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We employ 307,000 people across 84 countries. To discover more, please visit our official website at www.samsung.com and our official blog at global.samsungtomorrow.com.

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Rev.1.0 Sep.2015



High Quality
Lighting
Performance

Samsung COB LED
LC Series



Ultra High CRI COB

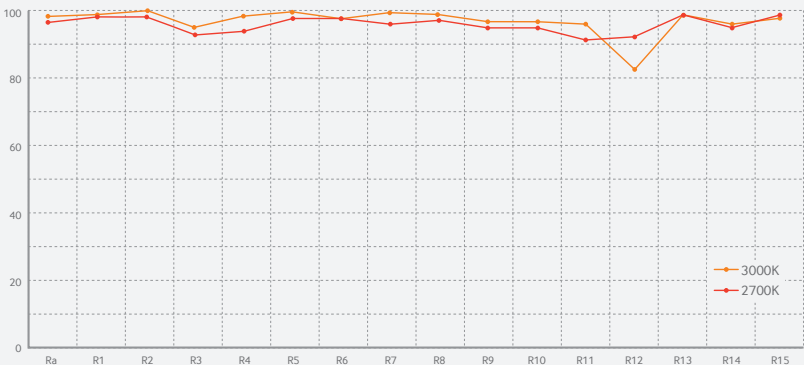
Achieving true colors

- Super High CRI: Typ. Ra 97
- Efficacy: 105 lm/W @ 3000 K, CRI 95+
- Completed 54,000 hours of LM-80 testing @ 1.08 A, 105°C (Ts)

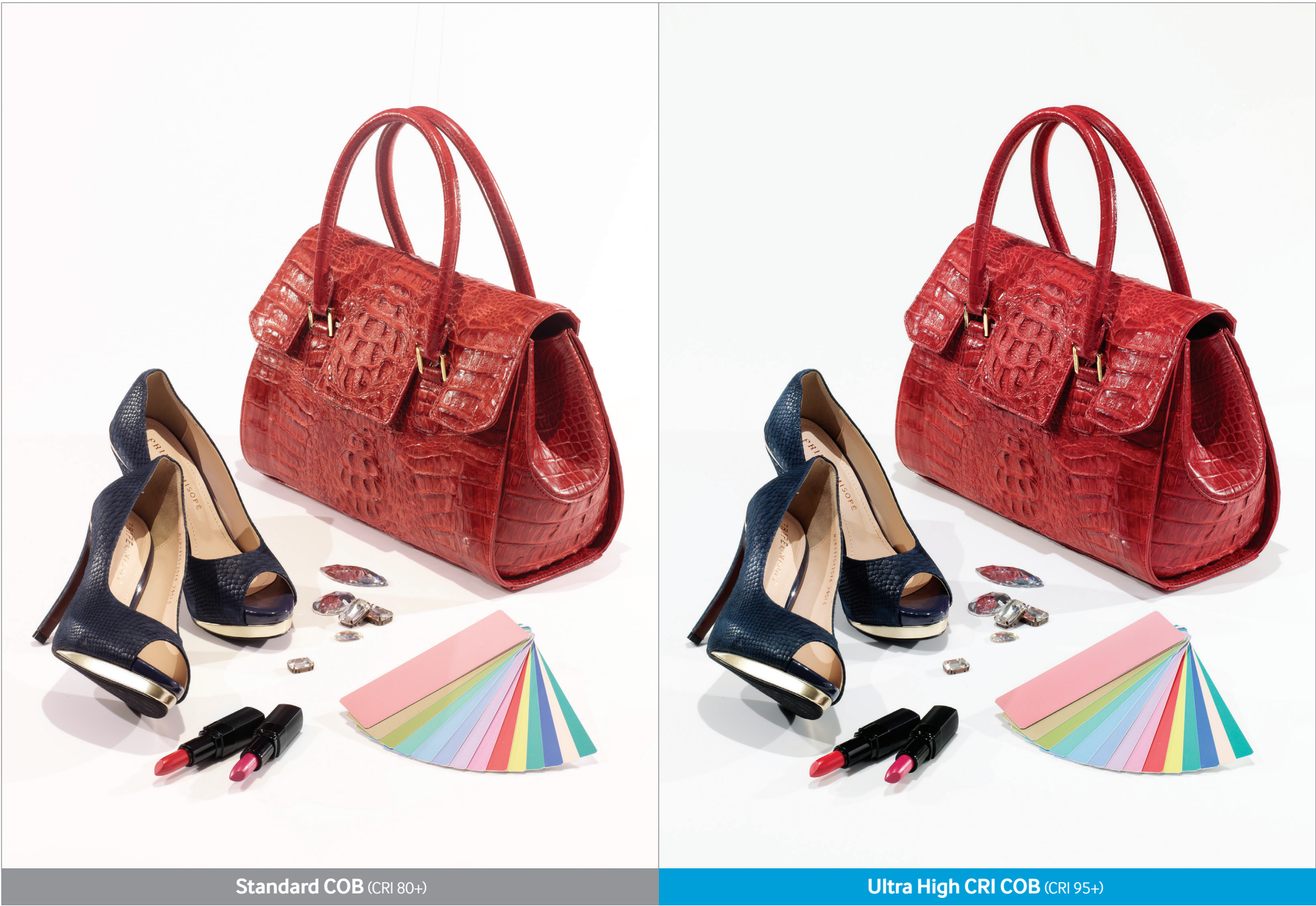
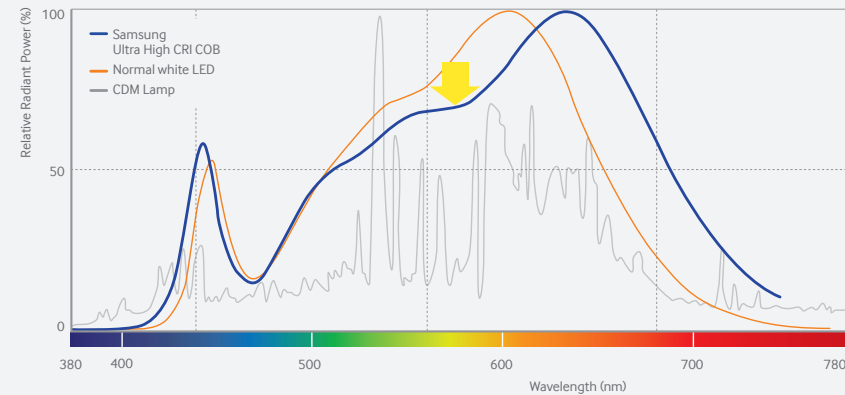
Applications Premium Lighting for Luxury Shop



