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Rev. 1.0 Sep 2015



## High Quality Lighting Performance

Samsung COB LED  
LC Series



SAMSUNG

# Ultra High CRICOB

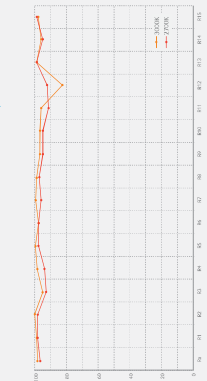
Achieving true colors

- Super High CRI: Typ. Ra 97
- Efficacy: 105 lm/W @ 3000 K, CRI 95+
- Lifetime: > 50,000 hours of LM-80 testing @ 1,05 A, 105°C (T8)

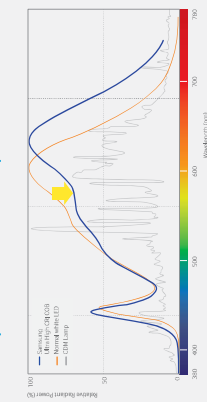
Applications: Premium Lighting for Luxury Shop



Excellent color index distribution (Ra > 95, R9 > 95)



Similar Spectrum with the CDM Lamp than normal white LED



Standard COB (CRI 90+)

Ultra High CRI COB (CRI 95+)

# Vivid Color COB

For more brilliant & attractive displaying

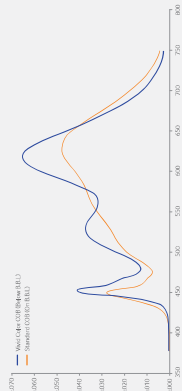
- Vivid white without yellowish tint
- Efficacy: 124 lm/W @ 3000 K, CH g2
- > 70 hours of LM-80 testing, May 2016

Applications: Spotlights, Downlights

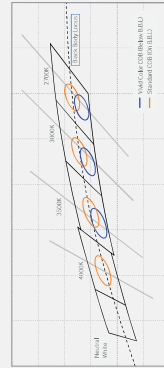


## Spectrum tuning for brilliant saturated colors

Reducing yellowish tint such as filtered conventional lamp



## The Chromaticity of Vivid Color COB



Halogen Lamp



Vivid Color COB

# Small LES COB

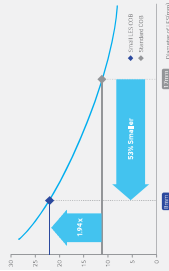
Best solution for narrow beam spot and down light

- Adapted new flip chip based technology
  - Low droop characteristic by current & thermal
  - No wire bonding
  - High reliability
- Efficacy: 110 lm/W @ 3000 K, CRI 80+, 85°C
- 10 hours of LM-40 testing; Feb. 2016

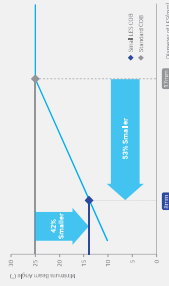
Applications: Spotlights, Downlights



## Higher Flux Intensity

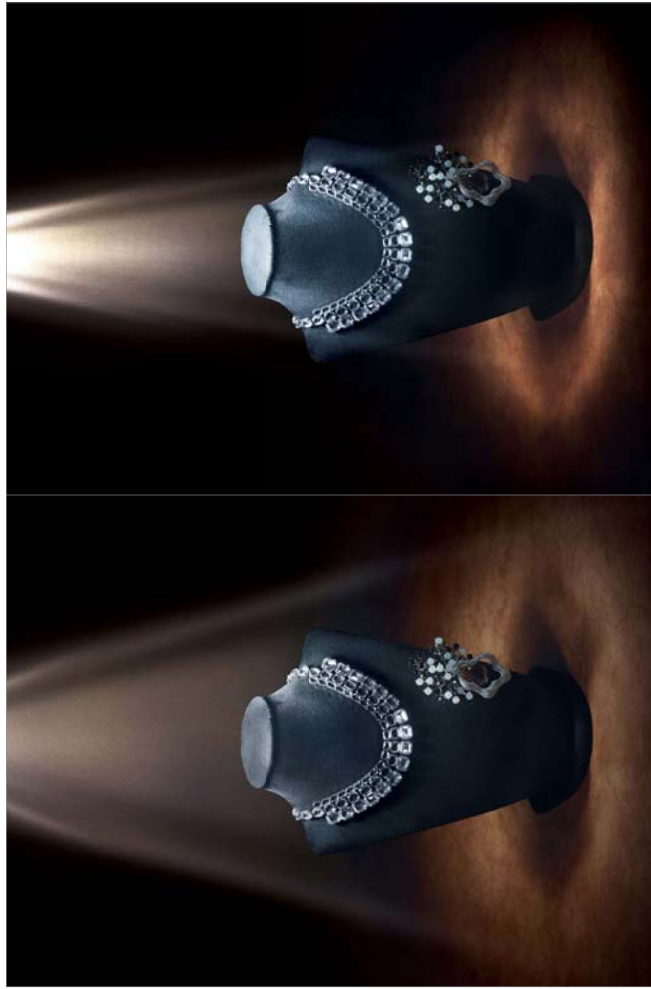
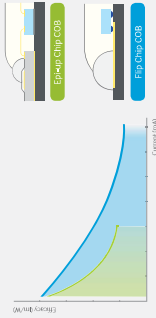


