

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: P840528

Luminaire Tested: **LD6C10D010 EU6109030 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: P840528  
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 6LBCSSQMMS  
Description: 6 INCH 1000 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**

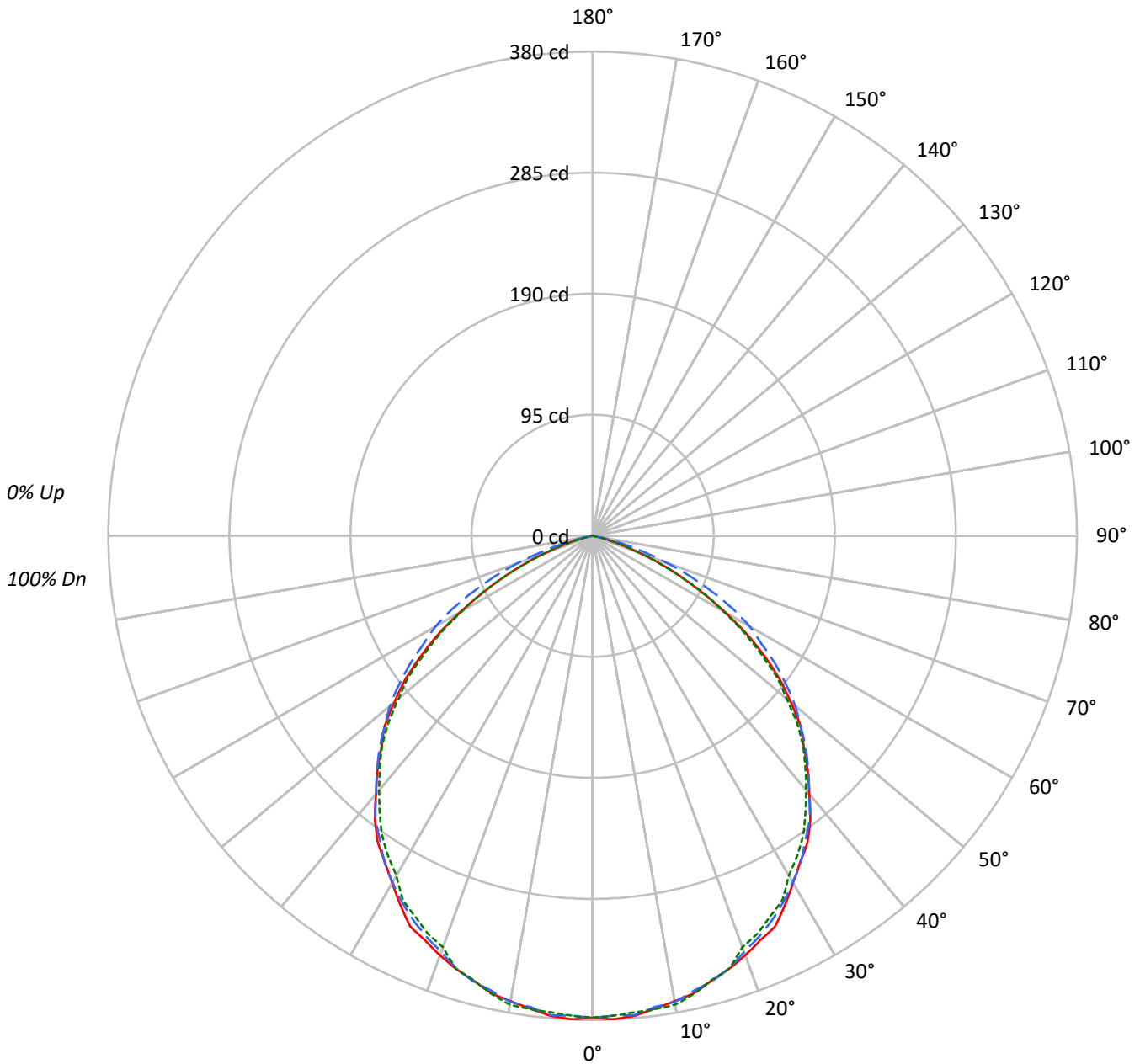
Lumens per Lamp: N/A  
Luminaire Lumens: 913.0 lumens  
Efficiency: N/A  
Efficacy: 93.2 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 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°	16284	16284	16284
5°	16346	16320	16225
10°	16216	16242	16338
15°	16109	16136	16087
20°	16050	15922	15743
25°	16086	15820	15658
30°	15641	15611	15308
35°	15448	15301	15127
40°	14861	14861	14641
45°	14267	14400	14230
50°	13597	13899	13303
55°	12348	13106	12055
60°	10325	12245	10187
65°	7896	10453	7845
70°	4922	7729	4985
75°	1863	4175	1763
80°	124	694	124
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.8	3.9
10°-20°	102.0	11.2
20°-30°	153.5	16.8
30°-40°	181.5	19.9
40°-50°	181.2	19.8
50°-60°	150.2	16.5
60°-70°	87.8	9.6
70°-80°	20.9	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°	291.2	31.9
0°-40°	472.8	51.8
0°-60°	804.2	88.1
0°-90°	913.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	913.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	378	378	378	378	378	
5°	378	376	378	376	375	36
15°	361	361	362	360	361	102
25°	339	335	333	332	330	155
35°	294	291	291	290	288	183
45°	234	235	236	234	234	181
55°	164	170	175	170	161	146
65°	78	87	103	87	77	77
75°	11	16	25	16	11	15
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°	378.2	378.2	378.2	378.2	378.2	378.2	378.2	378.2	378.2	378.2	378.2
2.5°	379.8	377.6	379.3	375.9	378.2	375.9	376.5	375.4	377.6	377.0	376.5
5°	378.2	378.7	377.6	378.7	377.0	375.4	377.0	375.9	372.6	377.6	376.5
7.5°	374.3	374.8	373.7	375.4	374.3	372.0	376.5	373.1	372.6	373.1	375.4
