

Full spectrum COB- Ultimate Edition

Product Features:

- 1、 LM-80 certified. Using simulated solar spectrum formula,comply with the most advanced international color evaluation system standard.
- 2、 CRI > 97
Rf:96
Rg:100
- 3、 Light efficiency:120lm/W
- 4、 Low blue light (Blue light peak value <0.3)
- 5、 Excited by multi-wavelength blue LED chips to supplement the 650nm long red light and 480nm long blue light band more truly restore the color of the objects
- 6、 SDCM<2, high light color consistency

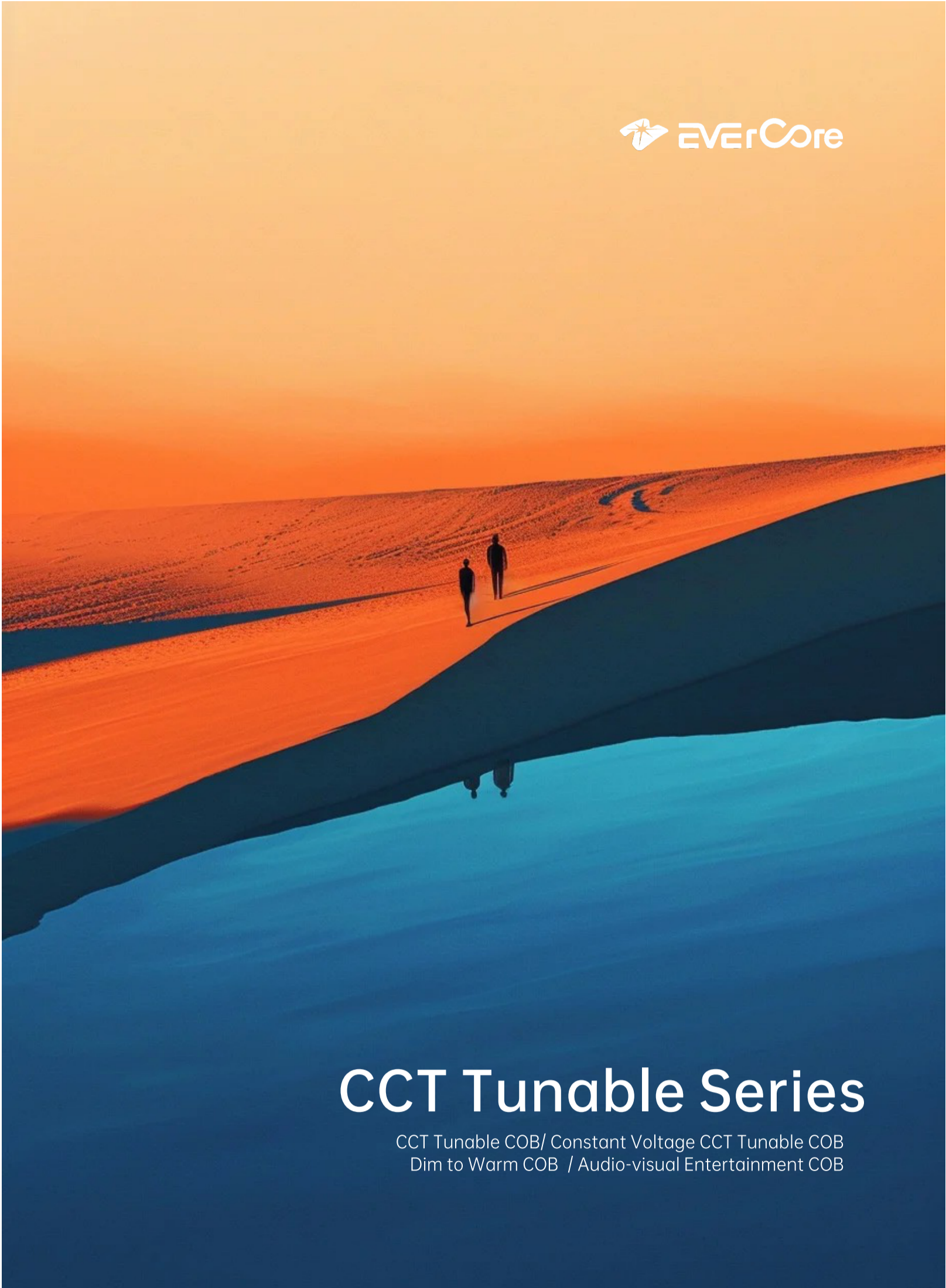
Applications:

Widely used for high-end hotels, boutique museums, and high-end home lighting and other places



Full Spectrum COB-EISG4 Series

Product Picture	Product Code	Product Model	Power (W)	LES (mm)	Typ Current (mA)	Max Current (mA)	Voltage (V)		CCT (K)	Efficiency (lm/W)	CRI (Ra)
							Min	Max			
	1202-EISG4	BH1375-0212 J6W*S-EISG4	6	φ6	180	460	32	38	2700	110	98
									3000	115	
									4000	120	
	1203-EISG4	BH1311-0312 J9W*S-EISG4	9	φ9	270	690	32	38	2700	110	98
									3000	115	
									4000	120	
	1204-EISG4	BH1311-0412 J12W*S-EISG4	12	φ9	360	920	32	38	2700	110	98
									3000	115	
									4000	120	
	1206-EISG4	BH1917-0612 J18W*S-EISG4	18	φ15	540	1380	32	38	2700	115	98
									3000	120	
									4000	125	
	1208-EISG4	BH1917-0812 J24W*S-EISG4	24	φ15	720	1840	32	38	2700	115	98
									3000	120	
									4000	125	
	1210-EISG4	BH1917-1012 J30W*S-EISG4	30	φ15	900	2300	32	38	2700	115	98
									3000	120	
									4000	125	



CCT Tunable Series

CCT Tunable COB/ Constant Voltage CCT Tunable COB
Dim to Warm COB / Audio-visual Entertainment COB

CCT Tunable Series

Color Temperature Application Comparison



Different color temperatures have different visual effects on illuminated objects, since each display item varies in material and hue, it requires a matched color temperature to highlight its optimal visual presentation.



3000K



3500K



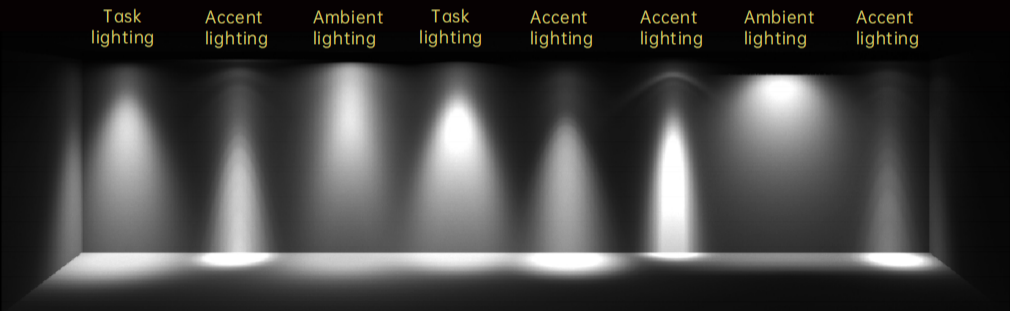
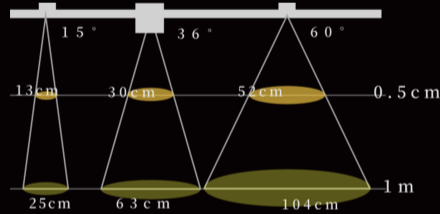
4000K

Beam Focusing

In beam focusing applications, the corresponding beam angle ranges are typically defined as:

- Narrow beam: <20°
- Medium beam: 20°-40°
- Wide beam: >40°

Whether illuminated exhibits or ambient spaces, different beam performances create different application characteristics

