

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: P840471

Luminaire Tested: **LD6C05D010 EU6059030 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: P840471
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 6LBCSSQMMS
Description: 6 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND 6LBCSSQ TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

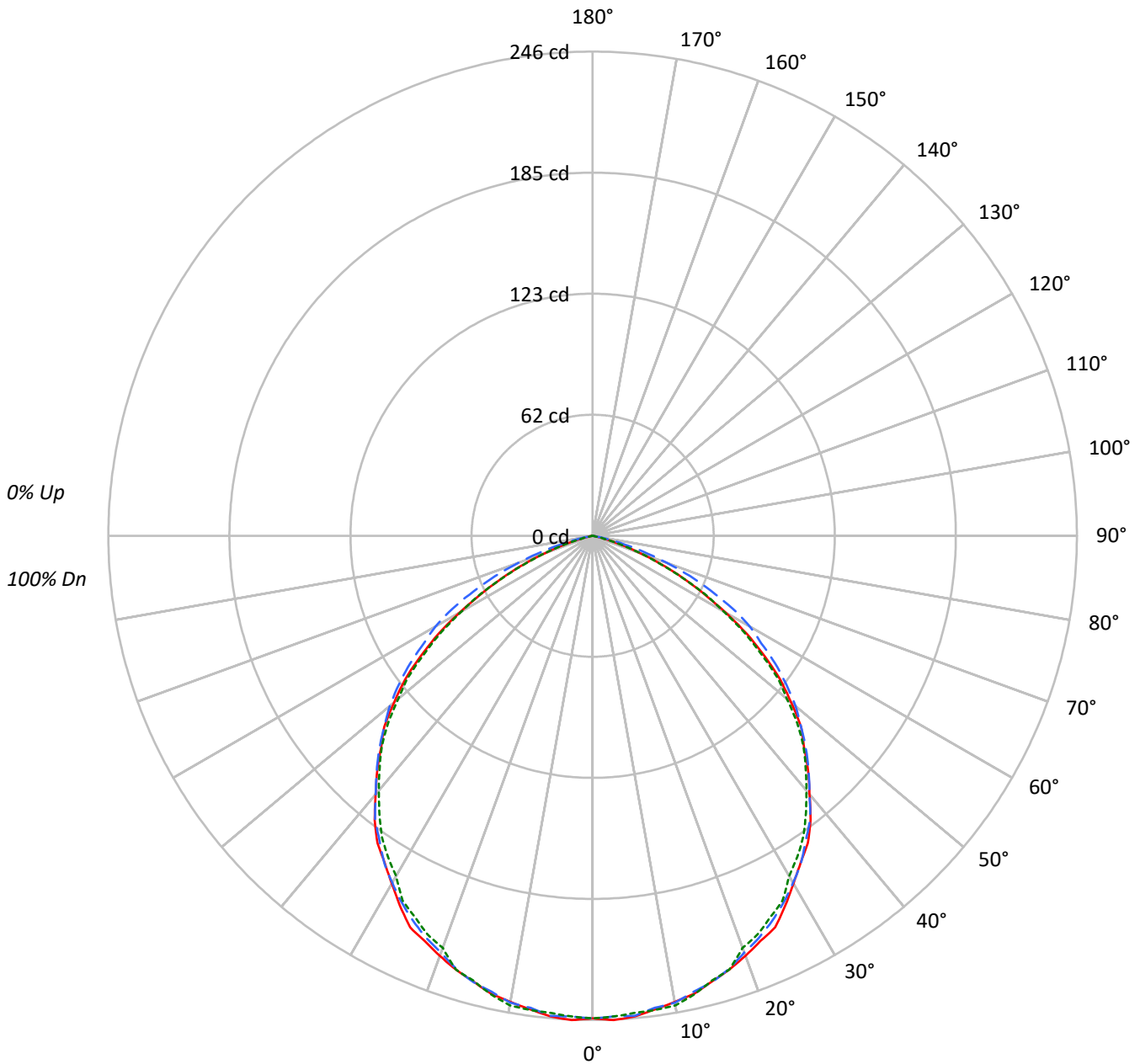
Lumens per Lamp: N/A
Luminaire Lumens: 592.0 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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				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°	10557	10557	10557
5°	10598	10580	10520
10°	10515	10532	10593
15°	10448	10462	10430
20°	10405	10323	10208
25°	10428	10257	10152
30°	10142	10122	9923
35°	10018	9924	9808
40°	9634	9634	9493
45°	9249	9334	9225
50°	8815	9009	8627
55°	8009	8497	7822
60°	6699	7939	6605
65°	5124	6775	5084
70°	3185	5010	3235
75°	1198	2712	1148
80°	99	446	99
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.2	3.9
10°-20°	66.1	11.2
20°-30°	99.5	16.8
30°-40°	117.7	19.9
40°-50°	117.5	19.8
50°-60°	97.4	16.5
60°-70°	56.9	9.6
70°-80°	13.6	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°	188.8	31.9
0°-40°	306.5	51.8
0°-60°	521.4	88.1
0°-90°	592.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	592.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	245	245	245	245	245	
5°	245	244	245	244	243	23
15°	234	234	235	234	234	66
25°	220	217	216	215	214	100
35°	191	189	189	188	187	118
45°	152	152	153	152	152	118
55°	107	110	113	110	104	95
65°	50	57	66	56	50	50
75°	7	10	16	10	7	10
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°	245.2	245.2	245.2	245.2	245.2	245.2	245.2	245.2	245.2	245.2	245.2
2.5°	246.3	244.8	245.9	243.8	245.2	243.8	244.1	243.4	244.8	244.5	244.1
5°	245.2	245.6	244.8	245.6	244.5	243.4	244.5	243.8	241.6	244.8	244.1
