

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: P840540

Luminaire Tested: **LD6C10D010 EU6109050 6LBCSSQMMS**

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: P840540
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 6LBCSSQMMS
Description: 6 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LBCSSQ TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

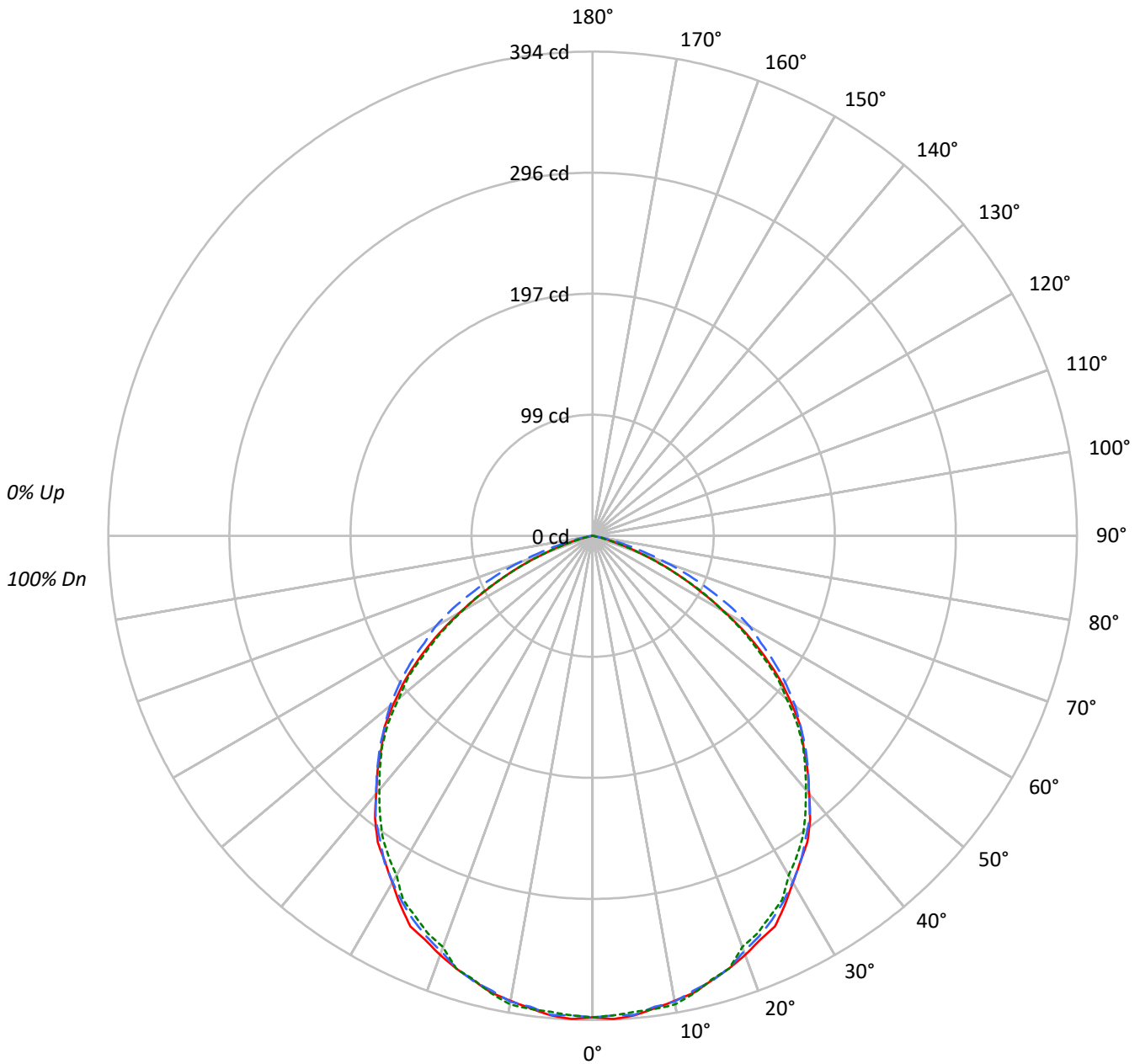
Lumens per Lamp: N/A
Luminaire Lumens: 946.0 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16869	16869	16869
5°	16934	16912	16808
10°	16802	16828	16928
15°	16693	16720	16666
20°	16628	16495	16312
25°	16665	16390	16224
30°	16203	16178	15860
35°	16010	15858	15674
40°	15395	15395	15170
45°	14778	14918	14741
50°	14093	14401	13778
55°	12799	13579	12491
60°	10704	12693	10549
65°	8181	10830	8120
70°	5098	8006	5161
75°	1930	4325	1830
80°	149	719	149
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.1	3.9
10°-20°	105.7	11.2
20°-30°	159.0	16.8
30°-40°	188.1	19.9
40°-50°	187.7	19.8
50°-60°	155.7	16.5
60°-70°	90.9	9.6
70°-80°	21.7	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°	301.7	31.9
0°-40°	489.9	51.8
0°-60°	833.2	88.1
0°-90°	946.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	946.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	392	392	392	392	392	
5°	392	390	391	390	389	37
15°	374	374	375	373	374	106
25°	351	347	345	344	342	160
35°	305	302	302	300	298	189
45°	243	243	245	242	242	188
55°	170	177	181	176	166	151
65°	80	90	106	90	80	80
75°	12	17	26	16	11	16
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°	391.8	391.8	391.8	391.8	391.8	391.8	391.8	391.8	391.8	391.8	391.8
2.5°	393.6	391.3	393.0	389.5	391.8	389.5	390.1	388.9	391.3	390.7	390.1
5°	391.8	392.4	391.3	392.4	390.7	388.9	390.7	389.5	386.1	391.3	390.1
7.5°	387.8	388.4	387.2	388.9	387.8	385.5	390.1	386.6	386.1	386.6	388.9
10°	384.3	385.5	384.9	384.3	384.9	384.9	383.7	382.0	383.7	384.9	384.3