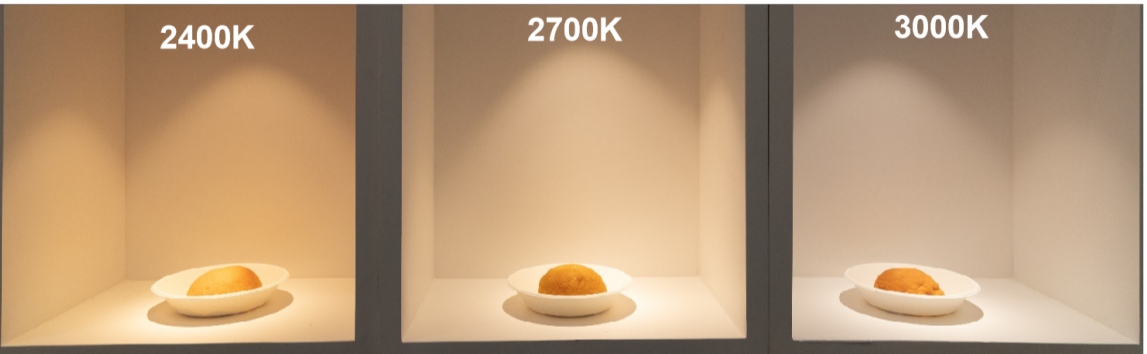
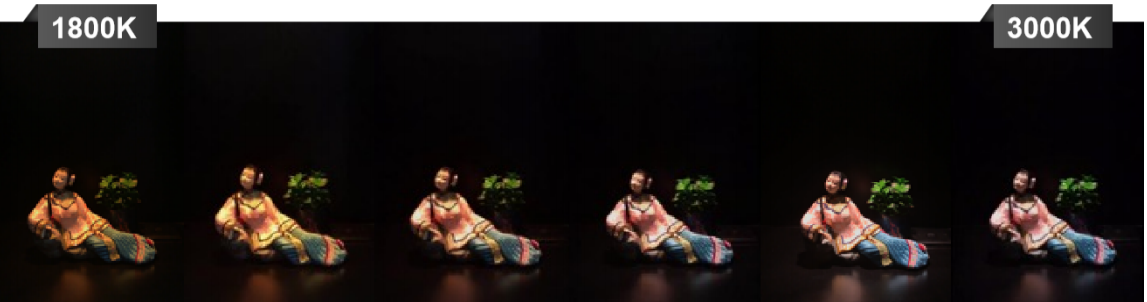


Key applications of lighting - CCT

- The color temperature range of physical characteristics is from 1000K to 10000K, and in practical applications, the effective application CCTs are:



- Different color temperatures have varying expressive power on the illuminated object; And each display item needs to have a matching color temperature to highlight the best visual presentation due to its different materials and colors.



CCT Tunable Series- CCT Tunable COB Ultimate Edition

Product Features:

- 1、LM-80 certified
- 2、CCT Tunable range options: 2700-6000K;1800-4000K;2700-4000K;2700-5000K
- 3、Ra > 80/90/95
- 4、Light efficiency: 145lm/W
- 5、Uniform distribution, color spot perfectly fitting along BBL
- 6、Smooth light brightness and color temperature adjustment
- 7、Power ranging from 4W-80W. Best choice for intelligent lighting



Applications:

Widely used for high-end hotels, smart homes, high-end commercial space and other places

