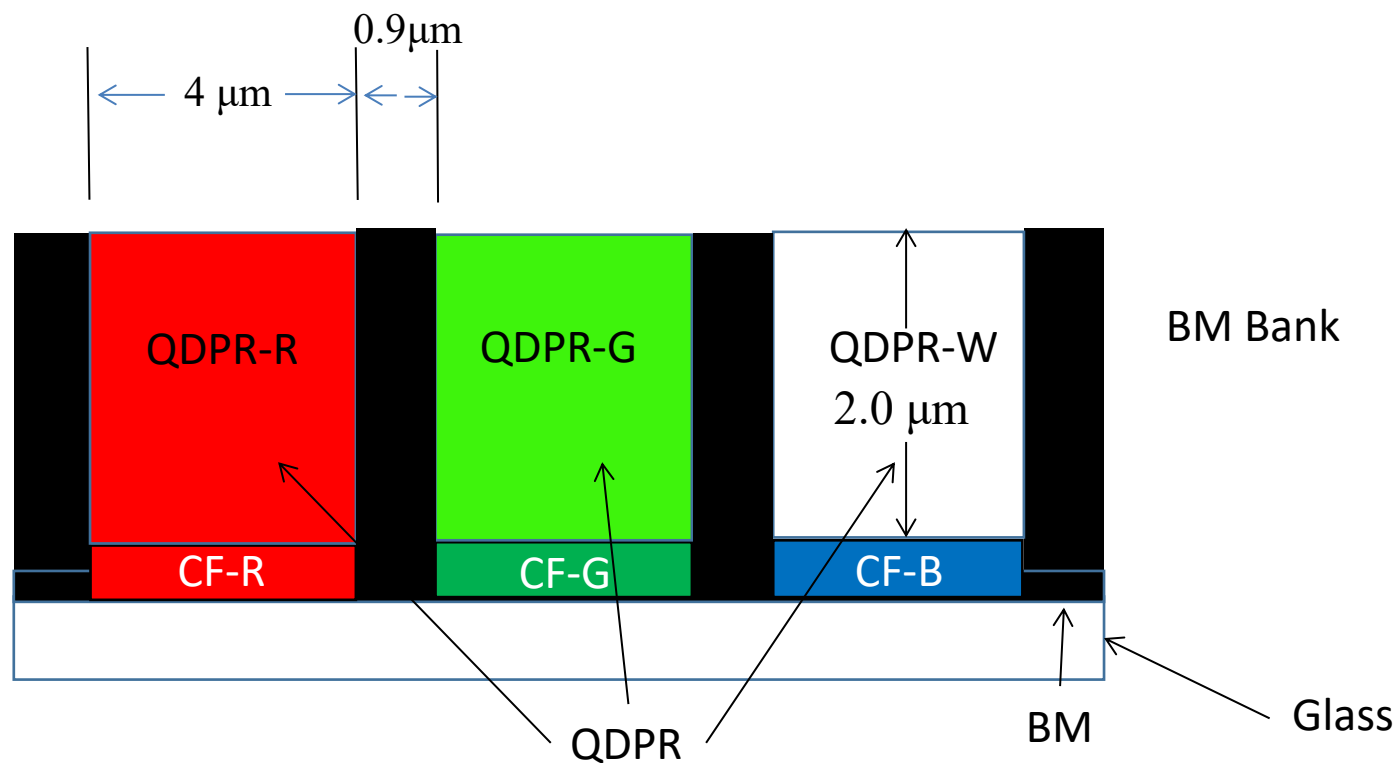


High Resolution Structure of QDCF For Micro LED AR/ VR Application

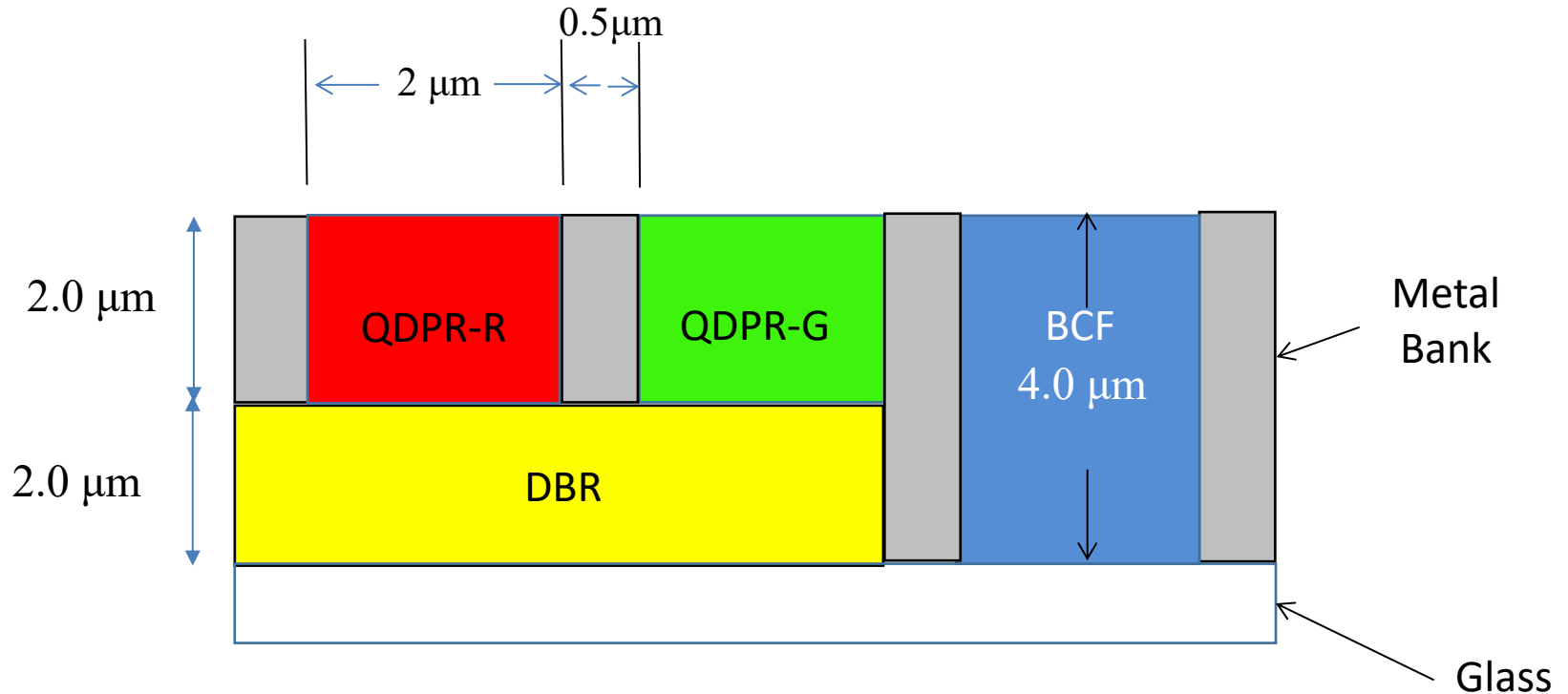


BM→CF-R→CF-G→CF-B→BM Bank→QDPR-R→QDPR-G→QDPR-W→POC

