

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: P840529

Luminaire Tested: **LD6C10D010 EU6109030 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: P840529  
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 EU6109030 6LBCSSQMW  
Description: 6 INCH 1000 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**

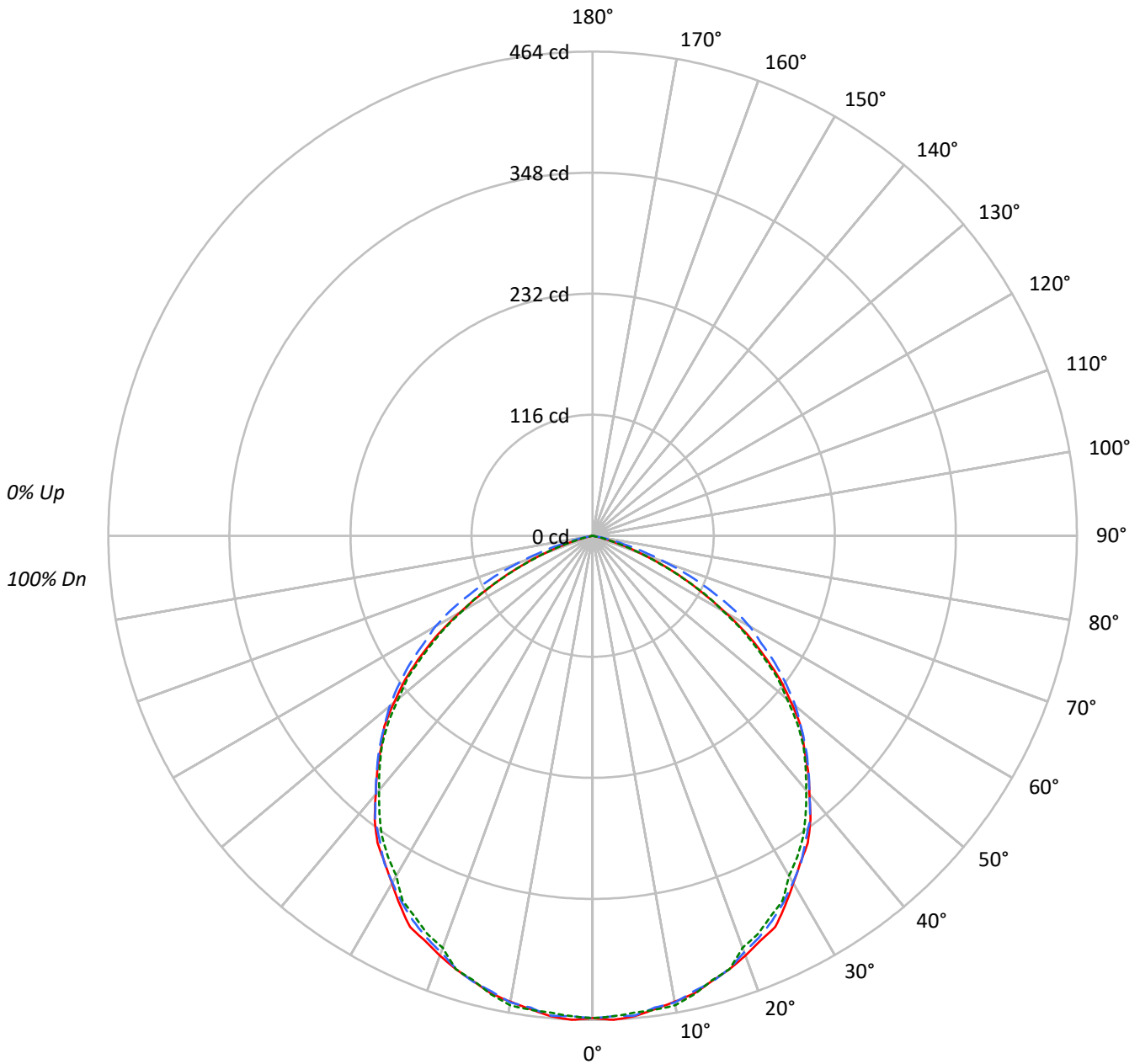
Lumens per Lamp: N/A  
Luminaire Lumens: 1116.0 lumens  
Efficiency: N/A  
Efficacy: 113.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.8  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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: P840529

