



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

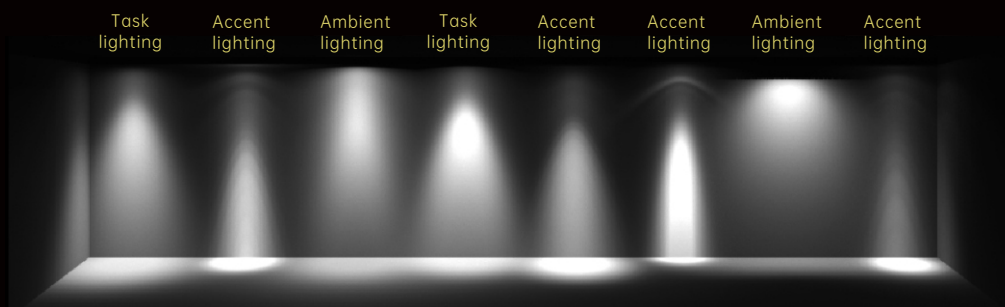
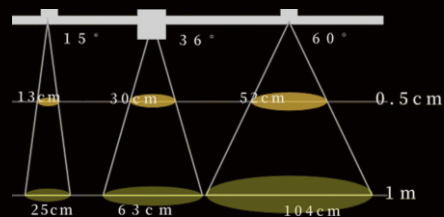
In beam focusing applications, the corresponding beam angle ranges are typically defined as:

Narrow beam: $< 20^\circ$

Medium beam: $20^\circ - 40^\circ$

Wide beam: $> 40^\circ$

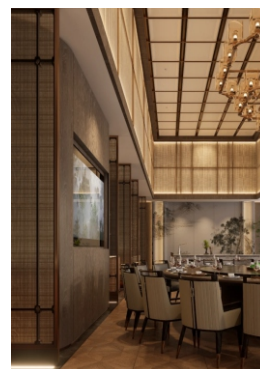
Whether illuminated exhibits or ambient spaces, different beam performances create different application characteristics



CCT Tunable Series - CCT Tunable COB Standard 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: 135lm/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:

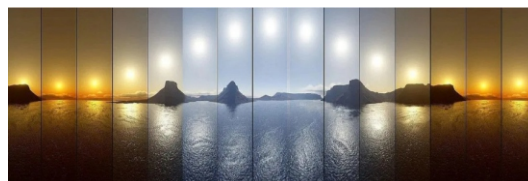
Widely used for high-end hotels, smart homes, high-end commercial space and other places

Product Picture	Model Number	LES (mm)	Power (W)	TyP Current (mA)	Max Current (mA)	Voltage (V)	CCT (K)	CRI (Ra)	Efficiency (lm/W)
	0205-7E	Φ3.8	6	400	500	16	2700	≥80	80
			6	400	500	16	6000	≥80	98
			6	400	500	16	2700	≥90	70
			6	400	500	16	6000	≥90	85
			6	400	500	16	2700	≥95	60
			6	400	500	16	6000	≥95	72
	1202-7E	Φ6	6	160	200	36	2700	≥80	120
			6	160	200	36	6000	≥80	135
			6	160	200	36	2700	≥90	105
			6	160	200	36	6000	≥90	120
			6	160	200	36	2700	≥95	90
			6	160	200	36	6000	≥95	105
	1204-7E	Φ9	12	320	400	36	2700	≥80	120
			12	320	400	36	6000	≥80	135
			12	320	400	36	2700	≥90	105
			12	320	400	36	6000	≥90	120
			12	320	400	36	2700	≥95	90
			12	320	400	36	6000	≥95	105
	1206-7E	Φ13	18	480	600	36	2700	≥80	120
			18	480	600	36	6000	≥80	135
			18	480	600	36	2700	≥90	105
			18	480	600	36	6000	≥90	120
			18	480	600	36	2700	≥95	90
			18	480	600	36	6000	≥95	105
	1208-7E	Φ15	24	640	800	36	2700	≥80	120
			24	640	800	36	6000	≥80	135
			24	640	800	36	2700	≥90	105
			24	640	800	36	6000	≥90	120
			24	640	800	36	2700	≥95	90
			24	640	800	36	6000	≥95	105
	1212-7E	Φ15	36	960	1200	36	2700	≥80	120
			36	960	1200	36	6000	≥80	135
			36	960	1200	36	2700	≥90	105
			36	960	1200	36	6000	≥90	120
			36	960	1200	36	2700	≥95	90
			36	960	1200	36	6000	≥95	105

CCT Tunable Series- CCT Tunable COB Ultimate Edition





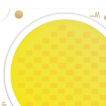

Product Features:

- 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

Product Picture	Model Number	LES (mm)	Power (W)	TyP Current (mA)	Max Current (mA)	Voltage (V)	CCT (K)	CRI (Ra)	Efficiency (lm/W)
	1202-7	Φ6	6	160	400	36	2700	≥80	125
			6	160	400	36	6000	≥80	145
			6	160	400	36	2700	≥90	110
			6	160	400	36	6000	≥90	130
			6	160	400	36	2700	≥95	95
			6	160	400	36	6000	≥95	110
	1204-7	Φ9	12	320	800	36	2700	≥80	125
			12	320	800	36	6000	≥80	145
			12	320	800	36	2700	≥90	110
			12	320	800	36	6000	≥90	130
			12	320	800	36	2700	≥95	95
			12	320	800	36	6000	≥95	110
	1206-7	Φ13	18	480	1200	36	2700	≥80	130
			18	480	1200	36	6000	≥80	150
			18	480	1200	36	2700	≥90	115
			18	480	1200	36	6000	≥90	135
			18	480	1200	36	2700	≥95	100
			18	480	1200	36	6000	≥95	115
	1208-7	Φ15	24	640	1600	36	2700	≥80	125
			24	640	1600	36	6000	≥80	145
			24	640	1600	36	2700	≥90	110
			24	640	1600	36	6000	≥90	130
			24	640	1600	36	2700	≥95	95
			24	640	1600	36	6000	≥95	110
	1212-7	Φ15	36	960	2400	36	2700	≥80	120
			36	960	2400	36	6000	≥80	140
			36	960	2400	36	2700	≥90	105
			36	960	2400	36	6000	≥90	125
			36	960	2400	36	2700	≥95	90
			36	960	2400	36	6000	≥95	105
	1812-7	Φ21	54	1440	3600	36	2700	≥80	130
			54	1440	3600	36	6000	≥80	150
			54	1440	3600	36	2700	≥90	115
			54	1440	3600	36	6000	≥90	135
			54	1440	3600	36	2700	≥95	100
			54	1440	3600	36	6000	≥95	115

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



HK Series

Product Picture	Model Number	LES (mm)	Power (W)	TyP Voltage (V)	Max Voltage (V)	CCT (K)	CRI (Ra)	Efficiency (lm/W)
	0702-HK	Φ6	7	24	27	2700	≥90	80
			7	24	27	6000	≥90	98
	0704-HK	Φ9	12	24	27	2700	≥90	86
			12	24	27	6000	≥90	102
	0708-HK	Φ12	20	24	27	2700	≥90	95
			20	24	27	6000	≥90	110
	1505-HK	Φ15	24	48	54	2700	≥90	95
			24	48	54	6000	≥90	110
	1507-HK	Φ15	30	48	54	2700	≥90	95
			30	48	54	6000	≥90	110

CCT Tunable Series- Audio-visual Entertainment lighting COB




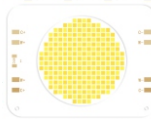
Product Features:

- 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-300W.
Best choice for audio-visual Entertainment lighting



Applications:

Widely used for audio-visual Entertainment COB

Product Picture	Model Number	LES (mm)	Power (W)	TyP Current (mA)	Max Current (mA)	CCT (K)	CRI (Ra)	Voltage (V)	Efficiency (lm/W)
	SK2824-2112 J60WLTS-YV3	Φ22	60	1600	2000	2700	≥95	36	85
			60	1600	2000	7000	≥95	36	105
	SK2824-2112 J100WLTS-KV4	Φ22	100	2600	3000	2700	≥95	36	75
			100	2600	3000	7000	≥95	36	95
	SK7059-5624 J300WKTS-KV3BP	Φ56	300	4250	4500	2500	≥95	72	95
			300	4250	4500	7900	≥95	72	125
	PT7560-1200W -LTS	Φ60	600	8500	9000	2700	≥95	72	95
			600	8500	9000	7000	≥95	72	125

CCT Tunable Series- Dim to Warm COB








Product Features:

- 1、 All series are LM-80 certified
- 2、 CCT tunable range :1800-3000K;2200-4000K;1800-5000K
- 3、 CRI > 90
- 4、 Light efficiency: 150lm/W
- 5、 Halogen-like Color Temperature Adjustment Curve
- 6、 Power ranging from 10W-20W. Best choice for intelligent lighting

Applications:

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



Product Picture	Model Number	LES (mm)	Power (W)	TyP Current (mA)	Max Current (mA)	Voltage (V)	CCT (K)	CRI (Ra)	Efficiency (lm/W)
	0604-DK	$\Phi 6$	6	30-350	400	18	2200-4000	≥ 90	125
			6	30-350	400	18	1800-3000	≥ 90	110
	1203-DK	$\Phi 9$	10	30-300	350	36	2200-4000	≥ 90	120
			10	30-300	350	36	1800-3000	≥ 90	110
	1206-DK	$\Phi 14$	20	60-600	700	36	2200-4000	≥ 90	120
			20	60-600	700	36	1800-3000	≥ 90	110
	0607-SKK	$\Phi 8.5$	0.3	20	100	14	1800	≥ 90	105
			6	300	400	18	2700	≥ 90	110
			6	300	400	18	3000	≥ 90	115
	1205-FKK	$\Phi 12$	2.6	90	180	30	1800	≥ 90	90
			6	180	400	36	2700	≥ 90	140
			6	180	400	36	5000	≥ 90	150
	1209-FKK	$\Phi 15$	3	100	200	30	1800	≥ 90	90
			18	500	800	36	2700	≥ 90	130
			18	500	800	36	5000	≥ 90	140
	1214-FKK	$\Phi 17.8$	6	200	400	30	1800	≥ 90	75
			30	800	1200	36	2700	≥ 90	125
			30	800	1200	36	5000	≥ 90	135



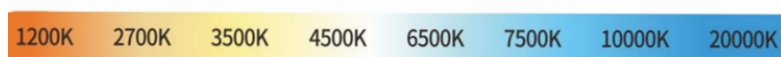
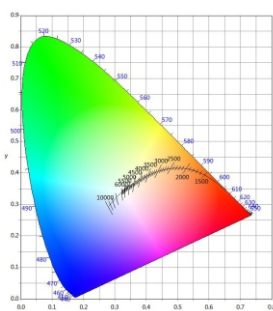
RGBCW Series

