

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: P840536

Luminaire Tested: **LD6C10D010 EU6109040 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: P840536
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 EU6109040 6LBCSSQMMS
Description: 6 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LBCSSQ TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

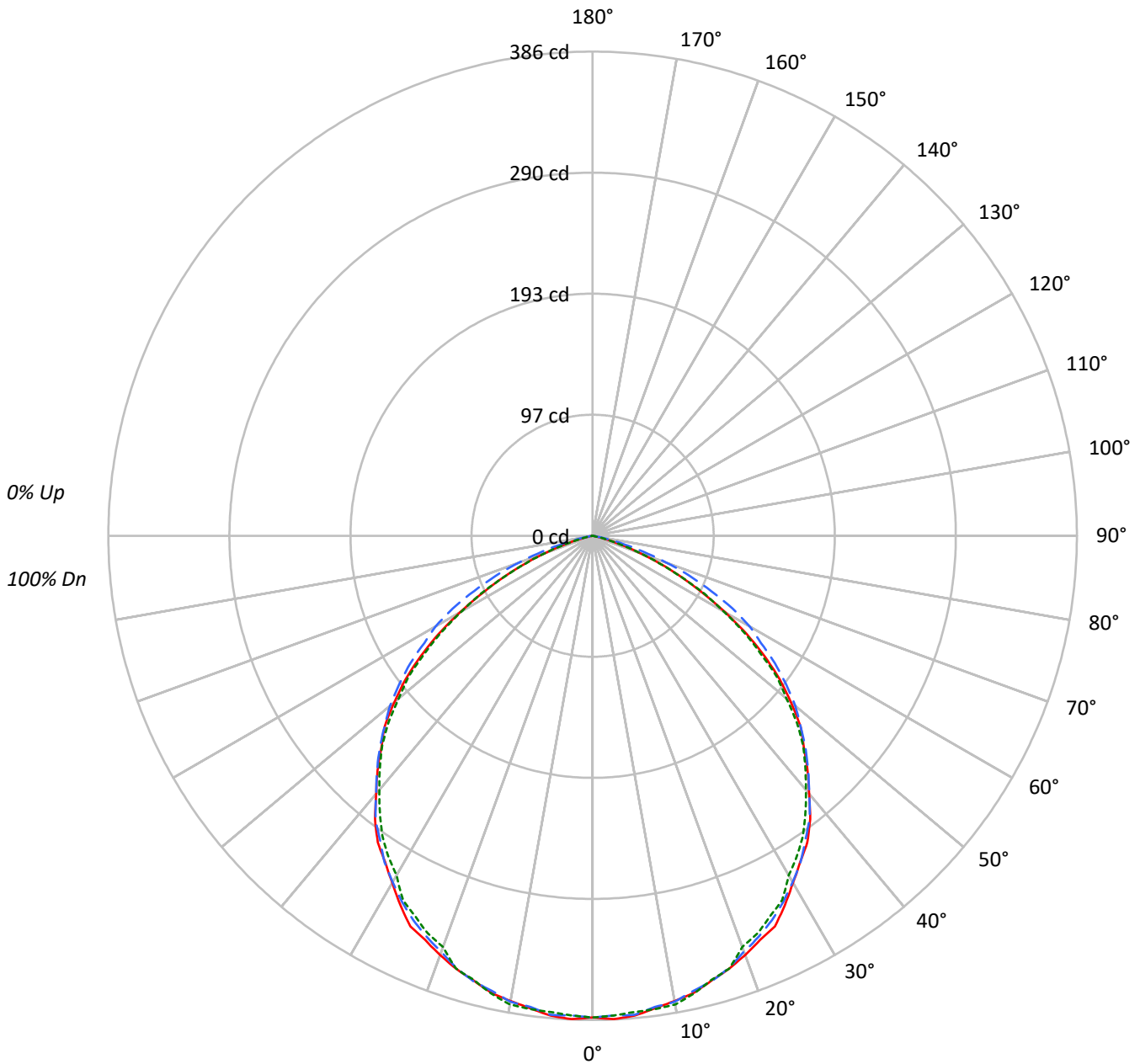
Lumens per Lamp: N/A
Luminaire Lumens: 927.0 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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				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°	16533	16533	16533
5°	16597	16571	16471
10°	16465	16491	16587
15°	16359	16381	16332
20°	16293	16165	15982
25°	16328	16062	15900
30°	15879	15850	15541
35°	15684	15537	15358
40°	15085	15085	14866
45°	14486	14620	14449
50°	13805	14113	13504
55°	12543	13309	12243
60°	10488	12434	10342
65°	8018	10616	7957
70°	4998	7843	5061
75°	1880	4242	1797
80°	149	694	149
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.3	3.9
10°-20°	103.6	11.2
20°-30°	155.8	16.8
30°-40°	184.3	19.9
40°-50°	184.0	19.8
50°-60°	152.5	16.5
60°-70°	89.1	9.6
70°-80°	21.2	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°	295.7	31.9
0°-40°	480.0	51.8
0°-60°	816.5	88.1
0°-90°	927.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	927.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	384	384	384	384	384	
5°	384	382	383	382	381	36
15°	367	367	368	366	366	104
25°	344	340	338	337	335	157
35°	298	296	296	294	292	186
45°	238	238	240	238	237	184
55°	167	173	177	172	163	148
65°	79	89	104	88	78	78
75°	11	16	26	16	11	15
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°	384.0	384.0	384.0	384.0	384.0	384.0	384.0	384.0	384.0	384.0	384.0
2.5°	385.7	383.4	385.1	381.7	384.0	381.7	382.3	381.1	383.4	382.8	382.3
5°	384.0	384.5	383.4	384.5	382.8	381.1	382.8	381.7	378.3	383.4	382.3