CATALOG NUMBER: LD6C10D010 EU6109030 6LBCSSQMW

### 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°	19900	19900	19900
5°	19976	19950	19829
10°	19823	19853	19971
15°	19693	19724	19662
20°	19615	19459	19244
25°	19658	19335	19140
30°	19116	19081	18708
35°	18885	18707	18491
40°	18166	18166	17896
45°	17439	17603	17396
50°	16625	16987	16257
55°	15096	16019	14743
60°	12624	14966	12443
65°	9658	12776	9587
70°	6005	9441	6093
75°	2262	5107	2146
80°	174	843	174
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.7	3.9
10°-20°	124.7	11.2
20°-30°	187.6	16.8
30°-40°	221.9	19.9
40°-50°	221.5	19.8
50°-60°	183.6	16.5
60°-70°	107.3	9.6
70°-80°	25.5	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°	356.0	31.9
0°-40°	577.9	51.8
0°-60°	983.0	88.1
0°-90°	1116.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1116.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	462	462	462	462	462	
5°	462	460	462	460	459	44
15°	442	441	442	440	441	125
25°	414	409	407	406	403	189
35°	359	356	356	354	352	223
45°	286	287	289	286	286	222
55°	201	208	213	208	196	179
65°	95	107	125	106	94	94
75°	14	20	31	19	13	18
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P840529

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	462.2	462.2	462.2	462.2	462.2	462.2	462.2	462.2	462.2	462.2	462.2
2.5°	464.3	461.6	463.6	459.5	462.2	459.5	460.2	458.8	461.6	460.9	460.2
5°	462.2	462.9	461.6	462.9	460.9	458.8	460.9	459.5	455.4	461.6	460.2
7.5°	457.5	458.2	456.8	458.8	457.5	454.7	460.2	456.1	455.4	456.1	458.8
10°	453.4	454.7	454.1	453.4	454.1	454.1	452.7	450.7	452.7	454.1	453.4
12.5°	449.3	451.3	450.0	448.6	447.3	447.9	449.3	445.9	445.9	447.3	451.3
15°	441.8	443.1	443.8	441.1	441.1	441.8	444.5	439.0	441.8	442.5	443.1
17.5°	435.6	436.3	436.3	434.3	435.6	433.6	435.6	432.9	435.6	435.0	436.3
20°	428.1	429.5	428.1	428.1	426.8	427.5	427.5	427.5	425.4	424.7	426.1
22.5°	420.0	420.0	418.6	420.0	418.6	417.9	421.3	415.9	421.3	416.6	420.7
25°	413.8	410.4	408.4	407.7	410.4	407.7	409.1	407.0	408.4	407.0	407.7
27.5°	399.5	397.5	396.8	397.5	397.5	396.8	399.5	392.0	396.8	396.1	396.1
30°	384.5	384.5	385.9	384.5	385.9	383.8	386.6	380.4	384.5	383.8	384.5
32.5°	370.9	371.6	371.6	372.9	370.9	371.6	371.6	369.5	370.9	371.6	370.2
35°	359.3	355.9	355.9	355.9	355.9	355.9	357.2	355.2	357.2	355.9	355.9
37.5°	342.9	339.5	339.5	338.8	342.2	340.2	343.6	340.9	340.9	342.2	342.2
40°	323.2	324.5	322.5	325.2	324.5	321.8	327.9	323.9	326.6	323.2	325.9
42.5°	305.4	306.1	305.4	304.7	307.5	306.8	309.5	306.8	306.1	306.1	310.9
45°	286.4	286.4	286.4	288.4	286.4	287.0	289.8	288.4	289.8	289.1	293.8
47.5°	270.7	267.2	266.6	270.7	270.0	270.7	270.7	271.3	272.0	270.7	272.7
50°	248.2	246.8	246.8	247.5	248.2	249.5	251.6	252.9	251.6	253.6	254.3
52.5°	226.3	225.0	225.7	228.4	229.7	229.1	232.5	233.2	232.5	233.9	233.9
55°	201.1	199.8	201.8	205.2	207.3	209.3	212.7	210.0	212.7	213.4	214.1
57.5°	175.2	174.5	175.2	178.6	180.7	185.4	190.9	190.9	193.6	191.6	193.6
60°	146.6	146.6	149.3	151.4	156.8	160.2	165.7	168.4	171.1	173.8	172.5
62.5°	119.3	120.0	122.0	126.8	130.2	135.0	141.1	143.8	148.6	151.4	150.0
65°	94.8	94.8	96.1	100.2	103.6	109.8	115.2	121.4	124.1	125.4	126.1
67.5°	70.9	70.2	73.0	75.7	79.1	85.2	91.4	94.8	99.5	100.9	100.2
70°	47.7	48.4	49.8	52.5	56.6	61.4	68.2	70.9	73.6	75.0	73.6
72.5°	30.0	30.0	30.7	33.4	36.1	39.5	44.3	47.0	50.4	51.1	49.8
75°	13.6	13.6	15.0	16.3	18.4	21.1	24.6	26.6	28.6	30.7	30.7
77.5°	2.7	3.4	4.1	4.1	5.4	7.5	9.5	11.6	13.6	13.6	13.6
80°	0.7	0.7	0.7	0.7	0.7	0.7	1.4	2.0	3.4	3.4	3.4
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: P840529

