

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: P840533

Luminaire Tested: **LD6C10D010 EU6109035 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: P840533  
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 EU6109035 6LBCSSQMW  
Description: 6 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 6LBCSSQ TRIM WITH MW FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

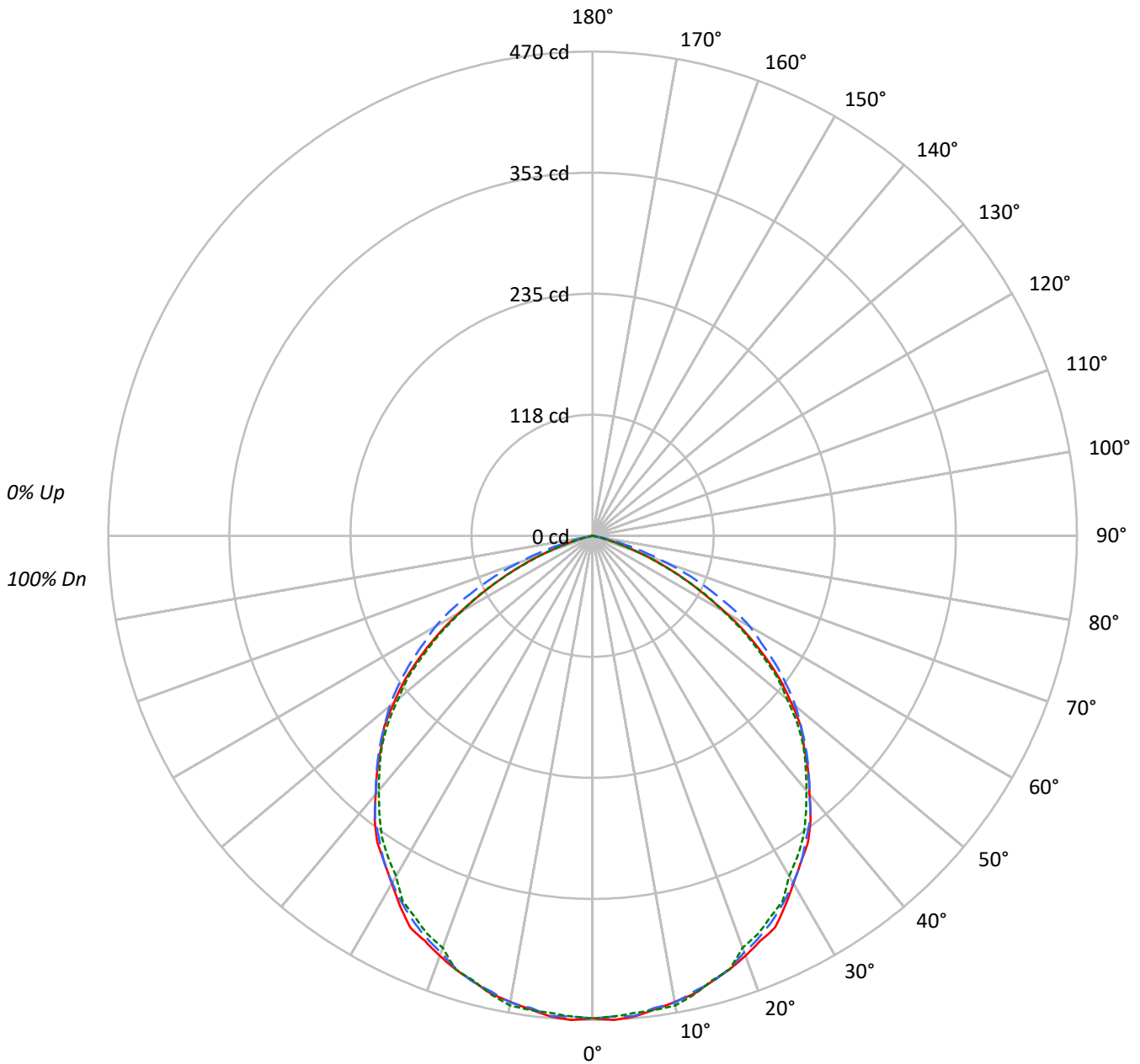
Lumens per Lamp: N/A  
Luminaire Lumens: 1131.0 lumens  
Efficiency: N/A  
Efficacy: 115.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

