

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: P840502

Luminaire Tested: **LD6C08D010 EU6089050 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: P840502
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 EU6089050 6LBCSSQMW
Description: 6 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS AND 6LBCSSQ TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

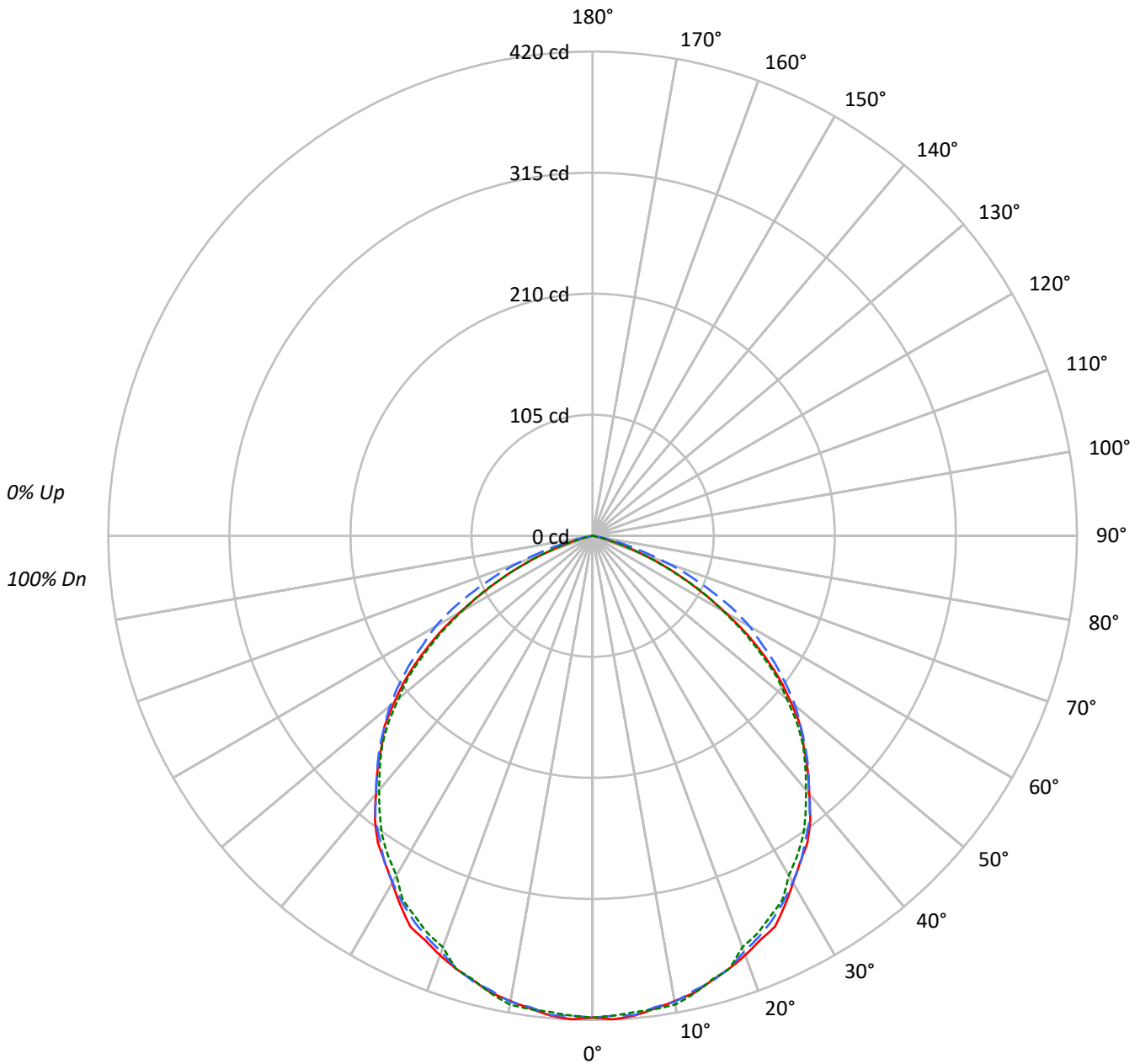
Lumens per Lamp: N/A
Luminaire Lumens: 1009.0 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
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°	17993	17993	17993
5°	18062	18036	17928
10°	17921	17947	18056
15°	17803	17834	17776
20°	17736	17594	17397
25°	17777	17482	17307
30°	17281	17252	16914
35°	17072	16914	16720
40°	16423	16423	16181
45°	15764	15911	15728
50°	15031	15359	14696
55°	13647	14480	13324
60°	11410	13537	11255
65°	8731	11553	8670
70°	5438	8535	5514
75°	2046	4608	1946
80°	149	769	149
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.5	3.9
10°-20°	112.7	11.2
20°-30°	169.6	16.8
30°-40°	200.6	19.9
40°-50°	200.2	19.8
50°-60°	166.0	16.5
60°-70°	97.0	9.6
70°-80°	23.1	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°	321.8	31.9
0°-40°	522.5	51.8
0°-60°	888.7	88.1
0°-90°	1009.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1009.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	418	418	418	418	418	
5°	418	416	417	416	415	40
15°	399	399	400	398	399	113
25°	374	370	368	367	364	171
35°	325	322	322	320	318	202
45°	259	259	261	259	258	200
55°	182	188	193	188	178	161
65°	86	96	113	96	85	85
75°	12	18	28	18	12	17
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°	417.9	417.9	417.9	417.9	417.9	417.9	417.9	417.9	417.9	417.9	417.9
2.5°	419.8	417.3	419.2	415.5	417.9	415.5	416.1	414.8	417.3	416.7	416.1
5°	417.9	418.5	417.3	418.5	416.7	414.8	416.7	415.5	411.8	417.3	416.1
7.5°	413.6	414.2	413.0	414.8	413.6	411.1	416.1	412.4	411.8	412.4	414.8