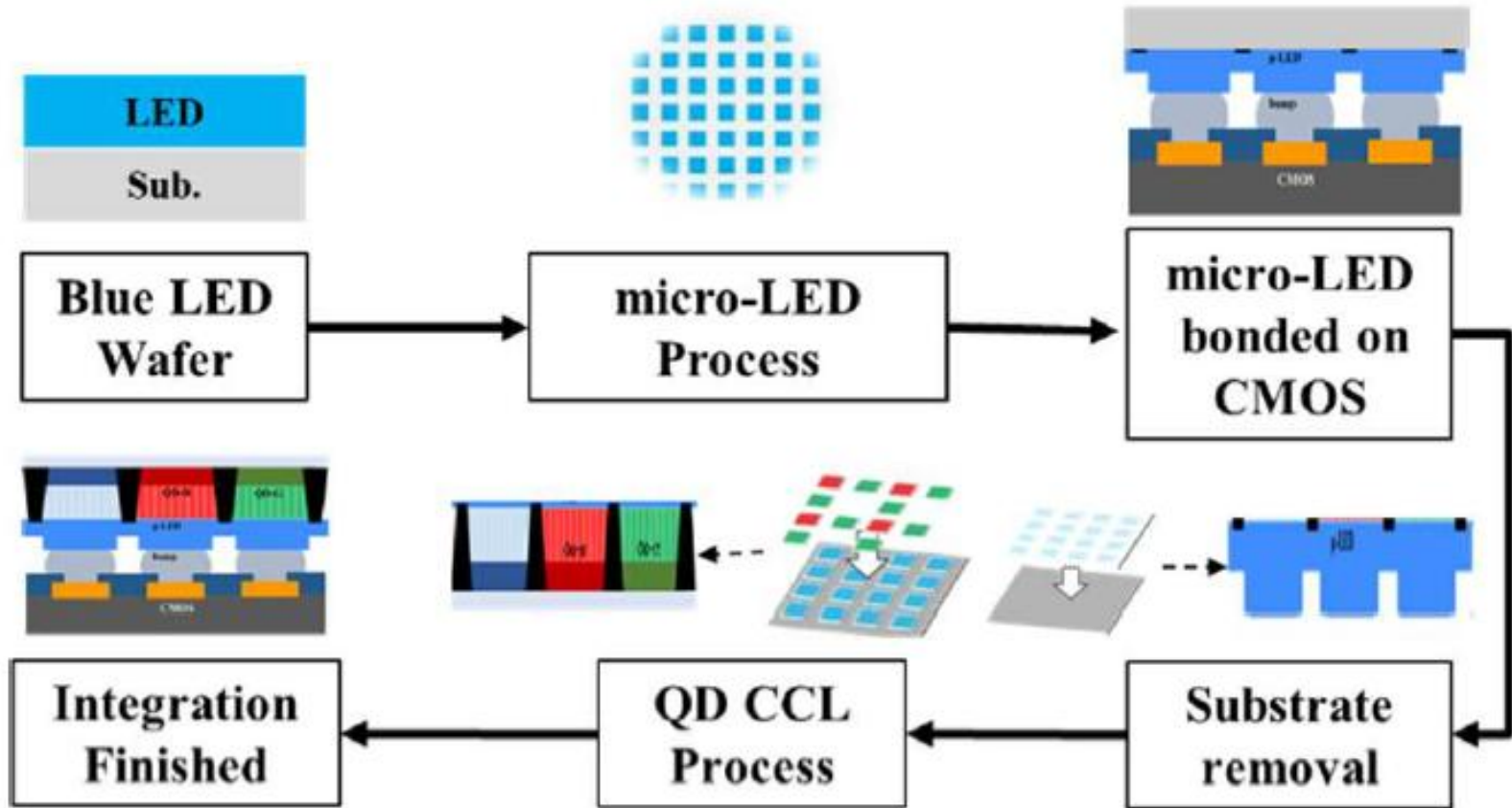
BM : Suppress Ambient Light Reflection & Color Crosstalk

CF-RGB : Prevent Ambient Light Excitation & Blue Light Leakage

High Resolution Structure of QDCF For >3600PPI Micro LED AR/ VR Application



