

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: P840475

Luminaire Tested: **LD6C05D010 EU6059035 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: P840475  
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: LD6C05D010 EU6059035 6LBCSSQMW  
Description: 6 INCH 500 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**

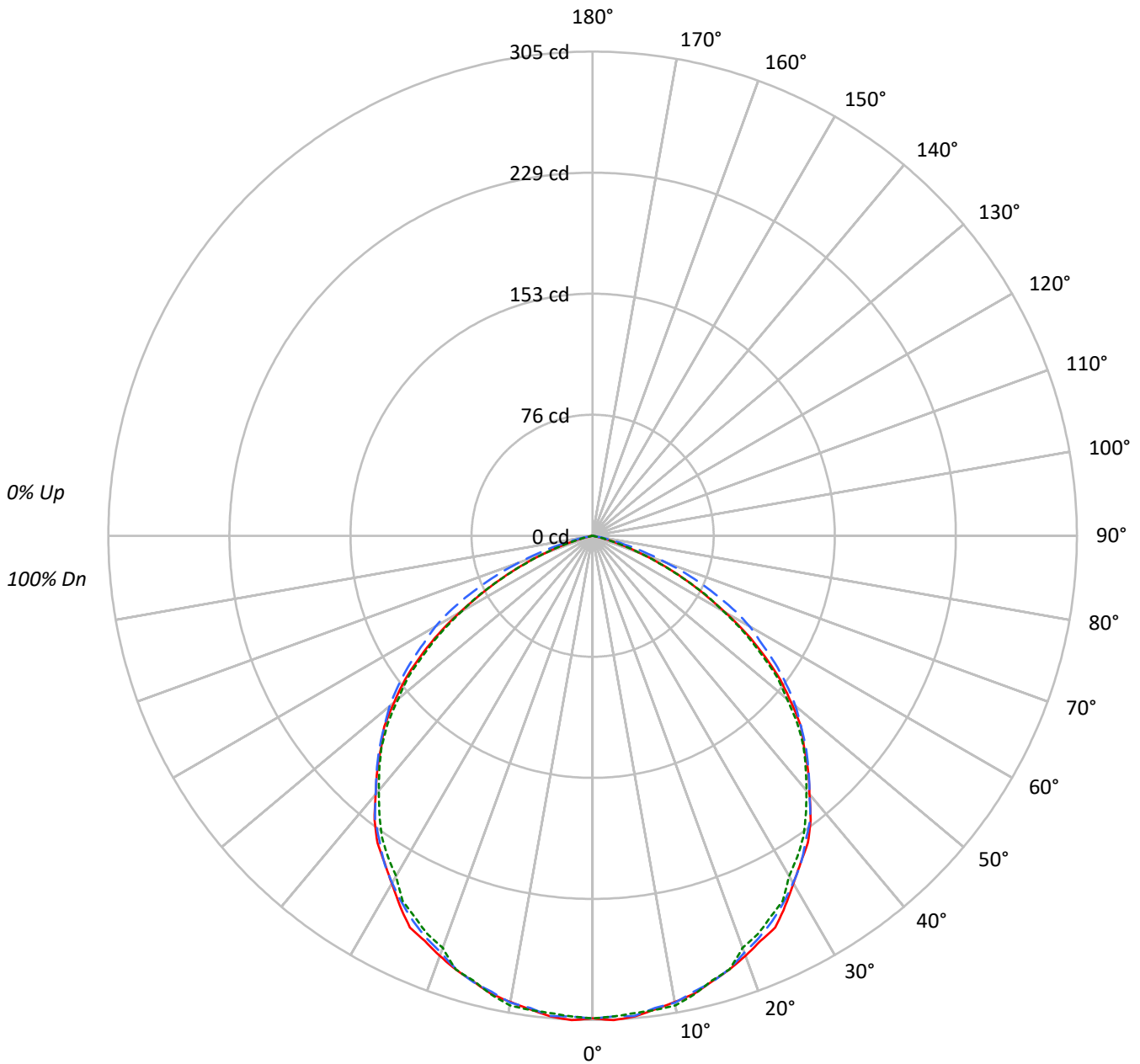
Lumens per Lamp: N/A  
Luminaire Lumens: 734.0 lumens  
Efficiency: N/A  
Efficacy: 101.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 7.2  
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					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°	13089	13089	13089
5°	13139	13122	13044
10°	13037	13055	13133
15°	12953	12971	12931
20°	12903	12802	12655
25°	12931	12718	12589
30°	12573	12553	12305
35°	12420	12305	12163
40°	11944	11944	11769
45°	11466	11575	11441
50°	10932	11173	10690
55°	9931	10539	9691
60°	8301	9843	8189
65°	6347	8405	6306
70°	3953	6206	4003
75°	1497	3360	1414
80°	99	545	99
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.8	3.9
10°-20°	82.0	11.2
20°-30°	123.4	16.8
30°-40°	146.0	19.9
40°-50°	145.7	19.8
50°-60°	120.8	16.5
60°-70°	70.6	9.6
70°-80°	16.8	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°	234.1	31.9
0°-40°	380.1	51.8
0°-60°	646.5	88.1
0°-90°	734.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	734.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	304	304	304	304	304	
5°	304	302	304	303	302	29
15°	291	290	291	290	290	82
25°	272	269	268	267	265	124
35°	236	234	234	233	231	147
45°	188	189	190	188	188	146
55°	132	137	140	137	129	117
65°	62	70	82	70	62	62
75°	9	13	20	13	8	12
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°	304.0	304.0	304.0	304.0	304.0	304.0	304.0	304.0	304.0	304.0	304.0
2.5°	305.4	303.6	304.9	302.2	304.0	302.2	302.7	301.8	303.6	303.1	302.7
5°	304.0	304.5	303.6	304.5	303.1	301.8	303.1	302.2	299.5	303.6	302.7
