

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: P840501

Luminaire Tested: **LD6C08D010 EU6089050 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: P840501  
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 6LBCSSQMMS  
Description: 6 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS AND 6LBCSSQ TRIM WITH MMS FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

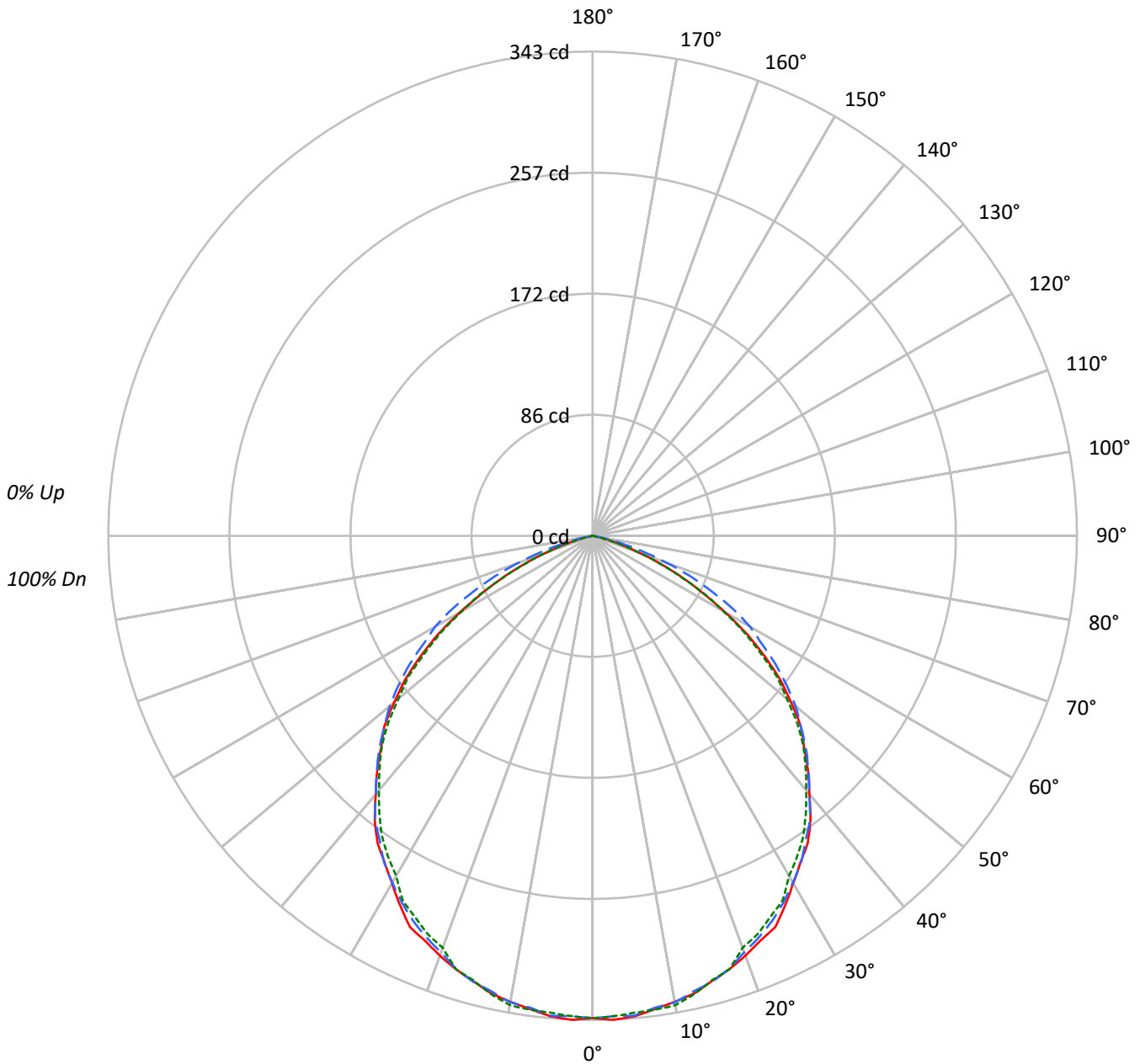
Lumens per Lamp: N/A  
Luminaire Lumens: 825.0 lumens  
Efficiency: N/A  
Efficacy: 83.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

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°	14712	14712	14712
5°	14768	14747	14660
10°	14655	14677	14764
15°	14558	14580	14536
20°	14502	14387	14227
25°	14532	14295	14152
30°	14129	14105	13831
35°	13960	13829	13671
40°	13427	13427	13231
45°	12890	13012	12860
50°	12291	12559	12017
55°	11162	11845	10899
60°	9334	11065	9205
65°	7142	9444	7081
70°	4444	6974	4507
75°	1680	3776	1597
80°	124	620	124
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.3	3.9
10°-20°	92.2	11.2
20°-30°	138.7	16.8
30°-40°	164.1	19.9
40°-50°	163.7	19.8
50°-60°	135.8	16.5
60°-70°	79.3	9.6
70°-80°	18.9	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°	263.1	31.9
0°-40°	427.2	51.8
0°-60°	726.7	88.1
0°-90°	825.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	825.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	342	342	342	342	342	
5°	342	340	341	340	339	32
15°	327	326	327	326	326	92
25°	306	302	301	300	298	140
35°	266	263	263	262	260	165
45°	212	212	214	211	211	164
55°	149	154	158	153	145	132
65°	70	79	93	79	70	70
75°	10	15	23	14	10	14
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°	341.7	341.7	341.7	341.7	341.7	341.7	341.7	341.7	341.7	341.7	341.7
2.5°	343.2	341.2	342.7	339.7	341.7	339.7	340.2	339.2	341.2	340.7	340.2
5°	341.7	342.2	341.2	342.2	340.7	339.2	340.7	339.7	336.7	341.2	340.2
