

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: **LX6C120D010 EX6C1209030 6LBCSSQMMS**

Issue Date: 5/25/2022



**Test Information**

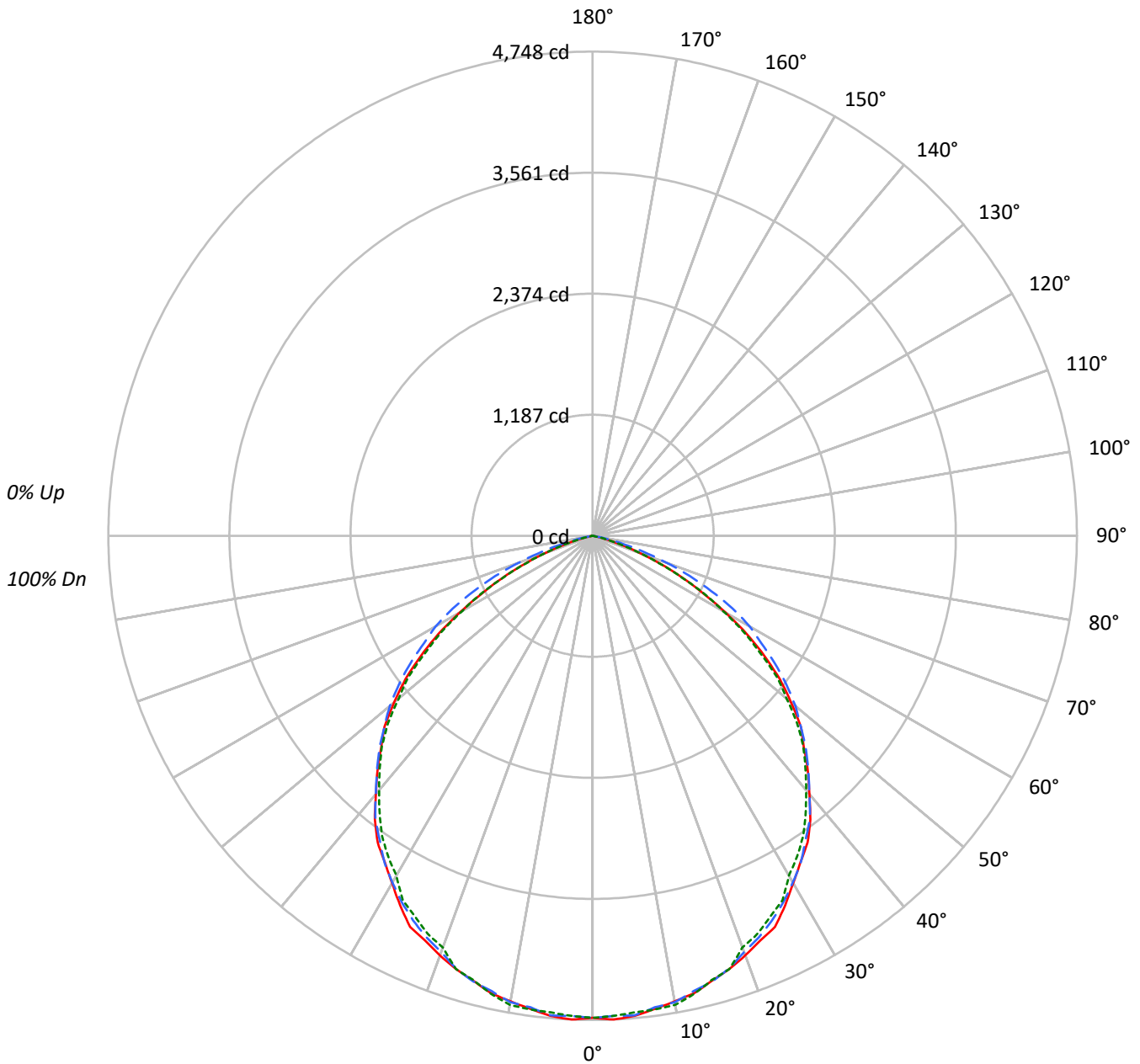
Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P209457)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/25/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX6C120D010 EX6C1209030 6LBCSSQMMS  
Description: 6 INCH 12000 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: 11413.0 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): 142.3  
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									
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°	203528	203528	203528
5°	204306	204012	202802
10°	202716	203013	204237
15°	201388	201704	201080
20°	200618	199023	196787
25°	201053	197746	195751
30°	195495	195157	191339
35°	193126	191297	189094
40°	185747	185747	183004
45°	178316	180003	177884
50°	169995	173740	166264
55°	154394	163822	150739
60°	129081	153089	127290
65°	98741	130690	98017
70°	61458	96542	62314
75°	23206	52202	22025
80°	1711	8629	1711
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	447.1	3.9
10°-20°	1274.9	11.2
20°-30°	1918.4	16.8
30°-40°	2269.4	19.9
40°-50°	2264.8	19.8
50°-60°	1878.0	16.5
60°-70°	1097.2	9.6
70°-80°	261.3	2.3
80°-90°	1.9	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°	3640.4	31.9
0°-40°	5909.8	51.8
0°-60°	10052.6	88.1
0°-90°	11413.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11413.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4727	4727	4727	4727	4727	
5°	4727	4703	4720	4706	4692	448
15°	4518	4515	4525	4504	4511	1277
25°	4232	4183	4162	4148	4120	1934
35°	3674	3640	3640	3619	3598	2284
45°	2928	2932	2956	2925	2921	2265
55°	2057	2130	2182	2123	2008	1826
65°	969	1091	1283	1088	962	963
75°	140	202	314	199	132	189
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°	4727.1	4727.1	4727.1	4727.1	4727.1	4727.1	4727.1	4727.1	4727.1	4727.1	4727.1
2.5°	4748.2	4720.3	4741.1	4699.4	4727.1	4699.4	4706.3	4692.3	4720.3	4713.1	4706.3
5°	4727.1	4734.2	4720.3	4734.2	4713.1	4692.3	4713.1	4699.4	4657.5	4720.3	4706.3
7.5°	4678.3	4685.5	4671.5	4692.3	4678.3	4650.4	4706.3	4664.4	4657.5	4664.4	4692.3
