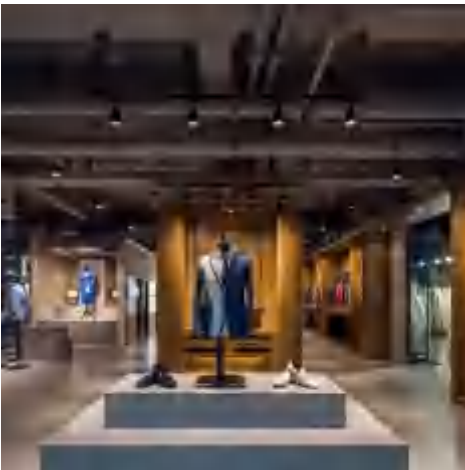


Product Features:

- 1、Complied with ANSI standard, LM-80 certified
- 2、CRI > 80 or 90
- 3、Light efficiency: 150lm/W , 165lm/W、175lm/W(@3000K 80Ra)
- 4、Work with isolated driver with a voltage range of 36V to 38V, compatible with international standard sizes.
- 5、SDCM<2, high light color consistency

Applications:

Widely used for hotel clubs, museums, clothing brand stores, chain supermarkets and high-end home lighting and other places



High efficiency COB-Y Series 150lm/W

Product Picture	Model Number	LES (mm)	Power (W)	TyP Current (mA)	Max Current (mA)	Voltage (V)	CRI (Ra)	Efficiency @3000K (lm/w)	Lumen (lm)
	1201-Y	Φ6	5	130	200	36	≥80	142	664
							≥90	120	561
	1202-Y	Φ6	7	200	400	36	≥80	142	1022
							≥90	120	864
	1203-Y	Φ9	12	350	600	36	≥80	145	1827
							≥90	123	1549
	1204-Y	Φ9	15	400	800	36	≥80	145	2088
							≥90	123	1771
	1205-Y	Φ15	20	550	1000	36	≥80	150	2970
							≥90	130	2574
	1206-Y	Φ15	25	700	1200	36	≥80	150	3780
							≥90	129	3250
	1208-Y	Φ15	35	950	1600	36	≥80	150	5130
							≥90	129	4411
	1206-Y	Φ14	25	700	1200	36	≥80	150	3780
							≥90	128	3225
	1207-Y	Φ14	30	800	1400	36	≥80	150	4320
							≥90	128	3686
	1208-Y	Φ14	35	950	1600	36	≥80	150	5130
							≥90	127	4343

High efficiency Series

Standard Edition /Ultimate Edition/High Density Edition /Constant Voltage Edition/

High efficiency Series-Standard Edition

High efficiency COB-K Series 165lm/W

Product Picture	Model Number	LES (mm)	Power (W)	TyP Current (mA)	Max Current (mA)	Voltage (V)	CRI (Ra)	Efficiency @3000K (lm/W)	Lumen (lm)
	1201-K	Φ6	3	90	230	36	≥80	161	521
							≥90	137	443
	1202-K	Φ6	6	180	460	36	≥80	161	1043
							≥90	137	887
	1203-K	Φ9	9	270	690	36	≥80	161	1564
							≥90	137	1331
	1204-K	Φ9	12	360	920	36	≥80	161	2086
							≥90	137	1775
	1205-K	Φ15	15	450	1150	36	≥80	165	2673
							≥90	140	2268
	1206-K	Φ15	18	540	1380	36	≥80	166	3227
							≥90	141	2741
	1208-K	Φ15	24	720	1840	36	≥80	166	4302
							≥90	141	3654
	1210-K	Φ15	30	900	2300	36	≥80	162	5248
							≥90	138	4471
	1311-K	Φ15	24	600	2530	36	≥80	175	3780
							≥90	150	3240

High efficiency COB-S Series 175lm/W

Product Picture	Model Number	LES (mm)	Power (W)	TyP Current (mA)	Max Current (mA)	Voltage (V)	CRI (Ra)	Efficiency @3000K (lm/W)	Lumen (lm)
	1202-S	Φ6	6	180	460	36	≥80	170	1101
							≥90	144	933
	1204-S	Φ9	12	360	920	36	≥80	170	2203
							≥90	144	1866
	1206-S	Φ15	18	540	1380	36	≥80	175	3402
							≥90	149	2896
	1208-S	Φ15	24	720	1840	36	≥80	175	4536
							≥90	149	3862
	1210-S	Φ15	30	900	2300	36	≥80	170	5508
							≥90	144	4665
	1214-S	Φ19	42	1260	3220	36	≥80	175	7938
							≥90	149	6758

