

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 6LBCSSQMMS**

Issue Date: 5/25/2022



**Test Information**

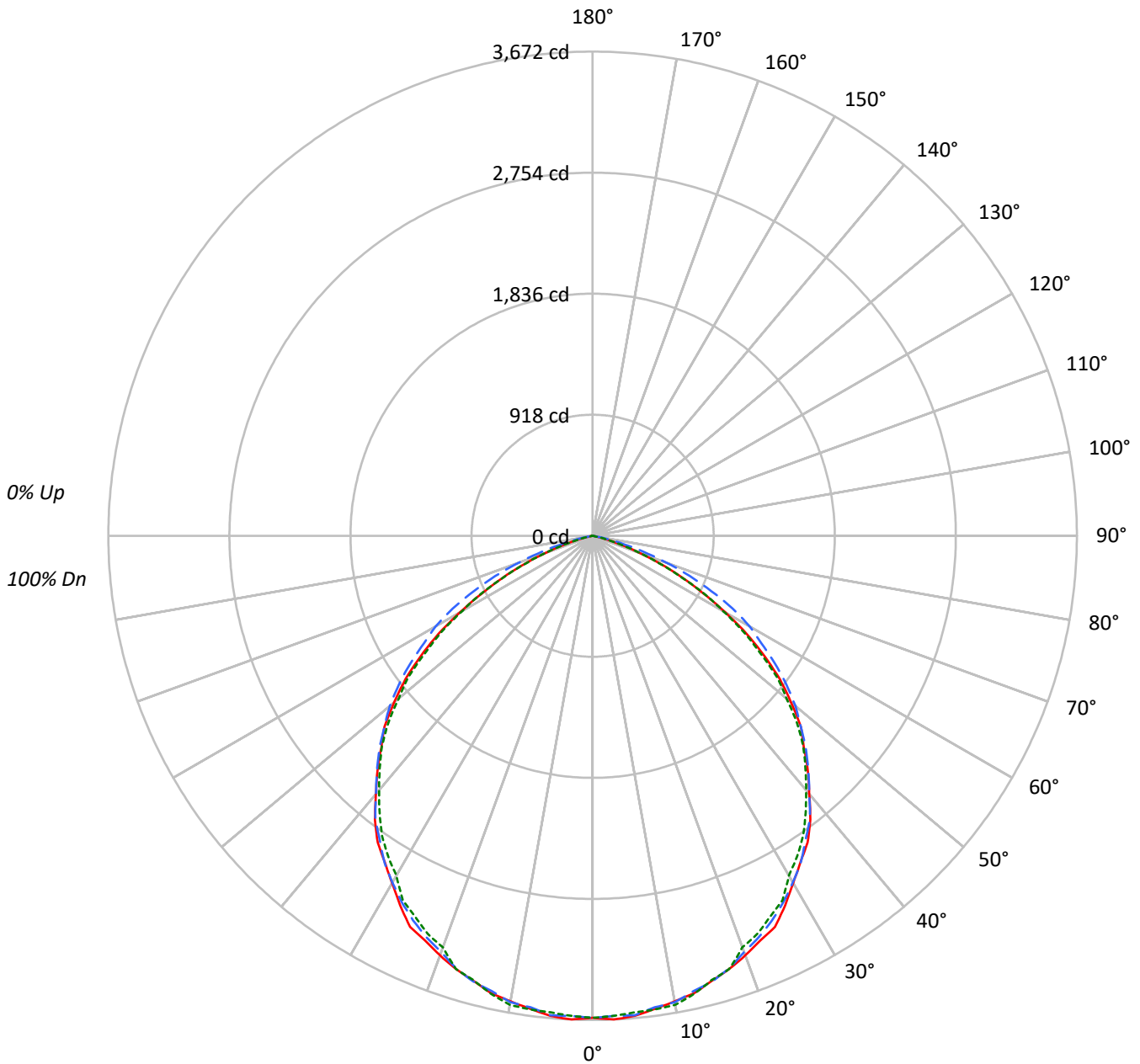
Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P209457)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/25/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX6C100D010 EX6C1009027 6LBCSSQMMS  
Description: 6 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 6LBCSSQ TRIM WITH MMS FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8826.0 lumens  
Efficiency: N/A  
Efficacy: 77.2 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 6LBCSSQMMS

### Luminous Intensity Polar Plot





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CATALOG NUMBER: LX6C100D010 EX6C1009027 6LBCSSQMMS