7.5°	380.0	380.6	379.4	381.1	380.0	377.7	382.3	378.9	378.3	378.9	381.1
10°	376.6	377.7	377.2	376.6	377.2	377.2	376.0	374.3	376.0	377.2	376.6
12.5°	373.2	374.9	373.8	372.6	371.5	372.1	373.2	370.4	370.4	371.5	374.9
15°	367.0	368.1	368.7	366.4	366.4	367.0	369.2	364.7	367.0	367.5	368.1
17.5°	361.9	362.4	362.4	360.7	361.9	360.2	361.9	359.6	361.9	361.3	362.4
20°	355.6	356.8	355.6	355.6	354.5	355.1	355.1	355.1	353.4	352.8	353.9
22.5°	348.8	348.8	347.7	348.8	347.7	347.2	350.0	345.5	350.0	346.0	349.4
25°	343.7	340.9	339.2	338.6	340.9	338.6	339.8	338.1	339.2	338.1	338.6
27.5°	331.9	330.2	329.6	330.2	330.2	329.6	331.9	325.6	329.6	329.0	329.0
30°	319.4	319.4	320.5	319.4	320.5	318.8	321.1	316.0	319.4	318.8	319.4
32.5°	308.1	308.6	308.6	309.8	308.1	308.6	308.6	306.9	308.1	308.6	307.5
35°	298.4	295.6	295.6	295.6	295.6	295.6	296.7	295.1	296.7	295.6	295.6
37.5°	284.9	282.0	282.0	281.5	284.3	282.6	285.4	283.1	283.1	284.3	284.3
40°	268.4	269.6	267.9	270.1	269.6	267.3	272.4	269.0	271.3	268.4	270.7
42.5°	253.7	254.3	253.7	253.1	255.4	254.8	257.1	254.8	254.3	254.3	258.2
45°	237.9	237.9	237.9	239.6	237.9	238.4	240.7	239.6	240.7	240.1	244.1
47.5°	224.8	222.0	221.4	224.8	224.3	224.8	224.8	225.4	225.9	224.8	226.5
50°	206.1	205.0	205.0	205.6	206.1	207.3	209.0	210.1	209.0	210.7	211.2
52.5°	188.0	186.9	187.5	189.7	190.8	190.3	193.1	193.7	193.1	194.2	194.2
55°	167.1	165.9	167.6	170.5	172.2	173.9	176.7	174.4	176.7	177.3	177.8
57.5°	145.5	145.0	145.5	148.4	150.1	154.0	158.6	158.6	160.8	159.1	160.8
60°	121.8	121.8	124.0	125.7	130.3	133.1	137.6	139.9	142.2	144.4	143.3
62.5°	99.1	99.7	101.4	105.3	108.2	112.1	117.2	119.5	123.4	125.7	124.6
65°	78.7	78.7	79.9	83.2	86.1	91.2	95.7	100.8	103.1	104.2	104.8
67.5°	58.9	58.3	60.6	62.9	65.7	70.8	75.9	78.7	82.7	83.8	83.2
70°	39.7	40.2	41.3	43.6	47.0	51.0	56.6	58.9	61.2	62.3	61.2
72.5°	24.9	24.9	25.5	27.7	30.0	32.8	36.8	39.1	41.9	42.5	41.3
