

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: P840537

Luminaire Tested: **LD6C10D010 EU6109040 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: P840537  
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 EU6109040 6LBCSSQMW  
Description: 6 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 6LBCSSQ TRIM WITH MW FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

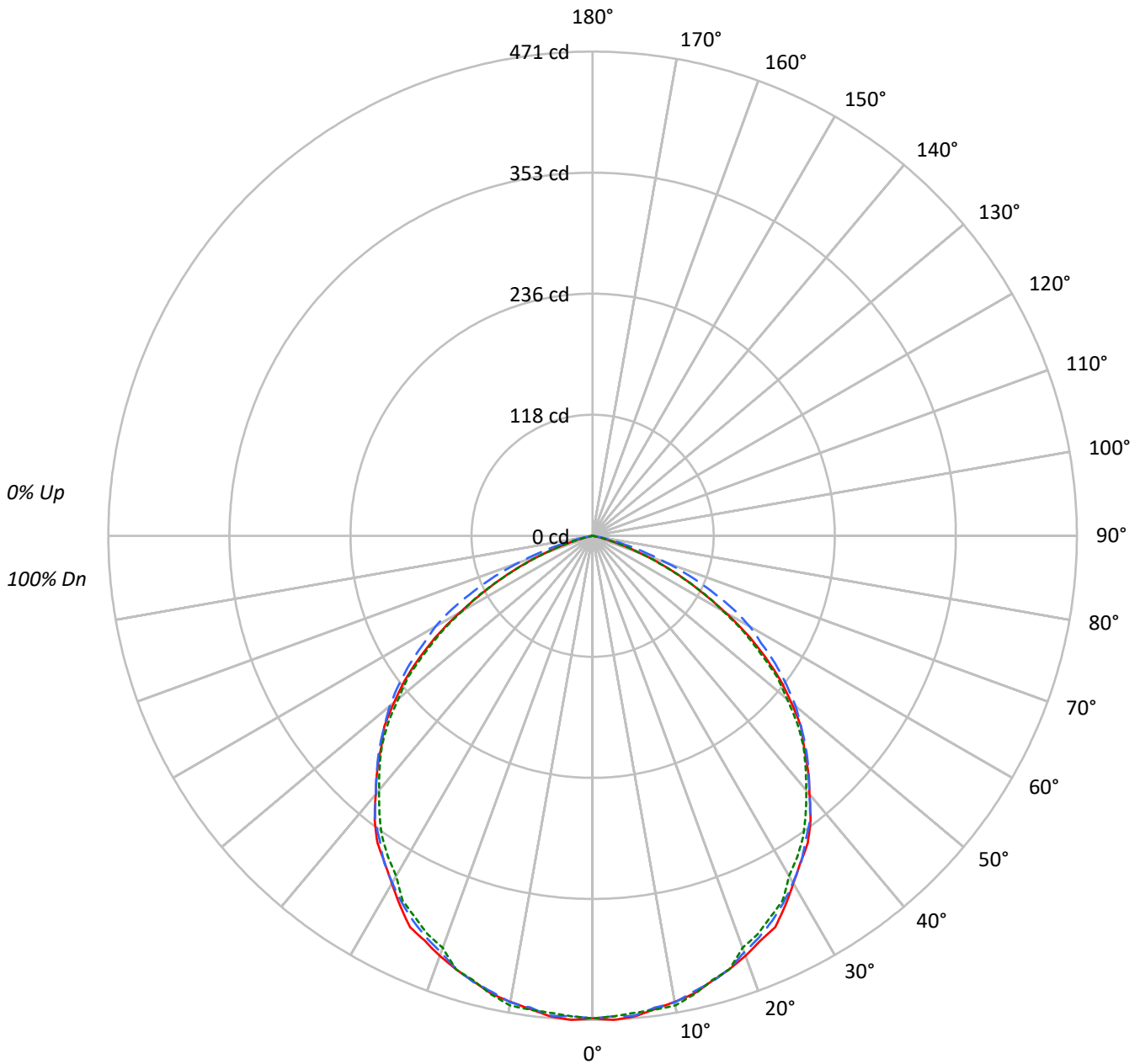
Lumens per Lamp: N/A  
Luminaire Lumens: 1133.0 lumens  
Efficiency: N/A  
Efficacy: 115.6 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

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°	20206	20206	20206
5°	20283	20253	20132
10°	20124	20155	20277
15°	19992	20023	19960
20°	19917	19757	19537
25°	19958	19630	19435
30°	19409	19374	18997
35°	19174	18990	18770
40°	18441	18441	18166
45°	17701	17871	17658
50°	16873	17248	16505
55°	15328	16267	14961
60°	12813	15199	12633
65°	9801	12969	9729
70°	6105	9580	6181
75°	2296	5190	2179
80°	174	868	174
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.4	3.9
10°-20°	126.6	11.2
20°-30°	190.4	16.8
30°-40°	225.3	19.9
40°-50°	224.8	19.8
50°-60°	186.4	16.5
60°-70°	108.9	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°	361.4	31.9
0°-40°	586.7	51.8
0°-60°	998.0	88.1
0°-90°	1133.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1133.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	469	469	469	469	469	
5°	469	467	469	467	466	44
15°	448	448	449	447	448	127
25°	420	415	413	412	409	192
35°	365	361	361	359	357	227
45°	291	291	294	290	290	225
55°	204	211	217	211	199	181
65°	96	108	127	108	96	96
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°	469.3	469.3	469.3	469.3	469.3	469.3	469.3	469.3	469.3	469.3	469.3
2.5°	471.4	468.6	470.7	466.5	469.3	466.5	467.2	465.8	468.6	467.9	467.2
5°	469.3	470.0	468.6	470.0	467.9	465.8	467.9	466.5	462.4	468.6	467.2