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



Similar Spectrum with the CDM Lamp than normal white LED



Vivid Color COB

For more brilliant & attractive displaying

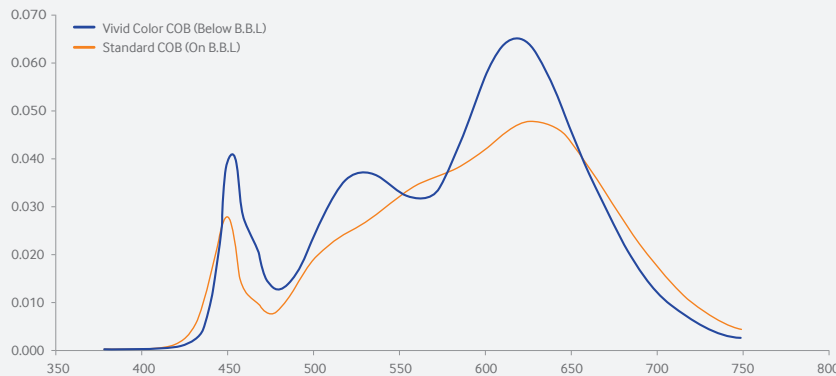
- Vivid white without yellowish tint
- Efficacy: 124 lm/W @ 3000 K, CRI 92
- 6,000 hours of LM-80 testing: May 2016