7.5°	300.9	301.3	300.4	301.8	300.9	299.1	302.7	300.0	299.5	300.0	301.8
10°	298.2	299.1	298.6	298.2	298.6	298.6	297.7	296.4	297.7	298.6	298.2
12.5°	295.5	296.8	295.9	295.1	294.2	294.6	295.5	293.3	293.3	294.2	296.8
15°	290.6	291.5	291.9	290.1	290.1	290.6	292.4	288.8	290.6	291.0	291.5
17.5°	286.5	287.0	287.0	285.6	286.5	285.2	286.5	284.7	286.5	286.1	287.0
20°	281.6	282.5	281.6	281.6	280.7	281.1	281.1	281.1	279.8	279.4	280.3
22.5°	276.2	276.2	275.3	276.2	275.3	274.9	277.1	273.5	277.1	274.0	276.7
25°	272.2	269.9	268.6	268.1	269.9	268.1	269.0	267.7	268.6	267.7	268.1
27.5°	262.8	261.4	261.0	261.4	261.4	261.0	262.8	257.8	261.0	260.5	260.5
30°	252.9	252.9	253.8	252.9	253.8	252.5	254.2	250.2	252.9	252.5	252.9
32.5°	243.9	244.4	244.4	245.3	243.9	244.4	244.4	243.0	243.9	244.4	243.5
35°	236.3	234.1	234.1	234.1	234.1	234.1	235.0	233.6	235.0	234.1	234.1
37.5°	225.6	223.3	223.3	222.9	225.1	223.8	226.0	224.2	224.2	225.1	225.1
40°	212.5	213.4	212.1	213.9	213.4	211.6	215.7	213.0	214.8	212.5	214.3
42.5°	200.9	201.3	200.9	200.4	202.2	201.8	203.6	201.8	201.3	201.3	204.5
45°	188.3	188.3	188.3	189.7	188.3	188.8	190.6	189.7	190.6	190.1	193.3
47.5°	178.0	175.8	175.3	178.0	177.6	178.0	178.0	178.5	178.9	178.0	179.4
50°	163.2	162.3	162.3	162.8	163.2	164.1	165.5	166.4	165.5	166.8	167.3
52.5°	148.9	148.0	148.4	150.2	151.1	150.7	152.9	153.3	152.9	153.8	153.8
55°	132.3	131.4	132.7	135.0	136.3	137.7	139.9	138.1	139.9	140.4	140.8
57.5°	115.2	114.8	115.2	117.5	118.8	122.0	125.5	125.5	127.3	126.0	127.3
60°	96.4	96.4	98.2	99.5	103.1	105.4	109.0	110.8	112.6	114.3	113.5
62.5°	78.5	78.9	80.3	83.4	85.6	88.8	92.8	94.6	97.7	99.5	98.6
65°	62.3	62.3	63.2	65.9	68.2	72.2	75.8	79.8	81.6	82.5	83.0
67.5°	46.6	46.2	48.0	49.8	52.0	56.1	60.1	62.3	65.5	66.4	65.9
70°	31.4	31.8	32.7	34.5	37.2	40.4	44.8	46.6	48.4	49.3	48.4
72.5°	19.7	19.7	20.2	22.0	23.8	26.0	29.1	30.9	33.2	33.6	32.7
75°	9.0	9.0	9.9	10.8	12.1	13.9	16.1	17.5	18.8	20.2	20.2