10°	409.9	411.1	410.5	409.9	410.5	410.5	409.3	407.4	409.3	410.5	409.9
12.5°	406.2	408.1	406.8	405.6	404.4	405.0	406.2	403.1	403.1	404.4	408.1
15°	399.4	400.7	401.3	398.8	398.8	399.4	401.9	397.0	399.4	400.1	400.7
17.5°	393.9	394.5	394.5	392.6	393.9	392.0	393.9	391.4	393.9	393.3	394.5
20°	387.1	388.3	387.1	387.1	385.9	386.5	386.5	386.5	384.6	384.0	385.2
22.5°	379.7	379.7	378.5	379.7	378.5	377.9	380.9	376.0	380.9	376.6	380.3
25°	374.2	371.1	369.2	368.6	371.1	368.6	369.8	368.0	369.2	368.0	368.6
27.5°	361.2	359.4	358.7	359.4	359.4	358.7	361.2	354.4	358.7	358.1	358.1
30°	347.6	347.6	348.9	347.6	348.9	347.0	349.5	344.0	347.6	347.0	347.6
32.5°	335.3	335.9	335.9	337.2	335.3	335.9	335.9	334.1	335.3	335.9	334.7
35°	324.8	321.8	321.8	321.8	321.8	321.8	323.0	321.2	323.0	321.8	321.8
37.5°	310.1	307.0	307.0	306.3	309.4	307.6	310.7	308.2	308.2	309.4	309.4
40°	292.2	293.4	291.6	294.0	293.4	290.9	296.5	292.8	295.2	292.2	294.6
42.5°	276.2	276.8	276.2	275.5	278.0	277.4	279.8	277.4	276.8	276.8	281.1
45°	258.9	258.9	258.9	260.7	258.9	259.5	262.0	260.7	262.0	261.3	265.7
47.5°	244.7	241.6	241.0	244.7	244.1	244.7	244.7	245.3	245.9	244.7	246.6
50°	224.4	223.1	223.1	223.8	224.4	225.6	227.4	228.7	227.4	229.3	229.9
52.5°	204.6	203.4	204.0	206.5	207.7	207.1	210.2	210.8	210.2	211.4	211.4
55°	181.8	180.6	182.4	185.5	187.4	189.2	192.3	189.9	192.3	192.9	193.5
57.5°	158.4	157.8	158.4	161.5	163.4	167.7	172.6	172.6	175.1	173.2	175.1
60°	132.5	132.5	135.0	136.8	141.8	144.9	149.8	152.3	154.7	157.2	156.0
62.5°	107.9	108.5	110.3	114.6	117.7	122.1	127.6	130.1	134.4	136.8	135.6
65°	85.7	85.7	86.9	90.6	93.7	99.2	104.2	109.7	112.2	113.4	114.0
67.5°	64.1	63.5	66.0	68.4	71.5	77.1	82.6	85.7	90.0	91.2	90.6
70°	43.2	43.8	45.0	47.5	51.2	55.5	61.6	64.1	66.6	67.8	66.6
72.5°	27.1	27.1	27.7	30.2	32.7	35.7	40.1	42.5	45.6	46.2	45.0
75°	12.3	12.3	13.6	14.8	16.6	19.1	22.2	24.0	25.9	27.7	27.7