7.5°	338.2	338.7	337.7	339.2	338.2	336.2	340.2	337.2	336.7	337.2	339.2
10°	335.2	336.2	335.7	335.2	335.7	335.7	334.7	333.1	334.7	335.7	335.2
12.5°	332.1	333.6	332.6	331.6	330.6	331.1	332.1	329.6	329.6	330.6	333.6
15°	326.6	327.6	328.1	326.1	326.1	326.6	328.6	324.6	326.6	327.1	327.6
17.5°	322.0	322.6	322.6	321.0	322.0	320.5	322.0	320.0	322.0	321.6	322.6
20°	316.5	317.5	316.5	316.5	315.5	316.0	316.0	316.0	314.5	314.0	315.0
22.5°	310.5	310.5	309.4	310.5	309.4	309.0	311.5	307.4	311.5	307.9	311.0
25°	305.9	303.4	301.9	301.4	303.4	301.4	302.4	300.9	301.9	300.9	301.4
27.5°	295.3	293.8	293.3	293.8	293.8	293.3	295.3	289.8	293.3	292.8	292.8
30°	284.2	284.2	285.3	284.2	285.3	283.7	285.8	281.2	284.2	283.7	284.2
32.5°	274.2	274.7	274.7	275.7	274.2	274.7	274.7	273.2	274.2	274.7	273.7
35°	265.6	263.1	263.1	263.1	263.1	263.1	264.1	262.6	264.1	263.1	263.1
37.5°	253.5	251.0	251.0	250.5	253.0	251.5	254.0	252.0	252.0	253.0	253.0
40°	238.9	239.9	238.4	240.4	239.9	237.9	242.4	239.4	241.4	238.9	240.9
42.5°	225.8	226.3	225.8	225.3	227.3	226.8	228.8	226.8	226.3	226.3	229.8
45°	211.7	211.7	211.7	213.2	211.7	212.2	214.2	213.2	214.2	213.7	217.2
47.5°	200.1	197.6	197.1	200.1	199.6	200.1	200.1	200.6	201.1	200.1	201.6
50°	183.5	182.4	182.4	183.0	183.5	184.5	186.0	187.0	186.0	187.5	188.0
52.5°	167.3	166.3	166.8	168.8	169.8	169.3	171.9	172.4	171.9	172.9	172.9
55°	148.7	147.7	149.2	151.7	153.2	154.7	157.2	155.2	157.2	157.8	158.3
57.5°	129.5	129.0	129.5	132.0	133.6	137.1	141.1	141.1	143.1	141.6	143.1
60°	108.4	108.4	110.4	111.9	115.9	118.4	122.5	124.5	126.5	128.5	127.5
62.5°	88.2	88.7	90.2	93.7	96.3	99.8	104.3	106.3	109.9	111.9	110.9
65°	70.1	70.1	71.1	74.1	76.6	81.1	85.2	89.7	91.7	92.7	93.2
67.5°	52.4	51.9	53.9	56.0	58.5	63.0	67.5	70.1	73.6	74.6	74.1
70°	35.3	35.8	36.8	38.8	41.8	45.4	50.4	52.4	54.4	55.4	54.4
72.5°	22.2	22.2	22.7	24.7	26.7	29.2	32.8	34.8	37.3	37.8	36.8
