



MYCARR LIGHTING TECHNOLOGY CO., LTD.
新傑燈光科技有限公司

公司簡介
Company Profile

目錄 Content

1. 公司概况 Company Overview
2. 研發能力 R&D Capability
3. 主要產品 Main Products
4. 客戶互動 Customer Interactive
5. 通過認證 Mycarr's Certification
6. 結論 Conclusion

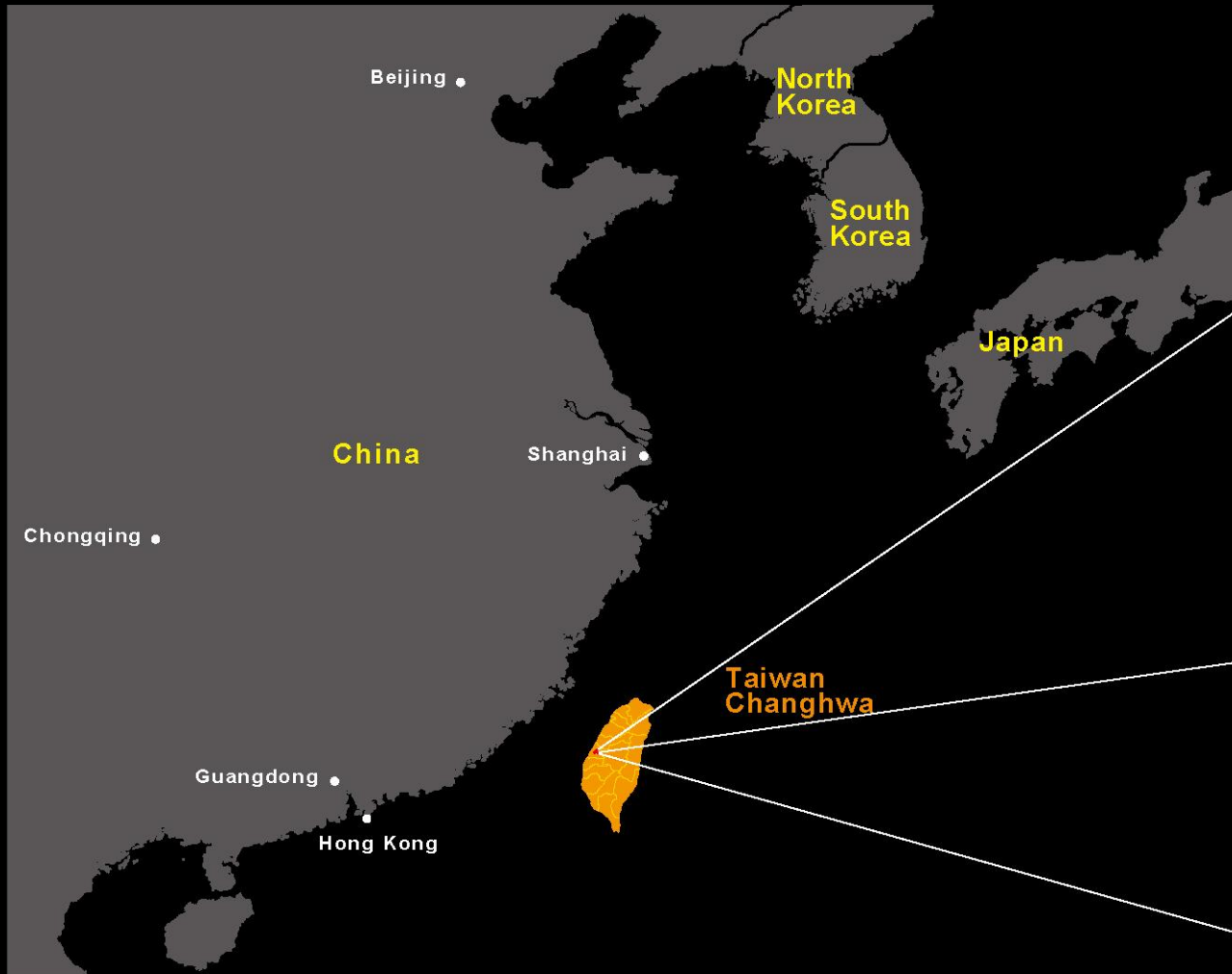
OEM
ODM

R&D
研發

Test
測試

Manufacture
製造

Service
服務



● Head Office 彰化總公司