High efficiency Series- Ultimate Edition

Product Features:

- 1、Complied with ANSI standard, LM-80 certified
- 2、CRI > 90
- 3、Light efficiency: 200lm/W(@3000K 90Ra)
- 4、Work with isolated driver with a voltage range of 36V to 38V, compatible with international standard sizes.
- 5、SDCM <2, high light color consistency

Applications:

Widely used for hotel clubs, museums, clothing brand stores, chain supermarkets and high-end home lighting and other places



K90 Series 200lm/W

Product Picture	Model Number	LES (mm)	Power (W)	TyP Current (mA)	Max Current (mA)	Voltage (V)	CCT (K)	CRI (Ra)	Efficiency (lm/W)	Lumen (lm)
	1202-K90	Φ6	4	120	300	36	2700	≥90	173	692
							3000		182	728
							4000		191	764
	1204-K90	Φ9	8	240	600	36	2700	≥90	173	1384
							3000		182	1456
							4000		191	1528
	1205-K90	Φ9	10	300	750	36	2700	≥90	173	1730
							3000		182	1820
							4000		191	1910
	1209-K90	Φ12	18	480	1350	36	2700	≥90	176	3168
							3000		185	3330
							4000		194	3492
	1208-K90	Φ15	16	480	1200	36	2700	≥90	176	2816
							3000		185	2960
							4000		194	3104
	1210-K90	Φ15	20	600	1500	36	2700	≥90	176	3520
							3000		185	3700
							4000		194	3880
	1313-K90	Φ15	28	780	1950	36	2700	≥90	176	4928
							3000		185	5180
							4000		194	5432

High efficiency Series-High Density COB

Product Features:

- 1、Complied with ANSI standard, LM-80 certified
- 2、CRI > 90
- 3、Ultra high power density, high central light intensity
- 4、Ultra-small substrate size, enabling small angle optical distribution with in 10°
- 5、SDCM <2, high light color consistency

Applications:

Widely used for hotel clubs, museums, clothing brand stores, chain supermarkets and high-end home lighting and other places



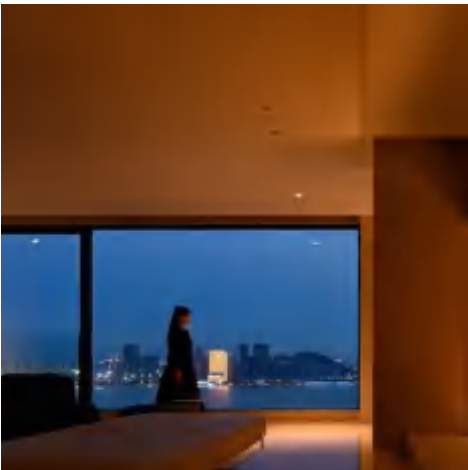
High efficiency Series-Constant Voltage COB

Product Features:

- 1、Complied with ANSI standard, LM-80 certified
- 2、CRI > 90
- 3、Light efficiency: 130lm/W(@3000K 90Ra)
- 4、Constant voltage input, automatic constant current, a single power supply to drive multiple sets of parallel lamps
- 5、SDCM <2, high light color consistency

Applications:

Widely used for hotel clubs, museums, clothing brand stores, chain supermarkets and high-end home lighting and other places



HD Series

Product Picture	Model Number	LES (mm)	Power (W)	TyP Current (mA)	Max Current (mA)	Voltage (V)	CCT (K)	CRI (Ra)	Efficiency (lm/W)	Lumen (lm)
	1201-HD	φ3.5	4	120	200	36	3000	≥90	92	397
							4000	≥90	96	414
							5700	≥90	96	414
	1202-HD	φ4.6	9	250	350	36	3000	≥90	92	828
							4000	≥90	96	864
							5700	≥90	96	864
	1204-HD	φ6	15	400	750	36	3000	≥90	105	1512
							4000	≥90	115	1656
							5700	≥90	115	1656
	1206-HD	φ8	25	700	1050	36	3000	≥90	110	2772
							4000	≥90	120	3024
							5700	≥90	120	3024
	1208-HD	φ9	30	800	1440	36	3000	≥90	110	3168
							4000	≥90	120	3456
							5700	≥90	120	3456

