

[www.u-tron.com](http://www.u-tron.com)



## **U-Tron (Beijing) Electronics Co. Ltd.**



**2012**



[www.u-tron.com](http://www.u-tron.com)

## Preface

- 1992 – Established
- 1997 – First LED traffic signals
- From 2006 – Research & Development and manufacturing High Power LED products → ITS and other applications
- 2008 – Successful development of first LED street lighting products
- Present – over 100 products manufactured & more than 10 patents

## **Special Features of U-Tron LEDs**

- One U-Tron Trade Mark
- Thrive for maximum light output
- High-efficiency heat transfer
- Save energy
- Large illumination coverage
- Elegant design
- Best color rendering & full color range temperatures coverage
- No-thermal radiation, No-hazardous Metals & Environmentally-Friendly
- Light weight
- Long life, good stability and reliability
- 3 to 5 Year Warranty
- Class A customer service
- Low maintenance costs

## Introduction R & D products

- Helios and Helios Jr. LED Bulbs
- Comet LED Light
- Moon light
- Milky-way LED Light
- Cultivar Plant Growing light
- Extendum T8 tube
- UFO Series LEDs



## Introduction R & D products

- Lucas LED Street Lights
- Lucas E40 Retrofit LED Bulb
- BatLEDs
- SoLEDs for Solar Powered Lights
- Venus LED Light
- Light Control and Management System
- Intelligent Watt Meter



## LED Helios™ Dimmable Light Bulb

### *Technical Specifications:*

- Number of LED: 3
- Total Power Consumption: 3.8 watts
- LED Type: Cree R5
- Power Rating: Universal
- Temperature rating: -40 °C to 45 °C
- LED Initial Flux: 420 lm
- IP Rating: IP 65
- Lights Dimensions: 59x122.5mm



## LED Helios Junior™ Light Bulb

### *Technical Specifications:*

- Number of LED: 3
- Total Power Consumption: 3.8 watts
- LED Type: Cree R5
- Power Rating: Universal
- Temperature rating: -40 °C to 45 °C
- LED Initial Flux: 420 lm
- IP Rating: IP 65
- Lights Dimensions: 59x122.5mm



E27



B22



GU10



E14

## LED Helios™ Light Bulb For Home and Office

### *Technical Specifications:*

- Total Power Consumption: Less than 4 watts
- LED: (Cree R5) 3
- Input AC Voltage: Universal
- Brightness: 420 lumen
- Frequency: 45-65Hz
- Equivalent incandescent light bulb 40W
- Weight: 135g
- Dimensions: 56mm diameter and 106mm long
- Color Temperature In Kelvin CW= 5500 Kelvin –  
Daylight White WW= 3000 Kelvin -Yellow/White
- Beam Width: 180 degrees
- Warranty: 3 years from date of purchase
- Approved Certification: CQC, CE and Pending UL Approval



E27



B22



GU10

**Cool White = 5500 Kelvin or  
Daylight White = 3000 Kelvin**



## Comet LED™ Light MR16

### *Technical Specifications:*

- Number of LED: 3
- Total Power Consumption: 3W
- LED Type: Cree R5
- Power Rating: Universal
- Temperature rating: -40 °C to 45 °C
- LED Initial Flux: 420lm
- Light Dimension: 50 x Ø50mm



MR16



E14



GU10



E27

## LED Moon Light™

### *Technical Specifications:*

- Thinnest in the world: only 14mm
- Using Patented technology of Al-Cu-Ceramic PCB to achieve best heat management
- Number of LEDs: 100 Cree High power
- Total Power Consumption: 12 watts
- LED Type: Cree
- Power Rating: Universal
- Temperature rating: -40 °C to 45 °C
- LED Initial Flux: 2,000 lm
- Light Dimensions:  $\Phi$ 125mm,  $\Phi$ 150mm,  $\Phi$ 182mm



## Milky Way LED Panel™ Lights

### ***Milky Way Technical Specifications:***

- Number of LED: 112 per side
- Total Power Consumption: 15, 30 and 60W
- LED Type: Cree
- Power Rating: Universal
- Temperature rating: -40 °C to 45 °C
- LED Initial Flux: 1700, 3200 and 4800lm
- Lights Dimensions:
  - 600x600mm,
  - 1200x300mm
  - 300x300mm
  - and 600x300mm

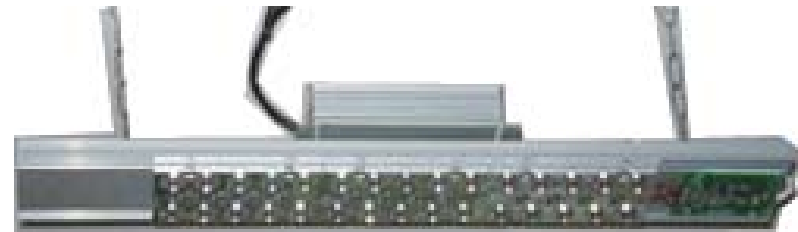




## Cultivar Plant Growing Light™

### *Technical Specifications:*

- Number of LED: 36 to 84
- Total Power Consumption:  
48 -100 watts
- LED Type: Cree R5
- Power Rating: Universal
- Temperature rating: -40 °C to 45 °C
- LED Initial Flux: 5,004 to 11,000 Lm
- Light Dimensions: 500 to 1200 x 91 x 60mm