CATALOG NUMBER: LD6C10D010 EU6109030 6LBCSSQMW

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	462.2	462.2	462.2	462.2	462.2	462.2	462.2	462.2
2.5°	462.2	466.3	462.2	460.2	462.9	462.2	460.2	460.9
5°	460.2	461.6	462.9	457.5	460.9	461.6	460.2	458.8
7.5°	458.2	458.8	458.2	456.8	456.8	456.8	458.2	458.2
10°	457.5	455.4	452.0	450.0	452.0	452.0	451.3	456.8
12.5°	448.6	451.3	449.3	445.2	449.3	448.6	448.6	450.0
15°	441.8	441.8	443.1	437.7	440.4	439.7	439.7	441.1
17.5°	435.0	435.0	434.3	432.9	432.2	434.3	432.2	435.6
20°	425.4	426.8	430.9	424.1	426.1	424.1	424.1	420.0
22.5°	413.8	420.7	417.2	416.6	415.9	416.6	417.9	413.2
25°	406.3	406.3	407.7	403.6	403.6	405.0	404.3	402.9
27.5°	396.1	395.4	394.7	393.4	396.8	394.1	394.1	394.1
30°	381.8	383.8	383.2	379.7	383.8	382.5	380.4	376.3
32.5°	369.5	372.3	368.2	367.5	366.8	367.5	368.2	364.8
35°	354.5	355.2	355.2	352.5	353.1	352.5	351.1	351.8
37.5°	340.9	340.2	336.8	335.4	336.1	336.1	336.8	335.4
40°	321.8	323.9	323.9	319.1	320.4	319.1	319.1	318.4
42.5°	306.1	306.8	304.7	302.7	302.7	302.0	300.7	302.0
45°	289.8	289.1	287.0	285.0	285.0	284.3	282.9	285.7
47.5°	271.3	270.0	269.3	266.6	266.6	262.5	263.2	265.9
50°	252.9	251.6	248.9	247.5	245.4	243.4	242.7	242.7
52.5°	231.1	231.1	228.4	225.7	225.0	223.6	222.2	222.9
55°	212.0	212.0	210.0	205.2	202.5	199.1	197.0	196.4
57.5°	190.2	188.8	184.7	179.3	176.6	173.8	171.8	171.8
60°	168.4	165.0	160.9	156.1	151.4	146.6	145.2	144.5
62.5°	144.5	141.1	133.6	128.2	124.8	122.0	119.3	121.4
65°	120.7	115.9	109.1	103.6	100.2	96.1	94.1	94.1
67.5°	95.4	90.7	83.9	78.4	75.0	72.3	69.6	69.6
70°	70.2	66.8	60.7	55.9	53.2	49.1	48.4	48.4
72.5°	47.7	43.6	38.9	35.5	32.7	30.0	28.6	28.0
75°	26.6	23.9	20.5	18.4	15.7	14.3	12.9	12.9
77.5°	10.9	8.9	6.8	5.4	4.1	3.4	2.7	3.4
80°	2.0	1.4	0.7	0.7	0.7	0.7	0.7	0.7
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)