

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: P840472

Luminaire Tested: **LD6C05D010 EU6059030 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: P840472
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: LD6C05D010 EU6059030 6LBCSSQMW
Description: 6 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND 6LBCSSQ TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

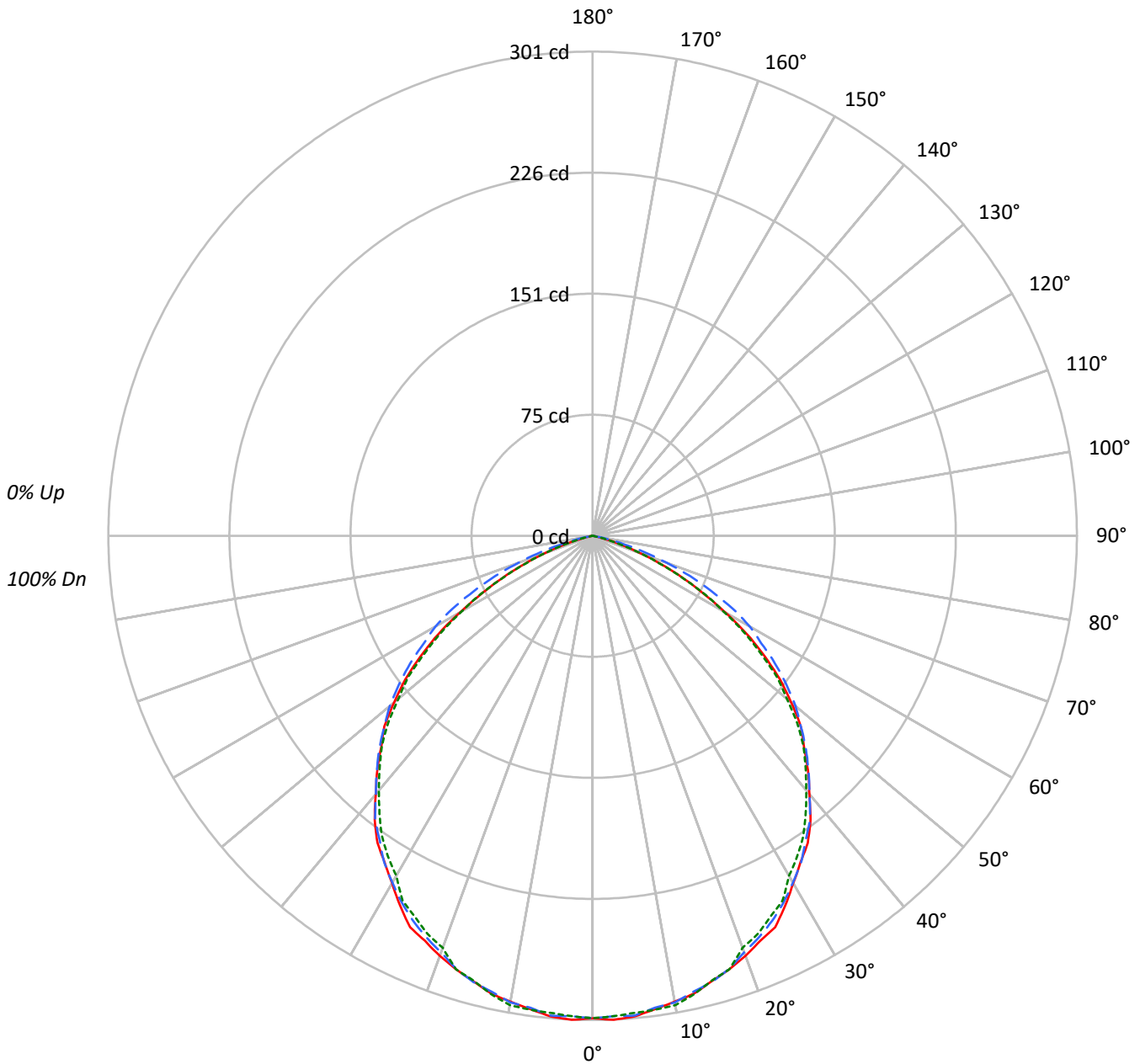
Lumens per Lamp: N/A
Luminaire Lumens: 724.0 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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°	12912	12912	12912
5°	12962	12940	12867
10°	12858	12880	12954
15°	12775	12797	12757
20°	12728	12623	12486
25°	12756	12547	12418
30°	12399	12379	12136
35°	12252	12136	11994
40°	11781	11781	11612
45°	11313	11417	11283
50°	10784	11019	10550
55°	9796	10389	9563
60°	8189	9713	8077
65°	6266	8293	6215
70°	3902	6131	3953
75°	1481	3310	1397
80°	99	545	99
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.4	3.9
10°-20°	80.9	11.2
20°-30°	121.7	16.8
30°-40°	144.0	19.9
40°-50°	143.7	19.8
50°-60°	119.1	16.5
60°-70°	69.6	9.6
70°-80°	16.6	2.3
80°-90°	0.1	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°	230.9	31.9
0°-40°	374.9	51.8
0°-60°	637.7	88.1
0°-90°	724.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	724.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	300	300	300	300	300	
5°	300	298	299	299	298	28
15°	287	286	287	286	286	81
25°	268	265	264	263	261	123
35°	233	231	231	230	228	145
45°	186	186	188	186	185	144
55°	130	135	138	135	127	116
65°	62	69	81	69	61	61
75°	9	13	20	13	8	12
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°	299.9	299.9	299.9	299.9	299.9	299.9	299.9	299.9	299.9	299.9	299.9
2.5°	301.2	299.4	300.8	298.1	299.9	298.1	298.6	297.7	299.4	299.0	298.6
5°	299.9	300.3	299.4	300.3	299.0	297.7	299.0	298.1	295.5	299.4	298.6
7.5°	296.8	297.2	296.3	297.7	296.8	295.0	298.6	295.9	295.5	295.9	297.7