75°	10.1	10.1	11.1	12.1	13.6	15.6	18.1	19.7	21.2	22.7	22.7
77.5°	2.0	2.5	3.0	3.0	4.0	5.5	7.1	8.6	10.1	10.1	10.1
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°	341.7	341.7	341.7	341.7	341.7	341.7	341.7	341.7
2.5°	341.7	344.7	341.7	340.2	342.2	341.7	340.2	340.7
5°	340.2	341.2	342.2	338.2	340.7	341.2	340.2	339.2
7.5°	338.7	339.2	338.7	337.7	337.7	337.7	338.7	338.7
10°	338.2	336.7	334.2	332.6	334.2	334.2	333.6	337.7
12.5°	331.6	333.6	332.1	329.1	332.1	331.6	331.6	332.6
15°	326.6	326.6	327.6	323.6	325.6	325.1	325.1	326.1
17.5°	321.6	321.6	321.0	320.0	319.5	321.0	319.5	322.0
20°	314.5	315.5	318.5	313.5	315.0	313.5	313.5	310.5
22.5°	305.9	311.0	308.4	307.9	307.4	307.9	309.0	305.4
25°	300.4	300.4	301.4	298.4	298.4	299.4	298.9	297.9
27.5°	292.8	292.3	291.8	290.8	293.3	291.3	291.3	291.3
30°	282.2	283.7	283.3	280.7	283.7	282.7	281.2	278.2
32.5°	273.2	275.2	272.2	271.7	271.1	271.7	272.2	269.6
35°	262.1	262.6	262.6	260.6	261.1	260.6	259.6	260.1
37.5°	252.0	251.5	249.0	248.0	248.5	248.5	249.0	248.0
40°	237.9	239.4	239.4	235.9	236.9	235.9	235.9	235.4
42.5°	226.3	226.8	225.3	223.8	223.8	223.3	222.3	223.3
45°	214.2	213.7	212.2	210.7	210.7	210.2	209.2	211.2
47.5°	200.6	199.6	199.1	197.1	197.1	194.0	194.5	196.6
50°	187.0	186.0	184.0	183.0	181.4	179.9	179.4	179.4
52.5°	170.9	170.9	168.8	166.8	166.3	165.3	164.3	164.8
55°	156.7	156.7	155.2	151.7	149.7	147.2	145.6	145.2
57.5°	140.6	139.6	136.6	132.6	130.5	128.5	127.0	127.0
60°	124.5	122.0	118.9	115.4	111.9	108.4	107.3	106.9
62.5°	106.9	104.3	98.8	94.7	92.2	90.2	88.2	89.7
65°	89.2	85.7	80.6	76.6	74.1	71.1	69.5	69.5
67.5°	70.6	67.0	62.0	58.0	55.4	53.4	51.4	51.4
70°	51.9	49.4	44.9	41.3	39.3	36.3	35.8	35.8
72.5°	35.3	32.3	28.7	26.2	24.2	22.2	21.2	20.7
75°	19.7	17.6	15.1	13.6	11.6	10.6	9.6	9.6
77.5°	8.1	6.6	5.0	4.0	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)