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

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### 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°	20167	20167	20167
5°	20244	20218	20097
10°	20089	20120	20238
15°	19956	19987	19925
20°	19881	19720	19501
25°	19924	19596	19397
30°	19374	19340	18962
35°	19138	18959	18738
40°	18407	18407	18137
45°	17670	17835	17628
50°	16846	17215	16478
55°	15298	16237	14938
60°	12796	15173	12615
65°	9780	12949	9709
70°	6093	9567	6181
75°	2296	5174	2179
80°	174	843	174
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.3	3.9
10°-20°	126.3	11.2
20°-30°	190.1	16.8
30°-40°	224.9	19.9
40°-50°	224.4	19.8
50°-60°	186.1	16.5
60°-70°	108.7	9.6
70°-80°	25.9	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°	360.7	31.9
0°-40°	585.6	51.8
0°-60°	996.2	88.1
0°-90°	1131.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1131.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	468	468	468	468	468	
5°	468	466	468	466	465	44
15°	448	447	448	446	447	127
25°	419	415	412	411	408	192
35°	364	361	361	359	356	226
45°	290	291	293	290	290	224
55°	204	211	216	210	199	181
65°	96	108	127	108	95	95
75°	14	20	31	20	13	19
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°	468.4	468.4	468.4	468.4	468.4	468.4	468.4	468.4	468.4	468.4	468.4
2.5°	470.5	467.8	469.8	465.7	468.4	465.7	466.4	465.0	467.8	467.1	466.4
5°	468.4	469.2	467.8	469.2	467.1	465.0	467.1	465.7	461.5	467.8	466.4
7.5°	463.6	464.3	462.9	465.0	463.6	460.8	466.4	462.2	461.5	462.2	465.0
10°	459.5	460.8	460.2	459.5	460.2	460.2	458.8	456.7	458.8	460.2	459.5
12.5°	455.3	457.4	456.0	454.6	453.3	453.9	455.3	451.9	451.9	453.3	457.4
15°	447.7	449.1	449.8	447.0	447.0	447.7	450.5	445.0	447.7	448.4	449.1
17.5°	441.5	442.2	442.2	440.1	441.5	439.4	441.5	438.7	441.5	440.8	442.2
20°	433.9	435.3	433.9	433.9	432.5	433.2	433.2	433.2	431.2	430.4	431.8
22.5°	425.6	425.6	424.2	425.6	424.2	423.5	427.0	421.5	427.0	422.2	426.3
25°	419.4	415.9	413.9	413.2	415.9	413.2	414.6	412.5	413.9	412.5	413.2
27.5°	404.9	402.8	402.1	402.8	402.8	402.1	404.9	397.3	402.1	401.4	401.4
30°	389.7	389.7	391.1	389.7	391.1	389.0	391.8	385.5	389.7	389.0	389.7
32.5°	375.9	376.6	376.6	377.9	375.9	376.6	376.6	374.5	375.9	376.6	375.2
35°	364.1	360.7	360.7	360.7	360.7	360.7	362.1	360.0	362.1	360.7	360.7
37.5°	347.5	344.1	344.1	343.4	346.8	344.8	348.2	345.5	345.5	346.8	346.8
40°	327.5	328.9	326.8	329.6	328.9	326.1	332.3	328.2	330.9	327.5	330.3
42.5°	309.5	310.2	309.5	308.8	311.6	310.9	313.7	310.9	310.2	310.2	315.1
45°	290.2	290.2	290.2	292.3	290.2	290.9	293.7	292.3	293.7	292.9	297.8
47.5°	274.3	270.8	270.2	274.3	273.6	274.3	274.3	275.0	275.7	274.3	276.4
50°	251.5	250.1	250.1	250.8	251.5	252.9	254.9	256.3	254.9	257.0	257.7
52.5°	229.4	228.0	228.7	231.5	232.8	232.2	235.6	236.3	235.6	237.0	237.0
55°	203.8	202.4	204.5	208.0	210.0	212.1	215.6	212.8	215.6	216.3	216.9
57.5°	177.6	176.9	177.6	181.0	183.1	187.9	193.5	193.5	196.2	194.2	196.2
60°	148.6	148.6	151.3	153.4	158.9	162.4	167.9	170.7	173.4	176.2	174.8
62.5°	120.9	121.6	123.7	128.5	132.0	136.8	143.0	145.8	150.6	153.4	152.0
65°	96.0	96.0	97.4	101.6	105.0	111.2	116.8	123.0	125.8	127.1	127.8
67.5°	71.8	71.2	73.9	76.7	80.2	86.4	92.6	96.0	100.9	102.3	101.6
70°	48.4	49.1	50.4	53.2	57.3	62.2	69.1	71.8	74.6	76.0	74.6
72.5°	30.4	30.4	31.1	33.8	36.6	40.1	44.9	47.7	51.1	51.8	50.4
75°	13.8	13.8	15.2	16.6	18.7	21.4	24.9	26.9	29.0	31.1	31.1
77.5°	2.8	3.4	4.2	4.2	5.5	7.6	9.7	11.7	13.8	13.8	13.8
80°	0.7	0.7	0.7	0.7	0.7	0.7	1.4	2.1	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



