

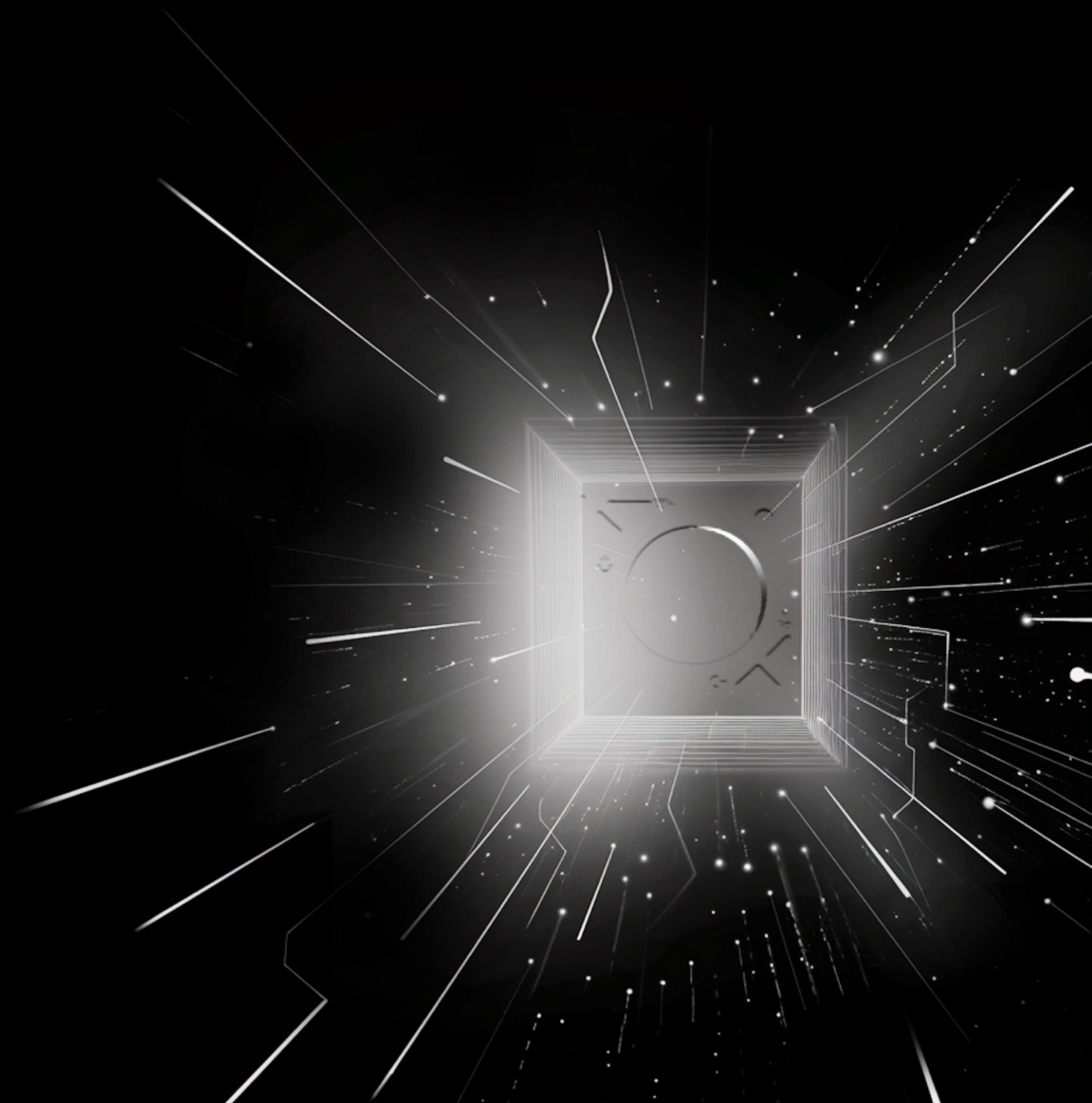


Foshan Evercore Optoelectronic Technology Co., Ltd.

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www.led-cob.com
www.evercorecob.com



Light · Inspiring Innovation.....