Structure of QDCC-Micro LED AR/ VR Application



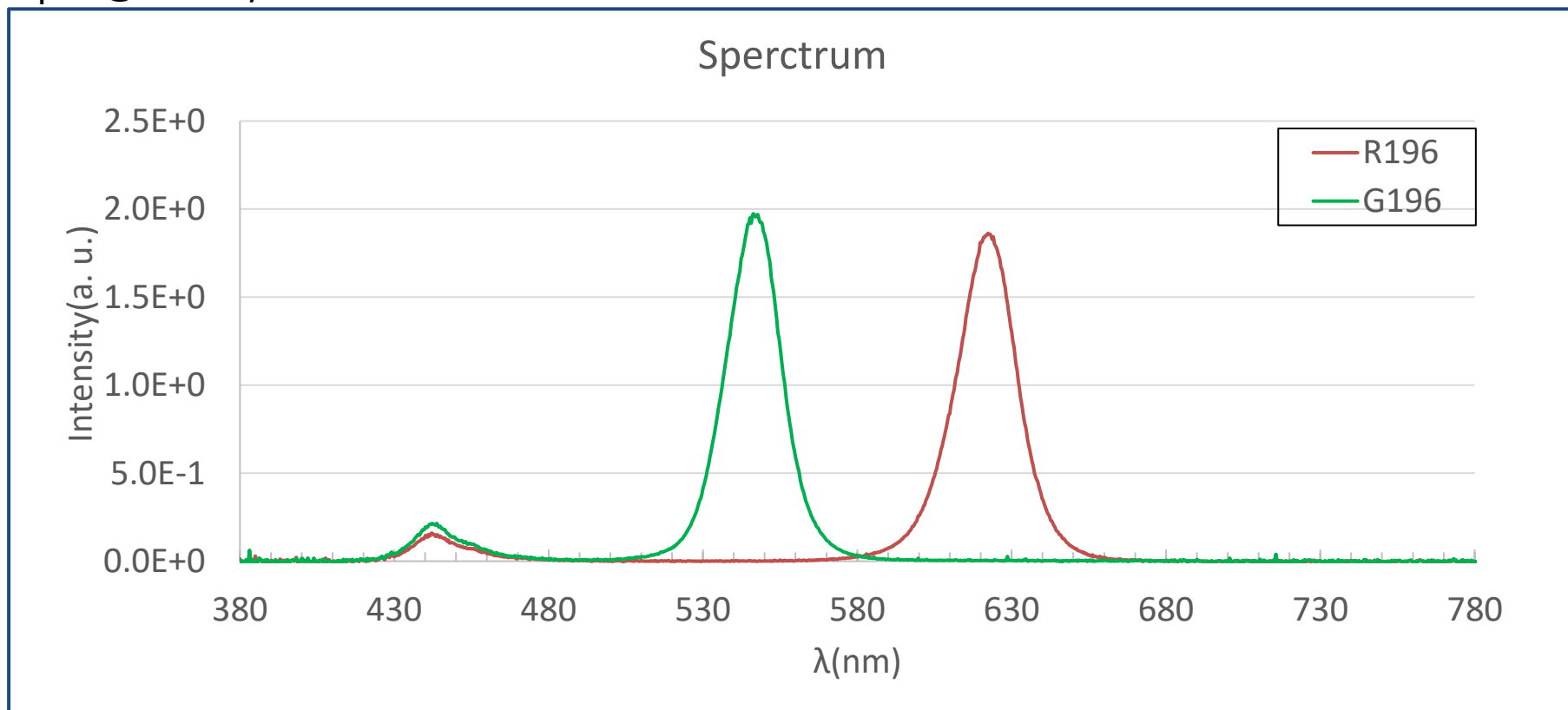
The standard process flow for our lab to assemble the micro LED, the CCL, and the circuitry together.

