

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: P840497

Luminaire Tested: **LD6C08D010 EU6089040 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: P840497  
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 6LBCSSQMMS  
Description: 6 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS AND 6LBCSSQ TRIM WITH MMS FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

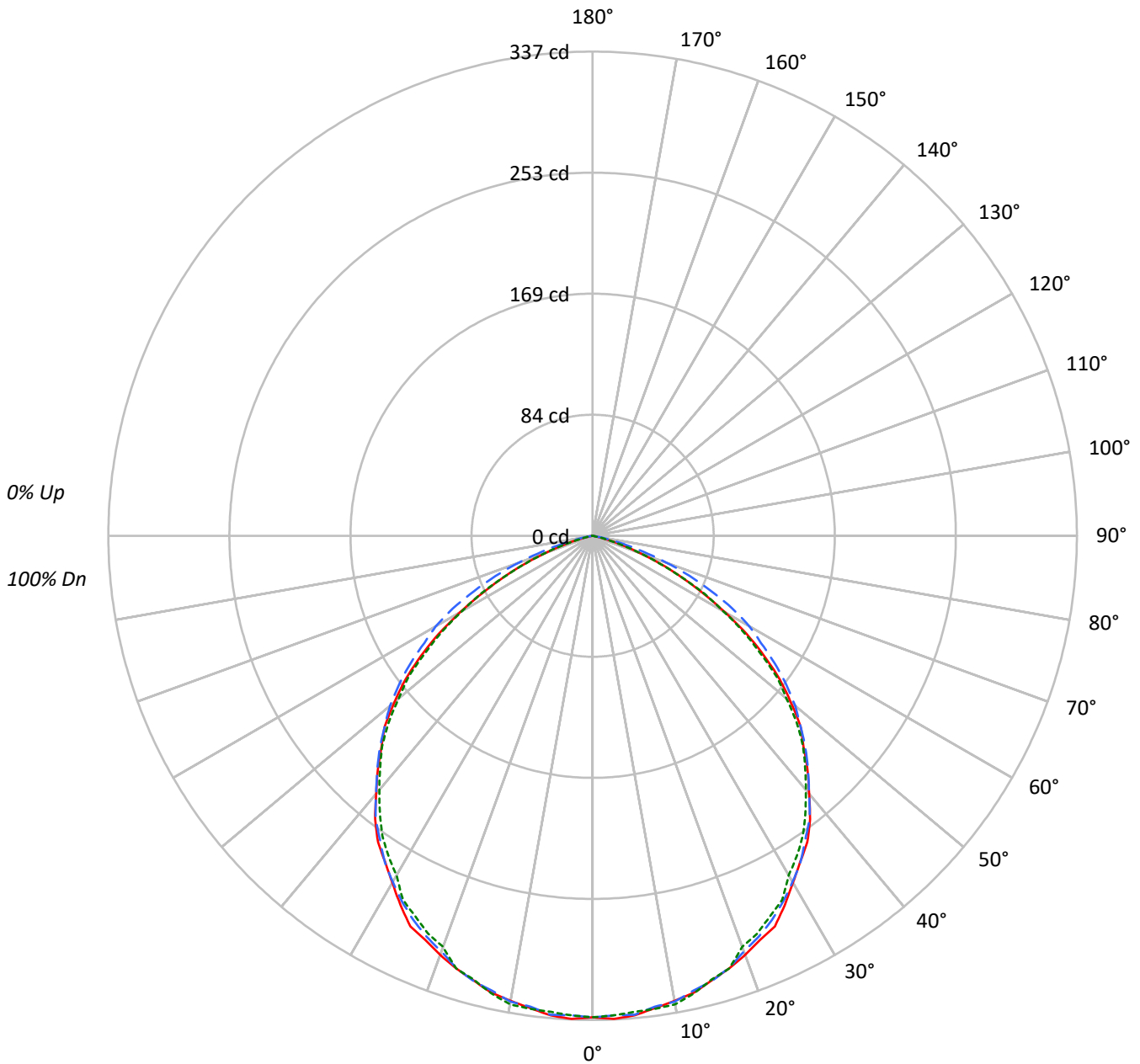
Lumens per Lamp: N/A  
Luminaire Lumens: 809.0 lumens  
Efficiency: N/A  
Efficacy: 81.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.9  
Input Voltage (V):  
Input Current (A<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°	14428	14428	14428
5°	14483	14461	14375
10°	14371	14393	14476
15°	14277	14299	14255
20°	14222	14108	13947
25°	14252	14019	13877
30°	13856	13831	13563
35°	13687	13561	13403
40°	13169	13169	12972
45°	12641	12756	12610
50°	12050	12318	11789
55°	10945	11613	10682
60°	9154	10850	9024
65°	6999	9261	6948
70°	4356	6848	4419
75°	1647	3693	1564
80°	124	620	124
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31.7	3.9
10°-20°	90.4	11.2
20°-30°	136.0	16.8
30°-40°	160.9	19.9
40°-50°	160.5	19.8
50°-60°	133.1	16.5
60°-70°	77.8	9.6
70°-80°	18.5	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°	258.0	31.9
0°-40°	418.9	51.8
0°-60°	712.6	88.1
0°-90°	809.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	809.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	335	335	335	335	335	
5°	335	333	335	334	333	32
15°	320	320	321	319	320	91
25°	300	296	295	294	292	137
35°	260	258	258	256	255	162
45°	208	208	210	207	207	161
55°	146	151	155	150	142	129
65°	69	77	91	77	68	68
75°	10	14	22	14	9	13
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°	335.1	335.1	335.1	335.1	335.1	335.1	335.1	335.1	335.1	335.1	335.1
2.5°	336.6	334.6	336.1	333.1	335.1	333.1	333.6	332.6	334.6	334.1	333.6
5°	335.1	335.6	334.6	335.6	334.1	332.6	334.1	333.1	330.1	334.6	333.6