7.5°	242.7	243.0	242.3	243.4	242.7	241.2	244.1	241.9	241.6	241.9	243.4
10°	240.5	241.2	240.9	240.5	240.9	240.9	240.1	239.1	240.1	240.9	240.5
12.5°	238.3	239.4	238.7	238.0	237.3	237.6	238.3	236.5	236.5	237.3	239.4
15°	234.4	235.1	235.4	234.0	234.0	234.4	235.8	232.9	234.4	234.7	235.1
17.5°	231.1	231.5	231.5	230.4	231.1	230.0	231.1	229.6	231.1	230.7	231.5
20°	227.1	227.8	227.1	227.1	226.4	226.8	226.8	226.8	225.7	225.3	226.0
22.5°	222.8	222.8	222.1	222.8	222.1	221.7	223.5	220.6	223.5	221.0	223.1
25°	219.5	217.7	216.6	216.3	217.7	216.3	217.0	215.9	216.6	215.9	216.3
27.5°	211.9	210.8	210.5	210.8	210.8	210.5	211.9	207.9	210.5	210.1	210.1
30°	204.0	204.0	204.7	204.0	204.7	203.6	205.1	201.8	204.0	203.6	204.0
32.5°	196.7	197.1	197.1	197.8	196.7	197.1	197.1	196.0	196.7	197.1	196.4
35°	190.6	188.8	188.8	188.8	188.8	188.8	189.5	188.4	189.5	188.8	188.8
37.5°	181.9	180.1	180.1	179.7	181.5	180.5	182.3	180.8	180.8	181.5	181.5
40°	171.4	172.1	171.1	172.5	172.1	170.7	174.0	171.8	173.2	171.4	172.9
42.5°	162.0	162.4	162.0	161.7	163.1	162.8	164.2	162.8	162.4	162.4	164.9
45°	151.9	151.9	151.9	153.0	151.9	152.3	153.7	153.0	153.7	153.3	155.9
47.5°	143.6	141.8	141.4	143.6	143.2	143.6	143.6	143.9	144.3	143.6	144.7
50°	131.6	130.9	130.9	131.3	131.6	132.4	133.4	134.2	133.4	134.5	134.9
52.5°	120.1	119.3	119.7	121.1	121.9	121.5	123.3	123.7	123.3	124.0	124.0
55°	106.7	106.0	107.0	108.9	109.9	111.0	112.8	111.4	112.8	113.2	113.6
57.5°	92.9	92.6	92.9	94.7	95.8	98.4	101.3	101.3	102.7	101.6	102.7
60°	77.8	77.8	79.2	80.3	83.2	85.0	87.9	89.3	90.8	92.2	91.5
62.5°	63.3	63.7	64.7	67.3	69.1	71.6	74.9	76.3	78.8	80.3	79.6
65°	50.3	50.3	51.0	53.2	55.0	58.2	61.1	64.4	65.8	66.5	66.9
67.5°	37.6	37.3	38.7	40.2	42.0	45.2	48.5	50.3	52.8	53.5	53.2
70°	25.3	25.7	26.4	27.9	30.0	32.5	36.2	37.6	39.1	39.8	39.1
72.5°	15.9	15.9	16.3	17.7	19.2	21.0	23.5	25.0	26.8	27.1	26.4
75°	7.2	7.2	8.0	8.7	9.8	11.2	13.0	14.1	15.2	16.3	16.3
