

Lighting Design Manufacturing Service



Edison Opto Corporation

COMPANY PROFILE

2024

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Outline

Company Overview

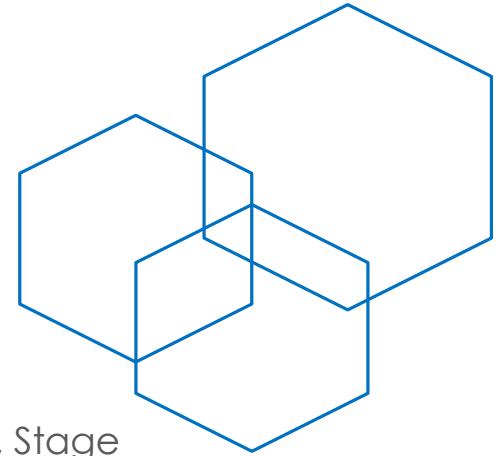
- Location, Production, Milestone

Products Series

- General Lighting
- Special Lighting—Horticulture, Automotive, Human Centric, Stage

R&D Facilities and Safety Testing Laboratory

LDMS – Total Solution



Company Overview

Edison Opto was established by Mr. Jason Wu, the chairman as well as the founder, at New Taipei City of Taiwan in 2001. For its innovated technology strength, Edison Opto provides comprehensive LED and solid-state lighting products from LED Component, Light Module, UV / IR LED, LED sensing, Horticulture and Automotive Lighting.

With a view to improve R&D process, Edison Opto develops the vertical platform on **TEMO** (Thermal · Electrical · Mechanical · Optical) to ensure the quality of products and services. Furthermore, Edison Opto creates **LDMS** (Lighting Design Manufacturing Service) from light source to luminaire manufacturing, to serve our customers a quality experience of customized solutions.