7.5°	331.6	332.1	331.1	332.6	331.6	329.6	333.6	330.6	330.1	330.6	332.6
10°	328.7	329.6	329.2	328.7	329.2	329.2	328.2	326.7	328.2	329.2	328.7
12.5°	325.7	327.2	326.2	325.2	324.2	324.7	325.7	323.2	323.2	324.2	327.2
15°	320.3	321.2	321.7	319.8	319.8	320.3	322.2	318.3	320.3	320.8	321.2
17.5°	315.8	316.3	316.3	314.8	315.8	314.3	315.8	313.8	315.8	315.3	316.3
20°	310.4	311.4	310.4	310.4	309.4	309.9	309.9	309.9	308.4	307.9	308.9
22.5°	304.4	304.4	303.4	304.4	303.4	303.0	305.4	301.5	305.4	302.0	304.9
25°	300.0	297.5	296.0	295.5	297.5	295.5	296.5	295.1	296.0	295.1	295.5
27.5°	289.6	288.1	287.6	288.1	288.1	287.6	289.6	284.2	287.6	287.1	287.1
30°	278.7	278.7	279.7	278.7	279.7	278.2	280.2	275.8	278.7	278.2	278.7
32.5°	268.9	269.3	269.3	270.3	268.9	269.3	269.3	267.9	268.9	269.3	268.4
35°	260.4	258.0	258.0	258.0	258.0	258.0	259.0	257.5	259.0	258.0	258.0
37.5°	248.6	246.1	246.1	245.6	248.1	246.6	249.1	247.1	247.1	248.1	248.1
40°	234.3	235.2	233.8	235.7	235.2	233.3	237.7	234.8	236.7	234.3	236.2
42.5°	221.4	221.9	221.4	220.9	222.9	222.4	224.4	222.4	221.9	221.9	225.4
45°	207.6	207.6	207.6	209.1	207.6	208.1	210.0	209.1	210.0	209.5	213.0
47.5°	196.2	193.7	193.2	196.2	195.7	196.2	196.2	196.7	197.2	196.2	197.7
50°	179.9	178.9	178.9	179.4	179.9	180.9	182.4	183.4	182.4	183.9	184.3
52.5°	164.1	163.1	163.6	165.6	166.5	166.1	168.5	169.0	168.5	169.5	169.5
55°	145.8	144.8	146.3	148.8	150.2	151.7	154.2	152.2	154.2	154.7	155.2
57.5°	127.0	126.5	127.0	129.5	131.0	134.4	138.4	138.4	140.4	138.9	140.4
60°	106.3	106.3	108.2	109.7	113.7	116.1	120.1	122.1	124.1	126.0	125.0
62.5°	86.5	87.0	88.5	91.9	94.4	97.9	102.3	104.3	107.7	109.7	108.7
65°	68.7	68.7	69.7	72.6	75.1	79.6	83.5	88.0	90.0	90.9	91.4
67.5°	51.4	50.9	52.9	54.9	57.3	61.8	66.2	68.7	72.2	73.2	72.6
70°	34.6	35.1	36.1	38.1	41.0	44.5	49.4	51.4	53.4	54.4	53.4
72.5°	21.7	21.7	22.2	24.2	26.2	28.7	32.1	34.1	36.6	37.1	36.1
