

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: P840486

Luminaire Tested: **LD6C08D010 EU6089027 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: P840486
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: LD6C08D010 EU6089027 6LBCSSQMW
Description: 6 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS AND 6LBCSSQ TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

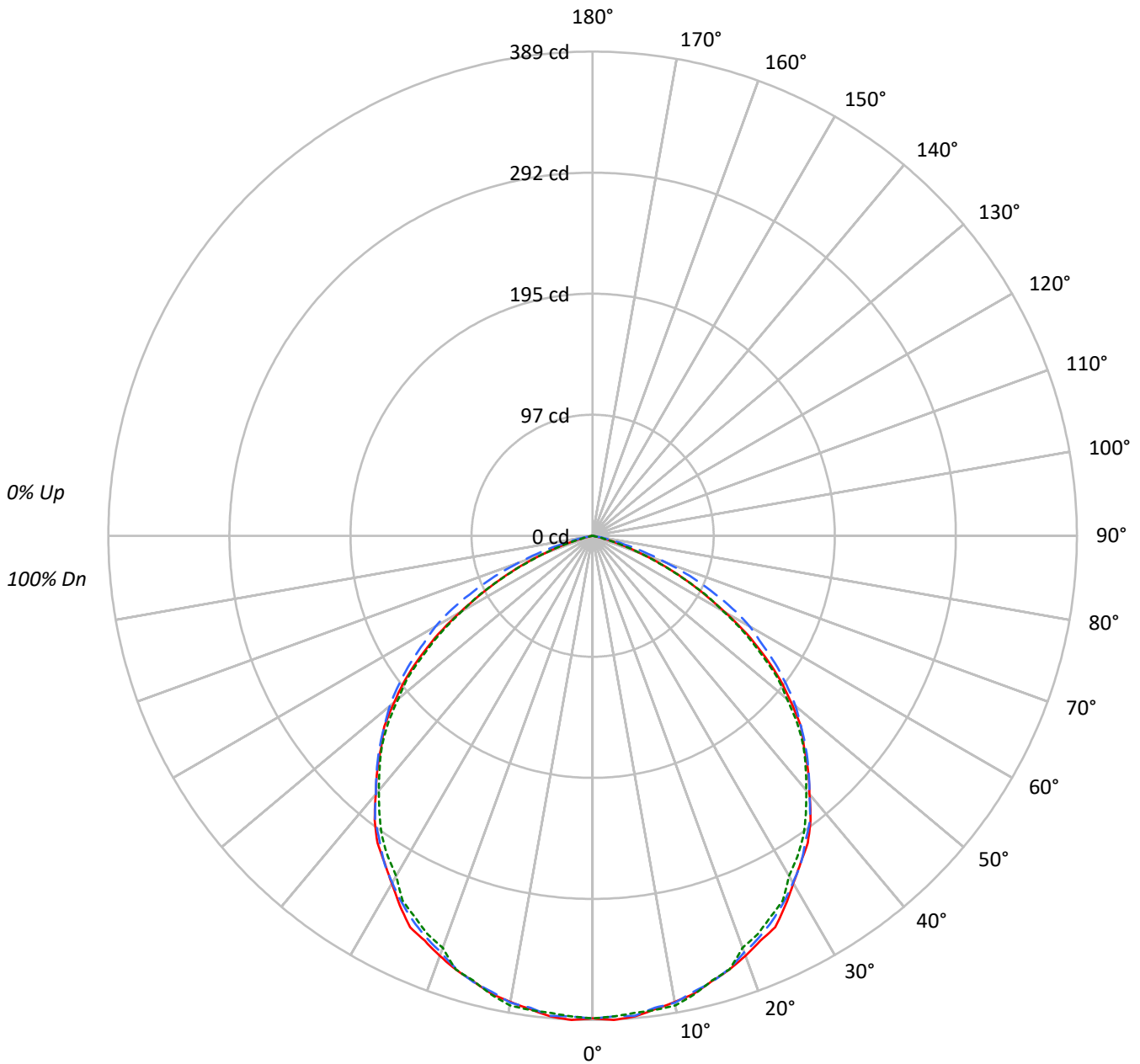
Lumens per Lamp: N/A
Luminaire Lumens: 936.0 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				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			100
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87			87
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	75			75
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64			64
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56			56
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49			49
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43			43
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38			38
8	63	50	42	37	62	50	42	36	48	41	36	47	41	36	46	40	36	34			34
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31			31
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28			28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16693	16693	16693
5°	16756	16731	16631
10°	16627	16649	16749
15°	16515	16542	16493
20°	16454	16321	16137
25°	16490	16219	16053
30°	16034	16004	15690
35°	15837	15690	15506
40°	15232	15232	15007
45°	14626	14760	14589
50°	13939	14247	13638
55°	12664	13437	12363
60°	10583	12555	10437
65°	8099	10718	8038
70°	5035	7918	5111
75°	1896	4275	1813
80°	149	719	149
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.7	3.9
10°-20°	104.6	11.2
20°-30°	157.3	16.8
30°-40°	186.1	19.9
40°-50°	185.7	19.8
50°-60°	154.0	16.5
60°-70°	90.0	9.6
70°-80°	21.4	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°	298.6	31.9
0°-40°	484.7	51.8
0°-60°	824.4	88.1
0°-90°	936.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	936.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	388	388	388	388	388	
5°	388	386	387	386	385	37
15°	370	370	371	369	370	105