Establish | 2001

Chairman | Mr. Jason Wu

Paid-In Capital | 47 Mil. USD

Employee | 800 people

- **5.5 Mil. USD R&D** investment
- International **Patent 41** listed



Company Location



Edison U.S.A

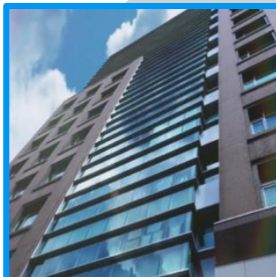


Dong Guan Factory

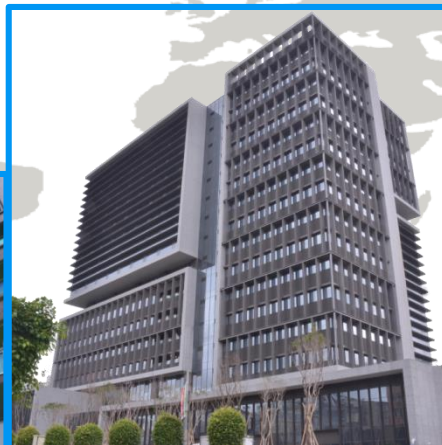


Edison-Litek

Yangzhou Factory



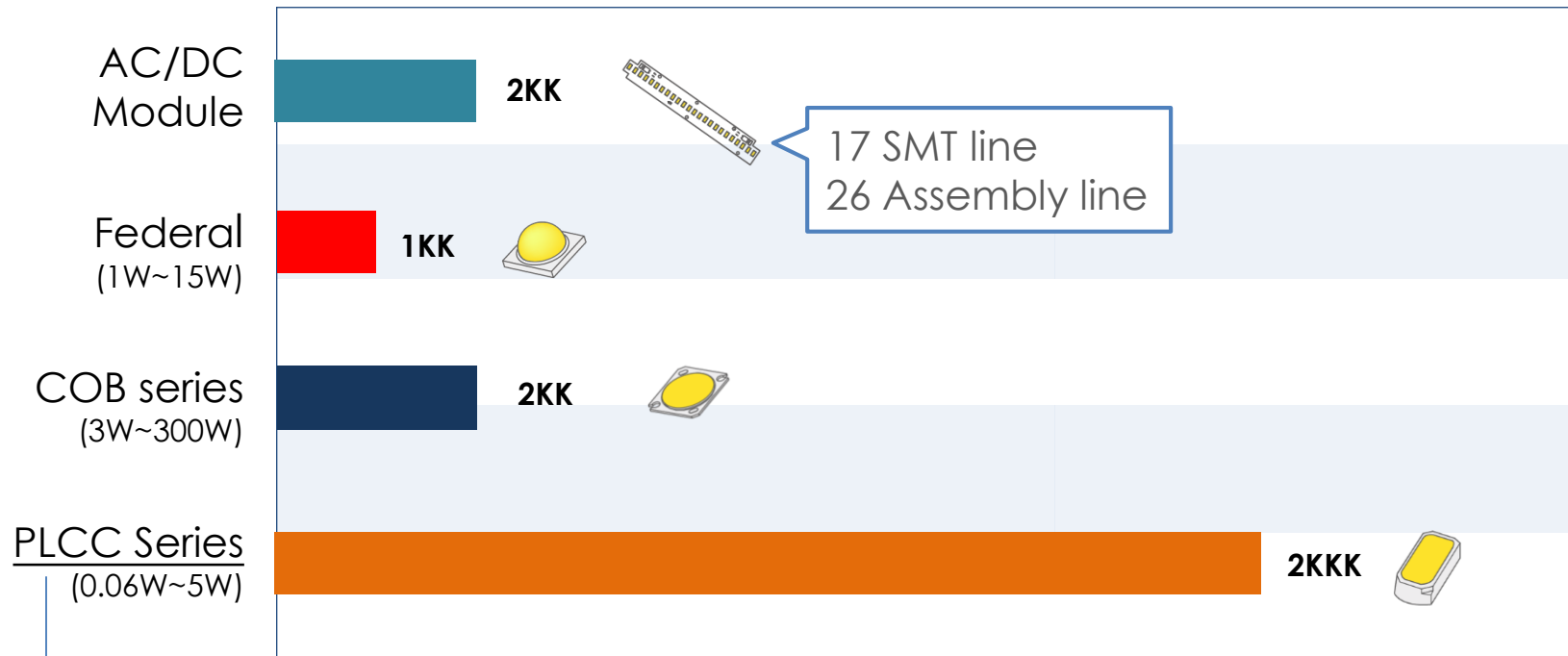
Taipei Factory



Taipei Headquarter