CCT Tunable COB-EIGEN 7 Series

Product Picture	Product Code	Product Model	Power (W)	LES (mm)	Typ Current (mA)	Max Current (mA)	Voltage (V)		CCT(K)	Efficiency (lm/W)	CRI (Ra)
							Min	Max			
	1202-EIGEN7	CK1308-0212 J6WLSG-EISV4	6+6	φ6	160	400	32	38	2700/ 6000K	2700K:125 6000K:145	≥80
		CK1308-0212 J6WLSH-EISV4	6+6	φ6	160	400	32	38		2700K:110 6000K:130	≥90
		CK1308-0212 J6WLSS-EISV4	6+6	φ6	160	400	32	38		2700K:95 6000K:110	≥95
	1204-EIGEN7	CK1611-0412 J12WLSG-EISV4	12+12	φ9	320	800	32	38	2700/ 6000K	2700K:125 6000K:145	≥80
		CK1611-0412 J12WLSH-EISV4	12+12	φ9	320	800	32	38		2700K:110 6000K:130	≥90
		CK1611-0412 J12WLSS-EISV4	12+12	φ9	320	800	32	38		2700K:95 6000K:110	≥95
	1206-EIGEN7	CK18145-0612 J18WLSG-EISV4	18+18	φ13	480	1200	32	38	2700/ 6000K	2700K:130 6000K:150	≥80
		CK18145-0612 J18WLSH-EISV4	18+18	φ13	480	1200	32	38		2700K:115 6000K:135	≥90
		CK18145-0612 J18WLSS-EISV4	18+18	φ13	480	1200	32	38		2700K:100 6000K:115	≥95
	1208-EIGEN7	CK1917-0812 J24WLSG-EISV4	24+24	φ15	640	1600	32	38	2700/ 6000K	2700K:125 6000K:145	≥80
		CK1917-0812 J24WLSH-EISV4	24+24	φ15	640	1600	32	38		2700K:110 6000K:130	≥90
		CK1917-0812 J24WLSS-EISV4	24+24	φ15	640	1600	32	38		2700K:95 6000K:110	≥95
	1212-EIGEN7	CK1917-1212 J36WLSG-EISV4	36+36	φ15	960	2400	32	38	2700/ 6000K	2700K:125 6000K:145	≥80
		CK1917-1212 J36WLSH-EISV4	36+36	φ15	960	2400	32	38		2700K:110 6000K:130	≥90
		CK1917-1212 J36WLSS-EISV4	36+36	φ15	960	2400	32	38		2700K:95 6000K:110	≥95
	1218-EIGEN7	CK2823-1812 J54WLSG-EISV4	54+54	φ21	1440	3600	32	38	2700/ 6000K	2700K:130 6000K:150	≥80
		CK2823-1812 J54WLSH-EISV4	54+54	φ21	1440	3600	32	38		2700K:115 6000K:135	≥90
		CK2823-1812 J54WLSS-EISV4	54+54	φ21	1440	3600	32	38		2700K:100 6000K:115	≥95

CCT Tunable Series-Constant Voltage CCT Tunable COB

Product Features:

- 1、LM-80 certified
- 2、CCT tunable range from 2700K to 6000K
- 3、CRI > 90
- 4、Light efficiency: 120lm/W
- 5、Uniform distribution, color spot perfectly along BBL
- 6、24/48V constant voltage input, automatic constant current
- 7、Power ranging from 7W-30W, best choice for intelligent lighting



Applications:

Widely used for high-end hotels, smart homes, high-end commercial space and other places

CCT Tunable Constant Voltage COB-EIHK Series

Product Picture	Product Code	Product Model	Power (W)	LES (mm)	Voltage (V)		CCT(K)	Efficiency (lm/W)	CRI (Ra)
					Min	Max			
	0702-EIHK	HK1375-0207K7WLSH-EIV4	7+7	φ6	24	27	2700/ 6000K	2700K:80 6000K:95	≥90
	0704-EIHK	HK16105-0407K12WLSH-EIV4	12+12	φ9	24	27	2700/ 6000K	2700K:85 6000K:100	≥90
	0708-EIHK	HK1814-0807K20WLSH-EIV4	20+20	φ12	24	27	2700/ 6000K	2700K:95 6000K:110	≥90
	1505-EIHK	HK1917-0515K24WLSH-EIV4	24+24	φ15	48	54	2700/ 6000K	2700K:95 6000K:110	≥90
	1507-EIHK	HK1917-0715K30WLSH-EIV4	30+30	φ15	48	54	2700/ 6000K	2700K:95 6000K:110	≥90

CCT Tunable Series- Audio-visual Entertainment lighting COB

Product Features:

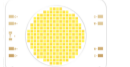
- 1、CCT tunable range: 2700-7000K;2500-7900K
- 2、CRI > 90
- 3、Light efficiency: 120lm/W
- 4、Uniform distribution, color spot perfectly fitting along BBL
- 5、Smooth light brightness and color temperature adjustment
- 6、Power ranging from 60W-600W.
Best choice for audio-visual Entertainment lighting



Applications:

Widely used for audio-visual Entertainment COB

CCT COB Audio-visual entertainment Series

Product Picture	Product Model	Power (W)	LES (mm)	Typ Current (mA)	Max Current (mA)	Voltage (V)		CCT(K)	Efficiency (lm/W)	CRI (Ra)
						Min	Max			
	SK2824-2112 J60WLTS-EIYV3	60+60	φ22	1600	2000	32	40	2700/ 7000K	2700K:85 7000K:105	≥95
	SK2824-2112 J100WLTS-EIKV4	100+100	φ22	2600	3000	34	42	2700/ 7000K	2700K:75 7000K:95	≥95
	SK7059-5624 J300WKTS-EIKV3BP	300+300	φ56	4250	4500	68	73	2500/ 7900K	2500K:95 7900K:125	≥95
	PT7560-1200W-EILTS	600+600	φ60	8500	9000	69	75	2700/ 7000K	2700K:95 7000K:125	≥95

