

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: P840481

Luminaire Tested: **LD6C05D010 EU6059050 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: P840481
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 EU6059050 6LBCSSQMW
Description: 6 INCH 500 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

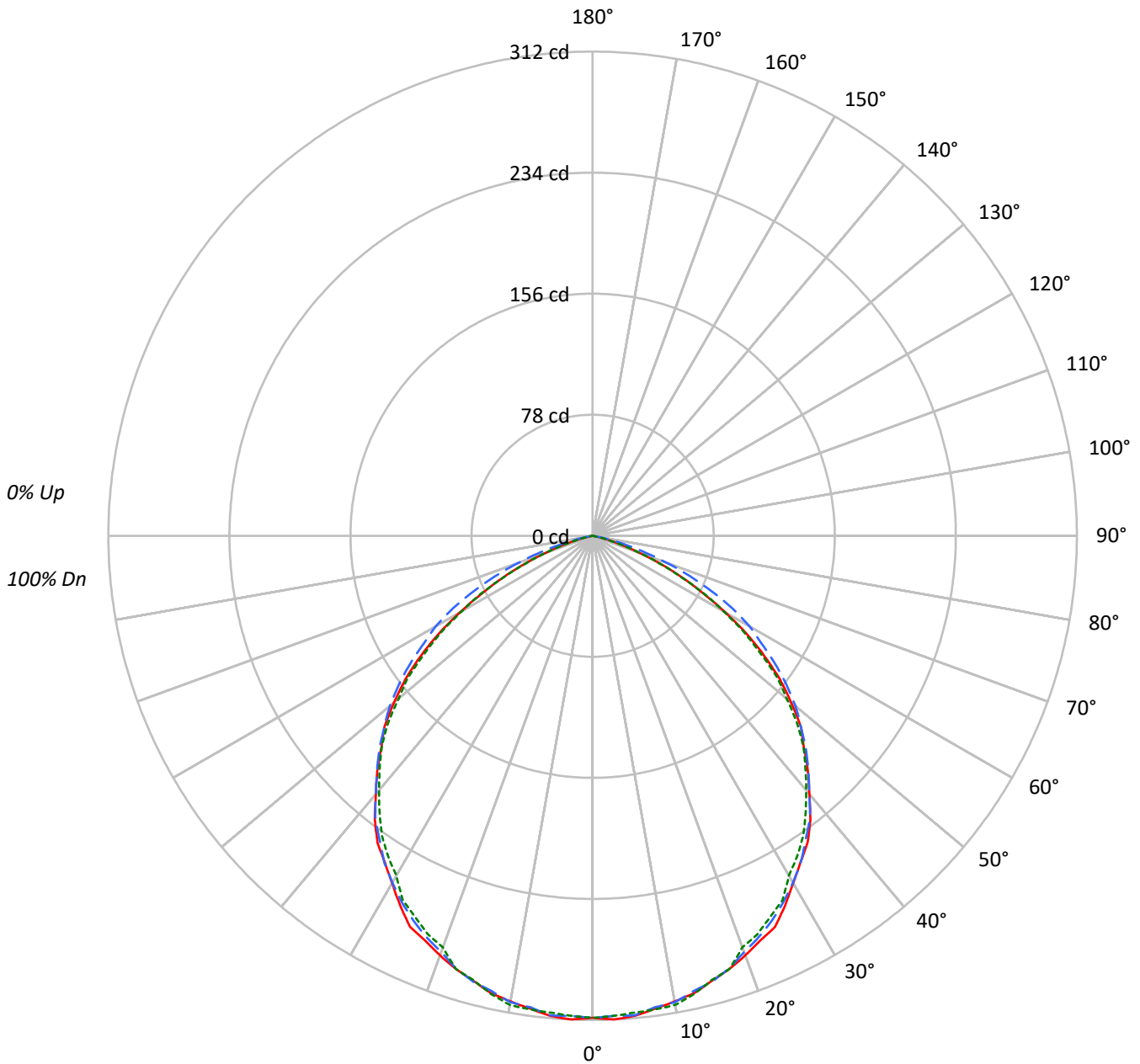
Lumens per Lamp: N/A
Luminaire Lumens: 750.0 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P840481