**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°	157394	157394	157394
5°	157995	157766	156833
10°	156766	156998	157942
15°	155739	155984	155503
20°	155143	153910	152178
25°	155480	152924	151380
30°	151183	150919	147971
35°	149348	147934	146231
40°	143644	143644	141525
45°	137897	139200	137562
50°	131460	134361	128580
55°	119399	126688	116569
60°	99829	118386	98434
65°	76358	101063	75798
70°	47522	74663	48189
75°	17950	40374	17035
80°	1314	6670	1314
85°	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: LX6C100D010 EX6C1009027 6LBCSSQMMS

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	345.7	3.9
10°-20°	985.9	11.2
20°-30°	1483.5	16.8
30°-40°	1755.0	19.9
40°-50°	1751.4	19.8
50°-60°	1452.3	16.5
60°-70°	848.5	9.6
70°-80°	202.1	2.3
80°-90°	1.5	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°	2815.2	31.9
0°-40°	4570.2	51.8
0°-60°	7774.0	88.1
0°-90°	8826.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8826.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3656	3656	3656	3656	3656	
5°	3656	3637	3650	3640	3629	346
15°	3494	3491	3499	3483	3489	988
25°	3273	3235	3219	3208	3186	1496
35°	2841	2814	2814	2798	2782	1767
45°	2265	2267	2286	2262	2259	1752
55°	1591	1647	1688	1642	1553	1412
65°	750	844	992	841	744	745
75°	108	156	243	154	102	146
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°	3655.6	3655.6	3655.6	3655.6	3655.6	3655.6	3655.6	3655.6	3655.6	3655.6	3655.6
2.5°	3671.9	3650.3	3666.4	3634.2	3655.6	3634.2	3639.5	3628.7	3650.3	3644.8	3639.5
5°	3655.6	3661.1	3650.3	3661.1	3644.8	3628.7	3644.8	3634.2	3601.8	3650.3	3639.5
7.5°	3617.9	3623.4	3612.6	3628.7	3617.9	3596.3	3639.5	3607.1	3601.8	3607.1	3628.7
10°	3585.7	3596.3	3591.0	3585.7	3591.0	3591.0	3580.2	3564.0	3580.2	3591.0	3585.7
12.5°	3553.2	3569.3	3558.5	3547.9	3537.1	3542.4	3553.2	3526.3	3526.3	3537.1	3569.3
15°	3493.9	3504.7	3510.0	3488.6	3488.6	3493.9	3515.5	3472.3	3493.9	3499.4	3504.7
17.5°	3445.3	3450.9	3450.9	3434.5	3445.3	3429.2	3445.3	3423.7	3445.3	3440.0	3450.9
20°	3386.0	3396.8	3386.0	3386.0	3375.4	3380.7	3380.7	3380.7	3364.6	3359.1	3369.9
22.5°	3321.3	3321.3	3310.5	3321.3	3310.5	3305.2	3332.2	3289.1	3332.2	3294.4	3326.9
25°	3272.8	3245.9	3229.8	3224.3	3245.9	3224.3	3235.1	3219.0	3229.8	3219.0	3224.3
27.5°	3159.6	3143.5	3138.0	3143.5	3143.5	3138.0	3159.6	3100.3	3138.0	3132.7	3132.7
30°	3040.9	3040.9	3051.7	3040.9	3051.7	3035.6	3057.2	3008.7	3040.9	3035.6	3040.9
32.5°	2933.2	2938.5	2938.5	2949.3	2933.2	2938.5	2938.5	2922.4	2933.2	2938.5	2927.7
35°	2841.4	2814.5	2814.5	2814.5	2814.5	2814.5	2825.3	2809.2	2825.3	2814.5	2814.5
37.5°	2712.1	2685.2	2685.2	2679.7	2706.6	2690.5	2717.4	2695.8	2695.8	2706.6	2706.6
40°	2555.7	2566.5	2550.4	2571.8	2566.5	2544.9	2593.4	2561.2	2582.6	2555.7	2577.3
42.5°	2415.6	2420.9	2415.6	2410.1	2431.7	2426.4	2447.8	2426.4	2420.9	2420.9	2458.6
45°	2264.7	2264.7	2264.7	2280.8	2264.7	2270.0	2291.6	2280.8	2291.6	2286.1	2323.8
47.5°	2140.5	2113.5	2108.2	2140.5	2135.2	2140.5	2140.5	2146.0	2151.3	2140.5	2156.8
50°	1962.6	1951.8	1951.8	1957.3	1962.6	1973.4	1989.5	2000.4	1989.5	2005.9	2011.2
52.5°	1790.1	1779.3	1784.8	1806.2	1817.0	1811.7	1838.6	1843.9	1838.6	1849.4	1849.4
55°	1590.6	1579.8	1595.9	1623.0	1639.2	1655.3	1682.2	1660.8	1682.2	1687.7	1693.0
57.5°	1385.6	1380.3	1385.6	1412.6	1428.9	1466.6	1509.6	1509.6	1531.3	1515.2	1531.3
60°	1159.3	1159.3	1180.9	1197.0	1240.2	1267.1	1310.2	1331.8	1353.4	1374.8	1364.2
62.5°	943.5	949.0	965.1	1002.8	1029.7	1067.7	1116.0	1137.6	1175.4	1197.0	1186.2
65°	749.5	749.5	760.3	792.6	819.5	868.0	911.3	959.8	981.4	992.0	997.5
67.5°	560.7	555.4	577.0	598.6	625.5	674.1	722.6	749.5	787.3	798.1	792.6
70°	377.5	382.8	393.6	415.2	447.5	485.2	539.2	560.7	582.3	593.1	582.3
72.5°	237.2	237.2	242.7	264.1	285.7	312.7	350.4	372.0	398.9	404.4	393.6
75°	107.9	107.9	118.7	129.3	145.6	167.2	194.2	210.3	226.4	242.7	242.7
77.5°	21.6	26.9	32.4	32.4	43.0	59.3	75.5	91.6	107.9	107.9	107.9
80°	5.3	5.3	5.3	5.3	5.3	5.3	10.8	16.1	26.9	26.9	26.9
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