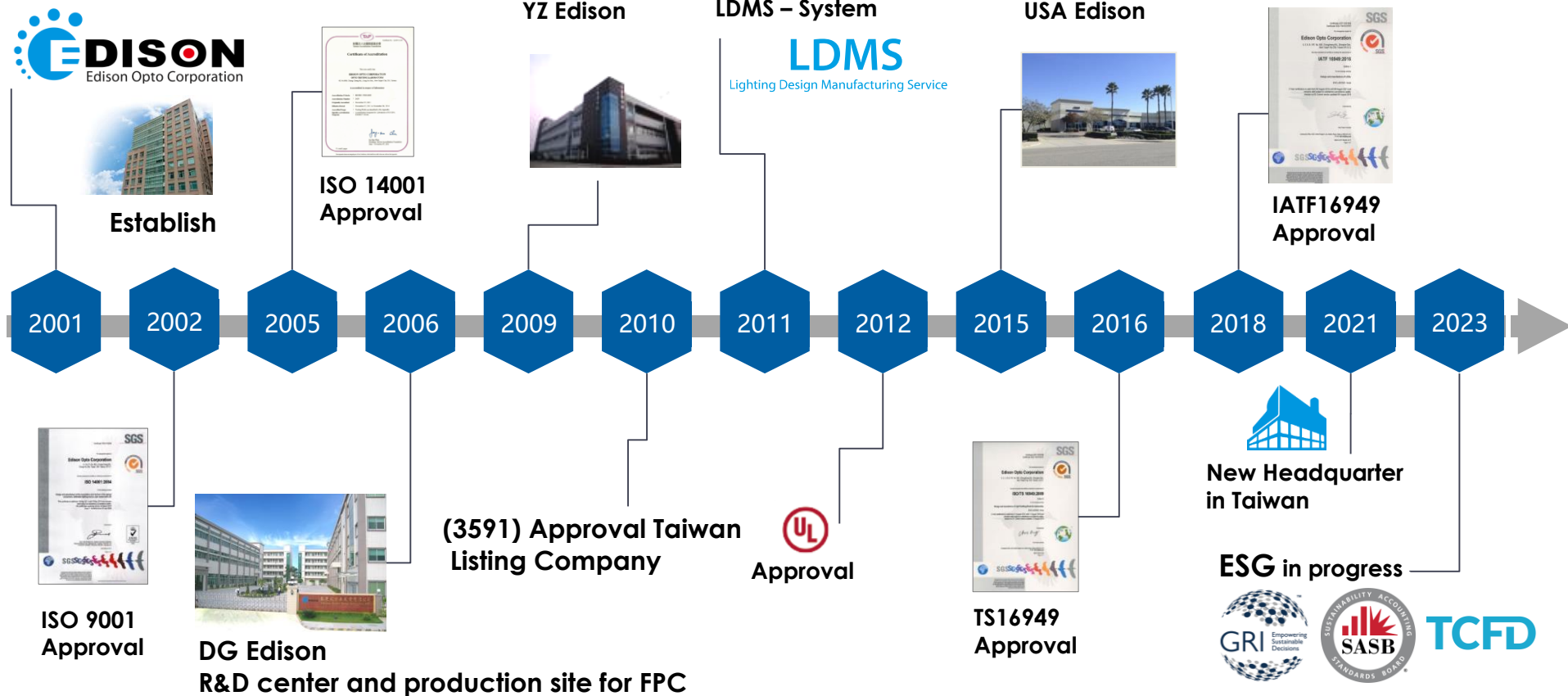
Production Capacity

Components / Modules - Monthly Production Capacity



Note: including 30kkpcs Automotive PLCC

Company Milestone



Company Overview

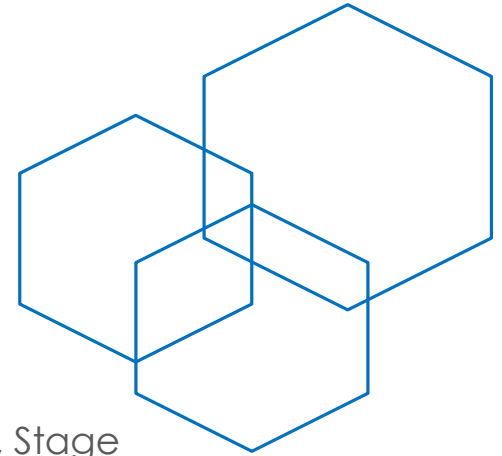
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Main Products List



General Lighting

- **LED Component**
PLCC
High power
COB
- **AC/DC modules**
SMD
DOB
- **Strips (FPC)**