77.5°	1.8	2.2	2.7	2.7	3.6	4.9	6.3	7.6	9.0	9.0	9.0
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.9	1.3	2.2	2.2	2.2
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°	304.0	304.0	304.0	304.0	304.0	304.0	304.0	304.0
2.5°	304.0	306.7	304.0	302.7	304.5	304.0	302.7	303.1
5°	302.7	303.6	304.5	300.9	303.1	303.6	302.7	301.8
7.5°	301.3	301.8	301.3	300.4	300.4	300.4	301.3	301.3
10°	300.9	299.5	297.3	295.9	297.3	297.3	296.8	300.4
12.5°	295.1	296.8	295.5	292.8	295.5	295.1	295.1	295.9
15°	290.6	290.6	291.5	287.9	289.7	289.2	289.2	290.1
17.5°	286.1	286.1	285.6	284.7	284.3	285.6	284.3	286.5
20°	279.8	280.7	283.4	278.9	280.3	278.9	278.9	276.2
22.5°	272.2	276.7	274.4	274.0	273.5	274.0	274.9	271.7
25°	267.2	267.2	268.1	265.5	265.5	266.4	265.9	265.0
27.5°	260.5	260.1	259.6	258.7	261.0	259.2	259.2	259.2
30°	251.1	252.5	252.0	249.8	252.5	251.6	250.2	247.5
32.5°	243.0	244.8	242.1	241.7	241.2	241.7	242.1	239.9
35°	233.2	233.6	233.6	231.8	232.3	231.8	230.9	231.4
37.5°	224.2	223.8	221.5	220.6	221.1	221.1	221.5	220.6
40°	211.6	213.0	213.0	209.9	210.7	209.9	209.9	209.4
42.5°	201.3	201.8	200.4	199.1	199.1	198.7	197.8	198.7
45°	190.6	190.1	188.8	187.4	187.4	187.0	186.1	187.9
47.5°	178.5	177.6	177.1	175.3	175.3	172.6	173.1	174.9
50°	166.4	165.5	163.7	162.8	161.4	160.1	159.6	159.6
52.5°	152.0	152.0	150.2	148.4	148.0	147.1	146.2	146.6
55°	139.5	139.5	138.1	135.0	133.2	130.9	129.6	129.1
57.5°	125.1	124.2	121.5	117.9	116.1	114.3	113.0	113.0
60°	110.8	108.5	105.8	102.7	99.5	96.4	95.5	95.1
62.5°	95.1	92.8	87.9	84.3	82.1	80.3	78.5	79.8
65°	79.4	76.2	71.7	68.2	65.9	63.2	61.9	61.9
67.5°	62.8	59.6	55.2	51.6	49.3	47.5	45.7	45.7
70°	46.2	43.9	39.9	36.8	35.0	32.3	31.8	31.8
72.5°	31.4	28.7	25.6	23.3	21.5	19.7	18.8	18.4
75°	17.5	15.7	13.5	12.1	10.3	9.4	8.5	8.5
77.5°	7.2	5.8	4.5	3.6	2.7	2.2	1.8	2.2
80°	1.3	0.9	0.4	0.4	0.4	0.4	0.4	0.4
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)