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3655.6	3655.6	3655.6	3655.6	3655.6	3655.6	3655.6	3655.6
2.5°	3655.6	3688.0	3655.6	3639.5	3661.1	3655.6	3639.5	3644.8
5°	3639.5	3650.3	3661.1	3617.9	3644.8	3650.3	3639.5	3628.7
7.5°	3623.4	3628.7	3623.4	3612.6	3612.6	3612.6	3623.4	3623.4
10°	3617.9	3601.8	3574.9	3558.5	3574.9	3574.9	3569.3	3612.6
12.5°	3547.9	3569.3	3553.2	3520.8	3553.2	3547.9	3547.9	3558.5
15°	3493.9	3493.9	3504.7	3461.7	3483.1	3477.8	3477.8	3488.6
17.5°	3440.0	3440.0	3434.5	3423.7	3418.4	3434.5	3418.4	3445.3
20°	3364.6	3375.4	3407.6	3353.8	3369.9	3353.8	3353.8	3321.3
22.5°	3272.8	3326.9	3299.7	3294.4	3289.1	3294.4	3305.2	3267.5
25°	3213.5	3213.5	3224.3	3192.0	3192.0	3202.8	3197.3	3186.5
27.5°	3132.7	3127.2	3121.9	3111.1	3138.0	3116.6	3116.6	3116.6
30°	3019.5	3035.6	3030.3	3003.2	3035.6	3024.8	3008.7	2976.3
32.5°	2922.4	2944.0	2911.6	2906.3	2900.8	2906.3	2911.6	2884.7
35°	2803.7	2809.2	2809.2	2787.6	2792.9	2787.6	2776.8	2782.1
37.5°	2695.8	2690.5	2663.6	2652.8	2658.1	2658.1	2663.6	2652.8
40°	2544.9	2561.2	2561.2	2523.5	2534.1	2523.5	2523.5	2518.0
42.5°	2420.9	2426.4	2410.1	2394.0	2394.0	2388.7	2377.9	2388.7
45°	2291.6	2286.1	2270.0	2253.9	2253.9	2248.4	2237.5	2259.2
47.5°	2146.0	2135.2	2129.9	2108.2	2108.2	2075.8	2081.3	2102.7
50°	2000.4	1989.5	1968.1	1957.3	1941.0	1924.9	1919.6	1919.6
52.5°	1827.8	1827.8	1806.2	1784.8	1779.3	1768.5	1757.7	1763.2
55°	1676.9	1676.9	1660.8	1623.0	1601.4	1574.5	1558.2	1552.9
57.5°	1504.3	1493.5	1461.1	1418.1	1396.5	1374.8	1358.7	1358.7
60°	1331.8	1304.9	1272.5	1234.7	1197.0	1159.3	1148.4	1143.1
62.5°	1143.1	1116.0	1056.9	1013.6	986.7	965.1	943.5	959.8
65°	954.3	916.6	862.7	819.5	792.6	760.3	744.0	744.0
67.5°	754.8	717.1	663.2	620.0	593.1	571.5	550.1	550.1
70°	555.4	528.4	479.9	442.2	420.5	388.1	382.8	382.8
72.5°	377.5	345.1	307.4	280.4	258.8	237.2	226.4	221.1
75°	210.3	188.7	161.7	145.6	124.0	113.2	102.4	102.4
77.5°	86.3	70.2	53.8	43.0	32.4	26.9	21.6	26.9
80°	16.1	10.8	5.3	5.3	5.3	5.3	5.3	5.3
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)