Applications Spotlights, Downlights

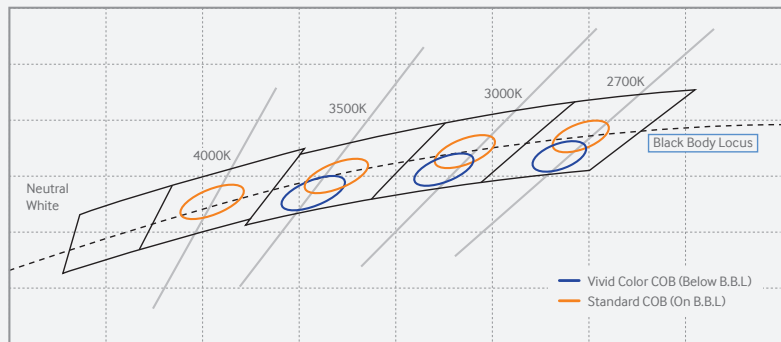


Spectrum tuning for brilliant saturated colors

Reducing yellowish tint such as filtered conventional lamp



The Chromaticity of Vivid Color COB



Halogen Lamp

Vivid Color COB

Small LES COB

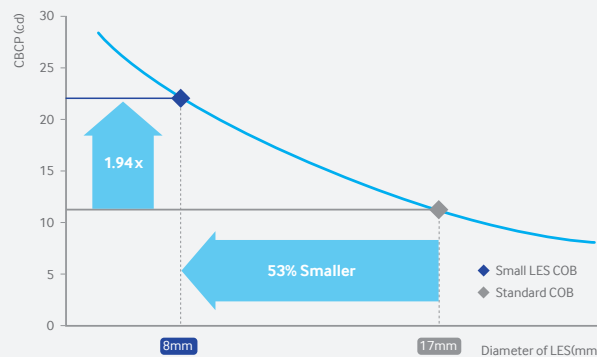
Best solution for narrow beam spot and down light

- 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
- 6,000 hours of LM-80 testing: Feb. 2016

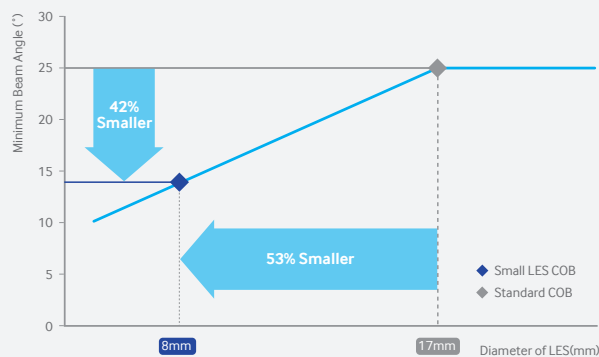
Applications Spotlights, Downlights



Higher Flux Intensity

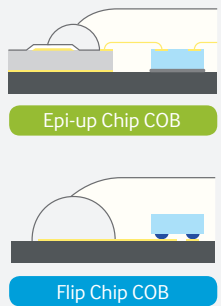
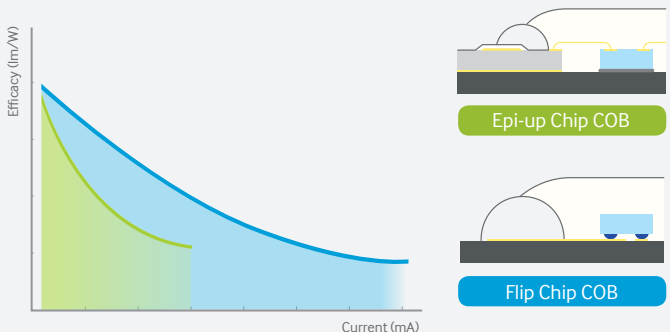


Narrow Beam Angle Solution



New Flip Chip based technology

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



Standard COB

Small LES COB

Ultra High CRI COB / Vivid Color COB / Standard COE



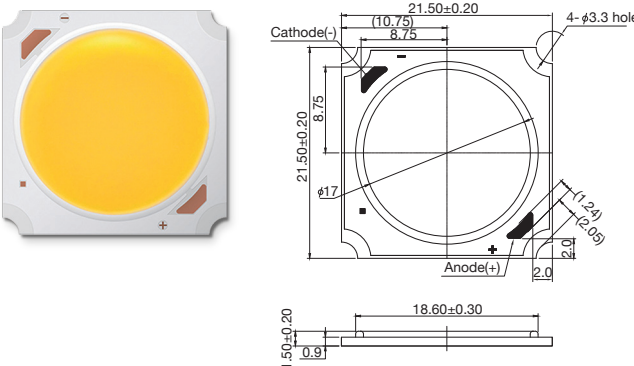
※ Bin option is available, please refer to data sheet for more details