25°	347	343	341	340	338	159
35°	301	298	298	297	295	187
45°	240	240	242	240	240	186
55°	169	175	179	174	165	150
65°	80	90	105	89	79	79
75°	11	17	26	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°	387.7	387.7	387.7	387.7	387.7	387.7	387.7	387.7	387.7	387.7	387.7
2.5°	389.4	387.1	388.8	385.4	387.7	385.4	386.0	384.8	387.1	386.5	386.0
5°	387.7	388.3	387.1	388.3	386.5	384.8	386.5	385.4	382.0	387.1	386.0
7.5°	383.7	384.3	383.1	384.8	383.7	381.4	386.0	382.5	382.0	382.5	384.8
10°	380.3	381.4	380.8	380.3	380.8	380.8	379.7	378.0	379.7	380.8	380.3
12.5°	376.8	378.5	377.4	376.3	375.1	375.7	376.8	374.0	374.0	375.1	378.5
15°	370.5	371.7	372.2	370.0	370.0	370.5	372.8	368.2	370.5	371.1	371.7
17.5°	365.4	366.0	366.0	364.2	365.4	363.7	365.4	363.1	365.4	364.8	366.0
20°	359.1	360.2	359.1	359.1	358.0	358.5	358.5	358.5	356.8	356.2	357.4
22.5°	352.2	352.2	351.1	352.2	351.1	350.5	353.4	348.8	353.4	349.4	352.8
25°	347.1	344.2	342.5	341.9	344.2	341.9	343.1	341.4	342.5	341.4	341.9
27.5°	335.1	333.4	332.8	333.4	333.4	332.8	335.1	328.8	332.8	332.2	332.2
30°	322.5	322.5	323.6	322.5	323.6	321.9	324.2	319.1	322.5	321.9	322.5
32.5°	311.1	311.6	311.6	312.8	311.1	311.6	311.6	309.9	311.1	311.6	310.5
35°	301.3	298.5	298.5	298.5	298.5	298.5	299.6	297.9	299.6	298.5	298.5
37.5°	287.6	284.8	284.8	284.2	287.0	285.3	288.2	285.9	285.9	287.0	287.0
40°	271.0	272.2	270.5	272.7	272.2	269.9	275.0	271.6	273.9	271.0	273.3
42.5°	256.2	256.7	256.2	255.6	257.9	257.3	259.6	257.3	256.7	256.7	260.7
45°	240.2	240.2	240.2	241.9	240.2	240.7	243.0	241.9	243.0	242.4	246.4
47.5°	227.0	224.1	223.6	227.0	226.4	227.0	227.0	227.6	228.1	227.0	228.7
50°	208.1	207.0	207.0	207.6	208.1	209.3	211.0	212.1	211.0	212.7	213.3
52.5°	189.8	188.7	189.3	191.5	192.7	192.1	195.0	195.5	195.0	196.1	196.1
55°	168.7	167.5	169.2	172.1	173.8	175.5	178.4	176.1	178.4	179.0	179.5
57.5°	146.9	146.4	146.9	149.8	151.5	155.5	160.1	160.1	162.4	160.7	162.4
60°	122.9	122.9	125.2	126.9	131.5	134.4	138.9	141.2	143.5	145.8	144.7
62.5°	100.1	100.6	102.3	106.4	109.2	113.2	118.4	120.6	124.6	126.9	125.8
65°	79.5	79.5	80.6	84.1	86.9	92.1	96.6	101.8	104.1	105.2	105.8