● LUNMEI Factory 崙美廠

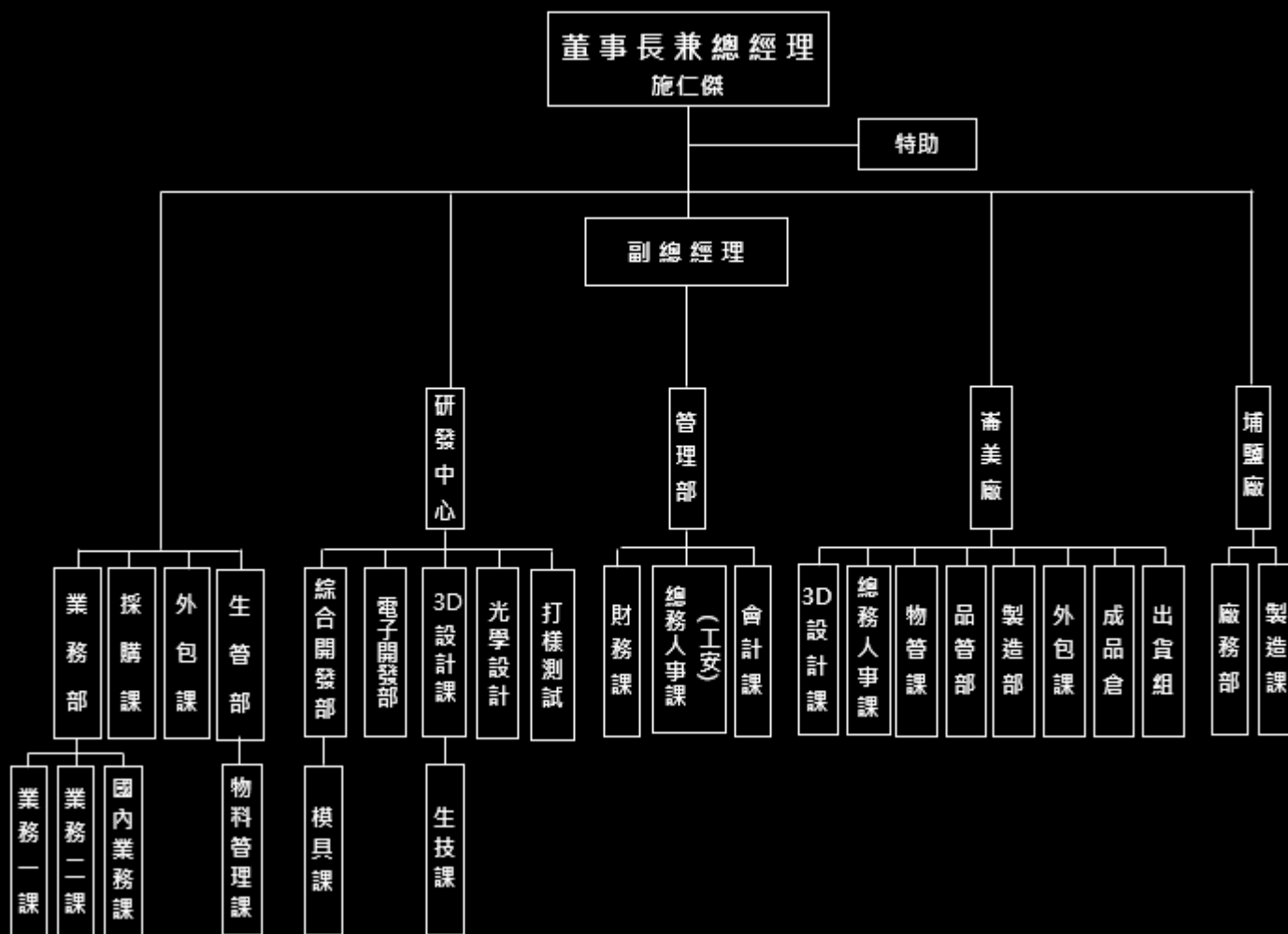


● PUYAN Factory 埔鹽廠

Mycarr Profile 公司簡介

- **Established: 1985**
成立時間：1985年
- **Employees: 160**
員工人數：約160人
- **RD engineers: 20**
研發人員：約20人
- **Capacity: 10 KK pcs/ year**
產能：約1000萬pcs/年
- **Main customers: Harley-Davidson、Philips、
合作客戶
Osram、Japan Stanley、
PIAA、Toyota、Nissan**

