



High efficiency Series

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

High efficiency Series-Standard Edition

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
	1202-Y	Φ6	7	200	400	36	≥90	120	561
	1203-Y	Φ9	12	350	600	36	≥80	142	1022
	1204-Y	Φ9	15	400	800	36	≥90	120	864
	1205-Y	Φ15	20	550	1000	36	≥80	145	1827
	1206-Y	Φ15	25	700	1200	36	≥90	123	1549
	1206-Y	Φ15	35	950	1600	36	≥80	145	2088
	1207-Y	Φ15	35	950	1600	36	≥90	123	1771
	1206-Y	Φ14	25	700	1200	36	≥80	150	2970
	1207-Y	Φ14	30	800	1400	36	≥90	130	2574
	1208-Y	Φ14	35	950	1600	36	≥80	150	3780
	1208-Y	Φ14	35	950	1600	36	≥90	129	3250
	1206-Y	Φ14	25	700	1200	36	≥80	150	5130
	1207-Y	Φ14	30	800	1400	36	≥90	128	4411
	1208-Y	Φ14	35	950	1600	36	≥80	150	3780
	1208-Y	Φ14	35	950	1600	36	≥90	128	3686
	1208-Y	Φ14	35	950	1600	36	≥80	150	5130
	1208-Y	Φ14	35	950	1600	36	≥90	127	4343

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

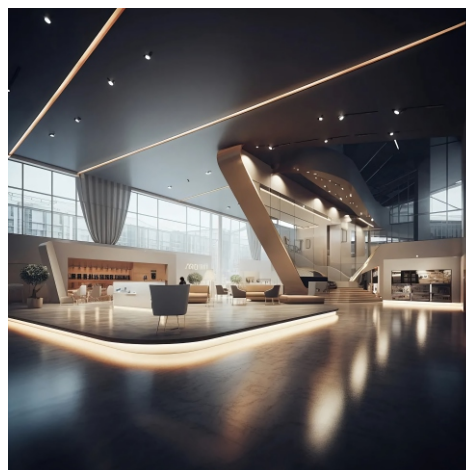
High efficiency Series-High Density COB

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



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

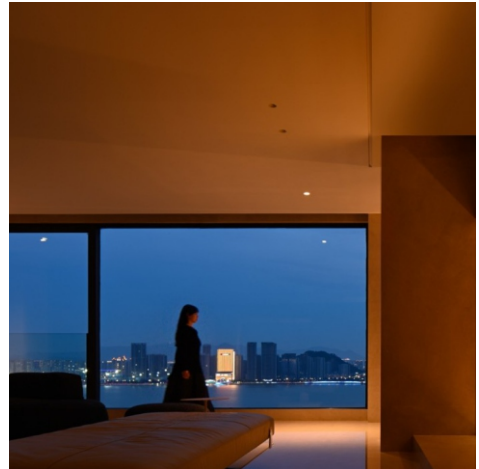
High efficiency Series-Constant Voltage COB

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



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

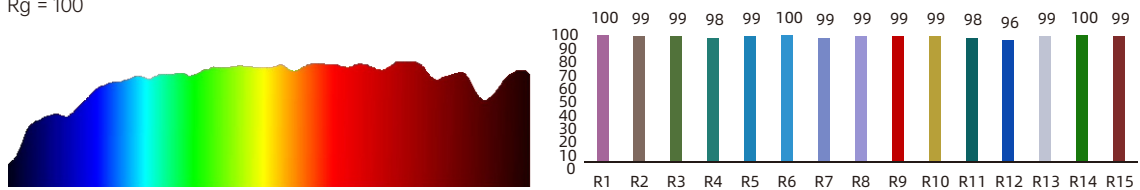
Standard/Ultimate Edition

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.

