

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: P840494

Luminaire Tested: **LD6C08D010 EU6089035 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: P840494
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 EU6089035 6LBCSSQMW
Description: 6 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS AND 6LBCSSQ TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

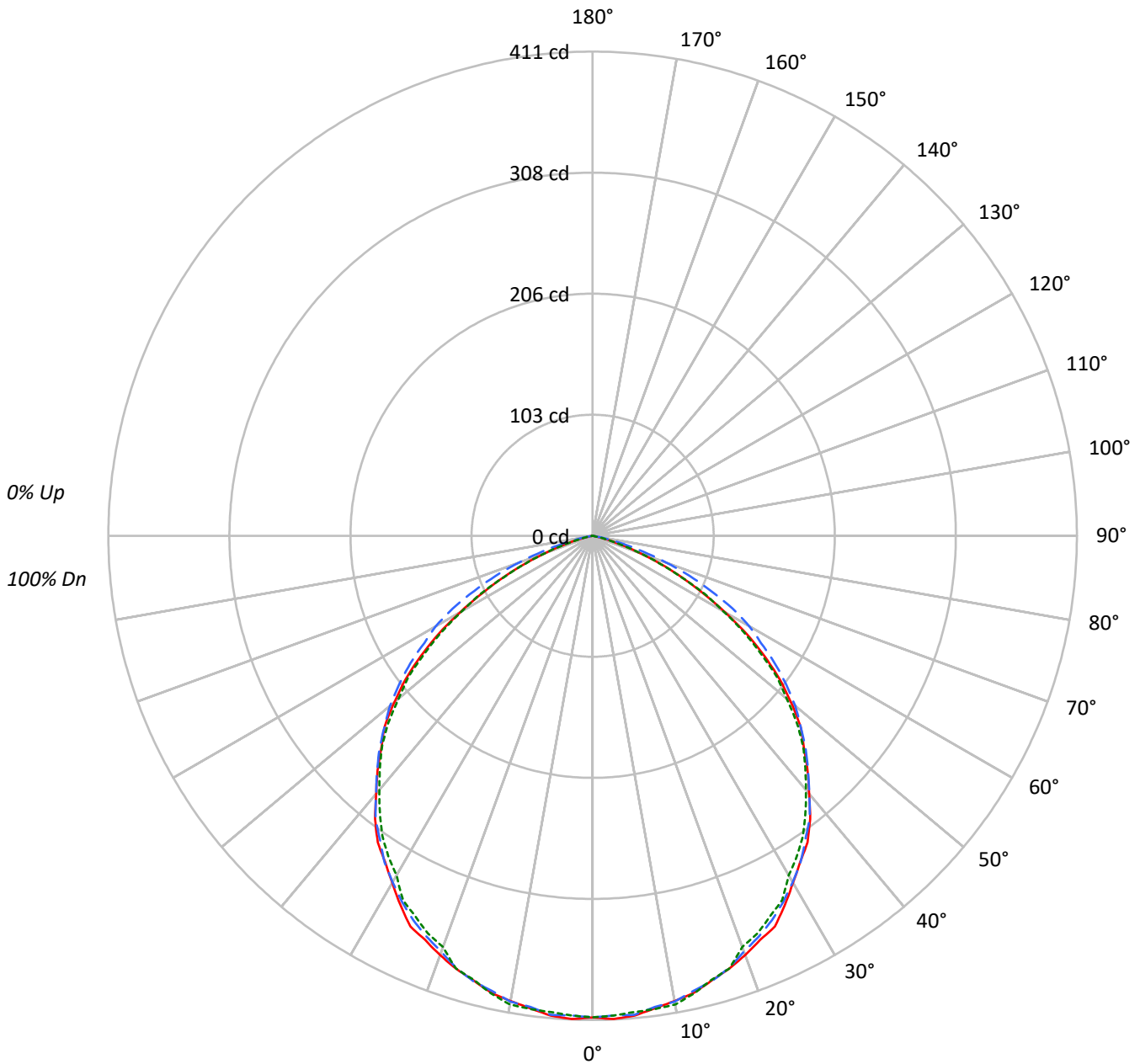
Lumens per Lamp: N/A
Luminaire Lumens: 987.0 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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°	17601	17601	17601
5°	17668	17642	17539
10°	17532	17558	17663
15°	17415	17442	17389
20°	17352	17210	17017
25°	17387	17102	16927
30°	16909	16879	16546
35°	16704	16541	16352
40°	16063	16063	15827
45°	15423	15570	15381
50°	14703	15024	14381
55°	13354	14165	13039
60°	11160	13235	11005
65°	8537	11298	8476
70°	5312	8346	5388
75°	2013	4508	1896
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°	110.3	11.2
20°-30°	165.9	16.8
30°-40°	196.3	19.9
40°-50°	195.9	19.8
50°-60°	162.4	16.5
60°-70°	94.9	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°	314.8	31.9
0°-40°	511.1	51.8
0°-60°	869.4	88.1
0°-90°	987.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	987.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	409	409	409	409	409	
5°	409	407	408	407	406	39
15°	391	390	391	390	390	110
25°	366	362	360	359	356	167
35°	318	315	315	313	311	198
45°	253	254	256	253	253	196
55°	178	184	189	184	174	158
65°	84	94	111	94	83	83
75°	12	18	27	17	11	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°	408.8	408.8	408.8	408.8	408.8	408.8	408.8	408.8	408.8	408.8	408.8
2.5°	410.6	408.2	410.0	406.4	408.8	406.4	407.0	405.8	408.2	407.6	407.0
5°	408.8	409.4	408.2	409.4	407.6	405.8	407.6	406.4	402.8	408.2	407.0
7.5°	404.6	405.2	404.0	405.8	404.6	402.2	407.0	403.4	402.8	403.4	405.8