組織圖



研發人員共24人 R&D team: 24 engineers

- 3D設計(結構與外觀): 6人
- 3D design(structure & appearance): 6

- 光學設計: 2人
- Optical design: 2

- 電子(電力與通訊電子): 4人
- Electronic(power & communication): 4

- 模具設計: 4人
- Tooling design: 4

- 綜合工程人員: 8人
- Integrated Development Engineer: 8

■ **Design Software & Equipment**

設計輔助軟體及設備

ERP	HONEY 7.0
Structure design 產品設計	CATIA V5 R21 SOLIDWORKS
Optical design 光學設計	SPEOS
Tooling design 模具設計	CATIA V5 R21
Heat flow simulation 熱流模擬分析	SIEMENS NX ESC

Environmental Laboratory & Validation Equipment
環境實驗室及試驗設備



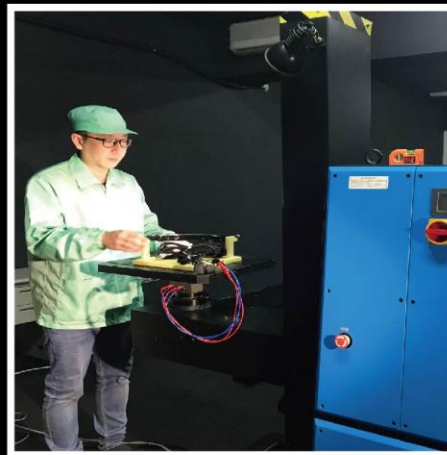
Validation Equipment 測試設備

1. Goniophotometer 配光機	8. Forced Air Flow Oven 熱風循環烤箱
2. Integrated Sphere 積分球	9. High Precision 2.5D Measurement 2.5D量測系統
3. Programmable Temp. & Humi. Chamber 可程式恆溫恆濕試驗機	10. Infrared Camera 紅外線熱顯像儀器
4. Salt Spray Tester 鹽水噴霧試驗機	11. ESD Simulator 靜電槍設備
5. Vibration Tester 震動試驗機	12. Luminance Measurement Equipment 輝度量測設備
6. Water Resistance Tester 耐水試驗機	13. Digital Microscope 數位顯微鏡
7. Thermal Shock Tester 冷熱衝擊試驗機	14. Transmittance / Haze Measurement Equipment 穿透率/霧度量測設備