## Narrow Beam Angle Solution



## New Flip Chip based technology

- Low droop characteristic by current & Thermal
- No wire bonding
- High reliability

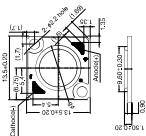


Standard COB

Small LES COB

## LC006B • LC008B

Ultra-High-CRI COB / Wide Color COB / Standard COB

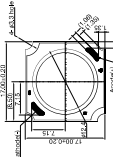
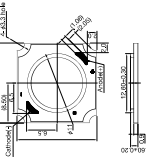


Product	CRI min.	CCT K	16 ± 3°C		T <sub>a</sub> = 35°C		I <sub>total</sub> (mA)	I <sub>total</sub> (mA)	I <sub>total</sub> (mA)	I <sub>total</sub> (mA)
			Typ. (lm)	Typ. (lm)	Typ. (lm)	Typ. (lm)				
LC006B	Wid	3000	805	126	733	747	119	122	122	122
		4000	829	130	755	765	123	123	123	123
		2700	688	108	626	626	102	102	102	102
		95	3000	709	111	645	105	105	105	105
			3500	731	114	665	108	108	108	108
			2700	773	121	703	115	115	115	115
		90	3000	805	126	733	119	122	122	122
			4000	829	130	755	123	123	123	123
			2700	620	144	637	137	137	137	137
			3000	659	150	672	142	142	142	142
		80	4000	697	156	707	148	148	148	148
			5000	867	155	898	146	146	146	146
		5100	867	155	898	146	146	146	146	
		3000	867	155	898	146	146	146	146	
	70	4000	1037	162	1033	154	154	154	154	
		5000	1046	164	1044	154	154	154	154	
		3000	1104	126	1054	119	119	119	119	
	Wid	3000	1126	129	1025	122	122	122	122	
		4000	1137	130	1035	123	123	123	123	
		2700	843	108	868	102	102	102	102	
	95	3000	872	111	885	105	105	105	105	
		2700	1002	114	911	108	108	108	108	
		3000	1080	121	964	115	115	115	115	
		3000	1104	126	1004	119	119	119	119	
		3000	1126	129	1025	122	122	122	122	
		4000	1137	130	1035	123	123	123	123	
		2700	1261	144	1148	137	137	137	137	
		3000	1214	150	1156	142	142	142	142	
	80	4000	1240	153	1220	145	145	145	145	
		4000	1267	156	1244	148	148	148	148	
		5000	1353	155	1322	146	146	146	146	
		5700	1353	155	1322	146	146	146	146	
		3000	1353	155	1219	145	145	145	145	
	70	4000	1421	162	1279	152	152	152	152	
		5000	1425	164	1281	154	154	154	154	

® Bin option is available, please refer to data sheet for more details.