HC Series

Product Picture	Model Number	LES (mm)	Power (W)	TyP Voltage (V)	Max Voltage (V)	CCT (K)	CRI (Ra)	Efficiency (lm/W)	Lumen (lm)
	0704-7WHC	Φ6	7	24	27	2700	≥90	105	735
						3000	≥90	110	770
						4000	≥90	115	805
	0704-9WHC	Φ6	9	24	27	2700	≥90	100	900
						3000	≥90	105	945
						4000	≥90	110	990
	0707-HC	Φ9	12	24	27	2700	≥90	115	1380
						3000	≥90	120	1440
						4000	≥90	125	1500
	0708-HC	Φ9	15	24	27	2700	≥90	115	1725
						3000	≥90	120	1800
						4000	≥90	125	1875
	1506-HC	Φ15	18	48	54	2700	≥90	120	2160
						3000	≥90	125	2250
						4000	≥90	130	2340
	1508-HC	Φ15	24	48	54	2700	≥90	120	2880
						3000	≥90	125	3000
						4000	≥90	130	3120
	1510-HC	Φ15	30	48	54	2700	≥90	120	3600
						3000	≥90	125	3750
						4000	≥90	130	3900

Full spectrum Series

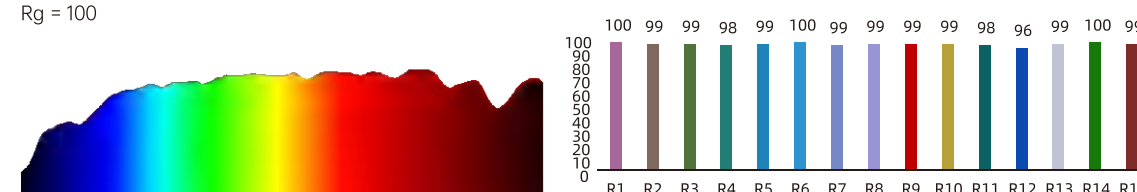
Standard/Ultimate Edition

Concept and Definition of Full Spectrum COB

- Excited by multi-wavelength blue LED chips, matching with phosphor, under the premise of completely no UV light, to simulate the full spectrum effect of halogen lamp, more fitting the solar spectrum;
- Achieve spectral saturation transition from blue light to yellow light, reducing the probability of green light spillover, more close to natural white light, good for a smoother full spectrum application;
- Supplementing for the lack of color performance from blue to green in traditional COB products can truly show the purity of the light color system represented by indigo blue and the natural purity of white.