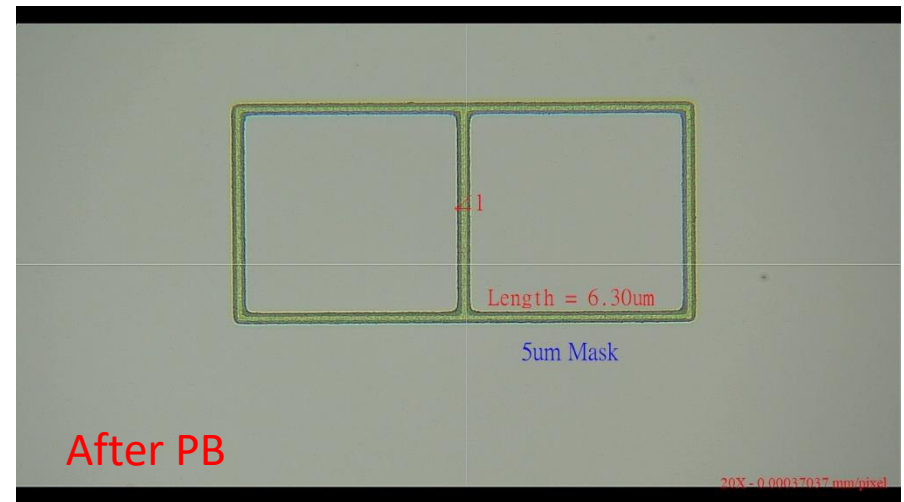
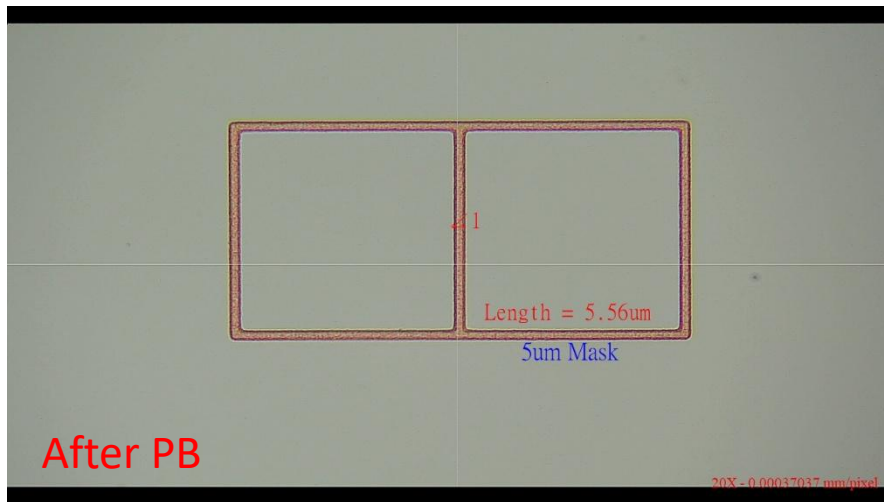
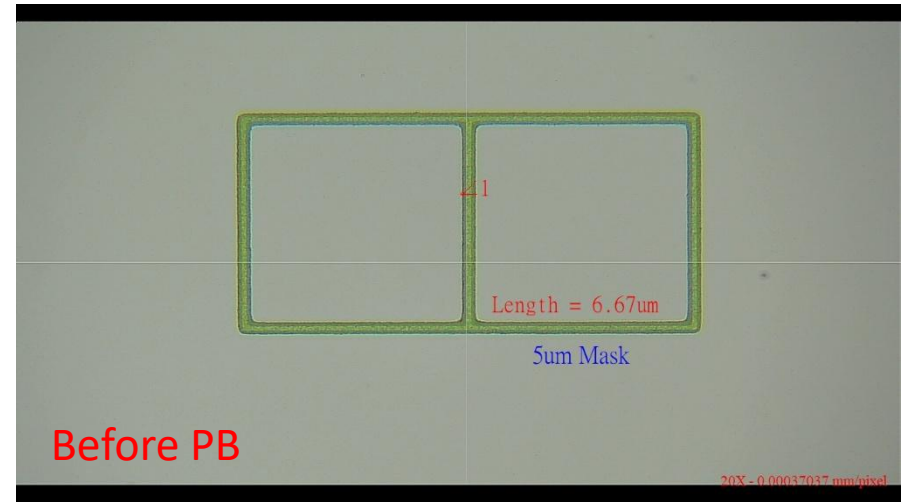
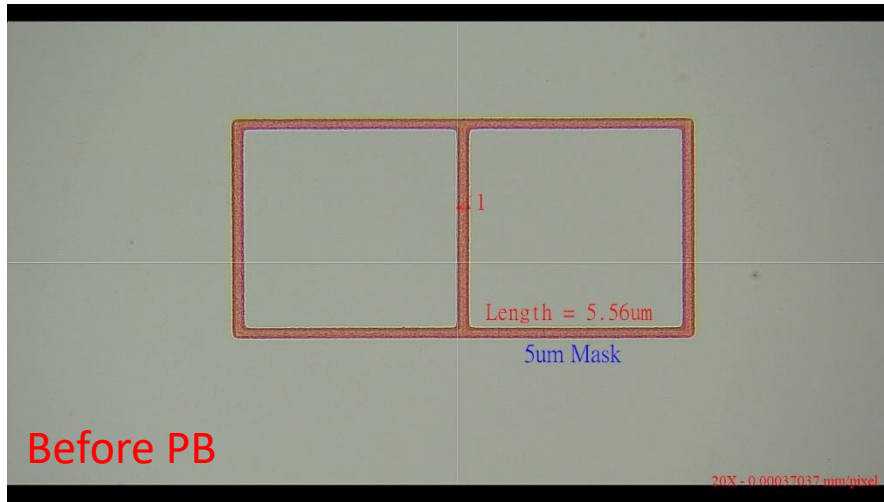
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8th Gen. QDPR-RG196 For High Resolution Micro-LED

