

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: P840498

Luminaire Tested: **LD6C08D010 EU6089040 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: P840498
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 EU6089040 6LBCSSQMW
Description: 6 INCH 800 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

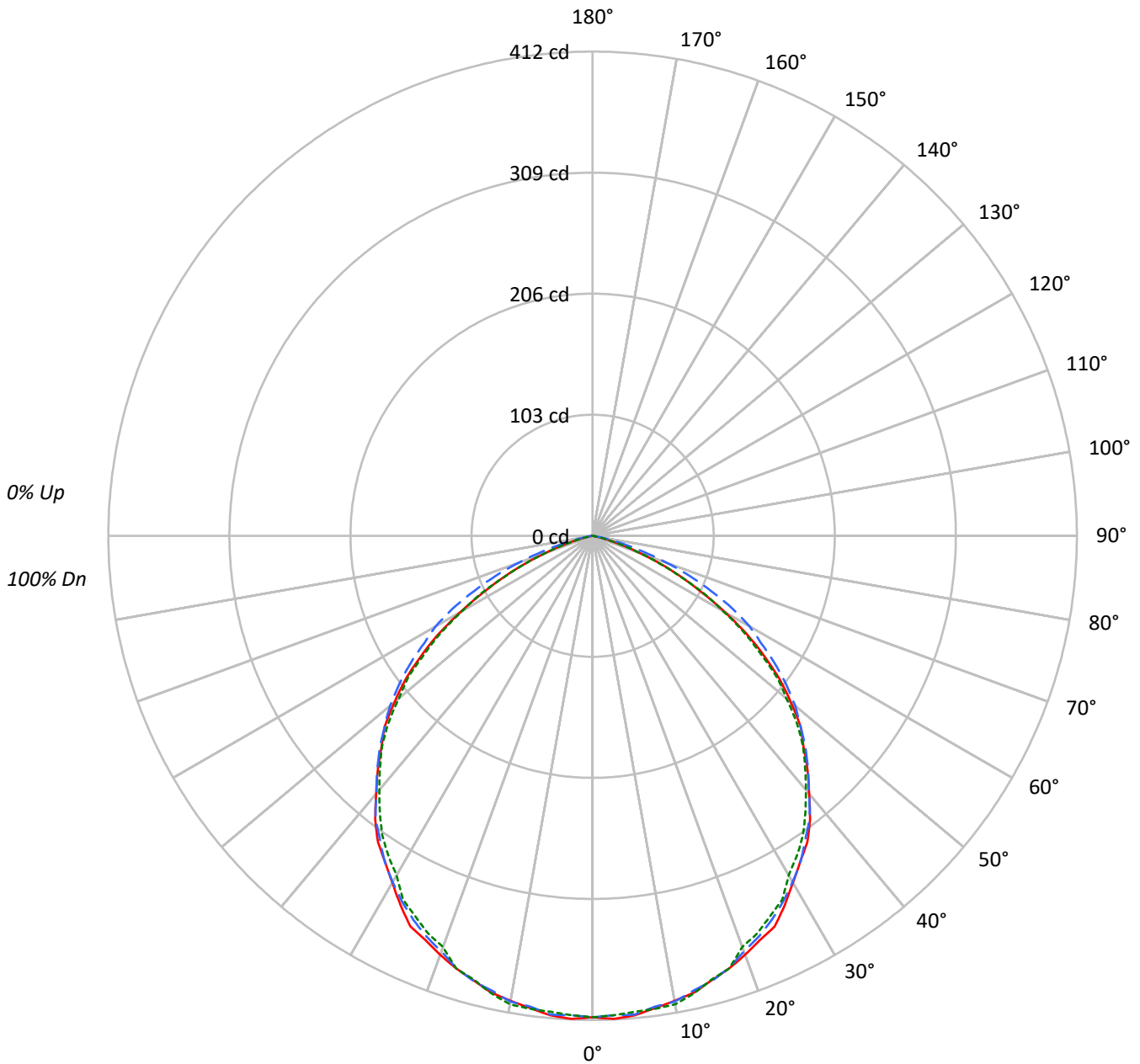
Lumens per Lamp: N/A
Luminaire Lumens: 989.0 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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°	17636	17636	17636
5°	17703	17677	17573
10°	17567	17593	17698
15°	17451	17478	17424
20°	17384	17246	17054
25°	17421	17136	16965
30°	16943	16914	16580
35°	16736	16578	16383
40°	16097	16097	15861
45°	15454	15600	15417
50°	14729	15058	14408
55°	13377	14195	13061
60°	11186	13270	11031
65°	8558	11329	8497
70°	5325	8371	5401
75°	2013	4525	1913
80°	149	744	149
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.7	3.9
10°-20°	110.5	11.2
20°-30°	166.2	16.8
30°-40°	196.7	19.9
40°-50°	196.3	19.8
50°-60°	162.7	16.5
60°-70°	95.1	9.6
70°-80°	22.6	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°	315.5	31.9
0°-40°	512.1	51.8
0°-60°	871.1	88.1
0°-90°	989.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	989.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	410	410	410	410	410	
5°	410	408	409	408	407	39
15°	392	391	392	390	391	111
25°	367	362	361	360	357	168
35°	318	315	315	314	312	198
45°	254	254	256	254	253	196
55°	178	185	189	184	174	158
65°	84	95	111	94	83	83
75°	12	18	27	17	12	16
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°	409.6	409.6	409.6	409.6	409.6	409.6	409.6	409.6	409.6	409.6	409.6
2.5°	411.5	409.0	410.8	407.2	409.6	407.2	407.8	406.6	409.0	408.4	407.8
5°	409.6	410.2	409.0	410.2	408.4	406.6	408.4	407.2	403.6	409.0	407.8
7.5°	405.4	406.0	404.8	406.6	405.4	403.0	407.8	404.2	403.6	404.2	406.6