10°	401.0	402.2	401.6	401.0	401.6	401.6	400.4	398.6	400.4	401.6	401.0
12.5°	397.4	399.2	397.9	396.8	395.6	396.1	397.4	394.3	394.3	395.6	399.2
15°	390.7	391.9	392.5	390.1	390.1	390.7	393.1	388.3	390.7	391.3	391.9
17.5°	385.3	385.9	385.9	384.1	385.3	383.5	385.3	382.9	385.3	384.7	385.9
20°	378.7	379.9	378.7	378.7	377.5	378.1	378.1	378.1	376.3	375.6	376.8
22.5°	371.4	371.4	370.2	371.4	370.2	369.6	372.6	367.8	372.6	368.4	372.0
25°	366.0	363.0	361.2	360.6	363.0	360.6	361.8	360.0	361.2	360.0	360.6
27.5°	353.3	351.5	350.9	351.5	351.5	350.9	353.3	346.7	350.9	350.3	350.3
30°	340.1	340.1	341.3	340.1	341.3	339.5	341.9	336.5	340.1	339.5	340.1
32.5°	328.0	328.6	328.6	329.8	328.0	328.6	328.6	326.8	328.0	328.6	327.4
35°	317.8	314.7	314.7	314.7	314.7	314.7	316.0	314.2	316.0	314.7	314.7
37.5°	303.3	300.3	300.3	299.7	302.7	300.9	303.9	301.5	301.5	302.7	302.7
40°	285.8	287.0	285.2	287.6	287.0	284.6	290.0	286.4	288.8	285.8	288.2
42.5°	270.1	270.7	270.1	269.5	271.9	271.3	273.7	271.3	270.7	270.7	274.9
45°	253.3	253.3	253.3	255.1	253.3	253.8	256.3	255.1	256.3	255.7	259.9
47.5°	239.4	236.4	235.8	239.4	238.8	239.4	239.4	240.0	240.6	239.4	241.2
50°	219.5	218.3	218.3	218.9	219.5	220.7	222.5	223.7	222.5	224.3	224.9
52.5°	200.2	199.0	199.6	202.0	203.2	202.6	205.6	206.2	205.6	206.8	206.8
55°	177.9	176.7	178.5	181.5	183.3	185.1	188.1	185.7	188.1	188.7	189.3
57.5°	155.0	154.4	155.0	158.0	159.8	164.0	168.8	168.8	171.2	169.4	171.2
60°	129.6	129.6	132.1	133.9	138.7	141.7	146.5	148.9	151.4	153.7	152.6
62.5°	105.5	106.1	107.9	112.1	115.2	119.4	124.8	127.2	131.4	133.9	132.6
65°	83.8	83.8	85.0	88.6	91.6	97.1	101.9	107.3	109.8	110.9	111.6
67.5°	62.7	62.1	64.5	66.9	70.0	75.4	80.8	83.8	88.0	89.2	88.6
70°	42.2	42.8	44.0	46.4	50.0	54.3	60.3	62.7	65.1	66.3	65.1
72.5°	26.5	26.5	27.1	29.5	32.0	35.0	39.2	41.6	44.6	45.2	44.0
