

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: P840519

Luminaire Tested: **LD6C100D010 EU61009050 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: P840519  
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: LD6C100D010 EU61009050 6LBCSSQMMS  
Description: 6 INCH 10000 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**

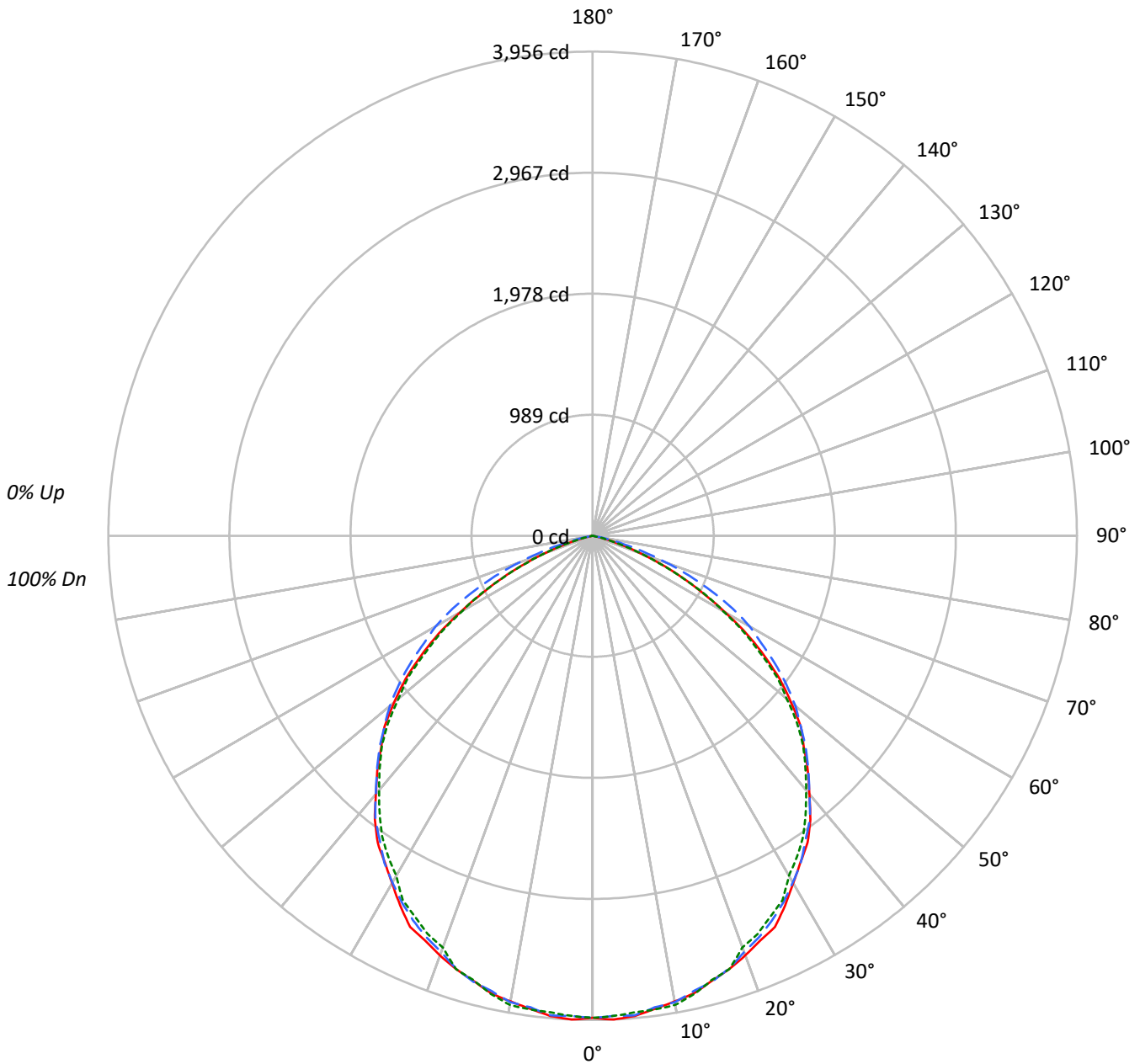
Lumens per Lamp: N/A  
Luminaire Lumens: 9510.0 lumens  
Efficiency: N/A  
Efficacy: 83.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 114.4  
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