10°	401.8	403.0	402.4	401.8	402.4	402.4	401.2	399.4	401.2	402.4	401.8
12.5°	398.2	400.0	398.8	397.6	396.4	396.9	398.2	395.1	395.1	396.4	400.0
15°	391.5	392.7	393.3	390.9	390.9	391.5	393.9	389.1	391.5	392.1	392.7
17.5°	386.1	386.7	386.7	384.9	386.1	384.3	386.1	383.6	386.1	385.5	386.7
20°	379.4	380.6	379.4	379.4	378.2	378.8	378.8	378.8	377.0	376.4	377.6
22.5°	372.2	372.2	371.0	372.2	371.0	370.4	373.4	368.6	373.4	369.2	372.8
25°	366.7	363.7	361.9	361.3	363.7	361.3	362.5	360.7	361.9	360.7	361.3
27.5°	354.1	352.2	351.6	352.2	352.2	351.6	354.1	347.4	351.6	351.0	351.0
30°	340.8	340.8	342.0	340.8	342.0	340.2	342.6	337.1	340.8	340.2	340.8
32.5°	328.7	329.3	329.3	330.5	328.7	329.3	329.3	327.5	328.7	329.3	328.1
35°	318.4	315.4	315.4	315.4	315.4	315.4	316.6	314.8	316.6	315.4	315.4
37.5°	303.9	300.9	300.9	300.3	303.3	301.5	304.5	302.1	302.1	303.3	303.3
40°	286.4	287.6	285.8	288.2	287.6	285.2	290.6	287.0	289.4	286.4	288.8
42.5°	270.7	271.3	270.7	270.1	272.5	271.9	274.3	271.9	271.3	271.3	275.5
45°	253.8	253.8	253.8	255.6	253.8	254.4	256.8	255.6	256.8	256.2	260.4
47.5°	239.9	236.8	236.2	239.9	239.3	239.9	239.9	240.5	241.1	239.9	241.7
50°	219.9	218.7	218.7	219.3	219.9	221.1	222.9	224.2	222.9	224.8	225.4
52.5°	200.6	199.4	200.0	202.4	203.6	203.0	206.0	206.6	206.0	207.2	207.2
55°	178.2	177.0	178.8	181.9	183.7	185.5	188.5	186.1	188.5	189.1	189.7
57.5°	155.3	154.7	155.3	158.3	160.1	164.3	169.2	169.2	171.6	169.8	171.6
60°	129.9	129.9	132.3	134.1	139.0	142.0	146.8	149.2	151.7	154.1	152.9
62.5°	105.7	106.3	108.1	112.4	115.4	119.6	125.1	127.5	131.7	134.1	132.9
65°	84.0	84.0	85.2	88.8	91.8	97.3	102.1	107.5	110.0	111.2	111.8
67.5°	62.8	62.2	64.7	67.1	70.1	75.5	81.0	84.0	88.2	89.4	88.8
70°	42.3	42.9	44.1	46.5	50.1	54.4	60.4	62.8	65.2	66.5	65.2
72.5°	26.6	26.6	27.2	29.6	32.0	35.0	39.3	41.7	44.7	45.3	44.1
75°	12.1	12.1	13.3	14.5	16.3	18.7	21.8	23.6	25.4	27.2	27.2