■ **Equipment for RD and Validation** 研發及檢驗設備



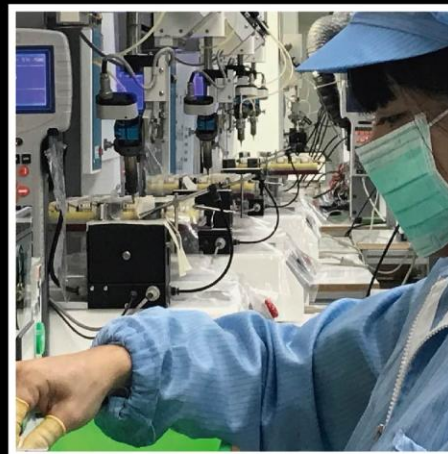
Tooling Dept.
模具部



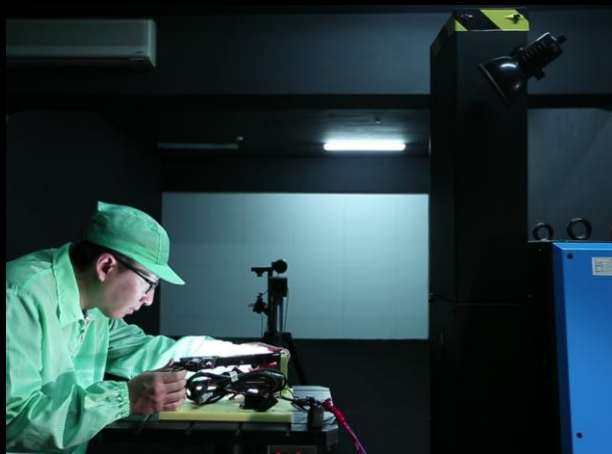
Goniophotometer
配光機



Water Resistance Test
防水測試



Automated Production Line
自動化產線



Goniophotometer Lab
配光實驗室



Goniophotometer Lab
配光實驗室



High precision 2.5D measurement
高精度2.5D量測



3D printer
3D 列印



Integrated sphere
積分球



Integrated sphere
積分球



SMT Equipment
SMT設備



Reflow oven
小型回焊爐

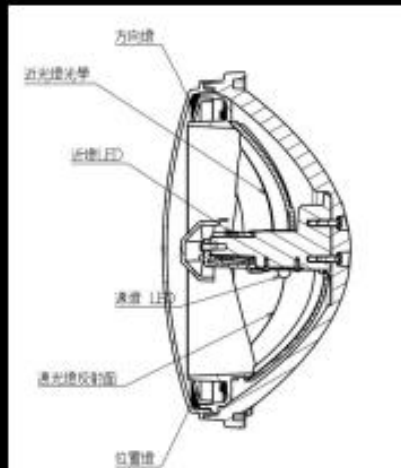
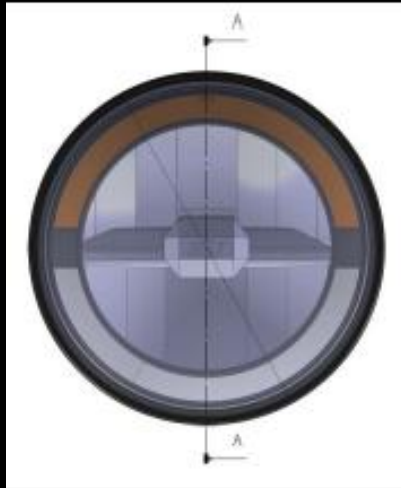
High performance digital microscope educational training
高性能數位顯微鏡教育訓練



High performance digital microscope educational training

高性能數位顯微鏡教育訓練



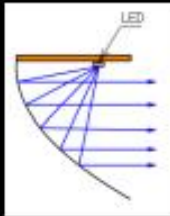


Design of LED lamps

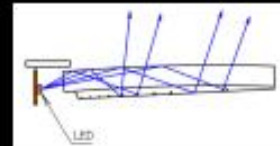
- Optics : Certification Requirement
- Structure : Heat Dissipation 、
Waterproof 、
Shockproof
- Electronics: Electronic Control 、
System Integration

Types of optical design, according to requirements

- MR (multiple reflection)



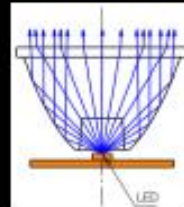
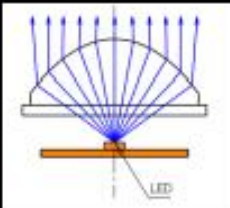
- LIGHT GUIDE



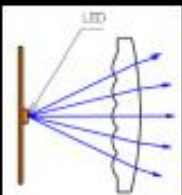
實例 : 2009 PHILIPS DRL



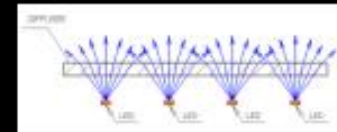
- PES Fish eye (Projection/Aspherical Lenses)
- TIR (Total Internal Reflection)