7.5°	464.4	465.1	463.8	465.8	464.4	461.7	467.2	463.0	462.4	463.0	465.8
10°	460.3	461.7	461.0	460.3	461.0	461.0	459.6	457.5	459.6	461.0	460.3
12.5°	456.1	458.2	456.8	455.5	454.1	454.7	456.1	452.7	452.7	454.1	458.2
15°	448.5	449.9	450.6	447.8	447.8	448.5	451.3	445.7	448.5	449.2	449.9
17.5°	442.3	443.0	443.0	440.9	442.3	440.2	442.3	439.5	442.3	441.6	443.0
20°	434.7	436.1	434.7	434.7	433.3	434.0	434.0	434.0	431.9	431.2	432.6
22.5°	426.4	426.4	425.0	426.4	425.0	424.3	427.8	422.2	427.8	422.9	427.1
25°	420.1	416.7	414.6	413.9	416.7	413.9	415.3	413.2	414.6	413.2	413.9
27.5°	405.6	403.5	402.8	403.5	403.5	402.8	405.6	398.0	402.8	402.1	402.1
30°	390.4	390.4	391.8	390.4	391.8	389.7	392.5	386.2	390.4	389.7	390.4
32.5°	376.5	377.2	377.2	378.6	376.5	377.2	377.2	375.2	376.5	377.2	375.8
35°	364.8	361.3	361.3	361.3	361.3	361.3	362.7	360.6	362.7	361.3	361.3
37.5°	348.2	344.7	344.7	344.0	347.5	345.4	348.8	346.1	346.1	347.5	347.5
40°	328.1	329.5	327.4	330.1	329.5	326.7	332.9	328.8	331.5	328.1	330.9
42.5°	310.1	310.8	310.1	309.4	312.2	311.5	314.2	311.5	310.8	310.8	315.6
45°	290.7	290.7	290.7	292.8	290.7	291.4	294.2	292.8	294.2	293.5	298.3
47.5°	274.8	271.3	270.6	274.8	274.1	274.8	274.8	275.5	276.2	274.8	276.9
50°	251.9	250.6	250.6	251.3	251.9	253.3	255.4	256.8	255.4	257.5	258.2
52.5°	229.8	228.4	229.1	231.9	233.2	232.6	236.0	236.7	236.0	237.4	237.4
55°	204.2	202.8	204.9	208.4	210.4	212.5	215.9	213.2	215.9	216.7	217.3
57.5°	177.9	177.2	177.9	181.3	183.4	188.3	193.8	193.8	196.6	194.5	196.6
60°	148.8	148.8	151.6	153.7	159.2	162.7	168.2	171.0	173.7	176.5	175.1
62.5°	121.1	121.8	123.9	128.7	132.2	137.1	143.3	146.0	150.9	153.7	152.3
65°	96.2	96.2	97.6	101.7	105.2	111.4	117.0	123.2	126.0	127.3	128.1
67.5°	72.0	71.3	74.1	76.8	80.3	86.5	92.8	96.2	101.1	102.4	101.7
70°	48.5	49.1	50.5	53.3	57.4	62.3	69.2	72.0	74.7	76.1	74.7
72.5°	30.4	30.4	31.2	33.9	36.7	40.1	45.0	47.8	51.2	51.9	50.5