10°	370.9	372.0	371.5	370.9	371.5	371.5	370.3	368.7	370.3	371.5	370.9
12.5°	367.6	369.2	368.1	367.0	365.9	366.4	367.6	364.8	364.8	365.9	369.2
15°	361.4	362.5	363.1	360.9	360.9	361.4	363.7	359.2	361.4	362.0	362.5
17.5°	356.4	357.0	357.0	355.3	356.4	354.7	356.4	354.2	356.4	355.9	357.0
20°	350.3	351.4	350.3	350.3	349.2	349.7	349.7	349.7	348.0	347.5	348.6
22.5°	343.6	343.6	342.5	343.6	342.5	341.9	344.7	340.2	344.7	340.8	344.1
25°	338.6	335.8	334.1	333.5	335.8	333.5	334.7	333.0	334.1	333.0	333.5
27.5°	326.8	325.2	324.6	325.2	325.2	324.6	326.8	320.7	324.6	324.1	324.1
30°	314.6	314.6	315.7	314.6	315.7	314.0	316.3	311.2	314.6	314.0	314.6
32.5°	303.4	304.0	304.0	305.1	303.4	304.0	304.0	302.3	303.4	304.0	302.9
35°	293.9	291.1	291.1	291.1	291.1	291.1	292.3	290.6	292.3	291.1	291.1
37.5°	280.6	277.8	277.8	277.2	280.0	278.3	281.1	278.9	278.9	280.0	280.0
40°	264.4	265.5	263.8	266.0	265.5	263.3	268.3	264.9	267.2	264.4	266.6
42.5°	249.9	250.4	249.9	249.3	251.5	251.0	253.2	251.0	250.4	250.4	254.3
45°	234.3	234.3	234.3	235.9	234.3	234.8	237.1	235.9	237.1	236.5	240.4
47.5°	221.4	218.6	218.1	221.4	220.9	221.4	221.4	222.0	222.5	221.4	223.1
50°	203.0	201.9	201.9	202.5	203.0	204.1	205.8	206.9	205.8	207.5	208.0
52.5°	185.2	184.1	184.6	186.8	188.0	187.4	190.2	190.7	190.2	191.3	191.3
55°	164.5	163.4	165.1	167.9	169.6	171.2	174.0	171.8	174.0	174.6	175.1
57.5°	143.3	142.8	143.3	146.1	147.8	151.7	156.2	156.2	158.4	156.7	158.4
60°	119.9	119.9	122.2	123.8	128.3	131.1	135.5	137.8	140.0	142.2	141.1
62.5°	97.6	98.2	99.8	103.7	106.5	110.4	115.4	117.7	121.6	123.8	122.7
65°	77.5	77.5	78.7	82.0	84.8	89.8	94.3	99.3	101.5	102.6	103.2
67.5°	58.0	57.4	59.7	61.9	64.7	69.7	74.7	77.5	81.4	82.6	82.0
70°	39.1	39.6	40.7	43.0	46.3	50.2	55.8	58.0	60.2	61.4	60.2
72.5°	24.5	24.5	25.1	27.3	29.6	32.3	36.2	38.5	41.3	41.8	40.7
75°	11.2	11.2	12.3	13.4	15.1	17.3	20.1	21.8	23.4	25.1	25.1