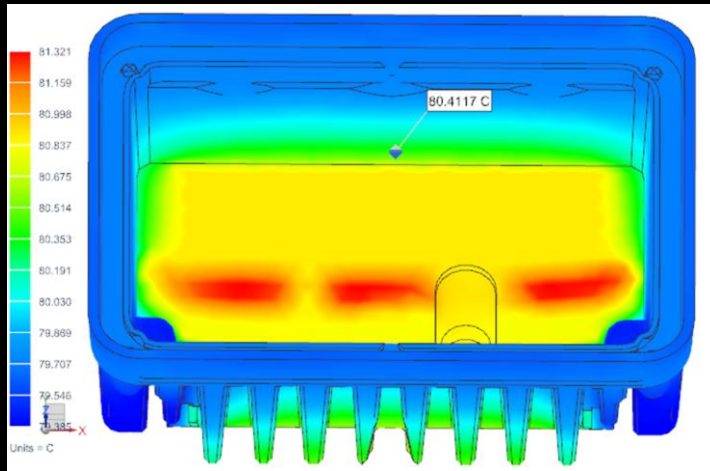
- Lamp Lens Pattern Design



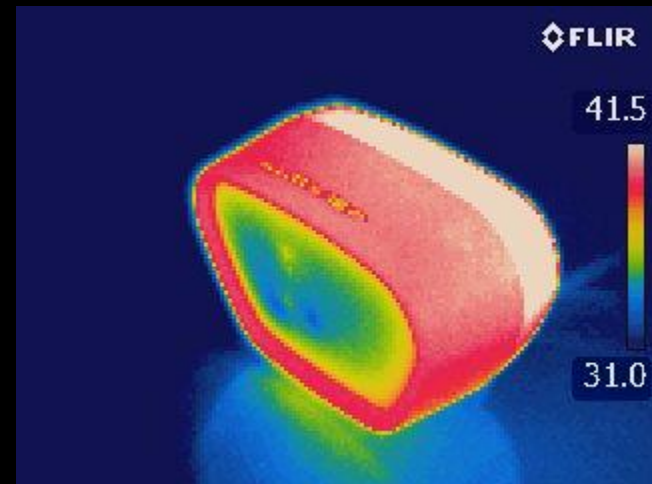
- Diffuser plate



Thermal Analysis



Heat Simulation Analysis



Infrared Thermal Imaging Camera

Test Items of Lamp

Optical Test 光學測試

1. Lumen Measurement 流明值量測
2. Light Distribution 光分布
3. CCT(Correlated Color Temperature) Measurement 色溫量測
4. Luminance Measurement 輝度量測
5. Transmittance / Haze Measurement 穿透率/霧度量測

Electrical Test 電性測試

1. EMI (Electromagnetic Interference) 電磁干擾
2. EMC (Electromagnetic Compatibility) 電磁相容
3. ESD (Electrostatic Discharge) 抗靜電
4. RF Immunity 射頻抗擾度



● Motorcycle Tail Light
機車尾燈



● Side Mirror Indicator
後照鏡方向燈



● Side Mirror Indicator
後照鏡方向燈



● H type LED bulbs
H系列LED燈

Mycarr 產品-白天燈



YOU CAN BUY ALL VEHICLE LED BULBS IN MYCARR.

MYCARRでは、自動車用バルブは何でも買える！

Head Lamp
White

- H4** (1350lm) Lo (1050lm) SJH4-X12-01
- H7** (2000lm) SJH7-X8-02
- H7** (2000lm) SJH7-X8-01

Fog Lamp
White

- H11** (1500lm) SJH11-X6B-01
- HB3** (1500lm) SJHB3-X6B-01
- HB4** (1500lm) SJHB4-X6B-01

Position / Parking Lamp
White

- H27** (880) (550lm) SJH27-880-X4-01
- H8** (720lm) SJH16-X6-01
- H11** (1500lm) SJH11-X6B-01
- H8** (720lm) SJH10-X6-01
- H11** (720lm) SJH10-50lm-02
- H16** (1500lm) SJH11-X6B-01
- H27** (881) (550lm) SJH27-881-X4-01
- H10** (720lm) SJH10-X6-01
- HB4** (720lm) SJHB4-X6FOG-01

Interior Lamp
White

- T4W** (35lm) SJBA9S-X1-01
- T10** (55lm) SJT10D-X1-01
- T10** (75lm) SJT10-X1-03
- 1613** (50lm) SJ1613-X1-31mm-01
- 1613** (50lm) SJ1613-X1-37mm-01
- 1613** (50lm) SJ1613-X1-41mm-01