10°	294.1	295.0	294.6	294.1	294.6	294.6	293.7	292.4	293.7	294.6	294.1
12.5°	291.5	292.8	291.9	291.0	290.2	290.6	291.5	289.3	289.3	290.2	292.8
15°	286.6	287.5	287.9	286.2	286.2	286.6	288.4	284.8	286.6	287.1	287.5
17.5°	282.6	283.1	283.1	281.7	282.6	281.3	282.6	280.8	282.6	282.2	283.1
20°	277.8	278.6	277.8	277.8	276.9	277.3	277.3	277.3	276.0	275.5	276.4
22.5°	272.5	272.5	271.6	272.5	271.6	271.1	273.3	269.8	273.3	270.2	272.9
25°	268.5	266.3	264.9	264.5	266.3	264.5	265.4	264.1	264.9	264.1	264.5
27.5°	259.2	257.9	257.4	257.9	257.9	257.4	259.2	254.3	257.4	257.0	257.0
30°	249.4	249.4	250.3	249.4	250.3	249.0	250.8	246.8	249.4	249.0	249.4
32.5°	240.6	241.0	241.0	241.9	240.6	241.0	241.0	239.7	240.6	241.0	240.2
35°	233.1	230.9	230.9	230.9	230.9	230.9	231.8	230.4	231.8	230.9	230.9
37.5°	222.5	220.3	220.3	219.8	222.0	220.7	222.9	221.1	221.1	222.0	222.0
40°	209.6	210.5	209.2	211.0	210.5	208.8	212.7	210.1	211.9	209.6	211.4
42.5°	198.2	198.6	198.2	197.7	199.5	199.0	200.8	199.0	198.6	198.6	201.7
45°	185.8	185.8	185.8	187.1	185.8	186.2	188.0	187.1	188.0	187.5	190.6
47.5°	175.6	173.4	172.9	175.6	175.1	175.6	175.6	176.0	176.5	175.6	176.9
50°	161.0	160.1	160.1	160.6	161.0	161.9	163.2	164.1	163.2	164.5	165.0
52.5°	146.8	146.0	146.4	148.2	149.0	148.6	150.8	151.3	150.8	151.7	151.7
55°	130.5	129.6	130.9	133.1	134.5	135.8	138.0	136.2	138.0	138.4	138.9
57.5°	113.7	113.2	113.7	115.9	117.2	120.3	123.8	123.8	125.6	124.3	125.6
60°	95.1	95.1	96.9	98.2	101.7	103.9	107.5	109.2	111.0	112.8	111.9
62.5°	77.4	77.8	79.2	82.3	84.5	87.6	91.5	93.3	96.4	98.2	97.3
65°	61.5	61.5	62.4	65.0	67.2	71.2	74.8	78.7	80.5	81.4	81.8
67.5°	46.0	45.6	47.3	49.1	51.3	55.3	59.3	61.5	64.6	65.5	65.0
70°	31.0	31.4	32.3	34.1	36.7	39.8	44.2	46.0	47.8	48.7	47.8
72.5°	19.5	19.5	19.9	21.7	23.4	25.6	28.7	30.5	32.7	33.2	32.3
75°	8.9	8.9	9.7	10.6	11.9	13.7	15.9	17.2	18.6	19.9	19.9