CATALOG NUMBER: LD6C05D010 EU6059050 6LBCSSQMW

Luminous Intensity Polar Plot





TEST NUMBER: P840481

CATALOG NUMBER: LD6C05D010 EU6059050 6LBCSSQMW

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°	13373	13373	13373
5°	13424	13407	13329
10°	13321	13339	13422
15°	13234	13256	13212
20°	13182	13077	12930
25°	13212	12993	12865
30°	12847	12827	12573
35°	12694	12573	12425
40°	12208	12208	12028
45°	11715	11831	11691
50°	11173	11421	10925
55°	10149	10764	9909
60°	8482	10058	8361
65°	6490	8588	6439
70°	4041	6345	4091
75°	1530	3427	1447
80°	124	570	124
85°	0	0	0



TEST NUMBER: P840481

CATALOG NUMBER: LD6C05D010 EU6059050 6LBCSSQMW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.4	3.9
10°-20°	83.8	11.2
20°-30°	126.1	16.8
30°-40°	149.1	19.9
40°-50°	148.8	19.8
50°-60°	123.4	16.5
60°-70°	72.1	9.6
70°-80°	17.2	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°	239.2	31.9
0°-40°	388.4	51.8
0°-60°	660.6	88.1
0°-90°	750.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	750.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	311	311	311	311	311	
5°	311	309	310	309	308	29
15°	297	297	297	296	296	84
25°	278	275	274	273	271	127
35°	242	239	239	238	236	150
45°	192	193	194	192	192	149
55°	135	140	143	140	132	120
65°	64	72	84	71	63	63
75°	9	13	21	13	9	12
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P840481

CATALOG NUMBER: LD6C05D010 EU6059050 6LBCSSQMW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	310.6	310.6	310.6	310.6	310.6	310.6	310.6	310.6	310.6	310.6	310.6
2.5°	312.0	310.2	311.6	308.8	310.6	308.8	309.3	308.4	310.2	309.7	309.3
5°	310.6	311.1	310.2	311.1	309.7	308.4	309.7	308.8	306.1	310.2	309.3
7.5°	307.4	307.9	307.0	308.4	307.4	305.6	309.3	306.5	306.1	306.5	308.4
10°	304.7	305.6	305.1	304.7	305.1	305.1	304.2	302.9	304.2	305.1	304.7
12.5°	301.9	303.3	302.4	301.5	300.6	301.0	301.9	299.7	299.7	300.6	303.3
15°	296.9	297.8	298.3	296.4	296.4	296.9	298.7	295.1	296.9	297.4	297.8
17.5°	292.8	293.2	293.2	291.9	292.8	291.4	292.8	290.9	292.8	292.3	293.2
20°	287.7	288.6	287.7	287.7	286.8	287.3	287.3	287.3	285.9	285.4	286.4
22.5°	282.2	282.2	281.3	282.2	281.3	280.9	283.2	279.5	283.2	279.9	282.7
25°	278.1	275.8	274.5	274.0	275.8	274.0	274.9	273.5	274.5	273.5	274.0
27.5°	268.5	267.1	266.7	267.1	267.1	266.7	268.5	263.4	266.7	266.2	266.2
30°	258.4	258.4	259.3	258.4	259.3	258.0	259.8	255.7	258.4	258.0	258.4
32.5°	249.3	249.7	249.7	250.6	249.3	249.7	249.7	248.3	249.3	249.7	248.8
35°	241.5	239.2	239.2	239.2	239.2	239.2	240.1	238.7	240.1	239.2	239.2
37.5°	230.5	228.2	228.2	227.7	230.0	228.6	230.9	229.1	229.1	230.0	230.0
40°	217.2	218.1	216.7	218.5	218.1	216.3	220.4	217.6	219.5	217.2	219.0
42.5°	205.3	205.7	205.3	204.8	206.6	206.2	208.0	206.2	205.7	205.7	208.9
45°	192.4	192.4	192.4	193.8	192.4	192.9	194.7	193.8	194.7	194.3	197.5
47.5°	181.9	179.6	179.2	181.9	181.4	181.9	181.9	182.4	182.8	181.9	183.3
50°	166.8	165.9	165.9	166.3	166.8	167.7	169.1	170.0	169.1	170.5	170.9
52.5°	152.1	151.2	151.7	153.5	154.4	154.0	156.2	156.7	156.2	157.2	157.2
55°	135.2	134.2	135.6	137.9	139.3	140.7	142.9	141.1	142.9	143.4	143.9
57.5°	117.7	117.3	117.7	120.0	121.4	124.6	128.3	128.3	130.1	128.8	130.1
60°	98.5	98.5	100.3	101.7	105.4	107.7	111.3	113.2	115.0	116.8	115.9
62.5°	80.2	80.6	82.0	85.2	87.5	90.7	94.8	96.7	99.9	101.7	100.8
65°	63.7	63.7	64.6	67.3	69.6	73.8	77.4	81.6	83.4	84.3	84.8
67.5°	47.6	47.2	49.0	50.9	53.2	57.3	61.4	63.7	66.9	67.8	67.3
70°	32.1	32.5	33.4	35.3	38.0	41.2	45.8	47.6	49.5	50.4	49.5
72.5°	20.2	20.2	20.6	22.4	24.3	26.6	29.8	31.6	33.9	34.4	33.4
75°	9.2	9.2	10.1	11.0	12.4	14.2	16.5	17.9	19.2	20.6	20.6
77.5°	1.8	2.3	2.8	2.8	3.7	5.0	6.4	7.8	9.2	9.2	9.2
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.9	1.4	2.3	2.3	2.3
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: P840481

