

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 EX6C1009030 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 EX6C1009030 6LBCSSQMMS
Description: 6 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LBCSSQ TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Summary

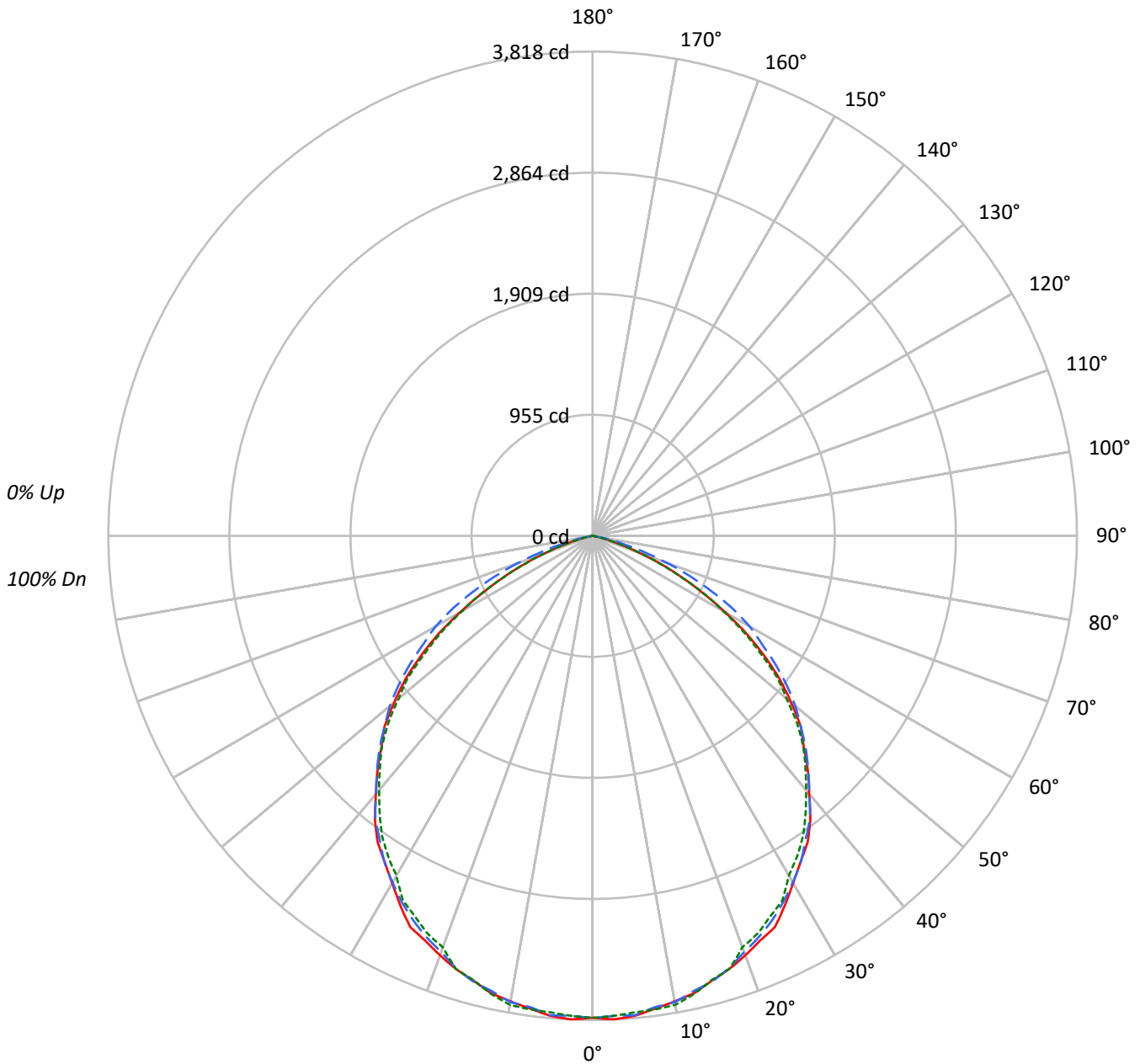
Lumens per Lamp: N/A
Luminaire Lumens: 9176.0 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 114.4
Input Voltage (V):
Input Current (A_{in}): 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 EX6C1009030 6LBCSSQMMS

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LX6C100D010 EX6C1009030 6LBCSSQMMS

