

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 EX6C1009027 6LBCSSQMW**

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 EX6C1009027 6LBCSSQMW  
Description: 6 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 6LBCSSQ TRIM WITH MW FINISH  
Light Source: -  
Ballast/Driver: -

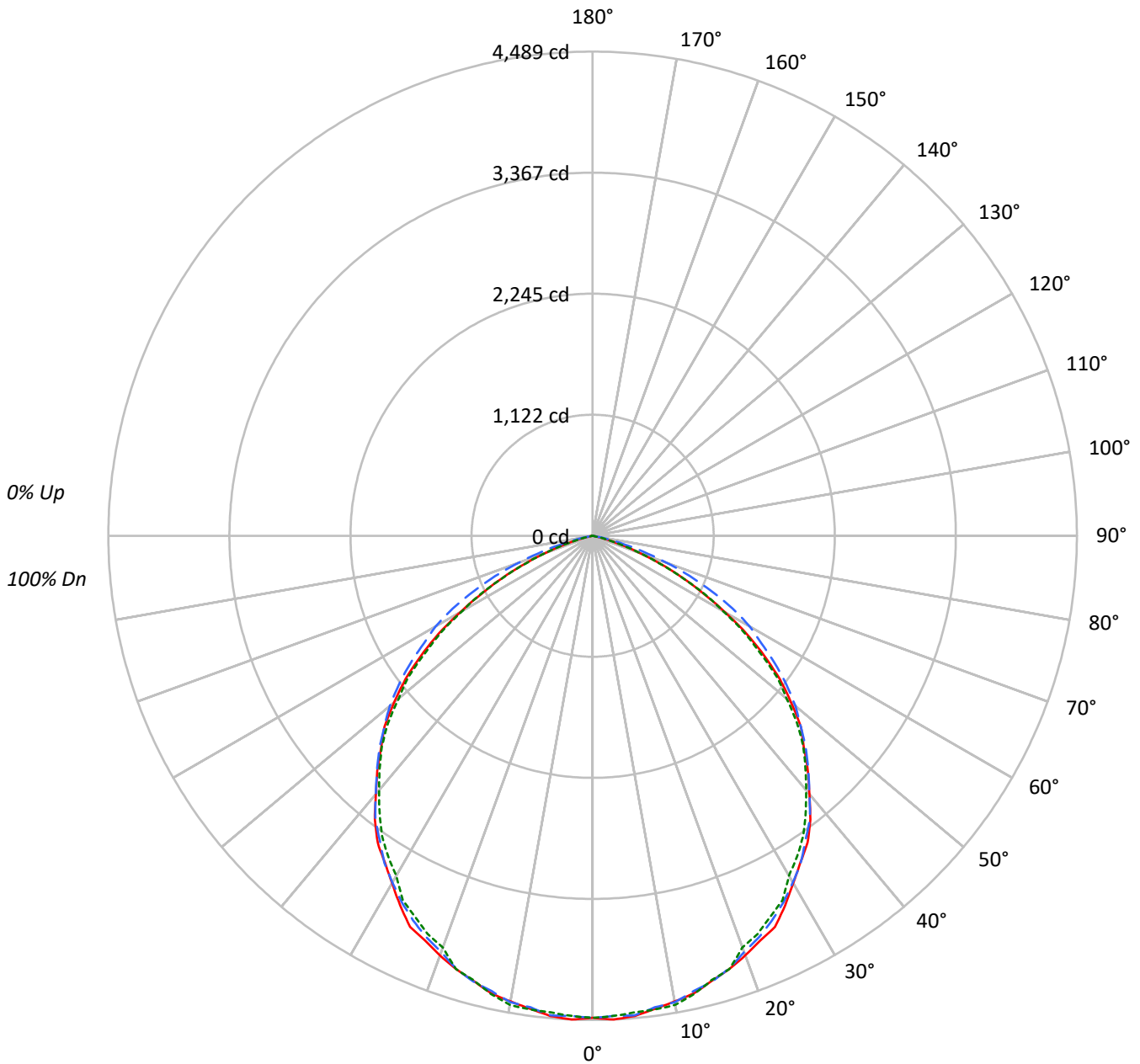
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10791.0 lumens  
Efficiency: N/A  
Efficacy: 94.3 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): 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: P#

CATALOG NUMBER: LX6C100D010 EX6C1009027 6LBCSSQMW

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LX6C100D010 EX6C1009027 6LBCSSQMW

**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	100	100
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87	87	87	87
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	75	75	75	75
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64	64	64	64
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56	56	56	56
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49	49	49	49
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43	43	43	43
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38	38	38	38
8	63	50	42	37	62	50	42	36	48	41	36	47	41	36	46	40	36	34	34	34	34
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31	31	31	31
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28	28	28	28