75°	13.8	13.8	15.2	16.6	18.7	21.5	24.9	27.0	29.1	31.2	31.2
77.5°	2.8	3.5	4.2	4.2	5.5	7.6	9.7	11.8	13.8	13.8	13.8
80°	0.7	0.7	0.7	0.7	0.7	0.7	1.4	2.1	3.5	3.5	3.5
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°	469.3	469.3	469.3	469.3	469.3	469.3	469.3	469.3
2.5°	469.3	473.4	469.3	467.2	470.0	469.3	467.2	467.9
5°	467.2	468.6	470.0	464.4	467.9	468.6	467.2	465.8
7.5°	465.1	465.8	465.1	463.8	463.8	463.8	465.1	465.1
10°	464.4	462.4	458.9	456.8	458.9	458.9	458.2	463.8
12.5°	455.5	458.2	456.1	452.0	456.1	455.5	455.5	456.8
15°	448.5	448.5	449.9	444.4	447.1	446.4	446.4	447.8
17.5°	441.6	441.6	440.9	439.5	438.8	440.9	438.8	442.3
20°	431.9	433.3	437.4	430.5	432.6	430.5	430.5	426.4
22.5°	420.1	427.1	423.6	422.9	422.2	422.9	424.3	419.5
25°	412.5	412.5	413.9	409.8	409.8	411.2	410.4	409.1
27.5°	402.1	401.4	400.8	399.4	402.8	400.1	400.1	400.1
30°	387.6	389.7	389.0	385.5	389.7	388.3	386.2	382.1
32.5°	375.2	377.9	373.8	373.1	372.4	373.1	373.8	370.3
35°	359.9	360.6	360.6	357.8	358.5	357.8	356.5	357.1
37.5°	346.1	345.4	341.9	340.5	341.2	341.2	341.9	340.5
40°	326.7	328.8	328.8	323.9	325.3	323.9	323.9	323.2
42.5°	310.8	311.5	309.4	307.3	307.3	306.6	305.2	306.6
45°	294.2	293.5	291.4	289.3	289.3	288.6	287.2	290.0
47.5°	275.5	274.1	273.4	270.6	270.6	266.5	267.2	269.9
50°	256.8	255.4	252.7	251.3	249.2	247.1	246.4	246.4
52.5°	234.6	234.6	231.9	229.1	228.4	227.0	225.6	226.3
55°	215.3	215.3	213.2	208.4	205.6	202.1	200.0	199.3
57.5°	193.1	191.7	187.6	182.0	179.3	176.5	174.4	174.4
60°	171.0	167.5	163.3	158.5	153.7	148.8	147.4	146.7
62.5°	146.7	143.3	135.7	130.1	126.7	123.9	121.1	123.2
65°	122.5	117.7	110.7	105.2	101.7	97.6	95.5	95.5
67.5°	96.9	92.1	85.1	79.6	76.1	73.4	70.6	70.6
70°	71.3	67.8	61.6	56.8	54.0	49.8	49.1	49.1
72.5°	48.5	44.3	39.5	36.0	33.2	30.4	29.1	28.4
75°	27.0	24.2	20.8	18.7	15.9	14.5	13.1	13.1
77.5°	11.1	9.0	6.9	5.5	4.2	3.5	2.8	3.5
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)