Ultra High CRI COB / Vivid Color COB / Standard COB

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

LC026B · LC033B
LC040B

Ultra High CRI COB / Vivid Color COB / Standard COB

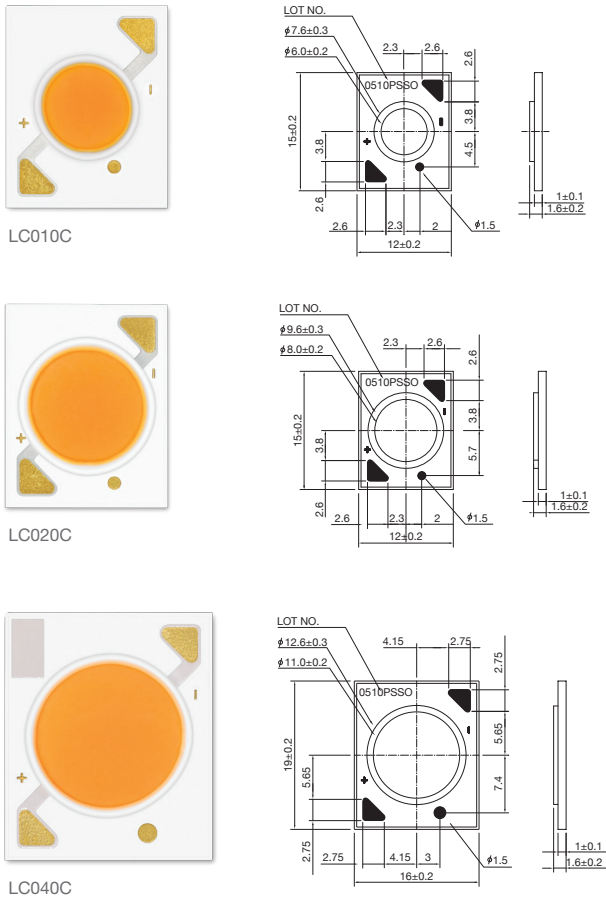


Product	CRI Min.	CCT (K)	Tc = 25℃		Tc = 85℃		IF (mA)	Part Number
			Luminous Flux Typ. (lm)	Luminous Efficacy Typ. (lm/W)	Luminous Flux Typ. (lm)	Luminous Efficacy Typ. (lm/W)		
LC026B	Vivid	3000	3,221	126	2,931	119	720	SPHWW1HDNC2VYHV32F
		3500	3,285	129	2,989	122		SPHWW1HDNC2VYHU32F
		4000	3,317	130	3,019	123		SPHWW1HDNC2VYHT32F
	95	2700	2,752	108	2,504	102		SPHWW1HDNC28YHW32F
		3000	2,837	111	2,582	105		SPHWW1HDNC28YHV32F
		3500	2,922	114	2,659	108		SPHWW1HDNC28YHU32F
	90	2700	3,092	121	2,813	115		SPHWW1HDNC27YHW32F
		3000	3,221	126	2,931	119		SPHWW1HDNC27YHV32F
		3500	3,285	129	2,989	122		SPHWW1HDNC27YHU32F
	80	4000	3,317	130	3,019	123		SPHWW1HDNC27YHT32F
		2700	3,681	144	3,349	137		SPHWW1HDNC25YHW32G
		3000	3,834	150	3,489	142		SPHWW1HDNC25YHV32G
	70	3500	3,911	153	3,559	145		SPHWW1HDNC25YHU32G
		4000	3,989	156	3,630	148		SPHWW1HDNC25YHT32G
		5000	3,949	155	3,594	146		SPHCW1HDNC25YHRT2G
LC033B	Vivid	2700	3,949	155	3,594	146	900	SPHCW1HDNC25YHQT2G
		3000	3,949	155	3,554	145		SPHWW1HDNC23YHVT3F
		4000	4,146	162	3,732	152		SPHWW1HDNC23YHTT3F
	95	5000	4,186	164	3,767	154		SPHCW1HDNC23YHRT3F
		3000	4,026	126	3,663	119		SPHWW1HDND2VYHV33P
		3500	4,106	129	3,737	122		SPHWW1HDND2VYHU33P
	90	4000	4,146	130	3,773	123		SPHWW1HDND2VYHT33P
		2700	3,440	108	3,130	102		SPHWW1HDND28YHW33J
	80	3000	3,546	111	3,227	105		SPHWW1HDND28YHV33J
		3500	3,653	114	3,324	108		SPHWW1HDND28YHU33J
	70	2700	3,865	121	3,517	115		SPHWW1HDND27YHW33P
		3000	4,026	126	3,663	119		SPHWW1HDND27YHV33P
	90	3500	4,106	129	3,737	122		SPHWW1HDND27YHU33P
		4000	4,146	130	3,773	123		SPHWW1HDND27YHT33P
	80	2700	4,601	144	4,187	137		SGHWW1HDND25YHW33G
LC040B	Vivid	3000	4,793	150	4,361	142	1,080	SGHWW1HDND25YHV33G
		3500	4,888	153	4,448	145		SGHWW1HDND25YHU33G
		4000	4,986	156	4,537	148		SGHWW1HDND25YHT33G
	95	5000	4,936	155	4,492	146		SGHCW1HDND25YHRT3G
		2700	4,936	155	4,492	146		SGHCW1HDND25YHQT3G
	90	3000	4,936	155	4,443	145		SPHWW1HDND23YHVT4P
		4000	5,183	162	4,665	152		SPHWW1HDND23YHTT4P
	80	5000	5,232	164	4,709	154		SPHCW1HDND23YHRT4P
		3000	4,831	126	4,396	119		SPHWW1HDNE2VYHV34J
	95	3500	4,927	129	4,484	122		SPHWW1HDNE2VYHU34J
		4000	4,976	130	4,528	123		SPHWW1HDNE2VYHT34J
	90	2700	4,128	108	3,757	102		SPHWW1HDNE28YHW33M
		3000	4,256	111	3,873	105		SPHWW1HDNE28YHV33M
	80	3500	4,383	114	3,989	108		SPHWW1HDNE28YHU33M
		2700	4,638	121	4,220	115		SPHWW1HDNE27YHW34J
LC040C	Vivid	3000	4,831	126	4,396	119	1,080	SPHWW1HDNE27YHV34J
		3500	4,927	129	4,484	122		SPHWW1HDNE27YHU34J
		4000	4,976	130	4,528	123		SPHWW1HDNE27YHT34J
	95	2700	5,521	144	5,024	137		SPHWW1HDNE25YHW34G
		3000	5,751	150	5,233	142		SPHWW1HDNE25YHV34G
	90	3500	5,866	153	5,338	145		SPHWW1HDNE25YHU34G
		4000	5,983	156	5,445	148		SPHWW1HDNE25YHT34G
	80	5000	5,924	155	5,390	146		SPHCW1HDNE25YHRT4G
		2700	5,924	155	5,390	146		SPHCW1HDNE25YHQT4G
	70	3000	5,924	155	5,331	145		SPHWW1HDNE23YHVT4J
		4000	6,220	162	5,598	152		SPHWW1HDNE23YHTT4J
		5000	6,279	164	5,651	154		SPHCW1HDNE23YHRT5J