10°	4636.7	4650.4	4643.5	4636.7	4643.5	4643.5	4629.5	4608.7	4629.5	4643.5	4636.7
12.5°	4594.7	4615.6	4601.6	4587.9	4573.9	4580.8	4594.7	4559.9	4559.9	4573.9	4615.6
15°	4518.0	4532.0	4538.8	4511.1	4511.1	4518.0	4545.9	4490.0	4518.0	4525.1	4532.0
17.5°	4455.2	4462.3	4462.3	4441.2	4455.2	4434.4	4455.2	4427.3	4455.2	4448.4	4462.3
20°	4378.5	4392.4	4378.5	4378.5	4364.8	4371.6	4371.6	4371.6	4350.8	4343.7	4357.6
22.5°	4294.9	4294.9	4280.9	4294.9	4280.9	4274.0	4308.8	4253.2	4308.8	4260.1	4302.0
25°	4232.1	4197.3	4176.5	4169.3	4197.3	4169.3	4183.3	4162.5	4176.5	4162.5	4169.3
27.5°	4085.7	4064.9	4057.8	4064.9	4064.9	4057.8	4085.7	4009.0	4057.8	4050.9	4050.9
30°	3932.2	3932.2	3946.2	3932.2	3946.2	3925.4	3953.3	3890.6	3932.2	3925.4	3932.2
32.5°	3793.0	3799.8	3799.8	3813.8	3793.0	3799.8	3799.8	3779.0	3793.0	3799.8	3785.9
35°	3674.3	3639.5	3639.5	3639.5	3639.5	3639.5	3653.5	3632.6	3653.5	3639.5	3639.5
37.5°	3507.1	3472.3	3472.3	3465.2	3500.0	3479.1	3514.0	3486.0	3486.0	3500.0	3500.0
40°	3304.8	3318.8	3298.0	3325.7	3318.8	3290.8	3353.6	3311.9	3339.6	3304.8	3332.8
42.5°	3123.6	3130.5	3123.6	3116.5	3144.5	3137.6	3165.3	3137.6	3130.5	3130.5	3179.3
45°	2928.5	2928.5	2928.5	2949.3	2928.5	2935.3	2963.3	2949.3	2963.3	2956.2	3005.0
47.5°	2767.9	2733.0	2726.2	2767.9	2761.0	2767.9	2767.9	2775.0	2781.8	2767.9	2789.0
50°	2537.9	2523.9	2523.9	2531.0	2537.9	2551.9	2572.7	2586.7	2572.7	2593.8	2600.7
52.5°	2314.8	2300.8	2307.9	2335.6	2349.6	2342.7	2377.5	2384.4	2377.5	2391.5	2391.5
55°	2056.8	2042.9	2063.7	2098.8	2119.6	2140.4	2175.3	2147.6	2175.3	2182.4	2189.2
57.5°	1791.8	1784.9	1791.8	1826.6	1847.7	1896.5	1952.1	1952.1	1980.1	1959.3	1980.1
60°	1499.0	1499.0	1527.0	1547.8	1603.8	1638.6	1694.2	1722.2	1750.1	1777.8	1764.1
62.5°	1220.0	1227.1	1248.0	1296.8	1331.6	1380.6	1443.1	1471.1	1519.9	1547.8	1533.9
65°	969.2	969.2	983.2	1024.9	1059.7	1122.4	1178.4	1241.1	1269.1	1282.8	1289.9
67.5°	725.0	718.1	746.1	774.1	808.9	871.6	934.4	969.2	1018.0	1032.0	1024.9
70°	488.2	495.0	509.0	537.0	578.6	627.4	697.3	725.0	753.0	766.9	753.0
72.5°	306.7	306.7	313.8	341.5	369.5	404.3	453.1	481.0	515.9	523.0	509.0
75°	139.5	139.5	153.5	167.2	188.3	216.3	251.1	271.9	292.7	313.8	313.8