12.5°	380.8	382.6	381.4	380.3	379.1	379.7	380.8	378.0	378.0	379.1	382.6
15°	374.5	375.6	376.2	373.9	373.9	374.5	376.8	372.2	374.5	375.1	375.6
17.5°	369.3	369.9	369.9	368.1	369.3	367.6	369.3	367.0	369.3	368.7	369.9
20°	362.9	364.1	362.9	362.9	361.8	362.4	362.4	362.4	360.6	360.0	361.2
22.5°	356.0	356.0	354.8	356.0	354.8	354.3	357.2	352.5	357.2	353.1	356.6
25°	350.8	347.9	346.2	345.6	347.9	345.6	346.7	345.0	346.2	345.0	345.6
27.5°	338.7	336.9	336.3	336.9	336.9	336.3	338.7	332.3	336.3	335.8	335.8
30°	325.9	325.9	327.1	325.9	327.1	325.4	327.7	322.5	325.9	325.4	325.9
32.5°	314.4	315.0	315.0	316.1	314.4	315.0	315.0	313.2	314.4	315.0	313.8
35°	304.6	301.7	301.7	301.7	301.7	301.7	302.8	301.1	302.8	301.7	301.7
37.5°	290.7	287.8	287.8	287.2	290.1	288.4	291.3	288.9	288.9	290.1	290.1
40°	273.9	275.1	273.4	275.7	275.1	272.8	278.0	274.5	276.8	273.9	276.2
42.5°	258.9	259.5	258.9	258.3	260.6	260.1	262.4	260.1	259.5	259.5	263.5
45°	242.7	242.7	242.7	244.5	242.7	243.3	245.6	244.5	245.6	245.0	249.1
47.5°	229.4	226.5	226.0	229.4	228.9	229.4	229.4	230.0	230.6	229.4	231.2
50°	210.4	209.2	209.2	209.8	210.4	211.5	213.2	214.4	213.2	215.0	215.6
52.5°	191.9	190.7	191.3	193.6	194.8	194.2	197.1	197.6	197.1	198.2	198.2
55°	170.5	169.3	171.1	174.0	175.7	177.4	180.3	178.0	180.3	180.9	181.5
57.5°	148.5	147.9	148.5	151.4	153.2	157.2	161.8	161.8	164.1	162.4	164.1
60°	124.3	124.3	126.6	128.3	132.9	135.8	140.4	142.7	145.1	147.4	146.2
62.5°	101.1	101.7	103.4	107.5	110.4	114.4	119.6	121.9	126.0	128.3	127.1
65°	80.3	80.3	81.5	84.9	87.8	93.0	97.7	102.9	105.2	106.3	106.9
67.5°	60.1	59.5	61.8	64.2	67.0	72.2	77.5	80.3	84.4	85.5	84.9
70°	40.5	41.0	42.2	44.5	48.0	52.0	57.8	60.1	62.4	63.6	62.4
72.5°	25.4	25.4	26.0	28.3	30.6	33.5	37.6	39.9	42.8	43.3	42.2
75°	11.6	11.6	12.7	13.9	15.6	17.9	20.8	22.5	24.3	26.0	26.0
77.5°	2.3	2.9	3.5	3.5	4.6	6.4	8.1	9.8	11.6	11.6	11.6