## 600 mm Extendum T8 Tube Light

### *Technical Specifications:*

- Number of LEDs: 80
- Total Power Consumption: 11 watts
- LED Type: Cree CLA1B
- Power Rating: Universal
- Temperature rating: -40 °C to 45 °C
- LED Initial Flux: 900 lm
- Light Dimensions: 600mm



## 1200mm Extendum T8 Tube Light

### *Technical Specifications:*

- Number of LEDs:160
- Total Power Consumption: 21 watts
- LED Type: Cree CLA1B
- Power Rating: Universal
- Temperature rating: -40 °C to 45 °C
- LED Initial Flux: 1800 lm
- Light Dimensions: 1200mm



## UFO Series LED Lights

### ***UFO Hanging Light***

#### ***Technical Specifications:***

- Number of LED: 36
- Total Power Consumption: 50W
- LED Type: Cree R5
- Power Rating: Universal
- Temperature rating: -40 °C to 45 °C
- LED Initial Flux: 5,004lm
- Light Dimension: 362 x Ø 380mm



## UFO Series LED Lights

### ***UFO Recessed Light Technical Specifications:***

- Number of LED: 12, 28, 36
- Total Power Consumption: 15W, 42W, 50W
- LED Type: Cree R5
- Power Rating: Universal
- Temperature rating: -40 °C to 45 °C
- LED Initial Flux: 4,000 lm
- Light Dimensions: 191xΦ229mm





## UFO Series LED Lights

### ***E40 LED Light***

#### ***Technical Specifications:***

- Number of LED: 1
- LED Type: Citizen LED (CL-L233-MC13L1)
- Total Power Consumption: 13 Watts
- Color Rendering Index: 85
- Power Rating: 220V 50Hz
- Temperature rating: 25 °C
- Maximum Operating Temperature 50 °C
- LED Initial Flux: 900 lm
- IP Rating: 25
- Weight: 750 g
- Lights Dimensions: 159.5mm L x 120mm D
- Warranty on Workmanship: 36 Months
- Guarantee on LED: < 50% loss (Which ever comes first) 60 Months or 50,000 Hrs



## Lucas LED™ Street Lights

### ***L I 30***

#### ***Technical Specifications:***

- Number of LED: 30
- Total Power Consumption: 40 watts
- LED Type: Cree R5
- Power Rating: Universal
- Temperature rating: -40 °C to 45 °C
- LED Initial Flux: 4,170 lm
- IP Rating: IP 65
- Light Dimensions: 560x333x100.50mm



## Lucas LED™ Street Lights

### ***LI 42***

#### ***Technical Specifications:***

- Number of LED: 42
- Total Power Consumption: 55 watts
- LED Type: Cree R5
- Power Rating: Universal
- Temperature rating: -40 °C to 45 °C
- LED Initial Flux: 5,838lm
- IP Rating: IP 65
- Light Dimensions: 560x333x100.50mm

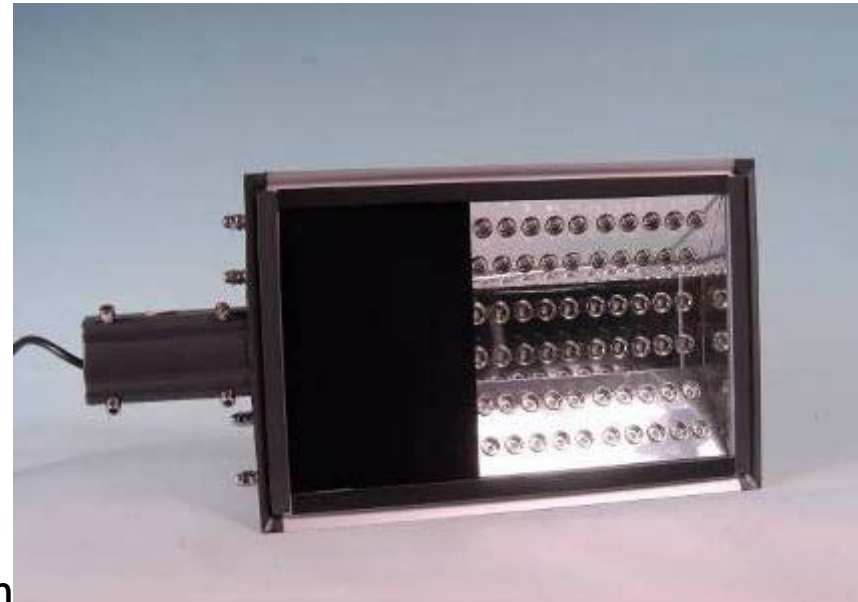


## Lucas LED™ Street Lights

### ***L II 60***

#### ***Technical Specifications:***

- Number of LEDs: 60
- Total Power Consumption: 80 watts
- LED Type: Cree R5
- Power Rating: Universal
- Temperature rating: -40 °C to 45 °C
- LED Initial Flux: 8,340 lm
- IP Rating: IP 65
- Lights Dimensions: 689x333x100.50mm