75°	9.9	9.9	10.9	11.9	13.3	15.3	17.8	19.3	20.8	22.2	22.2
77.5°	2.0	2.5	3.0	3.0	3.9	5.4	6.9	8.4	9.9	9.9	9.9
80°	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.5	2.5	2.5	2.5
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°	335.1	335.1	335.1	335.1	335.1	335.1	335.1	335.1
2.5°	335.1	338.1	335.1	333.6	335.6	335.1	333.6	334.1
5°	333.6	334.6	335.6	331.6	334.1	334.6	333.6	332.6
7.5°	332.1	332.6	332.1	331.1	331.1	331.1	332.1	332.1
10°	331.6	330.1	327.7	326.2	327.7	327.7	327.2	331.1
12.5°	325.2	327.2	325.7	322.7	325.7	325.2	325.2	326.2
15°	320.3	320.3	321.2	317.3	319.3	318.8	318.8	319.8
17.5°	315.3	315.3	314.8	313.8	313.3	314.8	313.3	315.8
20°	308.4	309.4	312.3	307.4	308.9	307.4	307.4	304.4
22.5°	300.0	304.9	302.5	302.0	301.5	302.0	303.0	299.5
25°	294.5	294.5	295.5	292.6	292.6	293.6	293.1	292.1
27.5°	287.1	286.6	286.2	285.2	287.6	285.7	285.7	285.7
30°	276.8	278.2	277.8	275.3	278.2	277.3	275.8	272.8
32.5°	267.9	269.9	266.9	266.4	265.9	266.4	266.9	264.4
35°	257.0	257.5	257.5	255.5	256.0	255.5	254.5	255.0
37.5°	247.1	246.6	244.1	243.2	243.6	243.6	244.1	243.2
40°	233.3	234.8	234.8	231.3	232.3	231.3	231.3	230.8
42.5°	221.9	222.4	220.9	219.4	219.4	218.9	218.0	218.9
45°	210.0	209.5	208.1	206.6	206.6	206.1	205.1	207.1
47.5°	196.7	195.7	195.2	193.2	193.2	190.3	190.8	192.7
50°	183.4	182.4	180.4	179.4	177.9	176.4	176.0	176.0
52.5°	167.5	167.5	165.6	163.6	163.1	162.1	161.1	161.6
55°	153.7	153.7	152.2	148.8	146.8	144.3	142.8	142.3
57.5°	137.9	136.9	133.9	130.0	128.0	126.0	124.5	124.5
60°	122.1	119.6	116.6	113.2	109.7	106.3	105.3	104.8
62.5°	104.8	102.3	96.9	92.9	90.4	88.5	86.5	88.0
65°	87.5	84.0	79.1	75.1	72.6	69.7	68.2	68.2
67.5°	69.2	65.7	60.8	56.8	54.4	52.4	50.4	50.4
70°	50.9	48.4	44.0	40.5	38.5	35.6	35.1	35.1
72.5°	34.6	31.6	28.2	25.7	23.7	21.7	20.8	20.3
75°	19.3	17.3	14.8	13.3	11.4	10.4	9.4	9.4
77.5°	7.9	6.4	4.9	3.9	3.0	2.5	2.0	2.5
80°	1.5	1.0	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)