Single Color COB

High Efficiency Series
Standard Edition



LES:4.6mm
Size: 13.5*13.5mm



LES:6mm
Size: 13.5*13.5mm



LES:9mm
Size: 13.5*13.5mm



LES:12mm
Size:17.85*17.85mm



LES:15mm
Size:19*19mm

High Efficiency Series
Ultimate Edition



LES:4.6mm
Size: 13.5*13.5mm



LES:6mm
Size: 13.5*13.5mm



LES:9mm
Size: 13.5*13.5mm



LES:12mm
Size:17.85*17.85mm



LES:15mm
Size:19*19mm

High Efficiency Series
Constant Voltage



LES:6.7mm
Size: 13.35*13.35mm



LES:9.5mm
Size: 15.8*15.8mm



LES:15.1mm
Size:19*19mm



LES:15.1mm
Size:19*19mm

High Efficiency Series
High Density



LES:3.5mm
Size: 11*11mm



LES:4.6mm
Size: 13.5*13.5mm



LES:6mm
Size: 13.5*13.5mm



LES:8mm
Size:17.85*17.85mm



LES:9mm
Size: 15.85*15.85mm

Full Spectrum Series
Standard Edition



LES:4.6mm
Size: 13.5*13.5mm



LES:6mm
Size: 13.5*13.5mm



LES:9mm
Size: 13.5*13.5mm



LES:12mm
Size:17.85*17.85mm



LES:15mm
Size:19*19mm

Full Spectrum Series
Ultimate Edition



LES:4.6mm
Size: 13.5*13.5mm



LES:6mm
Size: 13.5*13.5mm



LES:9mm
Size: 13.5*13.5mm



LES:12mm
Size:17.85*17.85mm



LES:15mm
Size:19*19mm

Single Color SMD

High-power Ceramic
SMD Series
3535



LES:2.85mm
Size:3.45*3.45mm



LES:2.85mm
Size:3.45*3.45mm



LES:2.85mm
Size:3.45*3.45mm

High-power Ceramic
SMD Series
4040/5050



LES:1.0*1.0mm
Size:4.0*3.7mm



LES:1.0*1.0mm
Size:4.95*4.95mm

Multiple color COB

CCT Tunable Series

CCT Tunable COB Series



LES:3.8mm
Size:13.5*13.5mm



LES:6.5mm
Size: 13.5*13.5mm



LES:9.5mm
Size:15.85*15.85mm



LES:12mm
Size:17.85*17.85mm



LES:15mm
Size:19*19mm



LES:6.6mm
Size:13.5*13.5mm



LES:12.8mm
Size: 17.85*17.85mm



LES:15mm
Size:19*19mm



LES:22mm
Size:28*28mm



LES:59.5mm
Size:70*70mm

CCT Tunable Series
Constant Voltage COB



LES:6.3mm
Size: 13.35*13.35mm



LES:8.8mm
Size: 15.8*15.8mm



LES:12.1mm
Size:17.85*17.85mm



LES:15.6mm
Size:19*19mm

CCT Tunable Series
Dim to Warm COB



LES:6mm
Size:13.5*13.5mm



LES:8.5mm
Size:15.85*15.85mm



LES:9mm
Size: 13.5*13.5mm



LES:12mm
Size:19*19mm



LES:14mm
Size:19*19mm

RGBCW Series
COB



LES:9.8mm
Size:16*16mm



LES:12.5mm
Size:18*18mm



LES:15.0mm
Size:19*19mm



LES:18.0mm
Size:23*23mm

RGBCW Series
Module



LES:11.3mm
Size:19*30mm



LES:14.5mm
Size:19*30mm



LES:12mm
Size: 65.6*71.6mm

Multiple color SMD

High-power Ceramic
SMD Series
3535/5060



LES:2.85mm
Size: 3.45*3.45mm



LES:2.85mm
Size: 3.45*3.45mm



LES:2.0*2.0mm
Size: 4.8*5.8mm



LES:2.0*2.0mm
Size:4.8*5.8mm

High-power Ceramic
SMD Series
5050



LES:4.5mm
Size: 4.95*4.95mm



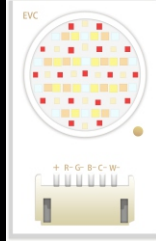
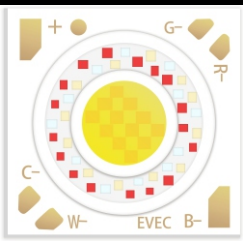
Company Profile

Company Name: Foshan Evercore Optoelectronic Technology Co, Ltd.
Headquarters: Foshan, Guangdong Province
Production Base: Longyan, Fujian Province
R & D platform: Evercore & Sun Yat-sen University Chip and photoelectric integration joint laboratory

Established: **2010** Registered capital: **11,000,000** Patents: **100+**

Market Focus

Product focus: Photoelectric integrated module COB
Market area: Commercial Lighting & Special Lighting



Patent Overview

Multiple Structure LED Chips
Integrated Packaging technology patent

Multiple wavelengths Full spectrum
COB Packaging technology patent

LED Integrated Light Source
Modular Technology patent

Thermal isolation phosphor
coating technology patent

Light source module
technology patent

CSC Chip-Scale phosphor
coating technology



Quality System

ISO9001:201 Quality Management System
IES LM-80 Certification
EN62471 Certification