CCT Tunable Series- Dim to Warm COB

Product Features:

- 1、All series are LM-80 certified
- 2、CCT tunable range :1800-3000K;2200-4000K
- 3、CRI > 90
- 4、Light efficiency: 135lm/W
- 5、Halogen-like Color Temperature Adjustment Curve
- 6、Power ranging from 3W-20W. Best choice for intelligent lighting

Applications:

Widely used for high-end hotels, smart homes, high-end commercial space and other places

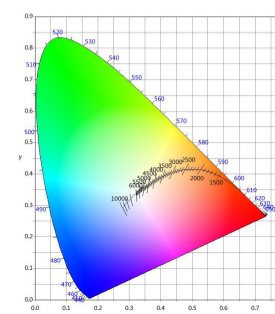


CCT Tunable COB Dim to Warm Series

Product Picture	Product Code	Product Model	Power (W)	LES (mm)	Typ Current (mA)	Max Current (mA)	Voltage (V)		CCT(K)	Efficiency (lm/W)	CRI (Ra)
							Min	Max			
	0602-EIDKK	DK1375-0206 J3WVMH-EIKV4P	3	φ6	20-200	250	10	20	1800-3000	1800K: 110LM/W 3000K: 120LM/W	≥90
	0602-EIDKK	DK1375-0206 J3WUOH-EIKV4P	3		20-200	250	10	20	2200-4000	2200K: 125LM/W 4000K: 135LM/W	≥90
	1202-EIDKK	DK1375-0212 J6WVMH-EIKV4P	6	φ6	18-180	250	26	38	1800-3000	1800K: 110LM/W 3000K: 120LM/W	≥90
	1202-EIDKK	DK1375-0212 J6WUOH-EIKV4P	6		18-180	250	26	38	2200-4000	2200K: 125LM/W 4000K: 135LM/W	≥90
	0604-EIDKK	DK1308-0406 J6WVMH-EIKV4P	6	φ6.5	30-350	400	10	20	1800-3000	1800K: 110LM/W 3000K: 120LM/W	≥90
	0604-EIDKK	DK1308-0406 J6WUOH-EIKV4P	6		30-350	400	10	20	2200-4000	2200K: 125LM/W 4000K: 135LM/W	≥90
	1204-EIDKK	DK1311-0412 J10WVMH-EIKV4P	10	φ9.5	30-300	400	26	38	1800-3000	1800K: 110LM/W 3000K: 120LM/W	≥90
	1204-EIDKK	DK1311-0412 J10WUOH-EIKV4P	10		30-300	400	26	38	2200-4000	2200K: 125LM/W 4000K: 135LM/W	≥90
	1206-EIDKK	DK1916-0612 J20WVMH-EIKV4P	20	φ14.3	60-600	700	26	38	1800-3000	1800K: 110LM/W 3000K: 120LM/W	≥90
	1206-EIDKK	DK1916-0612 J20WUOH-EIKV4P	20		60-600	700	26	38	2200-4000	2200K: 125LM/W 4000K: 135LM/W	≥90

Concept and definition of RGBCW COB

- CCT tunable range of white light : 1000K -- 20000K
- Color point fitting along BBL
- Covering the applications of all colors and lights required for both visual and non-visual purposes in nature
- Intelligent lighting and RGB colorful light are integrated to achieve multifunctional applications such as general lighting , entertainment lighting, human centric lighting, plant supplementary lighting, and chromotherapy etc.



Characteristics of the RGBCW COB Product Series

Jointly developed by the Scientific Research team from the State Key Laboratory of Optoelectronic Materials and Technology of Sun Yat-sen University and Evercore.