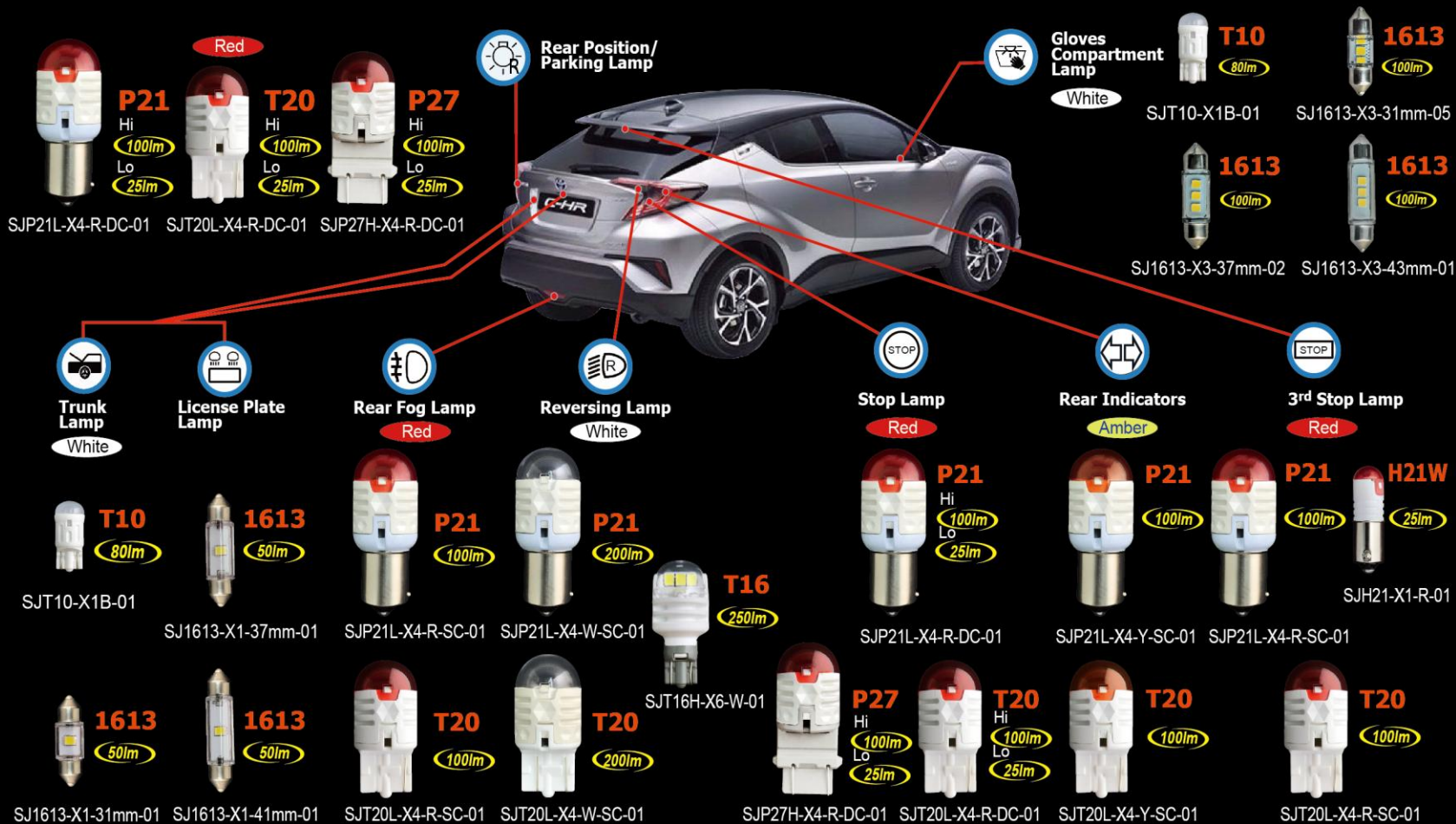
Dashboard Lamp
White

- T10** (60lm) SJT10-X1B-02
- T10** (75lm) SJT10-X1-03
- T10** (60lm) SJT10-50lm-02
- T5** (26lm) SJT5-X1-02
- T10** (130lm) SJT10-X3-02
- T10** (270lm) SJT10H-X5-01
- T6.5** (20lm) SJT6.5-X1-01

Indicators
Amber

- P21** (150lm) SJP21H-X6-Y-SC-01
- T20** (150lm) SJT20H-X6-Y-SC-01

OE. OES Level Annual Capacity 10,000,000 pcs



■ **TOYOTA Products // TOYOTA 產品**



■ **USA Electric Motorcycle LED Headlight** **美國電動機車LED頭燈**



■ **Harley-Davidson Motorcycle LED Tail Light/ LED Indicator** **哈雷機車尾燈/方向燈**



Osram Products Osram 產品



Lumileds (PHILIPS) Products

Lumileds 產品



E-BIKE lamps E-BIKE 車燈





Tail lamp
尾燈



Indicator
方向燈



Head lamp
頭燈



■ **Electric Bicycle - LED Headlight** **電動自行車頭燈系列**

- **Available for Customized Design** •
- **Tooling finished**
- **Using switch to control high/low beam**



EJ-10

Low beam

Material : PC

12V 190 lm

L54.1xW45.3xH51.6mm

~~~~ K 2096



### **EJ-11**

Low beam

Material : PC

12V 190 lm

L52.1xW47.1xH53mm