Automotive

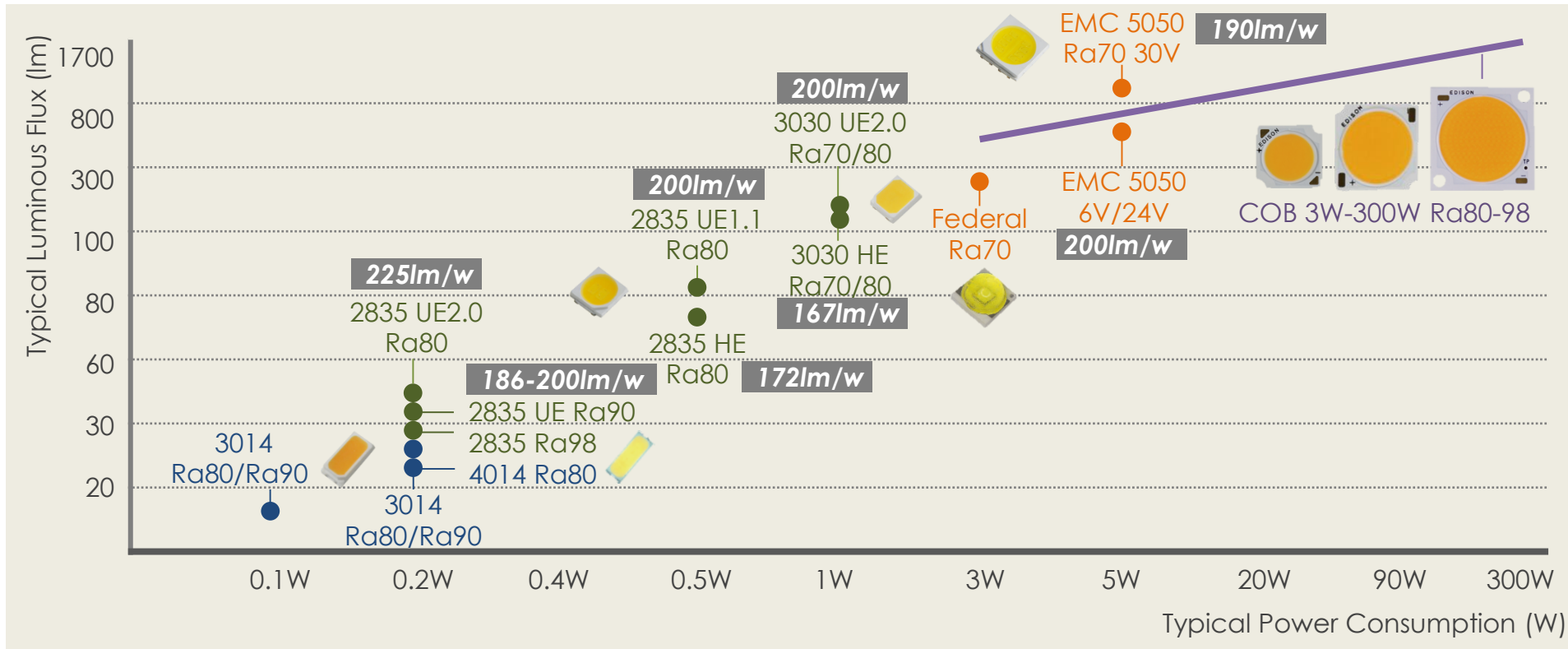
- **LED**
High power , Flip chip
- **Modules**
- **Strips (FPC)**



Professional Lighting

- **Horticulture**
- **Semiconductor**
- **Medical**
- **Human Centric**
- **Stage & Filming**

Main Products—General Lighting (component)



- Low Power LEDs
- Mid Power LEDs
- High Power LEDs
- COB LEDs

Single Color LEDs



- 3014 0.1W Pink/PC Amber
- 2835 0.2W R/G/B/Pink
- Federal 3W UV/IR
- Federal 3W R/G/B/PC Amber

Multi-Color LEDs



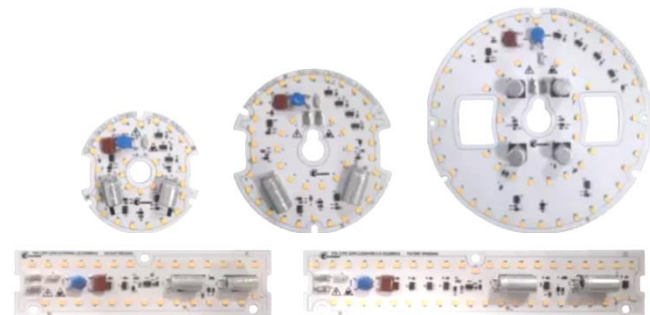
- 2835 2in1 WW, NW, CW
- 3528 3in1 RGB (Reverse type)
- 5050 3in1 RGB
- 5050 4in1 RGBW

Main Products—General Lighting (module)

AC / DC Module

Circular/Linear/ Ring

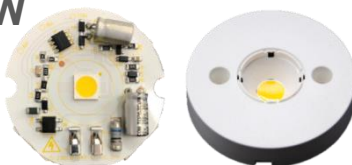
- Flicker Free(<5%)
- High Power Factor >0.98
- High Efficacy
 - DC: 225lm/w
 - AC: 170lm/w



DOB

Φ34/Φ38/Φ47/Φ57/Φ65/Φ50 DTW

- **Flicker: 5% (even during dim.)**
- PF>0.9
- 4W-40W
- OTP function=circuit protection
- 2700K/3000K/4000K/1800-2700K