77.5°	2.2	2.8	3.4	3.4	4.5	6.1	7.8	9.5	11.2	11.2	11.2
80°	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.7	2.8	2.8	2.8
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°	378.2	378.2	378.2	378.2	378.2	378.2	378.2	378.2
2.5°	378.2	381.5	378.2	376.5	378.7	378.2	376.5	377.0
5°	376.5	377.6	378.7	374.3	377.0	377.6	376.5	375.4
7.5°	374.8	375.4	374.8	373.7	373.7	373.7	374.8	374.8
10°	374.3	372.6	369.8	368.1	369.8	369.8	369.2	373.7
12.5°	367.0	369.2	367.6	364.2	367.6	367.0	367.0	368.1
15°	361.4	361.4	362.5	358.1	360.3	359.8	359.8	360.9
17.5°	355.9	355.9	355.3	354.2	353.6	355.3	353.6	356.4
20°	348.0	349.2	352.5	346.9	348.6	346.9	346.9	343.6
22.5°	338.6	344.1	341.3	340.8	340.2	340.8	341.9	338.0
25°	332.4	332.4	333.5	330.2	330.2	331.3	330.7	329.6
27.5°	324.1	323.5	322.9	321.8	324.6	322.4	322.4	322.4
30°	312.3	314.0	313.5	310.7	314.0	312.9	311.2	307.9
32.5°	302.3	304.5	301.2	300.6	300.1	300.6	301.2	298.4
35°	290.0	290.6	290.6	288.4	288.9	288.4	287.2	287.8
37.5°	278.9	278.3	275.5	274.4	275.0	275.0	275.5	274.4
40°	263.3	264.9	264.9	261.0	262.1	261.0	261.0	260.5
42.5°	250.4	251.0	249.3	247.6	247.6	247.1	246.0	247.1
45°	237.1	236.5	234.8	233.1	233.1	232.6	231.5	233.7
47.5°	222.0	220.9	220.3	218.1	218.1	214.7	215.3	217.5
50°	206.9	205.8	203.6	202.5	200.8	199.1	198.6	198.6
52.5°	189.1	189.1	186.8	184.6	184.1	182.9	181.8	182.4
55°	173.5	173.5	171.8	167.9	165.7	162.9	161.2	160.6
57.5°	155.6	154.5	151.1	146.7	144.5	142.2	140.6	140.6
60°	137.8	135.0	131.6	127.7	123.8	119.9	118.8	118.3
62.5°	118.3	115.4	109.3	104.9	102.1	99.8	97.6	99.3
65°	98.7	94.8	89.2	84.8	82.0	78.7	77.0	77.0
67.5°	78.1	74.2	68.6	64.1	61.4	59.1	56.9	56.9
70°	57.4	54.7	49.6	45.7	43.5	40.1	39.6	39.6
72.5°	39.1	35.7	31.8	29.0	26.8	24.5	23.4	22.9
75°	21.8	19.5	16.7	15.1	12.8	11.7	10.6	10.6
77.5°	8.9	7.3	5.6	4.5	3.4	2.8	2.2	2.8
80°	1.7	1.1	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)