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	192437	192437	192437
5°	193172	192891	191750
10°	191668	191952	193106
15°	190413	190712	190124
20°	189681	188174	186061
25°	190098	186967	185086
30°	184841	184517	180913
35°	182603	180869	178787
40°	175624	175624	173033
45°	168598	170193	168184
50°	160732	164268	157208
55°	145979	154890	142519
60°	122054	144745	120358
65°	93361	123568	92679
70°	58109	91280	58915
75°	21942	49357	20828
80°	1612	8157	1612
85°	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: LX6C100D010 EX6C1009027 6LBCSSQMW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	422.7	3.9
10°-20°	1205.4	11.2
20°-30°	1813.8	16.8
30°-40°	2145.7	19.9
40°-50°	2141.4	19.8
50°-60°	1775.7	16.5
60°-70°	1037.4	9.6
70°-80°	247.0	2.3
80°-90°	1.8	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°	3442.0	31.9
0°-40°	5587.7	51.8
0°-60°	9504.7	88.1
0°-90°	10791.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10791.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4470	4470	4470	4470	4470	
5°	4470	4446	4463	4450	4437	423
15°	4272	4269	4278	4259	4265	1208
25°	4002	3955	3936	3922	3896	1829
35°	3474	3441	3441	3421	3402	2160
45°	2769	2772	2795	2766	2762	2142
55°	1945	2014	2063	2007	1899	1727
65°	916	1032	1213	1028	910	911
75°	132	191	297	188	125	179
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: LX6C100D010 EX6C1009027 6LBCSSQMW

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4469.5	4469.5	4469.5	4469.5	4469.5	4469.5	4469.5	4469.5	4469.5	4469.5	4469.5
2.5°	4489.4	4463.0	4482.7	4443.3	4469.5	4443.3	4449.8	4436.6	4463.0	4456.3	4449.8
5°	4469.5	4476.2	4463.0	4476.2	4456.3	4436.6	4456.3	4443.3	4403.7	4463.0	4449.8
7.5°	4423.4	4430.1	4416.9	4436.6	4423.4	4396.9	4449.8	4410.2	4403.7	4410.2	4436.6
10°	4384.0	4396.9	4390.5	4384.0	4390.5	4390.5	4377.2	4357.5	4377.2	4390.5	4384.0
12.5°	4344.3	4364.0	4350.8	4337.8	4324.6	4331.1	4344.3	4311.4	4311.4	4324.6	4364.0
15°	4271.8	4285.0	4291.5	4265.3	4265.3	4271.8	4298.2	4245.3	4271.8	4278.5	4285.0
17.5°	4212.4	4219.1	4219.1	4199.2	4212.4	4192.7	4212.4	4186.0	4212.4	4205.9	4219.1
20°	4139.8	4153.1	4139.8	4139.8	4126.9	4133.4	4133.4	4133.4	4113.7	4106.9	4120.1
22.5°	4060.8	4060.8	4047.6	4060.8	4047.6	4041.1	4074.0	4021.4	4074.0	4027.9	4067.5
25°	4001.5	3968.5	3948.8	3942.1	3968.5	3942.1	3955.3	3935.6	3948.8	3935.6	3942.1
27.5°	3863.1	3843.4	3836.6	3843.4	3843.4	3836.6	3863.1	3790.5	3836.6	3830.1	3830.1
30°	3717.9	3717.9	3731.1	3717.9	3731.1	3711.4	3737.9	3678.5	3717.9	3711.4	3717.9
32.5°	3586.3	3592.8	3592.8	3606.0	3586.3	3592.8	3592.8	3573.1	3586.3	3592.8	3579.5
35°	3474.1	3441.1	3441.1	3441.1	3441.1	3441.1	3454.4	3434.7	3454.4	3441.1	3441.1
37.5°	3316.0	3283.1	3283.1	3276.3	3309.2	3289.5	3322.4	3296.0	3296.0	3309.2	3309.2
40°	3124.7	3137.9	3118.2	3144.4	3137.9	3111.5	3170.8	3131.4	3157.6	3124.7	3151.1
42.5°	2953.4	2959.9	2953.4	2946.7	2973.1	2966.6	2992.8	2966.6	2959.9	2959.9	3006.0
45°	2768.9	2768.9	2768.9	2788.6	2768.9	2775.4	2801.8	2788.6	2801.8	2795.1	2841.2
47.5°	2617.0	2584.1	2577.6	2617.0	2610.5	2617.0	2617.0	2623.7	2630.2	2617.0	2637.0
50°	2399.6	2386.4	2386.4	2393.1	2399.6	2412.8	2432.5	2445.7	2432.5	2452.4	2458.9
52.5°	2188.6	2175.4	2182.1	2208.3	2221.5	2215.0	2248.0	2254.4	2248.0	2261.2	2261.2
55°	1944.7	1931.5	1951.2	1984.4	2004.1	2023.8	2056.7	2030.5	2056.7	2063.4	2069.9
57.5°	1694.1	1687.7	1694.1	1727.1	1747.0	1793.1	1845.8	1845.8	1872.2	1852.5	1872.2
60°	1417.4	1417.4	1443.8	1463.5	1516.3	1549.3	1601.9	1628.3	1654.7	1680.9	1668.0
62.5°	1153.5	1160.3	1180.0	1226.1	1259.0	1305.4	1364.5	1390.9	1437.1	1463.5	1450.3
65°	916.4	916.4	929.6	969.0	1001.9	1061.3	1114.1	1173.5	1199.9	1212.9	1219.6
67.5°	685.5	679.0	705.4	731.9	764.8	824.1	883.5	916.4	962.5	975.7	969.0
70°	461.6	468.0	481.3	507.7	547.1	593.2	659.3	685.5	711.9	725.1	711.9
72.5°	290.0	290.0	296.7	322.9	349.4	382.3	428.4	454.8	487.7	494.5	481.3
75°	131.9	131.9	145.1	158.1	178.0	204.5	237.4	257.1	276.8	296.7	296.7
77.5°	26.4	32.9	39.6	39.6	52.6	72.6	92.3	112.0	131.9	131.9	131.9
80°	6.5	6.5	6.5	6.5	6.5	6.5	13.2	19.7	32.9	32.9	32.9
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