77.5°	28.0	34.8	41.9	41.9	55.6	76.7	97.6	118.4	139.5	139.5	139.5
80°	6.9	6.9	6.9	6.9	6.9	6.9	14.0	20.8	34.8	34.8	34.8
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°	4727.1	4727.1	4727.1	4727.1	4727.1	4727.1	4727.1	4727.1
2.5°	4727.1	4769.1	4727.1	4706.3	4734.2	4727.1	4706.3	4713.1
5°	4706.3	4720.3	4734.2	4678.3	4713.1	4720.3	4706.3	4692.3
7.5°	4685.5	4692.3	4685.5	4671.5	4671.5	4671.5	4685.5	4685.5
10°	4678.3	4657.5	4622.7	4601.6	4622.7	4622.7	4615.6	4671.5
12.5°	4587.9	4615.6	4594.7	4552.8	4594.7	4587.9	4587.9	4601.6
15°	4518.0	4518.0	4532.0	4476.3	4504.0	4497.1	4497.1	4511.1
17.5°	4448.4	4448.4	4441.2	4427.3	4420.4	4441.2	4420.4	4455.2
20°	4350.8	4364.8	4406.4	4336.8	4357.6	4336.8	4336.8	4294.9
22.5°	4232.1	4302.0	4266.9	4260.1	4253.2	4260.1	4274.0	4225.2
25°	4155.4	4155.4	4169.3	4127.7	4127.7	4141.6	4134.5	4120.5
27.5°	4050.9	4043.8	4036.9	4023.0	4057.8	4030.1	4030.1	4030.1
30°	3904.5	3925.4	3918.5	3883.4	3925.4	3911.4	3890.6	3848.6
32.5°	3779.0	3807.0	3765.0	3758.2	3751.1	3758.2	3765.0	3730.2
35°	3625.5	3632.6	3632.6	3604.7	3611.5	3604.7	3590.7	3597.6
37.5°	3486.0	3479.1	3444.3	3430.4	3437.2	3437.2	3444.3	3430.4
40°	3290.8	3311.9	3311.9	3263.1	3276.9	3263.1	3263.1	3256.0
42.5°	3130.5	3137.6	3116.5	3095.7	3095.7	3088.8	3074.8	3088.8
45°	2963.3	2956.2	2935.3	2914.5	2914.5	2907.4	2893.4	2921.4
47.5°	2775.0	2761.0	2754.1	2726.2	2726.2	2684.3	2691.4	2719.1
50°	2586.7	2572.7	2545.0	2531.0	2509.9	2489.1	2482.2	2482.2
52.5°	2363.6	2363.6	2335.6	2307.9	2300.8	2286.8	2272.8	2280.0
55°	2168.4	2168.4	2147.6	2098.8	2070.8	2036.0	2014.9	2008.1
57.5°	1945.3	1931.3	1889.4	1833.7	1805.8	1777.8	1757.0	1757.0
60°	1722.2	1687.4	1645.4	1596.6	1547.8	1499.0	1485.1	1478.2
62.5°	1478.2	1443.1	1366.7	1310.7	1275.9	1248.0	1220.0	1241.1
65°	1234.0	1185.2	1115.6	1059.7	1024.9	983.2	962.1	962.1
67.5°	976.1	927.3	857.7	801.7	766.9	739.0	711.3	711.3
70°	718.1	683.3	620.6	571.8	543.8	501.9	495.0	495.0
72.5°	488.2	446.2	397.4	362.6	334.7	306.7	292.7	285.9
75°	271.9	244.0	209.1	188.3	160.3	146.4	132.4	132.4
77.5°	111.6	90.7	69.6	55.6	41.9	34.8	28.0	34.8
80°	20.8	14.0	6.9	6.9	6.9	6.9	6.9	6.9
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)