Strips

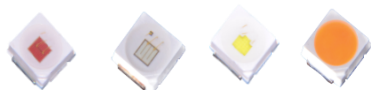
FPC 2110/2216/3014/2835/5050

- IP Level: IP20 - IP68
- 60D/70D/80D/120D/140D/240D/350D/700D
- Ra80/Ra90/Full Spectrum
- Single color/Dimming/RGB/RGBW



Main Products—Automotive Lighting (1)

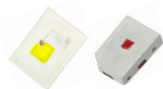
PLCC Series—Exterior/Interior 0.06W-1W (max.3W)



EMC 3030

Watt: 1W-3W

DRL, Turn Signal, Warning Light



EMC 2720

Watt: 0.2W-1W

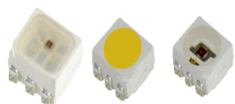
DRL, Turn Signal, Warning Light



PLCC 3528

Watt: 0.06W-0.5W

Turn Signal, Warning Light, Reading Light
Ambient Light, Dashboard



PLCC 3433

Watt: 0.2W-0.5W

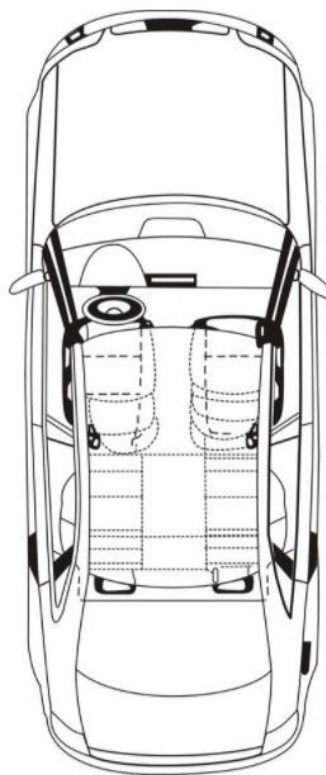
DRL, Turn Signal, Ambient Light, Dashboard



PLCC 2214

Watt: 0.06W

Ambient Light, Dashboard



Dong Feng Series—Exterior Lamp 3W-25W (max.40W)

CA2016/L(1D)



Watt: 3W-5W

DRL, Fog Lamp, Turn Signal

Single Row

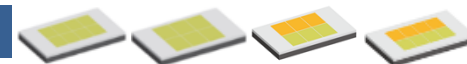


Watt: 7W-16W

Type: 2C, 3C, 4C, 5C

DRL, Fog Lamp, High/Low Beam

Double Row



Single Color

- Type: 6C, 8C (18-25W)

Dual Color

- Type: 2CD, 6CD, 8CD (3W-13W)

Fog Lamp, High Beam, Bi Beam

Main Products—Automotive Lighting (3)

Quality Guarantee

Total 28 testing items, main 6 items—

✓ MSL

- ① 85°C/85%RH—168hrs
- ② Reflow 3 times

✓ WHTOL

- ① 1,000hrs, 85°C/85%RH
- ② Max./Min. Current

✓ HTOL

- ① 1,000 times
- ② $T_j = 125^\circ\text{C}$ @Max. Current

✓ TC

- ① $-40^\circ\text{C} \sim 125^\circ\text{C}$, 1,000 cycles

✓ PTC

- ① 1,000 cycles, $-40^\circ\text{C} \sim 125^\circ\text{C}$
- ② 5min on/5min off

✓ H₂S

- ① 336hrs, 40°C/90%RH,
- ② H₂S 15ppm

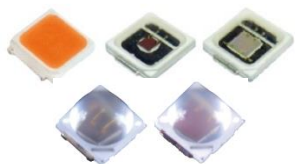


Guangzhou GRG Metrology & Test Co., LTD.		
GRGTEST		
AEC-Q102 TEST VERIFICATION OF CONFORMITY		
Company:	Yangzhou Edison Opto Corporation	
Address:	No.101, West Huayang Road, Yangzhou City, Jiangsu Province, China	
Name of Product:	LED	
Sample Type:	3433 Single Color Ep (H)	
Receiving Date:	2018/7/20	
Testing Period:	2018/8/1-2018/12/15	
Report No.:	R201806220062-01EN	
We Herewith declare That:		
The 3433 Single Color Ep (H) LED of Yangzhou Edison Opto Corporation has successfully completed 26 items test requirements per AEC-Q102-Rev (March 15, 2017).		
Prepared/Date:	Check/Date:	Approved/Date:
Min Jinyang Engineer	Li Rugao Manager	Lu Xudong Director
Note:		
1. For details of test data, refer to the test report (R201806220062-01EN).		
2. This declaration will be invalid if reproduced in part or altered in any way.		