TEST NUMBER: P#

CATALOG NUMBER: LX6C100D010 EX6C1009027 6LBCSSQMW

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	4469.5	4469.5	4469.5	4469.5	4469.5	4469.5	4469.5	4469.5
2.5°	4469.5	4509.1	4469.5	4449.8	4476.2	4469.5	4449.8	4456.3
5°	4449.8	4463.0	4476.2	4423.4	4456.3	4463.0	4449.8	4436.6
7.5°	4430.1	4436.6	4430.1	4416.9	4416.9	4416.9	4430.1	4430.1
10°	4423.4	4403.7	4370.8	4350.8	4370.8	4370.8	4364.0	4416.9
12.5°	4337.8	4364.0	4344.3	4304.7	4344.3	4337.8	4337.8	4350.8
15°	4271.8	4271.8	4285.0	4232.4	4258.5	4252.1	4252.1	4265.3
17.5°	4205.9	4205.9	4199.2	4186.0	4179.5	4199.2	4179.5	4212.4
20°	4113.7	4126.9	4166.3	4100.4	4120.1	4100.4	4100.4	4060.8
22.5°	4001.5	4067.5	4034.4	4027.9	4021.4	4027.9	4041.1	3995.0
25°	3928.9	3928.9	3942.1	3902.7	3902.7	3915.9	3909.2	3896.0
27.5°	3830.1	3823.4	3816.9	3803.7	3836.6	3810.4	3810.4	3810.4
30°	3691.7	3711.4	3705.0	3671.8	3711.4	3698.2	3678.5	3638.9
32.5°	3573.1	3599.5	3559.8	3553.4	3546.6	3553.4	3559.8	3526.9
35°	3427.9	3434.7	3434.7	3408.2	3414.7	3408.2	3395.0	3401.5
37.5°	3296.0	3289.5	3256.6	3243.4	3249.9	3249.9	3256.6	3243.4
40°	3111.5	3131.4	3131.4	3085.3	3098.3	3085.3	3085.3	3078.6
42.5°	2959.9	2966.6	2946.7	2927.0	2927.0	2920.5	2907.3	2920.5
45°	2801.8	2795.1	2775.4	2755.7	2755.7	2748.9	2735.7	2762.1
47.5°	2623.7	2610.5	2604.0	2577.6	2577.6	2538.0	2544.7	2570.9
50°	2445.7	2432.5	2406.3	2393.1	2373.1	2353.4	2347.0	2347.0
52.5°	2234.7	2234.7	2208.3	2182.1	2175.4	2162.2	2149.0	2155.7
55°	2050.2	2050.2	2030.5	1984.4	1958.0	1925.0	1905.1	1898.6
57.5°	1839.3	1826.1	1786.4	1733.8	1707.4	1680.9	1661.2	1661.2
60°	1628.3	1595.4	1555.7	1509.6	1463.5	1417.4	1404.1	1397.7
62.5°	1397.7	1364.5	1292.2	1239.3	1206.4	1180.0	1153.5	1173.5
65°	1166.7	1120.6	1054.8	1001.9	969.0	929.6	909.7	909.7
67.5°	922.9	876.7	810.9	758.0	725.1	698.7	672.5	672.5
70°	679.0	646.1	586.7	540.6	514.2	474.5	468.0	468.0
72.5°	461.6	421.9	375.8	342.9	316.4	290.0	276.8	270.3
75°	257.1	230.7	197.7	178.0	151.6	138.4	125.2	125.2
77.5°	105.5	85.8	65.8	52.6	39.6	32.9	26.4	32.9
80°	19.7	13.2	6.5	6.5	6.5	6.5	6.5	6.5
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)