CATALOG NUMBER: LD6C05D010 EU6059050 6LBCSSQMW

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	310.6	310.6	310.6	310.6	310.6	310.6	310.6	310.6
2.5°	310.6	313.4	310.6	309.3	311.1	310.6	309.3	309.7
5°	309.3	310.2	311.1	307.4	309.7	310.2	309.3	308.4
7.5°	307.9	308.4	307.9	307.0	307.0	307.0	307.9	307.9
10°	307.4	306.1	303.8	302.4	303.8	303.8	303.3	307.0
12.5°	301.5	303.3	301.9	299.2	301.9	301.5	301.5	302.4
15°	296.9	296.9	297.8	294.2	296.0	295.5	295.5	296.4
17.5°	292.3	292.3	291.9	290.9	290.5	291.9	290.5	292.8
20°	285.9	286.8	289.6	285.0	286.4	285.0	285.0	282.2
22.5°	278.1	282.7	280.4	279.9	279.5	279.9	280.9	277.7
25°	273.1	273.1	274.0	271.2	271.2	272.2	271.7	270.8
27.5°	266.2	265.7	265.3	264.4	266.7	264.8	264.8	264.8
30°	256.6	258.0	257.5	255.2	258.0	257.0	255.7	252.9
32.5°	248.3	250.2	247.4	247.0	246.5	247.0	247.4	245.1
35°	238.2	238.7	238.7	236.9	237.3	236.9	236.0	236.4
37.5°	229.1	228.6	226.3	225.4	225.9	225.9	226.3	225.4
40°	216.3	217.6	217.6	214.4	215.3	214.4	214.4	214.0
42.5°	205.7	206.2	204.8	203.4	203.4	203.0	202.1	203.0
45°	194.7	194.3	192.9	191.5	191.5	191.1	190.1	192.0
47.5°	182.4	181.4	181.0	179.2	179.2	176.4	176.9	178.7
50°	170.0	169.1	167.2	166.3	164.9	163.6	163.1	163.1
52.5°	155.3	155.3	153.5	151.7	151.2	150.3	149.4	149.8
55°	142.5	142.5	141.1	137.9	136.1	133.8	132.4	132.0
57.5°	127.8	126.9	124.2	120.5	118.7	116.8	115.5	115.5
60°	113.2	110.9	108.1	104.9	101.7	98.5	97.6	97.1
62.5°	97.1	94.8	89.8	86.1	83.8	82.0	80.2	81.6
65°	81.1	77.9	73.3	69.6	67.3	64.6	63.2	63.2
67.5°	64.1	60.9	56.4	52.7	50.4	48.6	46.7	46.7
70°	47.2	44.9	40.8	37.6	35.7	33.0	32.5	32.5
72.5°	32.1	29.3	26.1	23.8	22.0	20.2	19.2	18.8
75°	17.9	16.0	13.7	12.4	10.5	9.6	8.7	8.7
77.5°	7.3	6.0	4.6	3.7	2.8	2.3	1.8	2.3
80°	1.4	0.9	0.5	0.5	0.5	0.5	0.5	0.5
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)