77.5°	1.5	1.8	2.2	2.2	2.9	4.0	5.1	6.1	7.2	7.2	7.2
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.7	1.1	1.8	1.8	1.8
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°	245.2	245.2	245.2	245.2	245.2	245.2	245.2	245.2
2.5°	245.2	247.4	245.2	244.1	245.6	245.2	244.1	244.5
5°	244.1	244.8	245.6	242.7	244.5	244.8	244.1	243.4
7.5°	243.0	243.4	243.0	242.3	242.3	242.3	243.0	243.0
10°	242.7	241.6	239.8	238.7	239.8	239.8	239.4	242.3
12.5°	238.0	239.4	238.3	236.2	238.3	238.0	238.0	238.7
15°	234.4	234.4	235.1	232.2	233.6	233.3	233.3	234.0
17.5°	230.7	230.7	230.4	229.6	229.3	230.4	229.3	231.1
20°	225.7	226.4	228.6	225.0	226.0	225.0	225.0	222.8
22.5°	219.5	223.1	221.3	221.0	220.6	221.0	221.7	219.2
25°	215.5	215.5	216.3	214.1	214.1	214.8	214.5	213.7
27.5°	210.1	209.8	209.4	208.7	210.5	209.0	209.0	209.0
30°	202.5	203.6	203.3	201.4	203.6	202.9	201.8	199.6
32.5°	196.0	197.5	195.3	194.9	194.6	194.9	195.3	193.5
35°	188.1	188.4	188.4	187.0	187.3	187.0	186.3	186.6
37.5°	180.8	180.5	178.7	177.9	178.3	178.3	178.7	177.9
40°	170.7	171.8	171.8	169.3	170.0	169.3	169.3	168.9
42.5°	162.4	162.8	161.7	160.6	160.6	160.2	159.5	160.2
45°	153.7	153.3	152.3	151.2	151.2	150.8	150.1	151.5
47.5°	143.9	143.2	142.9	141.4	141.4	139.2	139.6	141.0
50°	134.2	133.4	132.0	131.3	130.2	129.1	128.8	128.8
52.5°	122.6	122.6	121.1	119.7	119.3	118.6	117.9	118.3
55°	112.5	112.5	111.4	108.9	107.4	105.6	104.5	104.2
57.5°	100.9	100.2	98.0	95.1	93.7	92.2	91.1	91.1
60°	89.3	87.5	85.3	82.8	80.3	77.8	77.0	76.7
62.5°	76.7	74.9	70.9	68.0	66.2	64.7	63.3	64.4
65°	64.0	61.5	57.9	55.0	53.2	51.0	49.9	49.9
67.5°	50.6	48.1	44.5	41.6	39.8	38.3	36.9	36.9
70°	37.3	35.4	32.2	29.7	28.2	26.0	25.7	25.7
72.5°	25.3	23.1	20.6	18.8	17.4	15.9	15.2	14.8
75°	14.1	12.7	10.8	9.8	8.3	7.6	6.9	6.9
77.5°	5.8	4.7	3.6	2.9	2.2	1.8	1.5	1.8
80°	1.1	0.7	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)