TEST NUMBER: P840519

CATALOG NUMBER: LD6C100D010 EU61009050 6LBCSSQMMS

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				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°	169592	169592	169592
5°	170240	169993	168986
10°	168912	169165	170184
15°	167810	168073	167551
20°	167166	165837	163972
25°	167528	164772	163114
30°	162901	162617	159436
35°	160927	159397	157563
40°	154778	154778	152490
45°	148584	149990	148218
50°	141648	144770	138547
55°	128654	136506	125599
60°	107562	127565	106063
65°	82277	108898	81676
70°	51211	80454	51928
75°	19347	43502	18349
80°	1413	7190	1413
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	372.5	3.9
10°-20°	1062.3	11.2
20°-30°	1598.5	16.8
30°-40°	1891.0	19.9
40°-50°	1887.1	19.8
50°-60°	1564.9	16.5
60°-70°	914.3	9.6
70°-80°	217.7	2.3
80°-90°	1.6	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°	3033.4	31.9
0°-40°	4924.4	51.8
0°-60°	8376.4	88.1
0°-90°	9510.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9510.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3939	3939	3939	3939	3939	
5°	3939	3919	3933	3922	3910	373
15°	3765	3762	3771	3753	3759	1064
25°	3526	3486	3468	3457	3434	1612
35°	3062	3033	3033	3015	2998	1904
45°	2440	2443	2463	2437	2434	1888
55°	1714	1775	1818	1769	1673	1522
65°	808	909	1069	906	802	803
75°	116	169	262	166	110	157
85°	0	0	0	0	0	1
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°	3938.9	3938.9	3938.9	3938.9	3938.9	3938.9	3938.9	3938.9	3938.9	3938.9	3938.9
2.5°	3956.5	3933.2	3950.6	3915.8	3938.9	3915.8	3921.6	3909.9	3933.2	3927.3	3921.6
5°	3938.9	3944.9	3933.2	3944.9	3927.3	3909.9	3927.3	3915.8	3880.9	3933.2	3921.6
7.5°	3898.3	3904.2	3892.6	3909.9	3898.3	3875.0	3921.6	3886.6	3880.9	3886.6	3909.9
10°	3863.5	3875.0	3869.3	3863.5	3869.3	3869.3	3857.6	3840.3	3857.6	3869.3	3863.5
12.5°	3828.6	3846.0	3834.3	3822.9	3811.2	3817.0	3828.6	3799.6	3799.6	3811.2	3846.0
15°	3764.7	3776.3	3782.0	3758.9	3758.9	3764.7	3788.0	3741.4	3764.7	3770.6	3776.3
17.5°	3712.4	3718.3	3718.3	3700.7	3712.4	3695.0	3712.4	3689.1	3712.4	3706.6	3718.3
20°	3648.4	3660.1	3648.4	3648.4	3637.0	3642.7	3642.7	3642.7	3625.3	3619.4	3631.0
22.5°	3578.7	3578.7	3567.1	3578.7	3567.1	3561.4	3590.4	3544.0	3590.4	3549.7	3584.7
25°	3526.4	3497.4	3480.1	3474.1	3497.4	3474.1	3485.8	3468.4	3480.1	3468.4	3474.1
27.5°	3404.5	3387.1	3381.2	3387.1	3387.1	3381.2	3404.5	3340.5	3381.2	3375.5	3375.5
30°	3276.6	3276.6	3288.2	3276.6	3288.2	3270.9	3294.2	3241.9	3276.6	3270.9	3276.6
32.5°	3160.5	3166.3	3166.3	3177.9	3160.5	3166.3	3166.3	3148.9	3160.5	3166.3	3154.6
35°	3061.7	3032.6	3032.6	3032.6	3032.6	3032.6	3044.3	3026.9	3044.3	3032.6	3032.6
37.5°	2922.3	2893.3	2893.3	2887.4	2916.4	2899.0	2928.0	2904.7	2904.7	2916.4	2916.4
40°	2753.8	2765.4	2748.1	2771.1	2765.4	2742.1	2794.4	2759.7	2782.8	2753.8	2777.1
42.5°	2602.8	2608.5	2602.8	2596.9	2620.2	2614.4	2637.5	2614.4	2608.5	2608.5	2649.2
45°	2440.2	2440.2	2440.2	2457.5	2440.2	2445.9	2469.2	2457.5	2469.2	2463.3	2503.9
47.5°	2306.3	2277.3	2271.6	2306.3	2300.6	2306.3	2306.3	2312.3	2318.0	2306.3	2323.9