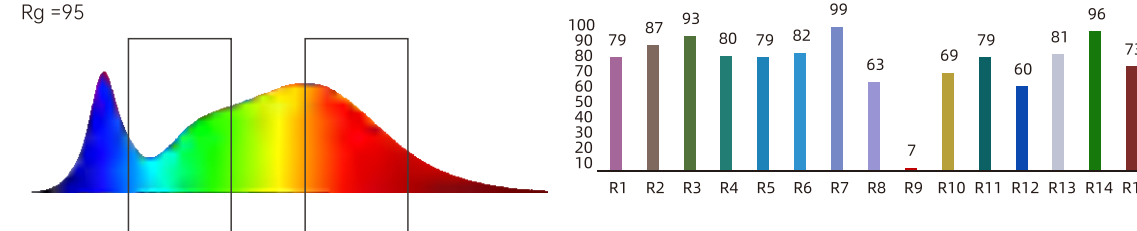
Sun

Rf = 100
Rg = 100



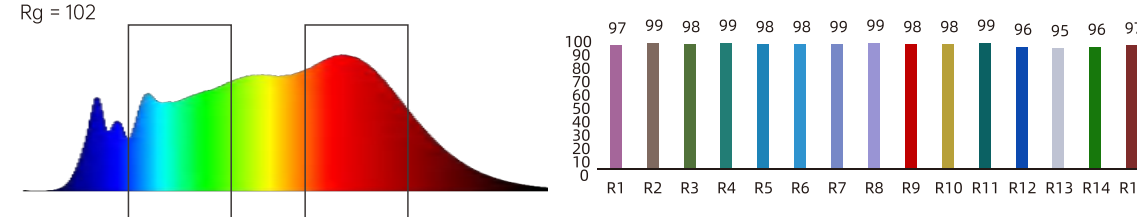
LED Standard LED

Rf = 81
Rg = 95



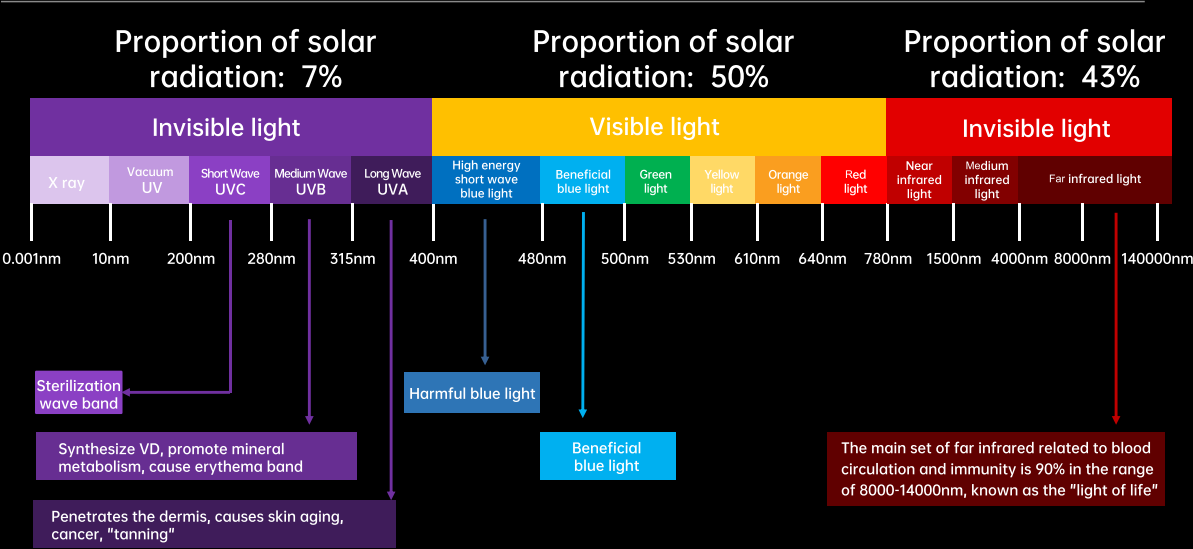
Full Spectrum COB

Rf = 96
Rg = 102



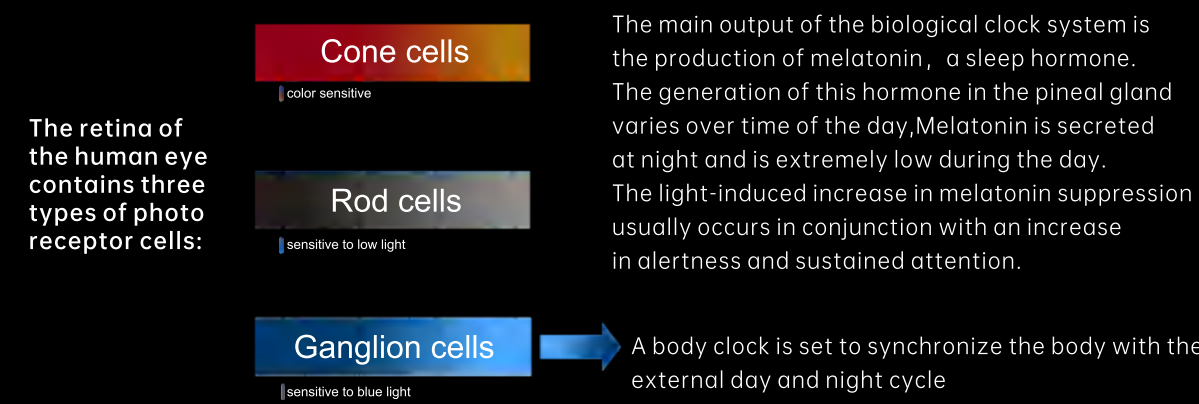
Human health

Wavelength classification



Light is an important factor for human health

Daylight is the most important "Giver of time" that controls human circadian rhythms. Light is an important factor for human health. The cold white wavelength in light will inhibit the secretion of melatonin.



All living creatures have an "internal clock" called a circadian rhythm, so using the right light at the right time can affect everything from a person's sleep to how we feel and perform. That's why human centric lighting (HCL) is beneficial for schools, healthcare facilities, offices and industrial buildings.