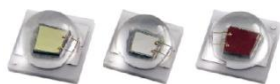
Main Products—Professional Lighting (1)

Horticulture Lighting

EMC 3030



Federal 3535



PLCC 2835



Stage Lighting

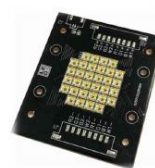
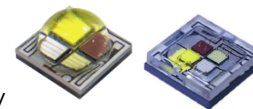
3535

R/ G/ B/ W/
Amber/UV/ CW/ WW



5050 4in1

4CW/ 4WW/ 4B/
RTTB/ RTBW/ RTBX(WW)



32in1 module

= High power Module +
Customized Optic

Main Products—Professional Lighting (2)

Human Centric



2835/3030/5050

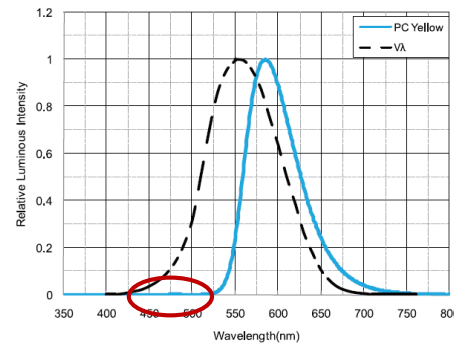
- 0.5W-5W
- 6V
- 3000K (CAF: 0.31-0.37)
- 5700K (CAF: 0.79-0.93)

Semiconductor



2835

- 0.2W-1W
- 3V/6V
- PC Yellow

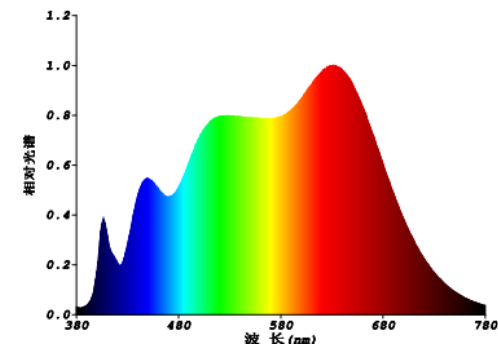


Medical Facilities



2835 Full Spectrum

- 0.2W
- 3V
- 4000K
- COI=0.65



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Equipment



High Temperature
Tester

10°C-300°C



Low Temperature
Storage Chamber

-55°C-150°C



Constant Temp.
& Humi. Chamber

-40°C-150°C
10%RH-98%RH



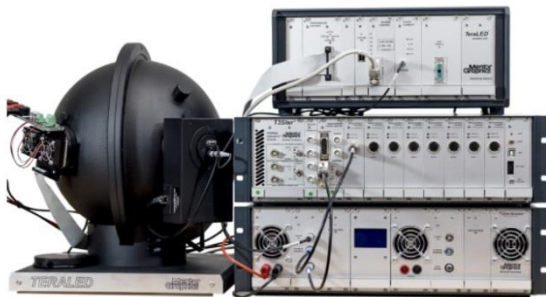
Thermal Shock
Test Machine

-60°C-150°C
-55°C-0°C



Automatic Direct Eutectic
Die Attach System

Hot-Pressed
Eutectic Production



Thermal Transient Tester
(T3Ster)