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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																			
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87																			
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	75																			
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64																			
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56																			
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49																			
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43																			
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38																			
8	63	50	42	37	62	50	42	36	48	41	36	47	41	36	46	40	36	34																			
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31																			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	163637	163637	163637
5°	164262	164025	163052
10°	162983	163224	164203
15°	161912	162171	161667
20°	161296	160013	158217
25°	161646	158986	157385
30°	157178	156905	153837
35°	155271	153799	152028
40°	149343	149343	147134
45°	143365	144717	143018
50°	136678	139686	133677
55°	124135	131709	121193
60°	103781	123088	102343
65°	79384	105077	78803
70°	49410	77622	50103
75°	18665	41971	17700
80°	1364	6943	1364
85°	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: LX6C100D010 EX6C1009030 6LBCSSQMMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.4	3.9
10°-20°	1025.0	11.2
20°-30°	1542.4	16.8
30°-40°	1824.6	19.9
40°-50°	1820.9	19.8
50°-60°	1509.9	16.5
60°-70°	882.2	9.6
70°-80°	210.1	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°	2926.8	31.9
0°-40°	4751.4	51.8
0°-60°	8082.2	88.1
0°-90°	9176.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9176.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3801	3801	3801	3801	3801	
5°	3801	3781	3795	3784	3773	360
15°	3632	3630	3638	3621	3627	1027
25°	3403	3363	3347	3335	3313	1555
35°	2954	2926	2926	2909	2892	1837
45°	2354	2357	2377	2352	2349	1821
55°	1654	1713	1755	1707	1614	1468
65°	779	877	1031	874	774	775
75°	112	163	252	160	106	152
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: LX6C100D010 EX6C1009030 6LBCSSQMMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3800.6	3800.6	3800.6	3800.6	3800.6	3800.6	3800.6	3800.6	3800.6	3800.6	3800.6
2.5°	3817.5	3795.1	3811.8	3778.3	3800.6	3778.3	3783.8	3772.6	3795.1	3789.3	3783.8
5°	3800.6	3806.3	3795.1	3806.3	3789.3	3772.6	3789.3	3778.3	3744.6	3795.1	3783.8
7.5°	3761.4	3767.1	3755.8	3772.6	3761.4	3738.9	3783.8	3750.1	3744.6	3750.1	3772.6
10°	3727.9	3738.9	3733.4	3727.9	3733.4	3733.4	3722.1	3705.4	3722.1	3733.4	3727.9
12.5°	3694.1	3710.9	3699.7	3688.6	3677.4	3682.9	3694.1	3666.2	3666.2	3677.4	3710.9
15°	3632.4	3643.7	3649.2	3626.9	3626.9	3632.4	3654.9	3610.0	3632.4	3638.2	3643.7
17.5°	3582.0	3587.7	3587.7	3570.7	3582.0	3565.2	3582.0	3559.5	3582.0	3576.5	3587.7
20°	3520.3	3531.5	3520.3	3520.3	3509.2	3514.8	3514.8	3514.8	3498.0	3492.3	3503.5
22.5°	3453.1	3453.1	3441.8	3453.1	3441.8	3436.3	3464.3	3419.6	3464.3	3425.1	3458.8
25°	3402.6	3374.6	3357.8	3352.1	3374.6	3352.1	3363.4	3346.6	3357.8	3346.6	3352.1
27.5°	3284.9	3268.2	3262.4	3268.2	3268.2	3262.4	3284.9	3223.2	3262.4	3256.9	3256.9
30°	3161.5	3161.5	3172.7	3161.5	3172.7	3156.0	3178.5	3128.0	3161.5	3156.0	3161.5
32.5°	3049.5	3055.1	3055.1	3066.3	3049.5	3055.1	3055.1	3038.3	3049.5	3055.1	3043.8
35°	2954.1	2926.1	2926.1	2926.1	2926.1	2926.1	2937.4	2920.6	2937.4	2926.1	2926.1
37.5°	2819.7	2791.7	2791.7	2786.0	2814.0	2797.2	2825.2	2802.7	2802.7	2814.0	2814.0
40°	2657.1	2668.3	2651.5	2673.8	2668.3	2645.8	2696.3	2662.8	2685.0	2657.1	2679.5
42.5°	2511.4	2516.9	2511.4	2505.7	2528.1	2522.6	2544.9	2522.6	2516.9	2516.9	2556.1
45°	2354.5	2354.5	2354.5	2371.2	2354.5	2360.0	2382.5	2371.2	2382.5	2376.7	2416.0
47.5°	2225.3	2197.4	2191.8	2225.3	2219.8	2225.3	2225.3	2231.1	2236.6	2225.3	2242.3
50°	2040.5	2029.2	2029.2	2034.9	2040.5	2051.7	2068.4	2079.7	2068.4	2085.4	2090.9
52.5°	1861.1	1849.8	1855.6	1877.8	1889.1	1883.5	1911.5	1917.0	1911.5	1922.8	1922.8
55°	1653.7	1642.5	1659.2	1687.4	1704.2	1720.9	1748.9	1726.6	1748.9	1754.6	1760.1
57.5°	1440.6	1435.1	1440.6	1468.6	1485.5	1524.8	1569.5	1569.5	1592.0	1575.2	1592.0
60°	1205.2	1205.2	1227.7	1244.5	1289.4	1317.4	1362.1	1384.6	1407.1	1429.4	1418.3
62.5°	980.9	986.6	1003.4	1042.6	1070.6	1110.0	1160.3	1182.8	1222.0	1244.5	1233.2
65°	779.2	779.2	790.5	824.0	852.0	902.4	947.4	997.9	1020.3	1031.4	1037.1
67.5°	582.9	577.4	599.9	622.3	650.3	700.8	751.3	779.2	818.5	829.7	824.0
70°	392.5	398.0	409.2	431.7	465.2	504.4	560.6	582.9	605.4	616.6	605.4
72.5°	246.6	246.6	252.3	274.6	297.1	325.1	364.3	386.8	414.7	420.5	409.2
75°	112.2	112.2	123.4	134.4	151.4	173.9	201.9	218.6	235.4	252.3	252.3
77.5°	22.5	28.0	33.7	33.7	44.7	61.7	78.5	95.2	112.2	112.2	112.2
80°	5.5	5.5	5.5	5.5	5.5	5.5	11.2	16.8	28.0	28.0	28.0
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