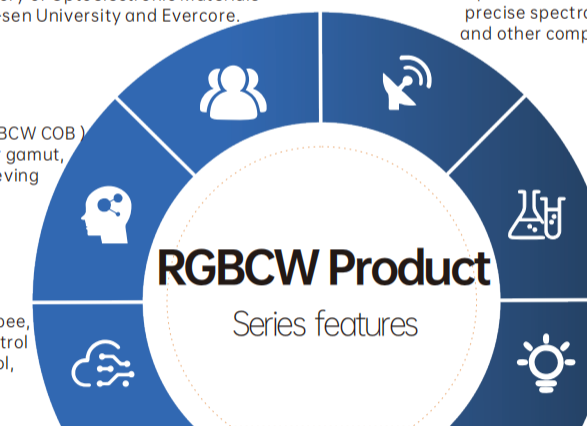
Application of Vertical electrode technology, flip eutectic technology, multi-color light mixing, precise spectral excitation, multi-chip integration and other comprehensive technologies

Digital integrated LED COB (RGBCW COB) with full spectrum and full color gamut, underlying technology for achieving digital Human-Centric lighting

Mixed light algorithm to truly achieve Human-Centric lighting

Adapted with Bluetooth, Zigbee, PLC and other intelligent control (on-off switch, remote control, IPAD/ mobile phone)

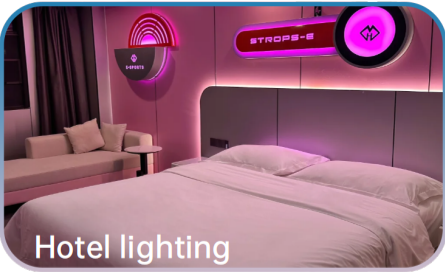
Using multi-chip integration and light mixing algorithm technology, to better meet the illumination optical requirement of light mixing uniformity and color temperature uniformity



RGBCW Series

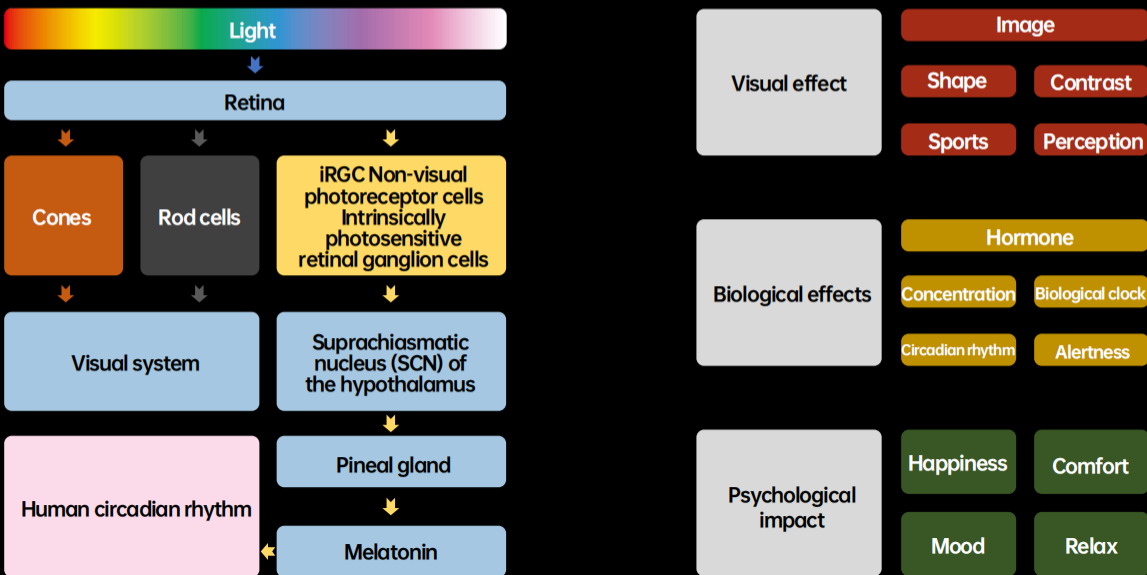
RGBCW COB/ RGBCW DOB

Applications



RGBCW Series

The application value of light and color



*ipRGC affects human rhythm and regulates biological clock.

Connection between color and human emotions

Vision is the 1st sense of people, and color has the greatest impact on vision. Color affects people's emotions, while emotions dominate behaviors. Color can affect human brain waves.

