

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: P#

Luminaire Tested: **LX6C100D010 EX6C1009050 6LBCSSQMMS**

Issue Date: 5/25/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P#  
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: LX6C100D010 EX6C1009050 6LBCSSQMMS  
Description: 6 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 6LBCSSQ TRIM WITH MMS FINISH  
Light Source: -  
Ballast/Driver: -

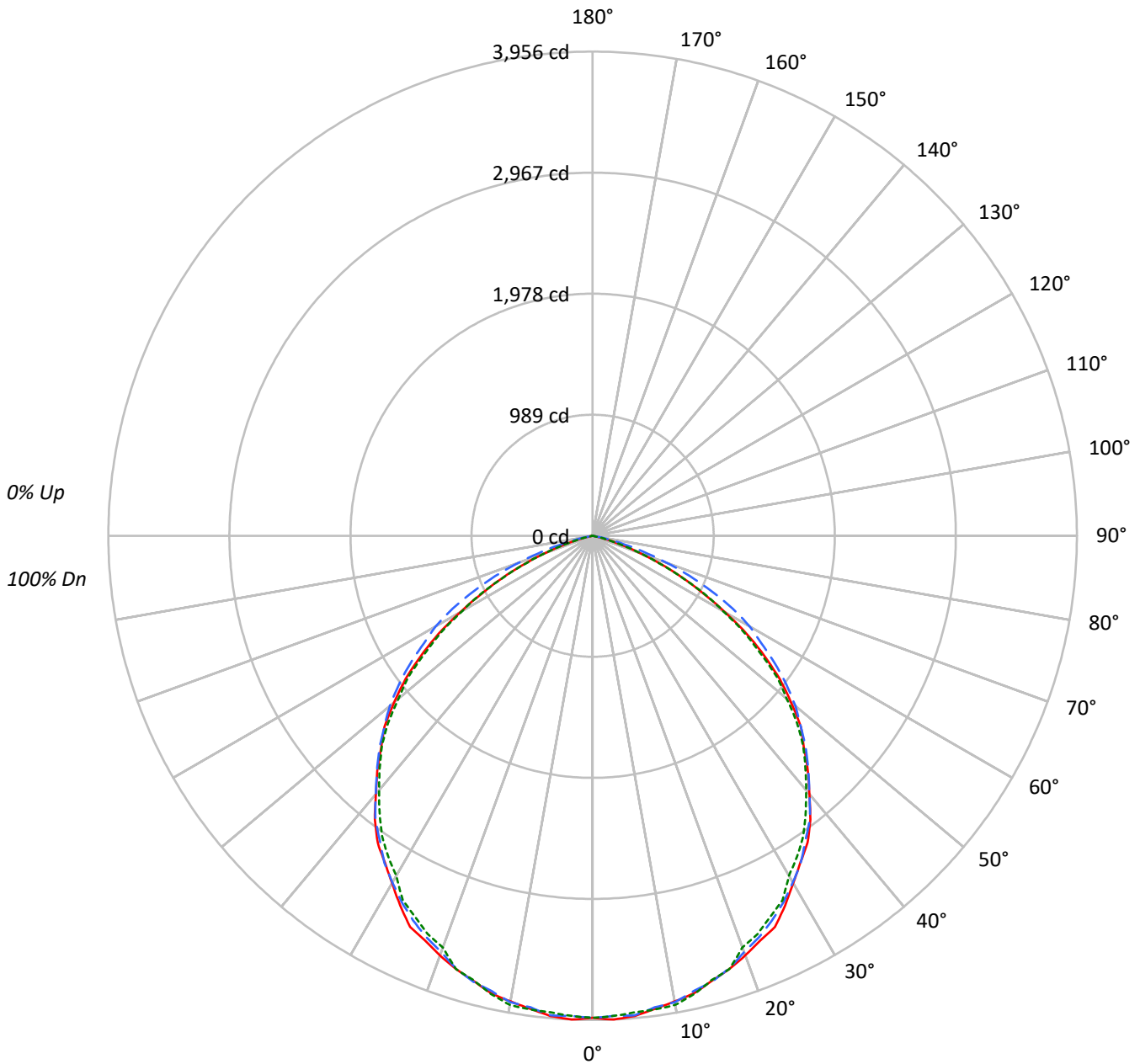
**Summary**

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

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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°	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)