75°	12.1	12.1	13.3	14.5	16.3	18.7	21.7	23.5	25.3	27.1	27.1
77.5°	2.4	3.0	3.6	3.6	4.8	6.6	8.4	10.2	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°	408.8	408.8	408.8	408.8	408.8	408.8	408.8	408.8
2.5°	408.8	412.4	408.8	407.0	409.4	408.8	407.0	407.6
5°	407.0	408.2	409.4	404.6	407.6	408.2	407.0	405.8
7.5°	405.2	405.8	405.2	404.0	404.0	404.0	405.2	405.2
10°	404.6	402.8	399.8	397.9	399.8	399.8	399.2	404.0
12.5°	396.8	399.2	397.4	393.7	397.4	396.8	396.8	397.9
15°	390.7	390.7	391.9	387.1	389.5	388.9	388.9	390.1
17.5°	384.7	384.7	384.1	382.9	382.3	384.1	382.3	385.3
20°	376.3	377.5	381.1	375.0	376.8	375.0	375.0	371.4
22.5°	366.0	372.0	369.0	368.4	367.8	368.4	369.6	365.4
25°	359.4	359.4	360.6	357.0	357.0	358.2	357.6	356.3
27.5°	350.3	349.7	349.1	347.9	350.9	348.5	348.5	348.5
30°	337.7	339.5	338.9	335.8	339.5	338.3	336.5	332.8
32.5°	326.8	329.2	325.6	325.0	324.4	325.0	325.6	322.6
35°	313.5	314.2	314.2	311.7	312.3	311.7	310.5	311.1
37.5°	301.5	300.9	297.9	296.7	297.3	297.3	297.9	296.7
40°	284.6	286.4	286.4	282.2	283.4	282.2	282.2	281.6
42.5°	270.7	271.3	269.5	267.7	267.7	267.1	265.9	267.1
45°	256.3	255.7	253.8	252.0	252.0	251.4	250.2	252.6
47.5°	240.0	238.8	238.2	235.8	235.8	232.1	232.8	235.1
50°	223.7	222.5	220.1	218.9	217.1	215.3	214.7	214.7
52.5°	204.4	204.4	202.0	199.6	199.0	197.8	196.6	197.2
55°	187.5	187.5	185.7	181.5	179.1	176.1	174.2	173.7
57.5°	168.2	167.0	163.4	158.6	156.2	153.7	151.9	151.9
60°	148.9	145.9	142.3	138.1	133.9	129.6	128.4	127.8
62.5°	127.8	124.8	118.2	113.4	110.3	107.9	105.5	107.3
65°	106.7	102.5	96.5	91.6	88.6	85.0	83.2	83.2
67.5°	84.4	80.2	74.2	69.3	66.3	63.9	61.5	61.5
70°	62.1	59.1	53.7	49.4	47.0	43.4	42.8	42.8
72.5°	42.2	38.6	34.4	31.4	28.9	26.5	25.3	24.7
75°	23.5	21.1	18.1	16.3	13.9	12.7	11.4	11.4
77.5°	9.6	7.8	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)