- Brain waves respond to **Red** as alertness, **Blue** as relaxation, and **Yellow** as warning.
- **Pink** is relaxing and soothing
- Monotonous colors, especially **Dark green**, can easily cause hallucinations and delusions to patients in mental hospitals



The Value of Phototherapy

There are already a lot of scientific experimental evidences indicating that lighting has a significant impact on the physical and mental health of medical staff and patients, such as: lighting affects sleep onset time, quality and duration, emotions (such as pleasure, relaxation, restlessness, tension and fear, etc.), and mental disorders such as depression.

- Studies show that human fear is not related to the brain, but determined by the hypothalamus of mammals. Depression and autism are actually excessive stress responses of the limbic system of the brain.
- Health problems related to emotions and stress, can be tackled by phototherapy methods.
- Human Centric Lighting (HCL) adjusts illuminance, color temperature and color according to the physiological rhythm of the human body to effectively adjust human functions and emotions, thereby having a healing effect on patients and various specific mental diseases.



Human-Centric Health Lighting Application Solutions Reference



Postpartum care center Psychological Counseling Room Health & Wellness Spa Residential Living Room

RGBCW Series

Product Features:

- CCT tunable range: 1000-20000K
- Color point fitting along BBL
- CRI > 90
- Covering the applications of all colors and lights required for both visual and non-visual purposes in nature
- Adapted with Bluetooth, Zigbee, PLC and other intelligent control (on-off switch, remote control, IPAD/ mobile phone).

Applications:

Widely used for High-end smart homes, spaces for light therapy-assisted applications (psychological counseling rooms, confinement centers, psychotherapy rooms, health care and physiotherapy centers, etc.), high-end commercial boutique spaces and other places.

Product Picture	Product Model	Wavelength(nm) CCT (K)	Power (W)	LES (mm)	Typ Current (mA)	Max Current (mA)	Voltage (V)		Efficiency (lm/W)	CRI (Ra)
							Min	Max		
	NCW1611A-30W-LSH-EIP	R:620-630nm	4	φ9	160	200	23	26	/	/
		G:520-530nm	7		280	400	23	26	/	/
		B:450-460nm	7		280	400	23	26	/	/
		C:6000K	7		280	400	23	26	115	≥90
		W:2700K	7		280	400	23	26	95	≥90
	NCW1814B-60W-LSH-EIP	R:620-630nm	12	φ12	320	400	34	40	/	/
		G:520-530nm	12		320	400	32	38	/	/
		B:450-460nm	12		320	400	34	40	/	/
		C:6000K	12		320	400	34	40	115	≥90
		W:2700K	12		320	400	34	40	95	≥90
	NCW2320B-100W-LSH-EIP	R:620-630nm	12	φ18	320	400	34	40	/	/
		G:520-530nm	12		320	400	34	40	/	/
		B:450-460nm	12		320	400	34	40	/	/
		C:6000K	25		700	900	34	40	110	≥90
		W:2700K	25		700	900	34	40	90	≥90
	NCW1916B-50W-LSH-EIP	R:620-630nm	6	φ14	160	200	34	40	/	/
		G:520-530nm	12		320	400	32	38	/	/
		B:450-460nm	12		320	400	34	40	/	/
		C:6000K	12		320	400	34	40	115	≥90
		W:2700K	12		320	400	34	40	95	≥90
	DCW1913A-30W-EILSH	R:620-630nm	4	φ11	160	200	23	26	/	/
		G:520-530nm	7		280	400	23	26	/	/
		B:450-460nm	7		280	400	23	26	/	/
		C:6000K	7		280	400	23	26	95	≥90
		W:2700K	7		280	400	23	26	75	≥90
	DCW1916B-60W-EILSH	R:620-630nm	12	φ14	320	400	34	40	/	/
		G:520-530nm	12		320	400	32	38	/	/
		B:450-460nm	12		320	400	34	40	/	/
		C:6000K	12		320	400	34	40	95	≥90
		W:2700K	12		320	400	34	40	75	≥90
	SLEM7214A-RGBCW-EI50WH	R:620-630nm	12	φ12	320	400	34	40	/	/
		G:520-530nm	12		320	400	34	40	/	/
		B:450-460nm	12		320	400	34	40	/	/
		C:6000K	25		700	900	34	40	95	≥90
		W:2700K	25		700	900	34	40	75	≥90