.2	468.2	467.5	473.2
12.5°	464.7	467.5	465.4	461.1	465.4	464.7	464.7	466.1
15°	457.6	457.6	459.0	453.4	456.2	455.5	455.5	456.9
17.5°	450.6	450.6	449.8	448.4	447.7	449.8	447.7	451.3
20°	440.7	442.1	446.3	439.3	441.4	439.3	439.3	435.0
22.5°	428.7	435.7	432.2	431.5	430.8	431.5	432.9	428.0
25°	420.9	420.9	422.3	418.1	418.1	419.5	418.8	417.4
27.5°	410.3	409.6	408.9	407.5	411.0	408.2	408.2	408.2
30°	395.5	397.6	396.9	393.3	397.6	396.2	394.1	389.8
32.5°	382.8	385.6	381.4	380.7	379.9	380.7	381.4	377.8
35°	367.2	367.9	367.9	365.1	365.8	365.1	363.7	364.4
37.5°	353.1	352.4	348.9	347.5	348.1	348.1	348.9	347.5
40°	333.3	335.5	335.5	330.5	331.9	330.5	330.5	329.8
42.5°	317.1	317.8	315.7	313.6	313.6	312.9	311.4	312.9
45°	300.1	299.4	297.3	295.2	295.2	294.5	293.1	295.9
47.5°	281.1	279.7	279.0	276.1	276.1	271.9	272.6	275.4
50°	262.0	260.6	257.8	256.4	254.2	252.1	251.4	251.4
52.5°	239.4	239.4	236.6	233.8	233.0	231.6	230.2	230.9
55°	219.6	219.6	217.5	212.6	209.7	206.2	204.1	203.4
57.5°	197.0	195.6	191.4	185.7	182.9	180.1	178.0	178.0
60°	174.4	170.9	166.7	161.7	156.8	151.8	150.4	149.7
62.5°	149.7	146.2	138.4	132.8	129.2	126.4	123.6	125.7
65°	125.0	120.0	113.0	107.3	103.8	99.6	97.4	97.4
67.5°	98.9	93.9	86.9	81.2	77.7	74.8	72.0	72.0
70°	72.7	69.2	62.9	57.9	55.1	50.8	50.1	50.1
72.5°	49.4	45.2	40.3	36.7	33.9	31.1	29.7	29.0
75°	27.5	24.7	21.2	19.1	16.2	14.8	13.4	13.4
77.5°	11.3	9.2	7.1	5.6	4.2	3.5	2.8	3.5
80°	2.1	1.4	0.7	0.7	0.7	0.7	0.7	0.7
82.5°	0.0	0.0	0.0	0.0	0.0	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)