77.5°	2.5	3.1	3.7	3.7	4.9	6.8	8.6	10.5	12.3	12.3	12.3
80°	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.8	3.1	3.1	3.1
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°	417.9	417.9	417.9	417.9	417.9	417.9	417.9	417.9
2.5°	417.9	421.6	417.9	416.1	418.5	417.9	416.1	416.7
5°	416.1	417.3	418.5	413.6	416.7	417.3	416.1	414.8
7.5°	414.2	414.8	414.2	413.0	413.0	413.0	414.2	414.2
10°	413.6	411.8	408.7	406.8	408.7	408.7	408.1	413.0
12.5°	405.6	408.1	406.2	402.5	406.2	405.6	405.6	406.8
15°	399.4	399.4	400.7	395.7	398.2	397.6	397.6	398.8
17.5°	393.3	393.3	392.6	391.4	390.8	392.6	390.8	393.9
20°	384.6	385.9	389.6	383.4	385.2	383.4	383.4	379.7
22.5°	374.2	380.3	377.2	376.6	376.0	376.6	377.9	373.5
25°	367.4	367.4	368.6	364.9	364.9	366.2	365.5	364.3
27.5°	358.1	357.5	356.9	355.7	358.7	356.3	356.3	356.3
30°	345.2	347.0	346.4	343.3	347.0	345.8	344.0	340.2
32.5°	334.1	336.6	332.9	332.3	331.6	332.3	332.9	329.8
35°	320.5	321.2	321.2	318.7	319.3	318.7	317.4	318.1
37.5°	308.2	307.6	304.5	303.3	303.9	303.9	304.5	303.3
40°	290.9	292.8	292.8	288.5	289.7	288.5	288.5	287.9
42.5°	276.8	277.4	275.5	273.7	273.7	273.1	271.8	273.1
45°	262.0	261.3	259.5	257.7	257.7	257.0	255.8	258.3
47.5°	245.3	244.1	243.5	241.0	241.0	237.3	237.9	240.4
50°	228.7	227.4	225.0	223.8	221.9	220.1	219.4	219.4
52.5°	209.0	209.0	206.5	204.0	203.4	202.2	200.9	201.6
55°	191.7	191.7	189.9	185.5	183.1	180.0	178.1	177.5
57.5°	172.0	170.7	167.0	162.1	159.6	157.2	155.3	155.3
60°	152.3	149.2	145.5	141.2	136.8	132.5	131.3	130.7
62.5°	130.7	127.6	120.8	115.9	112.8	110.3	107.9	109.7
65°	109.1	104.8	98.6	93.7	90.6	86.9	85.1	85.1
67.5°	86.3	82.0	75.8	70.9	67.8	65.3	62.9	62.9
70°	63.5	60.4	54.9	50.5	48.1	44.4	43.8	43.8
72.5°	43.2	39.5	35.1	32.1	29.6	27.1	25.9	25.3
75°	24.0	21.6	18.5	16.6	14.2	12.9	11.7	11.7
77.5°	9.9	8.0	6.2	4.9	3.7	3.1	2.5	3.1
80°	1.8	1.2	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)