Product	Vis. (cps)	S.C. (%)	Dev. Time (sec)	Resolution (μm)	THK after PB(μm)	Emission λ (nm)	FWHM (nm)	OD (At 450nm)	Film EQE (%)
R196	3.5	26	6/ 12	5	2.0	622	22	1.303	110
G196	4.0	26	10/ 20	5	2.2	545	20	1.173	92.5

5 μm @250mJ/ cm^2





8th Gen. QDPR-RG196 ~ Purity of Color

ITEM	THK(μm)	x	y	L	EQE(%)	OD
R194	2	0.598	0.263	1.065	105.4	1.169
R196	2	0.6235	0.2882	1.22	110.9	1.304
R197	2.2	0.6424	0.2802	0.951	107.1	1.475
G194	2.3	0.273	0.559	2.53	76	1.061
G196	2.2	0.2697	0.6121	2.98	92.58	1.173
R197	2.3	0.2418	0.6353	3.02	92.67	1.383

RG196 : Higher OD (10%↑) ref. to RG194, Narrow FWHM(G196, 24nm→20nm),
 ~Higher purity(Rx=0.598→0.6235, Gy=0.559 →0.6121)

RG197 : Higher OD (20%↑) ref. to RG194
 ~Higher purity(Rx=0.598→0.6424, Gy=0.559 →0.6353)