2010

Evercore Founded
Focused on
the commercial lighting COB market
The 1st one to invent White LED color matching
and lighting mixing System

2014

Awarded as
"The national High-tech Enterprise"

2019

Awarded as
"Specialization, refinement, novelty,
and innovation" Enterprise

2021

Awarded as the
"Guangdong Province Intellectual
Property Demonstration Enterprise"
European invention patent of
RGBCW COB authorized

2024

The Second Prize of
Hebei Provincial Science
and Technology Progress Award
The Second Prize of
Guangdong Provincial Science
and Technology Progress Award

2012

Set up the Joint Laboratory of Chip
and Optoelectronic Integration
with Sun Yat-sen University.

2016

The 1st in China to have a patent
for the full-spectrum technology

2020

Fujian Intelligent Production
Base Completed
The world's 1st intelligent
RGBCW COB launched

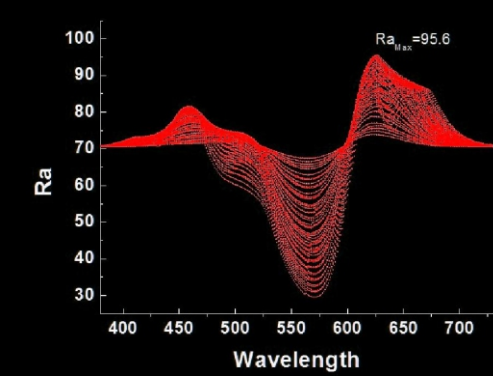
2022

Cooperated with
Jilin University for HCL R&D
The Top Prize in the
National Disruptive Innovation
Competition

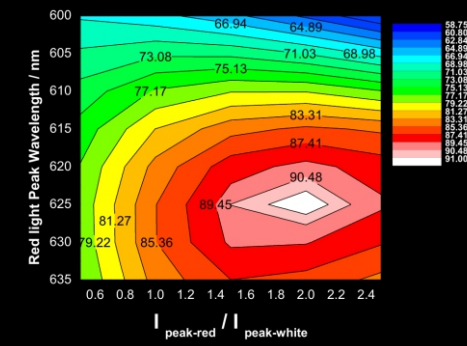
Focus·Deposit·Innovation

Core technologies

LED light and color mixing software system



More than 90,000 spectral configurations can be simulated, enabling mass manufacturing of unique spectral customization to satisfy the saturation and fidelity application of specific and targeted objects and space scenes.



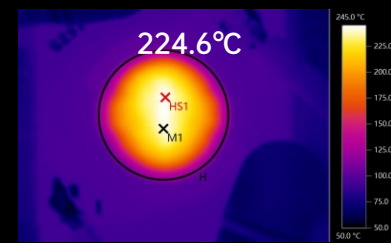
Simulate the white light effect after mixing according to the parameters of blue chip and phosphor, greatly reducing the sample customization cycle, while solving the problem of light color difference between different materials.

Thermal isolation phosphor coating technology

Conventional COB process



When the COB light source is working, both the phosphor and the silica gel will absorb a part of the blue light and convert it into heat. In addition, the heat capacity and thermal conductivity of the silica gel are relatively low, resulting in a sharp rise in the temperature of the fluorescent glue.



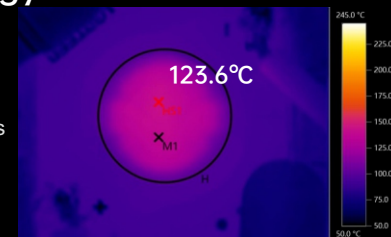
50% ↓

Heat dissipation performance can be improved

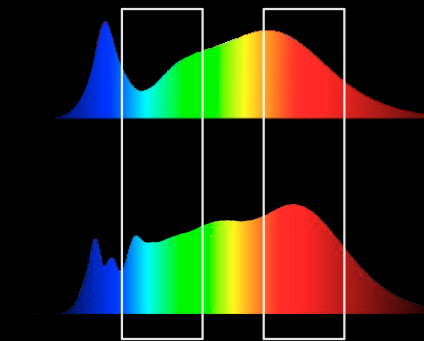
Thermal isolation phosphor coating technology



Adopting the centrifugal sedimentation method to reduce the thickness of the phosphor layer in the fluorescent glue, effectively solving the heat dissipation problem of the phosphor. The heat dissipation performance can be improved by 50%. Meanwhile, compared with the natural sedimentation process, it can save five times the time.