RGBCW COB/ RGBCW DOB

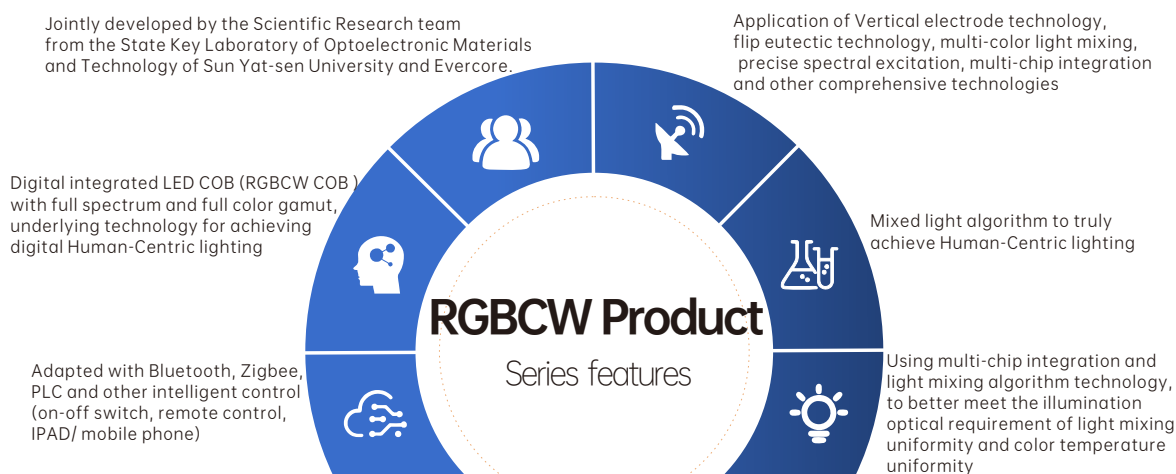
RGBCW Series

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



Applications



Home lighting



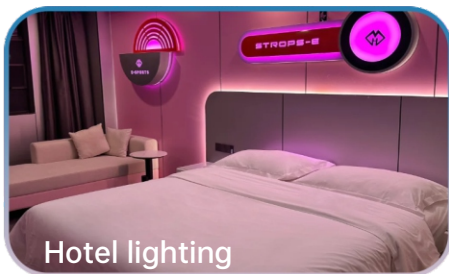
Chain Store lighting



Underground lighting



Office lighting



Hotel lighting



Postpartum care lighting



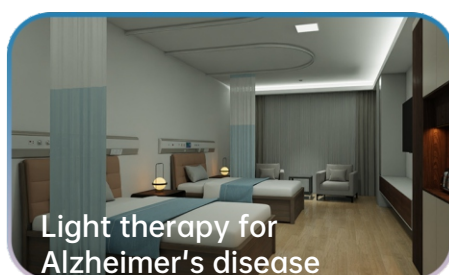
Wellness and
physiotherapy lighting



Light therapy for depression

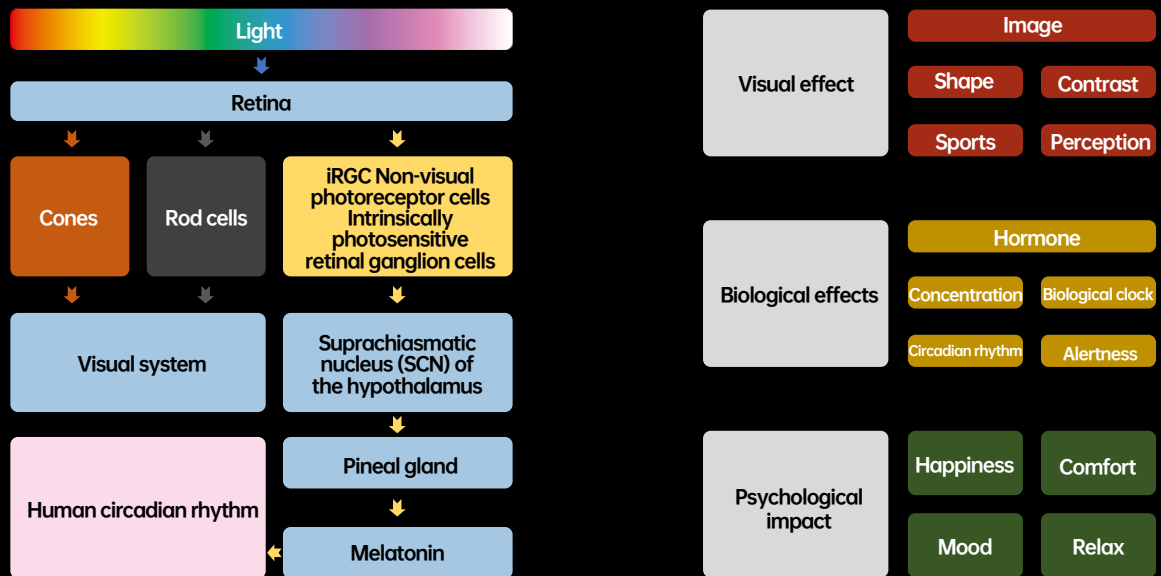


Light therapy for autism



Light therapy for
Alzheimer's disease

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





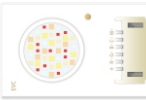
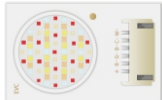

Product Features:

- 1、CCT tunable range: 1000-20000K
- 2、Color point fitting along BBL
- 3、CRI > 90
- 4、Covering the applications of all colors and lights required for both visual and non-visual purposes in nature
- 5、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.

RGBCW LED

Product Picture	Model Number	LES (mm)	Power (W)	TyP Current (mA)	Max Current (mA)	Voltage (V)	CCT (K)	CRI (Ra)	Efficiency (lm/W)
	NCW1611A-30W-LSH-P	Φ9	4	160	200	24	R	/	/
			7	280	400	24	G	/	/
			7	280	400	24	B	/	/
			7	280	400	24	C:6000	≥90	115
			7	280	400	24	W:2700	≥90	100
	NCW1814B-60W-LSH-P	Φ12	12	320	400	36	R	/	/
			12	320	400	36	G	/	/
			12	320	400	36	B	/	/
			12	320	400	36	C:6000	≥90	110
			12	320	400	36	W:2700	≥90	95
	NCW1916B-50W-LSH-P	Φ14	6	160	200	36	R	/	/
			12	320	400	36	G	/	/
			12	320	400	36	B	/	/
			12	320	400	36	C:6000	≥90	110
			12	320	400	36	W:2700	≥90	95
	NCW2320B-100W-LSH-P	Φ18	12	320	400	36	R	/	/
			12	320	400	36	G	/	/
			12	320	400	36	B	/	/
			25	700	900	36	C:6000	≥90	115
			25	700	900	36	W:2700	≥90	100
	DCW1913A-30W-LSH	Φ13	4	160	200	24	R	/	/
			7	280	400	24	G	/	/
			7	280	400	24	B	/	/
			7	280	400	24	C:6000	≥90	95
			7	280	400	24	W:2700	≥90	75
	DCW1916B-60W-LSH	Φ16	12	320	400	36	R	/	/
			12	320	400	36	G	/	/
			12	320	400	36	B	/	/
			12	320	400	36	C:6000	≥90	95
			12	320	400	36	W:2700	≥90	75
	PX3838RGBW 2W25P01	Φ3.15	0.3	120	180	3	R	/	/
			0.3	120	180	3	G	/	/
			0.3	120	180	3	B	/	/
			0.3	120	180	3	W: 2500	≥70	116

RGBCW DOB

Product Picture	Model Number	LES (mm)	Power (W)	Control	Frequency (mA)	Voltage AC (V)	CCT (K)	CRI (Ra)	Efficiency (lm/W)
	SLEM7214A-RG BCW-50WH-E/A	Φ12	8	Blue tooth Mesh	50/60	200~240 / 110~130	R	/	/
			8				G	/	/
			8				B	/	/
			14				C:6000	≥90	105
			14				W:2700	≥90	90