75°	11.3	11.3	12.5	13.6	15.3	17.6	20.4	22.1	23.8	25.5	25.5
77.5°	2.3	2.8	3.4	3.4	4.5	6.2	7.9	9.6	11.3	11.3	11.3
80°	0.6	0.6	0.6	0.6	0.6	0.6	1.1	1.7	2.8	2.8	2.8
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°	384.0	384.0	384.0	384.0	384.0	384.0	384.0	384.0
2.5°	384.0	387.4	384.0	382.3	384.5	384.0	382.3	382.8
5°	382.3	383.4	384.5	380.0	382.8	383.4	382.3	381.1
7.5°	380.6	381.1	380.6	379.4	379.4	379.4	380.6	380.6
10°	380.0	378.3	375.5	373.8	375.5	375.5	374.9	379.4
12.5°	372.6	374.9	373.2	369.8	373.2	372.6	372.6	373.8
15°	367.0	367.0	368.1	363.6	365.8	365.3	365.3	366.4
17.5°	361.3	361.3	360.7	359.6	359.0	360.7	359.0	361.9
20°	353.4	354.5	357.9	352.2	353.9	352.2	352.2	348.8
22.5°	343.7	349.4	346.6	346.0	345.5	346.0	347.2	343.2
25°	337.5	337.5	338.6	335.3	335.3	336.4	335.8	334.7
27.5°	329.0	328.4	327.9	326.8	329.6	327.3	327.3	327.3
30°	317.1	318.8	318.3	315.4	318.8	317.7	316.0	312.6
32.5°	306.9	309.2	305.8	305.3	304.7	305.3	305.8	303.0
35°	294.5	295.1	295.1	292.8	293.3	292.8	291.6	292.2
37.5°	283.1	282.6	279.8	278.6	279.2	279.2	279.8	278.6
40°	267.3	269.0	269.0	265.0	266.2	265.0	265.0	264.5
42.5°	254.3	254.8	253.1	251.4	251.4	250.9	249.7	250.9
45°	240.7	240.1	238.4	236.7	236.7	236.1	235.0	237.3
47.5°	225.4	224.3	223.7	221.4	221.4	218.0	218.6	220.9
50°	210.1	209.0	206.7	205.6	203.9	202.2	201.6	201.6
52.5°	192.0	192.0	189.7	187.5	186.9	185.7	184.6	185.2
55°	176.1	176.1	174.4	170.5	168.2	165.4	163.7	163.1
57.5°	158.0	156.9	153.5	148.9	146.7	144.4	142.7	142.7
60°	139.9	137.1	133.6	129.7	125.7	121.8	120.6	120.1
62.5°	120.1	117.2	111.0	106.5	103.6	101.4	99.1	100.8
65°	100.2	96.3	90.6	86.1	83.2	79.9	78.1	78.1
67.5°	79.3	75.3	69.7	65.1	62.3	60.0	57.8	57.8
70°	58.3	55.5	50.4	46.4	44.2	40.8	40.2	40.2
72.5°	39.7	36.2	32.3	29.5	27.2	24.9	23.8	23.2
75°	22.1	19.8	17.0	15.3	13.0	11.9	10.8	10.8
77.5°	9.1	7.4	5.7	4.5	3.4	2.8	2.3	2.8
80°	1.7	1.1	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)