Foshan Evercore Optoelectronic Technology Co., Ltd.

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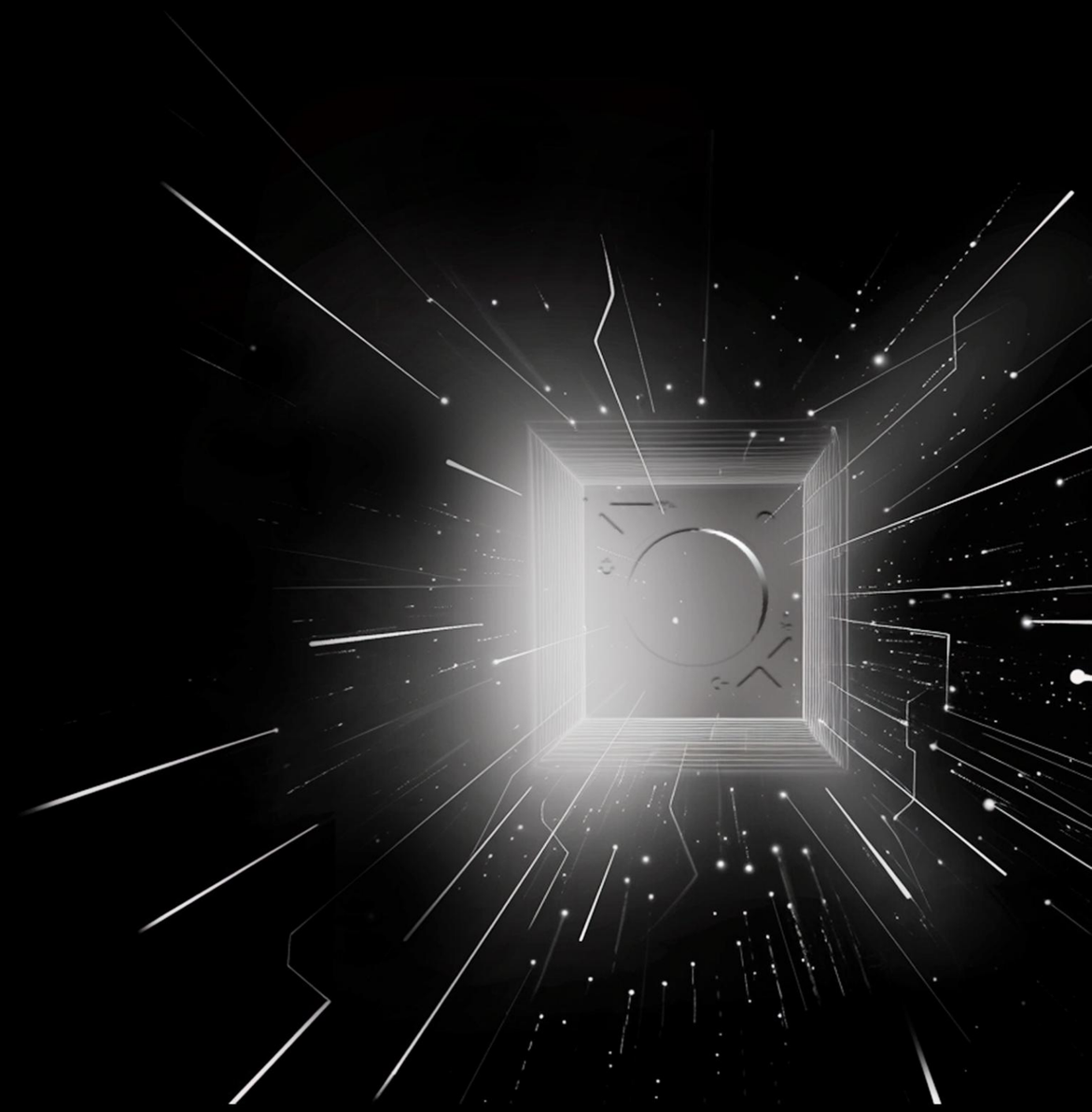
www.led-cob.com
www.evercorecob.com