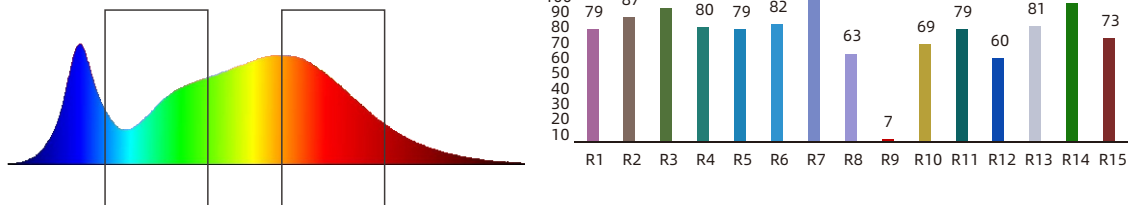
Sun

Rf = 100
Rg = 100



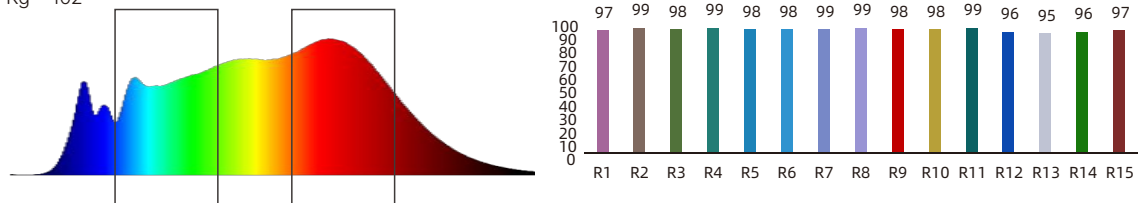
LED Standard LED

Rf = 81
Rg = 95



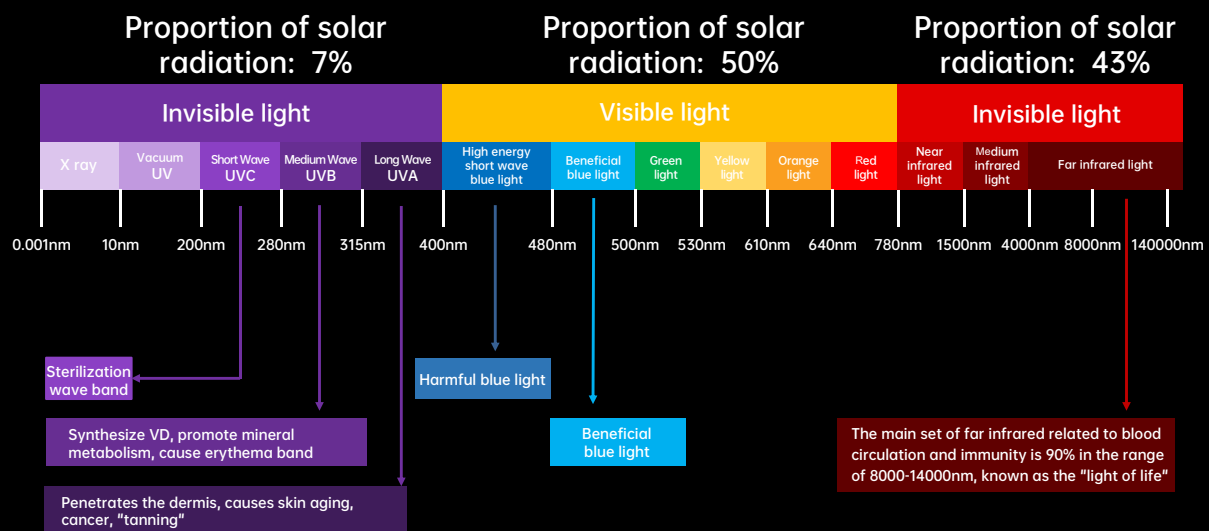
Evercore Full Spectrum COB

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.

The retina of the human eye contains three types of photo receptor cells:

Cone cells

color sensitive

Rod cells

sensitive to low light

Ganglion cells

sensitive to blue light



The main output of the biological clock system is the production of melatonin, a sleep hormone. The generation of this hormone in the pineal gland varies over time of the day. Melatonin is secreted at night and is extremely low during the day. The light-induced increase in melatonin suppression usually occurs in conjunction with an increase in alertness and sustained attention.

A body clock is set to synchronize the body with the external day and night cycle

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 hotels, 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, 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



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