50°	2114.7	2103.1	2103.1	2109.0	2114.7	2126.4	2143.7	2155.4	2143.7	2161.3	2167.0
52.5°	1928.8	1917.2	1923.1	1946.2	1957.8	1952.1	1981.1	1986.8	1981.1	1992.8	1992.8
55°	1713.9	1702.2	1719.6	1748.8	1766.2	1783.5	1812.6	1789.5	1812.6	1818.5	1824.2
57.5°	1493.0	1487.3	1493.0	1522.0	1539.6	1580.3	1626.6	1626.6	1649.9	1632.6	1649.9
60°	1249.1	1249.1	1272.4	1289.8	1336.3	1365.3	1411.7	1435.0	1458.3	1481.4	1470.0
62.5°	1016.6	1022.5	1039.9	1080.5	1109.6	1150.4	1202.5	1225.8	1266.5	1289.8	1278.1
65°	807.6	807.6	819.3	854.0	883.0	935.3	981.9	1034.2	1057.5	1068.9	1074.8
67.5°	604.1	598.4	621.7	645.0	674.0	726.3	778.6	807.6	848.3	859.9	854.0
70°	406.8	412.5	424.1	447.4	482.1	522.8	581.0	604.1	627.4	639.1	627.4
72.5°	255.6	255.6	261.5	284.6	307.9	336.9	377.5	400.8	429.8	435.8	424.1
75°	116.3	116.3	127.9	139.3	156.9	180.2	209.2	226.6	243.9	261.5	261.5
77.5°	23.3	29.0	34.9	34.9	46.4	63.9	81.3	98.7	116.3	116.3	116.3
80°	5.7	5.7	5.7	5.7	5.7	5.7	11.6	17.4	29.0	29.0	29.0
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°	3938.9	3938.9	3938.9	3938.9	3938.9	3938.9	3938.9	3938.9
2.5°	3938.9	3973.9	3938.9	3921.6	3944.9	3938.9	3921.6	3927.3
5°	3921.6	3933.2	3944.9	3898.3	3927.3	3933.2	3921.6	3909.9
7.5°	3904.2	3909.9	3904.2	3892.6	3892.6	3892.6	3904.2	3904.2
10°	3898.3	3880.9	3851.9	3834.3	3851.9	3851.9	3846.0	3892.6
12.5°	3822.9	3846.0	3828.6	3793.7	3828.6	3822.9	3822.9	3834.3
15°	3764.7	3764.7	3776.3	3729.9	3753.0	3747.3	3747.3	3758.9
17.5°	3706.6	3706.6	3700.7	3689.1	3683.3	3700.7	3683.3	3712.4
20°	3625.3	3637.0	3671.7	3613.7	3631.0	3613.7	3613.7	3578.7
22.5°	3526.4	3584.7	3555.4	3549.7	3544.0	3549.7	3561.4	3520.7
25°	3462.5	3462.5	3474.1	3439.4	3439.4	3451.1	3445.1	3433.5
27.5°	3375.5	3369.5	3363.8	3352.2	3381.2	3358.1	3358.1	3358.1
30°	3253.5	3270.9	3265.1	3235.9	3270.9	3259.2	3241.9	3206.9
32.5°	3148.9	3172.2	3137.3	3131.5	3125.6	3131.5	3137.3	3108.2
35°	3021.0	3026.9	3026.9	3003.6	3009.4	3003.6	2992.0	2997.7
37.5°	2904.7	2899.0	2870.0	2858.4	2864.1	2864.1	2870.0	2858.4
40°	2742.1	2759.7	2759.7	2719.1	2730.5	2719.1	2719.1	2713.1
42.5°	2608.5	2614.4	2596.9	2579.5	2579.5	2573.8	2562.1	2573.8
45°	2469.2	2463.3	2445.9	2428.5	2428.5	2422.6	2411.0	2434.2
47.5°	2312.3	2300.6	2294.9	2271.6	2271.6	2236.7	2242.6	2265.7
50°	2155.4	2143.7	2120.7	2109.0	2091.4	2074.1	2068.4	2068.4
52.5°	1969.5	1969.5	1946.2	1923.1	1917.2	1905.5	1893.9	1899.8
55°	1806.8	1806.8	1789.5	1748.8	1725.5	1696.5	1678.9	1673.2
57.5°	1620.9	1609.3	1574.3	1528.0	1504.7	1481.4	1464.0	1464.0
60°	1435.0	1406.0	1371.1	1330.4	1289.8	1249.1	1237.5	1231.7
62.5°	1231.7	1202.5	1138.8	1092.2	1063.2	1039.9	1016.6	1034.2
65°	1028.2	987.6	929.6	883.0	854.0	819.3	801.7	801.7
67.5°	813.3	772.7	714.6	668.1	639.1	615.8	592.7	592.7
70°	598.4	569.4	517.1	476.4	453.1	418.2	412.5	412.5
72.5°	406.8	371.8	331.2	302.2	278.9	255.6	243.9	238.2
75°	226.6	203.3	174.3	156.9	133.6	122.0	110.3	110.3
77.5°	93.0	75.6	58.0	46.4	34.9	29.0	23.3	29.0
80°	17.4	11.6	5.7	5.7	5.7	5.7	5.7	5.7
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)