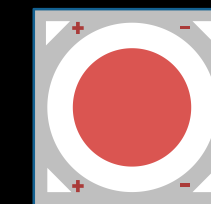
Full spectrum technology



- Excited by multiple- wavelengths blue LED chip, matched with phosphor, under the premise of completely no UV light, to simulate the full spectrum of halogen lamp effect, more fitting the solar spectrum.
- It makes up for the lack of color performance from blue to green in traditional COB products, and can truly show the purity of the light color system represented by indigo blue and the natural purity of white.
- Supplementing the 650nm long red light and 480nm long blue light band can promote the secretion of dopamine in the retina in the field of human health, which promote the improvement of scleral elasticity, and inhibit the abnormal growth of the eye axis.

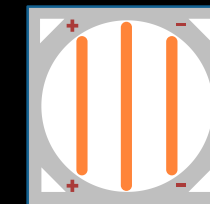
CSC chip-level phosphor coating technology

Take into account the three-dimensional balance of light effect, light spot and power density and massproduction of process technology



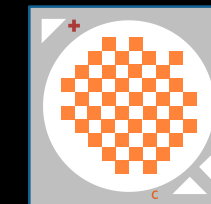
Circular chip Array

Bad light spot effect, eliminated from the market.



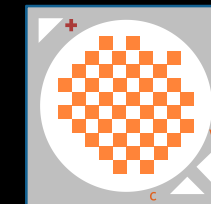
Strip chip Array

High efficiency but with average light spot effect , lower power density.



Flip chip Mosaic Array

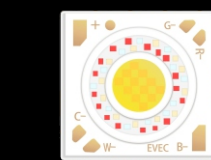
Lower efficiency but with good light spot effect and higher power density.



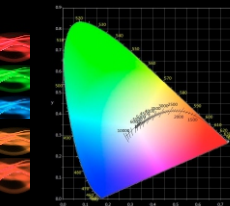
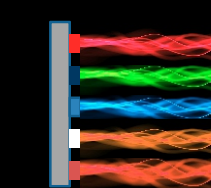
Wire bond Mosaic Array

Higher efficiency with good light spot effect and higher power density.

Multi-color chip integration & light mixing technology



- Representing the highest level of integration technology in the COB industry
- It adopts multiple types of chips with hybrid integration processes
- Including wire bonding and flip-chip bonding technology



- With proprietary R&D, it incorporates a multi-channel mixed-light fitting algorithm
- Precisely output RGBCW current for each channel based on customers color requirements
- Achieving full-color gamut dimming and color tuning

Application focus

General Lighting



High-end commercial lighting



Commercial supermarket lighting



High-end store lighting



IOT human centric lighting

Special lighting



Automotive lighting



Portable lighting



Plant lighting



Marine lighting

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Luminous FluX

Definition: The sum of the amount of light emitted by a luminous body per second.

Unit: Lumen(lm)

Symbol: Φ

Luminous efficiency

Definition: The amount of light that a light source can emit per watt of electrical energy consumed

Unit:lumen per watt (lm/w)

Remark: The luminous efficacy of a

lighting system is usually lower than that of the light source.

$$\text{Efficiency} = \frac{\text{Luminous flux}}{\text{Power}}$$

Luminous intensity

Definition: The luminous flux emitted within a unit solid angle in a specific direction by a luminous body.

Unit: candela (cd)

Symbol :I

$$\text{Candela} = \frac{\text{Luminous flux}}{\text{Unit solid angle}}$$

Illuminance

Definition: The luminous flux of the luminous body irradiating on the unit area of the illuminated object.

Unit: lux

Symbol:E

$$\text{Lux} = \frac{\text{Lumen} * \text{Design coefficient}}{\text{Area}}$$

luminance

Definition: The ratio of the luminous intensity of a light source in a certain direction to the area "seen" by the human eye.

Unit: candela per square meter (cd/m²)

Symbol: L

Contrast

Definition: The ratio of the luminance difference between the target and the background in the field of vision to the background luminance.

Symbol :C

Color temperature

Definition: Heating a standard black body, when the temperature rises to a certain level, its color begins to change gradually from deep red, to light red, to orange-yellow, to white, and then to blue. Utilize the characteristic of this change in light color, which is the absolute temperature of the black body at that time.

Unit: Kelvin scale (K)

Symbol :TC

Glare

Definition: A visual phenomenon in which an uncomfortable feeling is caused or the ability to observe bright parts or targets is reduced due to the inappropriate distribution or range of brightness in the field of vision, or the existence of extreme contrasts.

Unified Glare Rating

Definition: Psychometric measurement used by the International Commission on illumination (CIE) to measure the subjective response of discomfort caused to the human eye by the light emitted from lighting fixtures in an indoor visual environment.

Glare Index	Glare Standard Classification
10	Barely perceptible glare
16	Acceptable glare
19	Glare threshold
22	Discomfort glare
28	Unbearable glare