67.5°	59.5	58.9	61.2	63.5	66.3	71.5	76.6	79.5	83.5	84.6	84.1
70°	40.0	40.6	41.7	44.0	47.5	51.5	57.2	59.5	61.8	62.9	61.8
72.5°	25.2	25.2	25.7	28.0	30.3	33.2	37.2	39.5	42.3	42.9	41.7
75°	11.4	11.4	12.6	13.7	15.4	17.7	20.6	22.3	24.0	25.7	25.7
77.5°	2.3	2.9	3.4	3.4	4.6	6.3	8.0	9.7	11.4	11.4	11.4
80°	0.6	0.6	0.6	0.6	0.6	0.6	1.1	1.7	2.9	2.9	2.9
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°	387.7	387.7	387.7	387.7	387.7	387.7	387.7	387.7
2.5°	387.7	391.1	387.7	386.0	388.3	387.7	386.0	386.5
5°	386.0	387.1	388.3	383.7	386.5	387.1	386.0	384.8
7.5°	384.3	384.8	384.3	383.1	383.1	383.1	384.3	384.3
10°	383.7	382.0	379.1	377.4	379.1	379.1	378.5	383.1
12.5°	376.3	378.5	376.8	373.4	376.8	376.3	376.3	377.4
15°	370.5	370.5	371.7	367.1	369.4	368.8	368.8	370.0
17.5°	364.8	364.8	364.2	363.1	362.5	364.2	362.5	365.4
20°	356.8	358.0	361.4	355.7	357.4	355.7	355.7	352.2
22.5°	347.1	352.8	349.9	349.4	348.8	349.4	350.5	346.5
25°	340.8	340.8	341.9	338.5	338.5	339.7	339.1	337.9
27.5°	332.2	331.6	331.1	329.9	332.8	330.5	330.5	330.5
30°	320.2	321.9	321.4	318.5	321.9	320.8	319.1	315.6
32.5°	309.9	312.2	308.8	308.2	307.6	308.2	308.8	305.9
35°	297.3	297.9	297.9	295.6	296.2	295.6	294.5	295.0
37.5°	285.9	285.3	282.5	281.3	281.9	281.9	282.5	281.3
40°	269.9	271.6	271.6	267.6	268.7	267.6	267.6	267.0
42.5°	256.7	257.3	255.6	253.9	253.9	253.3	252.2	253.3
45°	243.0	242.4	240.7	239.0	239.0	238.4	237.3	239.6
47.5°	227.6	226.4	225.9	223.6	223.6	220.1	220.7	223.0
50°	212.1	211.0	208.7	207.6	205.8	204.1	203.6	203.6
52.5°	193.8	193.8	191.5	189.3	188.7	187.5	186.4	187.0
55°	177.8	177.8	176.1	172.1	169.8	167.0	165.2	164.7
57.5°	159.5	158.4	155.0	150.4	148.1	145.8	144.1	144.1
60°	141.2	138.4	134.9	130.9	126.9	122.9	121.8	121.2
62.5°	121.2	118.4	112.1	107.5	104.6	102.3	100.1	101.8
65°	101.2	97.2	91.5	86.9	84.1	80.6	78.9	78.9
67.5°	80.0	76.0	70.3	65.8	62.9	60.6	58.3	58.3
70°	58.9	56.0	50.9	46.9	44.6	41.2	40.6	40.6
72.5°	40.0	36.6	32.6	29.7	27.4	25.2	24.0	23.4
75°	22.3	20.0	17.2	15.4	13.2	12.0	10.9	10.9
77.5°	9.1	7.4	5.7	4.6	3.4	2.9	2.3	2.9
80°	1.7	1.1	0.6	0.6	0.6	0.6	0.6	0.6
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)