Full Spectrum COB-Standard Edition

Product Features:

- 1、LM-80 certified. Using simulated solar spectrum formula, the most advanced international color evaluation system standard.
- 2、CRI > 97
Rf:96
Rg:100
- 3、Light efficiency:105lm/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 Hotel, boutique museums, and high-end home lighting and other places



G4 Series

Product Picture	Model Number	LES (mm)	Power (W)	TyP Current (mA)	Max Current (mA)	Voltage (V)	CCT (K)	CRI (Ra)	Efficiency (lm/W)	Lumen (lm)
	1202-G4	Φ4	6	180	360	36	2700	97	95	570
							3000		100	600
							4000		105	630
	1203-G4	Φ6	9	270	540	36	2700	97	95	855
							3000		100	900
							4000		105	945
	1204-G4	Φ6	12	360	720	36	2700	97	95	1140
							3000		100	1200
							4000		105	1260
	1205-G4	Φ9	15	450	900	36	2700	97	95	1140
							3000		100	1200
							4000		105	1260
	1206-G4	Φ9	18	540	1080	36	2700	97	95	1425
							3000		100	1500
							4000		105	1575
	1208-G4	Φ15	24	720	1440	36	2700	97	100	1800
							3000		105	1890
							4000		110	1980
	1210-G4	Φ15	30	900	1800	36	2700	97	100	2400
							3000		105	2520
							4000		110	2640

Full spectrum COB- Ultimate Edition

Product Features:

- 1、 LM-80 certified. Using simulated solar spectrum formula, 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

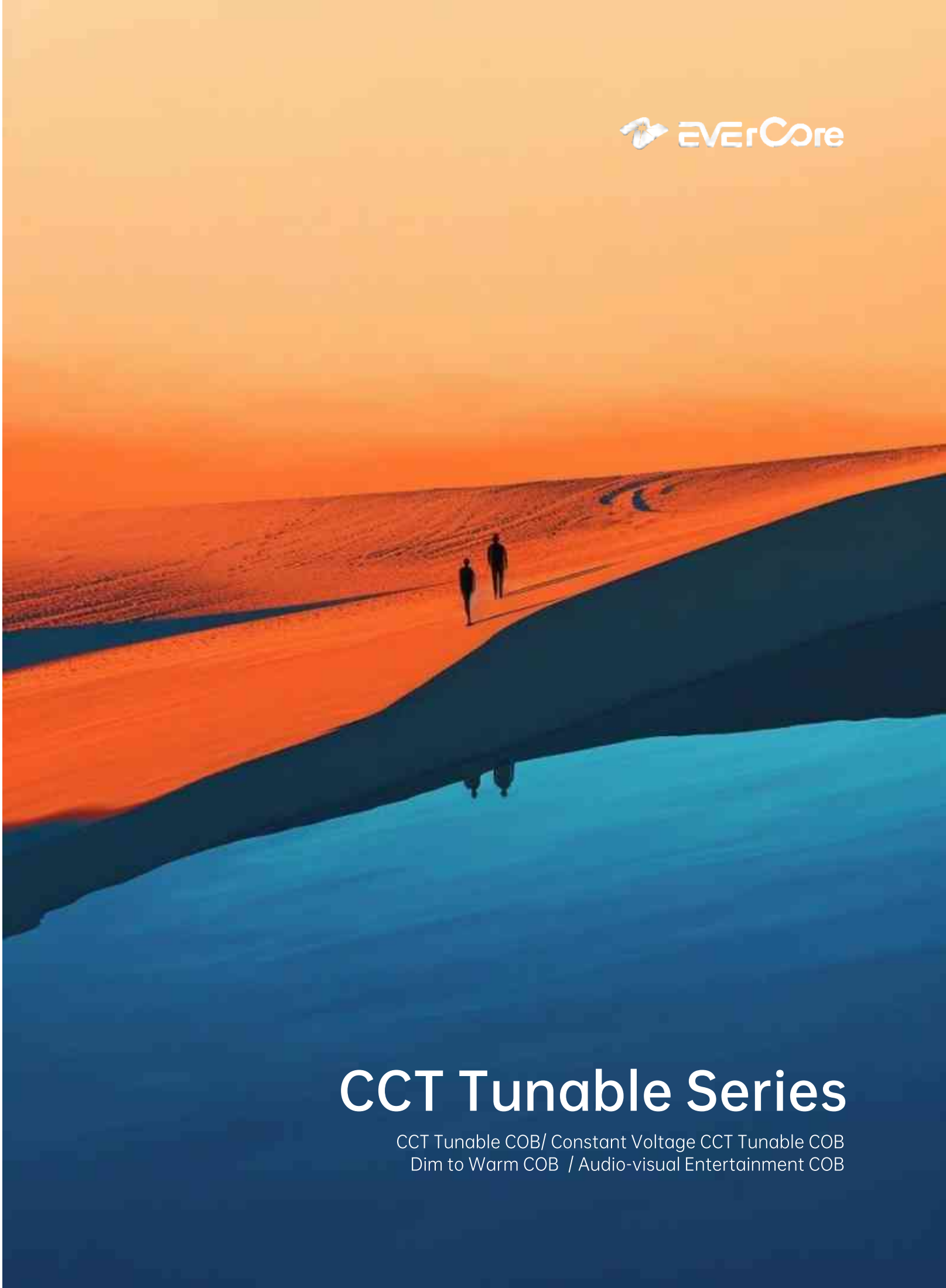
Applications:

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



SG4 Series

Product Picture	Model Number	LES (mm)	Power (W)	TyP Current (mA)	Max Current (mA)	Voltage (V)	CCT (K)	CRI (Ra)	Efficiency (lm/W)	Lumen (lm)
	1202-SG4	Φ6	6	180	460	36	2700	97	110	660
							3000		115	690
							4000		120	720
	1203-SG4	Φ9	9	270	690	36	2700	97	110	990
							3000		115	1035
							4000		120	1080
	1204-SG4	Φ9	12	360	920	36	2700	97	110	1320
							3000		115	1380
							4000		120	1440
	1206-SG4	Φ15	18	540	1380	36	2700	97	115	2070
							3000		120	2160
							4000		125	2250
	1208-SG4	Φ15	24	720	1840	36	2700	97	115	2760
							3000		120	2880
							4000		125	3000
	1210-SG4	Φ15	30	900	2300	36	2700	97	115	3450
							3000		120	3600
							4000		125	3750



CCT Tunable Series

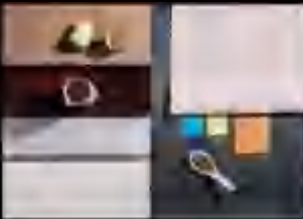
CCT Tunable COB/ Constant Voltage CCT Tunable COB
Dim to Warm COB / Audio-visual Entertainment COB

CCT Tunable Series

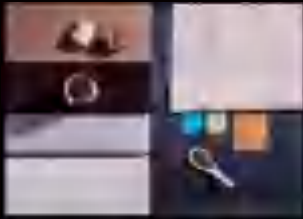
Color Temperature Application Comparison



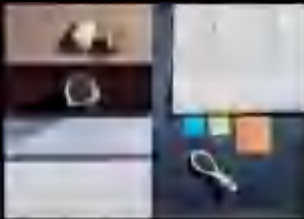
Different color temperatures have different visual effects on illuminated objects, since each display item varies in material and hue, it requires a matched color temperature to highlight its optimal visual presentation.



3000K



3500K



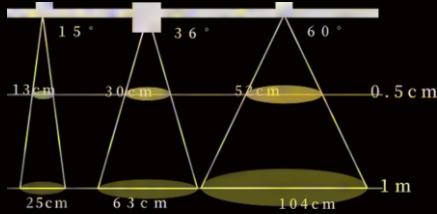
4000K

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



Task lighting Accent lighting Ambient lighting Task lighting Accent lighting Accent lighting Ambient lighting Accent lighting



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、CT 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 fitting into black body trajectory
- 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	Φ6	6	30-350	400	18	2200-4000	≥90	125
			6	30-350	400	18	1800-3000	≥90	110
	1203-DK	Φ9	10	30-300	350	36	2200-4000	≥90	120
			10	30-300	350	36	1800-3000	≥90	110
	1206-DK	Φ14	20	60-600	700	36	2200-4000	≥90	120
			20	60-600	700	36	1800-3000	≥90	110
	0607-SKK	Φ8.5	0.3	20	100	14	1800	≥90	105
			6	300	400	18	2700	≥90	110
			6	300	400	18	3000	≥90	115
			2.6	90	180	30	1800	≥90	90
	1205-FKK	Φ12	6	180	400	36	2700	≥90	140
			6	180	400	36	5000	≥90	150
	1209-FKK	Φ15	3	100	200	30	1800	≥90	90
			18	500	800	36	2700	≥90	130
			18	500	800	36	5000	≥90	140
			6	200	400	30	1800	≥90	75
	1214-FKK	Φ17.8	30	800	1200	36	2700	≥90	125
			30	800	1200	36	5000	≥90	135