77.5°	2.4	3.0	3.6	3.6	4.8	6.7	8.5	10.3	12.1	12.1	12.1
80°	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.8	3.0	3.0	3.0
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°	409.6	409.6	409.6	409.6	409.6	409.6	409.6	409.6
2.5°	409.6	413.3	409.6	407.8	410.2	409.6	407.8	408.4
5°	407.8	409.0	410.2	405.4	408.4	409.0	407.8	406.6
7.5°	406.0	406.6	406.0	404.8	404.8	404.8	406.0	406.0
10°	405.4	403.6	400.6	398.8	400.6	400.6	400.0	404.8
12.5°	397.6	400.0	398.2	394.5	398.2	397.6	397.6	398.8
15°	391.5	391.5	392.7	387.9	390.3	389.7	389.7	390.9
17.5°	385.5	385.5	384.9	383.6	383.1	384.9	383.1	386.1
20°	377.0	378.2	381.8	375.8	377.6	375.8	375.8	372.2
22.5°	366.7	372.8	369.8	369.2	368.6	369.2	370.4	366.1
25°	360.1	360.1	361.3	357.7	357.7	358.9	358.3	357.1
27.5°	351.0	350.4	349.8	348.6	351.6	349.2	349.2	349.2
30°	338.4	340.2	339.6	336.5	340.2	338.9	337.1	333.5
32.5°	327.5	329.9	326.3	325.7	325.0	325.7	326.3	323.2
35°	314.2	314.8	314.8	312.4	313.0	312.4	311.2	311.7
37.5°	302.1	301.5	298.5	297.3	297.9	297.9	298.5	297.3
40°	285.2	287.0	287.0	282.8	284.0	282.8	282.8	282.2
42.5°	271.3	271.9	270.1	268.3	268.3	267.7	266.5	267.7
45°	256.8	256.2	254.4	252.6	252.6	251.9	250.7	253.2
47.5°	240.5	239.3	238.7	236.2	236.2	232.6	233.2	235.6
50°	224.2	222.9	220.5	219.3	217.5	215.7	215.1	215.1
52.5°	204.8	204.8	202.4	200.0	199.4	198.2	197.0	197.6
55°	187.9	187.9	186.1	181.9	179.4	176.4	174.6	174.0
57.5°	168.6	167.4	163.7	158.9	156.5	154.1	152.3	152.3
60°	149.2	146.2	142.6	138.4	134.1	129.9	128.7	128.1
62.5°	128.1	125.1	118.4	113.6	110.6	108.1	105.7	107.5
65°	106.9	102.7	96.7	91.8	88.8	85.2	83.4	83.4
67.5°	84.6	80.4	74.3	69.5	66.5	64.0	61.6	61.6
70°	62.2	59.2	53.8	49.5	47.1	43.5	42.9	42.9
72.5°	42.3	38.7	34.4	31.4	29.0	26.6	25.4	24.8
75°	23.6	21.1	18.1	16.3	13.9	12.7	11.5	11.5
77.5°	9.7	7.9	6.0	4.8	3.6	3.0	2.4	3.0
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)