80°	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.7	2.9	2.9	2.9
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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	391.8	391.8	391.8	391.8	391.8	391.8	391.8	391.8
2.5°	391.8	395.3	391.8	390.1	392.4	391.8	390.1	390.7
5°	390.1	391.3	392.4	387.8	390.7	391.3	390.1	388.9
7.5°	388.4	388.9	388.4	387.2	387.2	387.2	388.4	388.4
10°	387.8	386.1	383.2	381.4	383.2	383.2	382.6	387.2
12.5°	380.3	382.6	380.8	377.4	380.8	380.3	380.3	381.4
15°	374.5	374.5	375.6	371.0	373.3	372.8	372.8	373.9
17.5°	368.7	368.7	368.1	367.0	366.4	368.1	366.4	369.3
20°	360.6	361.8	365.2	359.5	361.2	359.5	359.5	356.0
22.5°	350.8	356.6	353.7	353.1	352.5	353.1	354.3	350.2
25°	344.4	344.4	345.6	342.1	342.1	343.3	342.7	341.5
27.5°	335.8	335.2	334.6	333.5	336.3	334.0	334.0	334.0
30°	323.6	325.4	324.8	321.9	325.4	324.2	322.5	319.0
32.5°	313.2	315.6	312.1	311.5	310.9	311.5	312.1	309.2
35°	300.5	301.1	301.1	298.8	299.4	298.8	297.6	298.2
37.5°	288.9	288.4	285.5	284.3	284.9	284.9	285.5	284.3
40°	272.8	274.5	274.5	270.5	271.6	270.5	270.5	269.9
42.5°	259.5	260.1	258.3	256.6	256.6	256.0	254.9	256.0
45°	245.6	245.0	243.3	241.6	241.6	241.0	239.8	242.1
47.5°	230.0	228.9	228.3	226.0	226.0	222.5	223.1	225.4
50°	214.4	213.2	211.0	209.8	208.0	206.3	205.7	205.7
52.5°	195.9	195.9	193.6	191.3	190.7	189.5	188.4	189.0
55°	179.7	179.7	178.0	174.0	171.6	168.8	167.0	166.4
57.5°	161.2	160.1	156.6	152.0	149.7	147.4	145.6	145.6
60°	142.7	139.9	136.4	132.3	128.3	124.3	123.1	122.5
62.5°	122.5	119.6	113.3	108.6	105.8	103.4	101.1	102.9
65°	102.3	98.2	92.5	87.8	84.9	81.5	79.7	79.7
67.5°	80.9	76.9	71.1	66.5	63.6	61.3	59.0	59.0
70°	59.5	56.6	51.4	47.4	45.1	41.6	41.0	41.0
72.5°	40.5	37.0	32.9	30.1	27.7	25.4	24.3	23.7
75°	22.5	20.2	17.3	15.6	13.3	12.1	11.0	11.0
77.5°	9.2	7.5	5.8	4.6	3.5	2.9	2.3	2.9
80°	1.7	1.2	0.6	0.6	0.6	0.6	0.6	0.6
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)