## LC013B • LC019B

Ultra-High-CRI COB / Wide Color COB / Standard COB

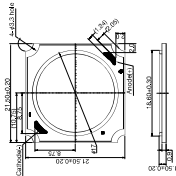


Product	CRI min.	CCT K	16 ± 3°C		T <sub>a</sub> = 35°C		I <sub>total</sub> (mA)	I <sub>total</sub> (mA)	I <sub>total</sub> (mA)	I <sub>total</sub> (mA)
			Typ. (lm)	Typ. (lm)	Typ. (lm)	Typ. (lm)				
LC013B	Wid	3000	1610	126	1463	1463	119	119	119	119
		4000	1659	130	1509	1509	123	123	123	123
		2700	1376	108	1252	1252	102	102	102	102
		95	3000	1419	111	1291	105	105	105	105
			3500	1461	114	1330	108	108	108	108
			2700	1546	121	1407	115	115	115	115
		90	3000	1610	126	1465	119	122	122	122
			4000	1659	130	1509	123	123	123	123
			2700	1640	144	1675	137	137	137	137
			3000	1687	150	1744	142	142	142	142
		80	4000	1695	153	1779	145	145	145	145
			5000	1894	156	1815	148	148	148	148
		5100	1895	155	1797	146	146	146	146	
		3000	1975	155	1777	145	145	145	145	
	70	4000	2073	162	1856	152	152	152	152	
		5000	2046	164	1836	154	154	154	154	
		3000	2415	126	2198	119	119	119	119	
	Wid	3000	2464	129	2243	122	122	122	122	
		4000	2488	130	2264	123	123	123	123	
		2700	2484	108	1878	102	102	102	102	
	95	3000	2108	114	1936	105	105	105	105	
		2700	2102	114	1934	108	108	108	108	
		3000	2119	121	2110	115	115	115	115	
		3000	2415	126	2198	119	119	119	119	
		3500	2464	129	2242	122	122	122	122	
		4000	2488	130	2264	123	123	123	123	
		2700	2760	144	2512	137	137	137	137	
		3000	2876	150	2659	142	142	142	142	
	80	4000	2892	153	2669	145	145	145	145	
		5000	2982	156	2722	148	148	148	148	
		5700	2982	155	2695	146	146	146	146	
		3000	2982	155	2695	145	145	145	145	
	70	4000	3110	162	2799	152	152	152	152	
		5000	3108	164	2800	154	154	154	154	

® Bin option is available, please refer to data sheet for more details.

## LC026B • LC033B LC040B

Ultra-High-CRI COB / Wide Color COB / Standard COB

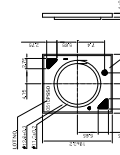
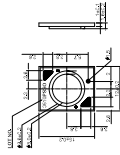
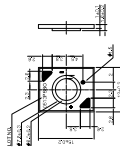


Product	CRI Min. / Typ.	CCT K	Ta = 25°C		Ta = 40°C		Ic (mA)	Beam Diameter (mm)	Beam Angle (°)	Part Number
			Typ. Input Flux (lm)	Typ. Input Power (W)	Typ. Input Flux (lm)	Typ. Input Power (W)				
LC026B	Vivid	3000	3,421	128	2,031	119	19	10	120	SPHWWH0N023YH02F
		4000	3,417	130	2,018	122	19	10	120	SPHWWH0N023YH03F
		5000	3,417	130	2,018	122	19	10	120	SPHWWH0N023YH04F
		2700	2,732	105	2,504	102	105	105	105	SPHWWH0N023YH05F
		3500	2,822	114	2,656	108	108	108	108	SPHWWH0N023YH06F
		4000	3,092	121	2,813	115	115	115	115	SPHWWH0N023YH07F
	80	3500	3,295	129	2,968	122	129	129	129	SPHWWH0N023YH08F
		4000	3,217	130	3,019	123	130	130	130	SPHWWH0N023YH09F
		5000	3,834	150	3,489	142	150	150	150	SPHWWH0N023YH10F
		3000	3,883	150	3,850	148	150	150	150	SPHWWH0N023YH11F
		3500	3,849	155	3,594	148	155	155	155	SPHWWH0N023YH12F
		4000	4,146	162	3,729	152	162	162	162	SPHWWH0N023YH13F
LC033B	Vivid	3000	4,026	126	3,663	119	126	126	126	SPHWWH0N023YH14F
		4000	4,108	129	3,727	122	129	129	129	SPHWWH0N023YH15F
		5000	4,140	128	3,150	102	128	128	128	SPHWWH0N023YH16F
		2700	3,440	108	3,150	102	108	108	108	SPHWWH0N023YH17F
		3500	3,653	114	3,327	108	114	114	114	SPHWWH0N023YH18F
		4000	3,855	121	3,517	115	121	121	121	SPHWWH0N023YH19F
	80	3500	4,105	129	3,725	122	129	129	129	SPHWWH0N023YH20F
		4000	4,146	130	3,773	123	130	130	130	SPHWWH0N023YH21F
		5000	4,788	153	4,448	145	153	153	153	SPHWWH0N023YH22F
		3000	4,793	150	4,381	142	150	150	150	SPHWWH0N023YH23F
		3500	4,808	155	4,462	146	155	155	155	SPHWWH0N023YH24F
		4000	4,896	155	4,445	145	155	155	155	SPHWWH0N023YH25F
LC040B	Vivid	3000	5,183	162	4,665	152	162	162	162	SPHWWH0N023YH26F
		4000	5,183	162	4,665	152	162	162	162	SPHWWH0N023YH27F
		5000	4,831	156	4,390	149	156	156	156	SPHWWH0N023YH28F
		3500	4,927	159	4,684	152	159	159	159	SPHWWH0N023YH29F
		2700	4,128	108	3,757	102	108	108	108	SPHWWH0N023YH30F
		4000	4,259	111	3,873	105	111	111	111	SPHWWH0N023YH31F
	80	3500	4,639	121	4,220	115	121	121	121	SPHWWH0N023YH32F
		4000	4,621	120	4,496	123	120	120	120	SPHWWH0N023YH33F
		5000	5,251	150	5,253	142	150	150	150	SPHWWH0N023YH34F
		3500	5,696	153	5,338	145	153	153	153	SPHWWH0N023YH35F
		4000	5,824	155	5,390	146	155	155	155	SPHWWH0N023YH36F
		5000	6,220	162	5,593	152	162	162	162	SPHWWH0N023YH37F