TEST NUMBER: P#

CATALOG NUMBER: LX6C100D010 EX6C1009030 6LBCSSQMMS

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3800.6	3800.6	3800.6	3800.6	3800.6	3800.6	3800.6	3800.6
2.5°	3800.6	3834.3	3800.6	3783.8	3806.3	3800.6	3783.8	3789.3
5°	3783.8	3795.1	3806.3	3761.4	3789.3	3795.1	3783.8	3772.6
7.5°	3767.1	3772.6	3767.1	3755.8	3755.8	3755.8	3767.1	3767.1
10°	3761.4	3744.6	3716.6	3699.7	3716.6	3716.6	3710.9	3755.8
12.5°	3688.6	3710.9	3694.1	3660.4	3694.1	3688.6	3688.6	3699.7
15°	3632.4	3632.4	3643.7	3598.9	3621.2	3615.7	3615.7	3626.9
17.5°	3576.5	3576.5	3570.7	3559.5	3554.0	3570.7	3554.0	3582.0
20°	3498.0	3509.2	3542.7	3486.8	3503.5	3486.8	3486.8	3453.1
22.5°	3402.6	3458.8	3430.6	3425.1	3419.6	3425.1	3436.3	3397.1
25°	3340.9	3340.9	3352.1	3318.6	3318.6	3329.9	3324.1	3312.9
27.5°	3256.9	3251.2	3245.7	3234.4	3262.4	3240.2	3240.2	3240.2
30°	3139.2	3156.0	3150.5	3122.3	3156.0	3144.7	3128.0	3094.3
32.5°	3038.3	3060.8	3027.1	3021.6	3015.8	3021.6	3027.1	2999.1
35°	2914.9	2920.6	2920.6	2898.1	2903.7	2898.1	2886.9	2892.4
37.5°	2802.7	2797.2	2769.2	2758.0	2763.5	2763.5	2769.2	2758.0
40°	2645.8	2662.8	2662.8	2623.6	2634.6	2623.6	2623.6	2617.8
42.5°	2516.9	2522.6	2505.7	2488.9	2488.9	2483.4	2472.2	2483.4
45°	2382.5	2376.7	2360.0	2343.2	2343.2	2337.5	2326.3	2348.8
47.5°	2231.1	2219.8	2214.3	2191.8	2191.8	2158.1	2163.9	2186.1
50°	2079.7	2068.4	2046.2	2034.9	2018.0	2001.2	1995.7	1995.7
52.5°	1900.3	1900.3	1877.8	1855.6	1849.8	1838.6	1827.4	1833.1
55°	1743.4	1743.4	1726.6	1687.4	1664.9	1636.9	1620.0	1614.5
57.5°	1564.0	1552.8	1519.0	1474.3	1451.8	1429.4	1412.6	1412.6
60°	1384.6	1356.6	1322.9	1283.7	1244.5	1205.2	1194.0	1188.5
62.5°	1188.5	1160.3	1098.8	1053.8	1025.8	1003.4	980.9	997.9
65°	992.1	952.9	896.9	852.0	824.0	790.5	773.5	773.5
67.5°	784.8	745.5	689.6	644.6	616.6	594.1	571.9	571.9
70°	577.4	549.4	498.9	459.7	437.2	403.5	398.0	398.0
72.5°	392.5	358.8	319.5	291.6	269.1	246.6	235.4	229.9
75°	218.6	196.1	168.1	151.4	128.9	117.7	106.4	106.4
77.5°	89.7	72.9	56.0	44.7	33.7	28.0	22.5	28.0
80°	16.8	11.2	5.5	5.5	5.5	5.5	5.5	5.5
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)