77.5°	1.8	2.2	2.7	2.7	3.5	4.9	6.2	7.5	8.9	8.9	8.9
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.9	1.3	2.2	2.2	2.2
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°	299.9	299.9	299.9	299.9	299.9	299.9	299.9	299.9
2.5°	299.9	302.5	299.9	298.6	300.3	299.9	298.6	299.0
5°	298.6	299.4	300.3	296.8	299.0	299.4	298.6	297.7
7.5°	297.2	297.7	297.2	296.3	296.3	296.3	297.2	297.2
10°	296.8	295.5	293.2	291.9	293.2	293.2	292.8	296.3
12.5°	291.0	292.8	291.5	288.8	291.5	291.0	291.0	291.9
15°	286.6	286.6	287.5	284.0	285.7	285.3	285.3	286.2
17.5°	282.2	282.2	281.7	280.8	280.4	281.7	280.4	282.6
20°	276.0	276.9	279.5	275.1	276.4	275.1	275.1	272.5
22.5°	268.5	272.9	270.7	270.2	269.8	270.2	271.1	268.0
25°	263.6	263.6	264.5	261.8	261.8	262.7	262.3	261.4
27.5°	257.0	256.5	256.1	255.2	257.4	255.7	255.7	255.7
30°	247.7	249.0	248.6	246.4	249.0	248.1	246.8	244.1
32.5°	239.7	241.5	238.8	238.4	238.0	238.4	238.8	236.6
35°	230.0	230.4	230.4	228.7	229.1	228.7	227.8	228.2
37.5°	221.1	220.7	218.5	217.6	218.0	218.0	218.5	217.6
40°	208.8	210.1	210.1	207.0	207.9	207.0	207.0	206.6
42.5°	198.6	199.0	197.7	196.4	196.4	195.9	195.1	195.9
45°	188.0	187.5	186.2	184.9	184.9	184.4	183.5	185.3
47.5°	176.0	175.1	174.7	172.9	172.9	170.3	170.7	172.5
50°	164.1	163.2	161.4	160.6	159.2	157.9	157.5	157.5
52.5°	149.9	149.9	148.2	146.4	146.0	145.1	144.2	144.6
55°	137.6	137.6	136.2	133.1	131.4	129.2	127.8	127.4
57.5°	123.4	122.5	119.9	116.3	114.6	112.8	111.5	111.5
60°	109.2	107.0	104.4	101.3	98.2	95.1	94.2	93.8
62.5°	93.8	91.5	86.7	83.1	80.9	79.2	77.4	78.7
65°	78.3	75.2	70.8	67.2	65.0	62.4	61.0	61.0
67.5°	61.9	58.8	54.4	50.9	48.7	46.9	45.1	45.1
70°	45.6	43.3	39.4	36.3	34.5	31.8	31.4	31.4
72.5°	31.0	28.3	25.2	23.0	21.2	19.5	18.6	18.1
75°	17.2	15.5	13.3	11.9	10.2	9.3	8.4	8.4
77.5°	7.1	5.8	4.4	3.5	2.7	2.2	1.8	2.2
80°	1.3	0.9	0.4	0.4	0.4	0.4	0.4	0.4
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)