~~~~ K 2140



EJ-12

Low beam

Material : ADC12/PMMA

12V 140 lm

L58xW43xH33mm

~~~~ K 2222



### **EJ-13**

Hi / Low beam

Material : ADC12/PMMA

12V 760/ 340 lm

L65xW52xH56.6mm

~~~~ K 2157



EJ-14

Hi / Low beam

Material : ADC12/PC

12V 1200 / 480 lm

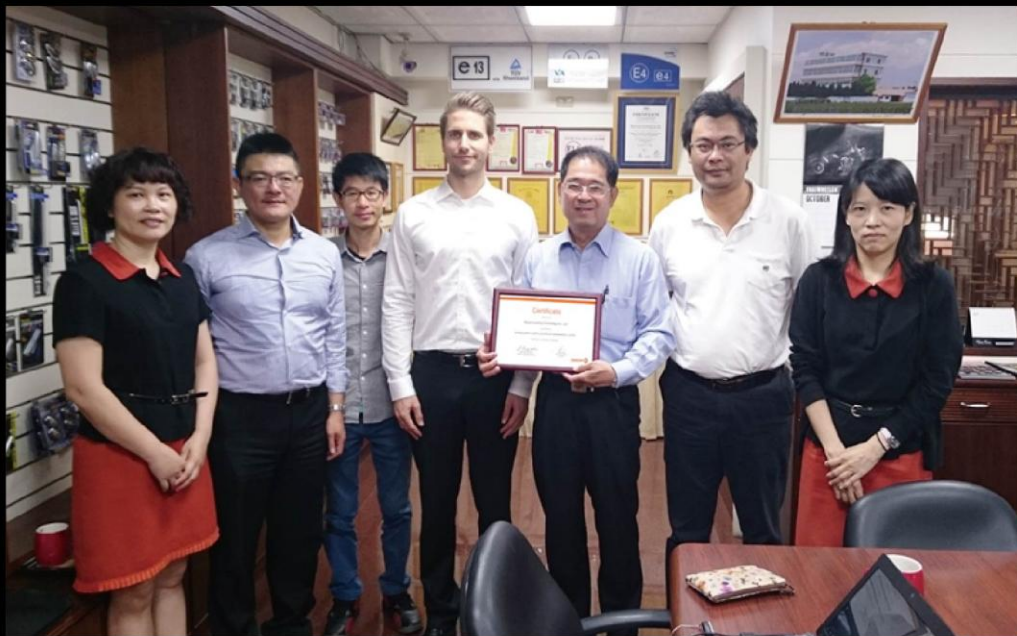
L83.7xW48xH43mm

~~~~ K 2095



# 榮耀 | *Excellent Supplier Performance in 2015*

- 2015年獲OSRAM集團  
頒獎最佳供應商獎



## 獲獎證書 *Award reasons* 獲獎原因

- Rapid Development  
快速研發
- On Time Delivery  
準時交貨
- Stable Quality  
品質穩定

# 榮耀 | **Lumileds 2018 Best Supplier**

2018年獲Lumiled(Philips)  
頒獎最佳供應商獎



■ **Certificate** 獲獎證書  
**Award reasons**  
獲獎原因

- Rapid Development  
快速研發
- On Time Delivery  
準時交貨
- Stable Quality  
品質穩定

***HARLEY DAVIDSON production line audit***  
**哈雷來廠稽核**



***Presentation for HARLEY DAVIDSON LED headlight***  
**哈雷LED 機車頭燈發表**



***Stanley visit to teach welding technique***  
**斯坦雷來廠指導焊接技巧**



***Director of Philips Mobility Division Neils visit Mycarr for 1st DRL mass production.***  
**PHILIPS 集團 Neils親自來廠視察首批量產D.R.L**



# Mycarr's certification

## Mycarr通過認證

IATF-16949 ISO 9001 ISO 45001 ISO 14001

REACH RoHS (E) CE SAE DOT TAIWAN CCC

# ***Mycarr Main Job***

## ***Mycarr 工作領域***

**R&D**

**研發**

**Test**

**測試**

**Manufacture**

**製造**

**Service**

**服務**



新傑研發團隊，追求精益求精，萬無一失。

**Mycarr R&D team, pursuit for 100% excellence**

***Mycarr is your Best Partner***  
**新傑是你最佳的夥伴！**

**MYCARR IS YOUR BEST PARTNER**



***Thank You!***