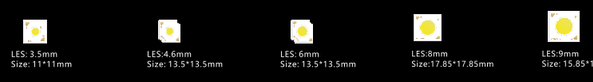
Single Color COB

High Efficiency Series
Standard Edition

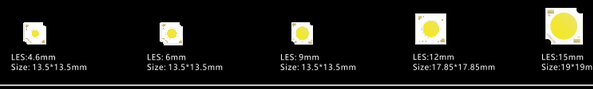
High Efficiency Series
Ultimate Edition

High Efficiency Series
Constant Voltage

High Efficiency Series
High Density



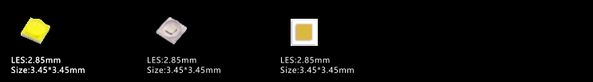
Full Spectrum Series
Standard Edition



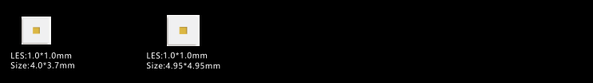
Full Spectrum Series
Ultimate Edition

Single Color SMD

High-power Ceremic SMD Series
3535



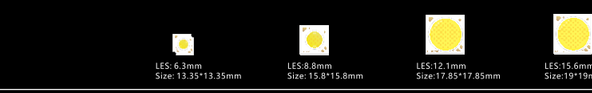
High-power Ceremic SMD Series
4040/5050



Multiple color COB

CCT Tunable Series
CCT Tunable COB Series

CCT Tunable Series
Constant Voltage COB



CCT Tunable Series
Dim to Warm COB

RGBCW Series
COB

RGBCW Series
Module

Multiple color SMD

High-power Ceremic SMD Series
3535/5060

High-power Ceremic SMD Series
5050

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

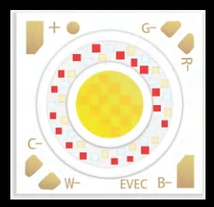
Established:
2010

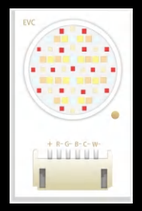
Registered capital:
11,000,000

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
coatingtechnology 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

Company History

2010
Evercore Founded
Focused on
the commercial lighting COB market
The 1st one to invent White LED color matching
and lighting mixing System

2012
Set up the Joint Laboratory of Chip
and Optoelectronic Integration
with Sun Yat-sen University.

2014
Awarded as
“The national High-tech Enterprise”

2016
The 1st in China to have a patent
for the full-spectrum technology

2019
Awarded as
"Specialization, refinement, novelty,
and innovation" Enterprise

2020
Fujian Intelligent Production
Base Completed
The world's 1st intelligent
RGBCW COB lauched

2021
Awarded as the
“Guangdong Province Intellectual
Property Demonstration Enterprise”
European invention patent of
RGBCW COB authorized

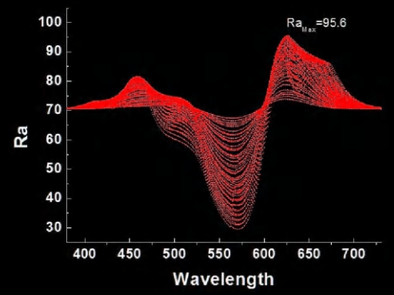
2022
Cooperated with
Jilin University for HCL R&D
The Top Prize in the
National Disruptive Innovation
Competition

2024
The Second Prize of
Hebei Provincial Science
and Technology Progress Award
The Second Prize of
Guangdong Provincial Science
and Technology Progress Award

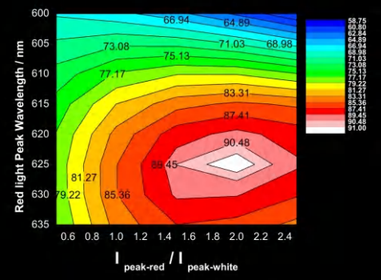
Focus · Deposit · Innovation

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.

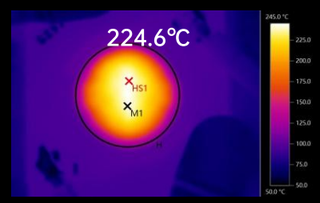


Simulate the white light effect after mixing according to the parameters of blue chip and phosphor, greatly reducing the sample customization cycle, while solving the problem of light color difference between different materials.

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.

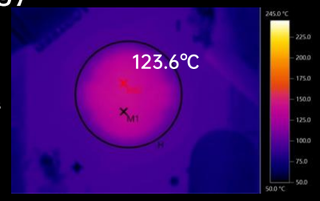


50%

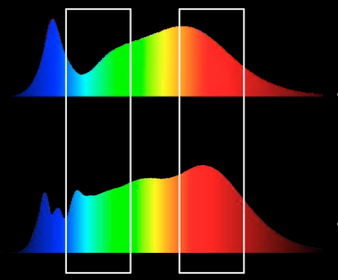
Heat dissipation performance can be improved

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.



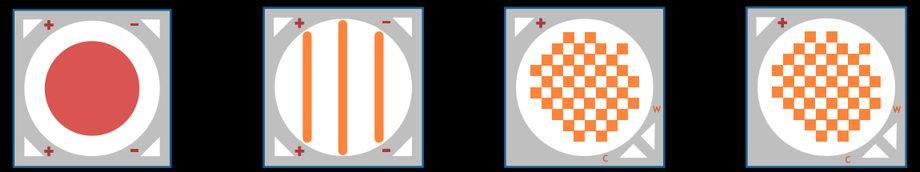
Full spectrum technology



- 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

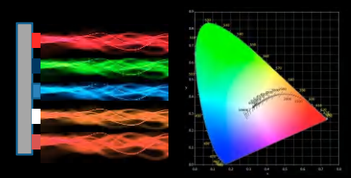
Lower efficiency but with good light spot effect and higher power density.

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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