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

LC010C · LC020C
LC040C

Small LES COB



Product	CRI Min.	CCT (K)	Tc = 25℃		Tc = 85℃		IF (mA)	Part Number
			Luminous Flux Typ. (lm)	Luminous Efficacy Typ. (lm/W)	Luminous Flux Typ. (lm)	Luminous Efficacy Typ. (lm/W)		
LC010C	90	2700	913	98	871	94	240	TBD
		3000	952	102	908	97		
		3500	971	104	926	99		
	80	4000	980	105	935	100		
		2700	1,087	117	1,037	111		
		3000	1,133	122	1,081	116		
	70	3500	1,155	124	1,102	118		
		4000	1,179	127	1,124	121		
		5000	1,167	125	1,113	119		
	90	2700	1,732	93	1,653	89		
		3000	1,805	97	1,721	92		
		3500	1,841	99	1,756	94		
	80	4000	1,859	100	1,773	95		
		2700	2,062	111	1,967	106		
		3000	2,148	115	2,049	110		
	70	3500	2,191	118	2,090	112		
LC020C	90	4000	2,235	120	2,132	114	540	TBD
		5000	2,213	119	2,111	113		
		2700	2,213	119	2,111	113		
	80	3000	3,465	93	3,305	89		
		3500	3,609	97	3,443	92		
		4000	3,681	99	3,512	94		
	70	2700	3,718	100	3,546	95		
		3000	4,125	111	3,935	106		
		3500	4,297	115	4,099	110		
	90	4000	4,383	118	4,181	112		
		4500	4,470	120	4,264	114		
		5000	4,426	119	4,222	113		
	80	2700	4,426	119	4,222	113		
		3000	4,426	119	4,222	113		
		3500	4,426	119	4,222	113		

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