Package Thermal
Characterization Analysis



Integrating-Sphere Photometer

CAS140CT/ CAS120/ HASS2000
Diameter: 100cm/ 50cm/ 25cm
Wavelength: 220-1020nm



Scanning Electron
Microscope

150k times magnification
Element Analysis

Management System

Certifications



iMES Process Flow

Map

- Map Physical Process
- Map Business Process



Control

- Real-time Visibility
- Online Analytics
- Process Control



Optimize

- Optimization
- Simulation
- Virtual & Augmented Reality



Excel

- Big Data Analytics
- Machine Learning



Quality Assurance

Customer Orientation

Technology Leading

Employee Participation

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LED Emitter

L1

PCBA

L2

Optics

L3

Heatsink

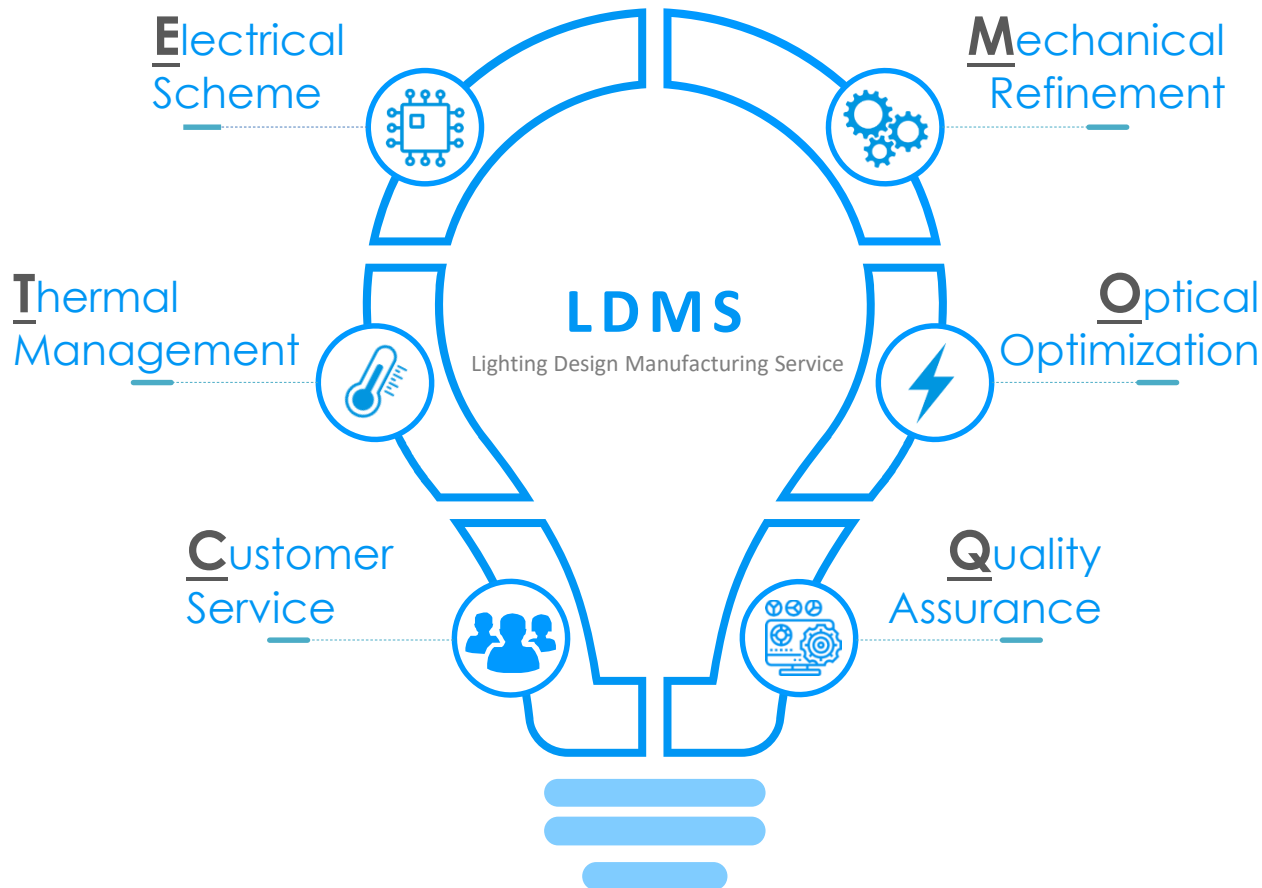
L4

Circuit

L5

Solution

L6



Lighting Design Manufacturing Service



Thank You