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	468.4	468.4	468.4	468.4	468.4	468.4	468.4	468.4
2.5°	468.4	472.6	468.4	466.4	469.2	468.4	466.4	467.1
5°	466.4	467.8	469.2	463.6	467.1	467.8	466.4	465.0
7.5°	464.3	465.0	464.3	462.9	462.9	462.9	464.3	464.3
10°	463.6	461.5	458.1	456.0	458.1	458.1	457.4	462.9
12.5°	454.6	457.4	455.3	451.2	455.3	454.6	454.6	456.0
15°	447.7	447.7	449.1	443.6	446.3	445.7	445.7	447.0
17.5°	440.8	440.8	440.1	438.7	438.1	440.1	438.1	441.5
20°	431.2	432.5	436.7	429.8	431.8	429.8	429.8	425.6
22.5°	419.4	426.3	422.8	422.2	421.5	422.2	423.5	418.7
25°	411.8	411.8	413.2	409.0	409.0	410.4	409.7	408.3
27.5°	401.4	400.7	400.1	398.7	402.1	399.4	399.4	399.4
30°	386.9	389.0	388.3	384.8	389.0	387.6	385.5	381.4
32.5°	374.5	377.3	373.1	372.4	371.7	372.4	373.1	369.7
35°	359.3	360.0	360.0	357.2	357.9	357.2	355.8	356.5
37.5°	345.5	344.8	341.3	339.9	340.6	340.6	341.3	339.9
40°	326.1	328.2	328.2	323.4	324.7	323.4	323.4	322.7
42.5°	310.2	310.9	308.8	306.8	306.8	306.1	304.7	306.1
45°	293.7	292.9	290.9	288.8	288.8	288.1	286.7	289.5
47.5°	275.0	273.6	272.9	270.2	270.2	266.0	266.7	269.5
50°	256.3	254.9	252.2	250.8	248.7	246.7	246.0	246.0
52.5°	234.2	234.2	231.5	228.7	228.0	226.6	225.2	225.9
55°	214.9	214.9	212.8	208.0	205.2	201.8	199.7	199.0
57.5°	192.8	191.4	187.2	181.7	178.9	176.2	174.1	174.1
60°	170.7	167.2	163.1	158.2	153.4	148.6	147.2	146.5
62.5°	146.5	143.0	135.4	129.9	126.4	123.7	120.9	123.0
65°	122.3	117.5	110.6	105.0	101.6	97.4	95.3	95.3
67.5°	96.7	91.9	85.0	79.5	76.0	73.2	70.5	70.5
70°	71.2	67.7	61.5	56.7	53.9	49.7	49.1	49.1
72.5°	48.4	44.2	39.4	35.9	33.2	30.4	29.0	28.3
75°	26.9	24.2	20.7	18.7	15.9	14.5	13.1	13.1
77.5°	11.1	9.0	6.9	5.5	4.2	3.4	2.8	3.4
80°	2.1	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)