† Bin option is available, please refer to data sheet for more details.

## LC010C • LC020C LC040C

Small-IES-COB



Product	CRI Min. / Typ.	CCT K	Ta = 25°C		Ta = 40°C		Ic (mA)	Beam Diameter (mm)	Beam Angle (°)	Part Number
			Typ. Input Flux (lm)	Typ. Input Power (W)	Typ. Input Flux (lm)	Typ. Input Power (W)				
LC010C	80	2700	915	88	871	84	84	84	84	SPHWWH0N023YH38F
		3000	952	102	908	97	97	97	97	SPHWWH0N023YH39F
		4000	980	104	936	99	99	99	99	SPHWWH0N023YH40F
		2700	1,087	117	1,037	111	111	111	111	SPHWWH0N023YH41F
		3000	1,133	122	1,091	116	116	116	116	SPHWWH0N023YH42F
		4000	1,179	124	1,124	118	118	118	118	SPHWWH0N023YH43F
	80	3500	1,179	127	1,124	121	121	121	121	SPHWWH0N023YH44F
		4000	1,167	125	1,113	119	119	119	119	SPHWWH0N023YH45F
		5000	1,167	125	1,113	119	119	119	119	SPHWWH0N023YH46F
		2700	1,732	93	1,653	89	89	89	89	SPHWWH0N023YH47F
		3000	1,805	97	1,721	92	92	92	92	SPHWWH0N023YH48F
		4000	1,841	99	1,756	94	94	94	94	SPHWWH0N023YH49F
LC020C	80	2700	2,062	111	1,967	106	106	106	106	SPHWWH0N023YH50F
		3000	2,148	115	2,049	110	110	110	110	SPHWWH0N023YH51F
		4000	2,235	120	2,132	114	114	114	114	SPHWWH0N023YH52F
		5000	2,213	119	2,111	113	113	113	113	SPHWWH0N023YH53F
		2700	3,495	93	3,305	89	89	89	89	SPHWWH0N023YH54F
		3000	3,691	99	3,443	92	92	92	92	SPHWWH0N023YH55F
	80	4000	3,718	100	3,546	95	95	95	95	SPHWWH0N023YH56F
		2700	4,125	111	3,935	106	106	106	106	SPHWWH0N023YH57F
		3000	4,297	115	4,089	110	110	110	110	SPHWWH0N023YH58F
		4000	4,470	120	4,264	114	114	114	114	SPHWWH0N023YH59F
		5000	4,428	119	4,222	113	113	113	113	SPHWWH0N023YH60F
		5000	4,428	119	4,222	113	113	113	113	SPHWWH0N023YH61F

† Bin option is available, please refer to data sheet for more details.

单击下面可查看定价，库存，交付和生命周期等信息

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