## Lucas LED™ Street Lights

### ***L II 84***

#### ***Technical Specifications:***

- Number of LED: 84
- Total Power Consumption: 105 watts
- LED Type: Cree R5
- Power Rating: Universal
- Power Supply Consumption: 10.5W
- Temperature rating: -40 °C to 45 °C
- LED Initial Flux: 11760lm
- IP Rating: IP 65
- Lights Dimensions: 689x333x100.50mm



## Lucas LED™ Street Lights

### ***L III 90***

#### ***Technical Specifications:***

- Number of LED: 90
- LED Type: Cree R5
- Total Power Consumption: 115 Watts
- Power Rating: Universal
- Temperature rating: -40 °C to 45 °C
- LED Initial Flux: 12,510 lm
- IP Rating: IP 65
- Lights Dimensions:  
686mmx333mmx198mm



## Lucas LED™ Street Lights

### ***L III 114***

#### ***Technical Specifications:***

- Number of LED: 114
- LED Type: Cree R5
- Total Power Consumption: 135 Watts
- Power Rating: Universal
- Temperature rating: -40 °C to 45 °C
- LED Initial Flux: 15,846 lm
- IP Rating: IP 65
- Light Dimensions: 689x333x100.50mm





## Lucas Flat Panel LED™ Street Lights

### ***LFP II 60***

#### ***Technical Specifications:***

- Number of LED: 60
- LED Type: Cree R5
- Total Power Consumption: 80 Watts
- Power Rating: Universal
- Temperature rating: -40 °C to 45 °C
- LED Initial Flux: 8,340 lm
- IP Rating: IP 65
- Light Dimensions: 560x333x100.50mm





## Lucas Flat Panel LED Street Lights

### ***LFP II 84***

#### ***Technical Specifications:***

- Number of LED: 84
- LED Type: Cree R5
- Total Power Consumption: 105 Watts
- Power Rating: 220VAC 50/60Hz
- Temperature rating: -40 °C to 45 °C
- LED Initial Flux: 8,340 lm
- IP Rating: IP 65
- Light Dimensions: 560x333x100.50mm



## Lucas LED™ Street Lights

### ***Twin Head***

### ***Technical specifications:***

- Number of LED: 120
- LED Type: Cree R5
- Total Power Consumption: 220 Watts
- Power Rating: Universal
- Temperature rating: -40 °C to 45 °C
- LED Initial Flux: 16,680 lm
- IP Rating: IP 65
- Light Dimensions: 849x700x100.50mm



## Lucas LED™ Street Lights

### ***Twin Head***

### ***Technical specifications:***

- Number of LED: 180
- LED Type: Cree R5
- Total Power Consumption: 220 Watts
- Power Rating: Universal
- Temperature rating: -40 °C to 45 °C
- LED Initial Flux: 25,020 lm
- IP Rating: IP 65
- Light Dimensions: 981x700x100.50mm



## E40 Retrofit LED Bulb

### Lucas E40

#### *Technical Specifications:*

- E40 type socket
- Number of LEDs is only 10
- Maximum power consumption: 15 Watts - includes LEDs, Drivers and Power Supply.
- (DC version available upon request)
- Maximum light output: >1000 Lux
- Cool White (5000~7000K) or
- Warm White (3000- 4000K)
- Coverage: 90° cone shape. Perfectly distributed light beam
- Life cycle: 50,000 hours
- Operating Temperature-30° C ~ 40° C
- Input Power 85 - 265VAC (universal)
- Lamp housing material: Aluminum Alloy, PC
- Recommended Heights: 4, 5 or 6Meters
- Measured Illumination (E) (Height=4.5m) ->13 lux
- Effective Illuminated Area Height is equal to the radius of the coverage area
- IP Rating is: IP 58
- Approvals: comply with all RoHS requirements. CE and UL pending



## E40 Retrofit LED Bulb

### ***Lucas E40 Characteristics***

- We use CREE® LED chips for highest light output and reliability.
- Very low total power consumption: Only 15 Watts!
- High Lumen output: >1000 Lumens.
- Internal current is only 330mA.
- Evenly distributed Circular Light Beam. Using our patented reflector cups we have achieved the most economical way to control light.



## E40 Retrofit LED Bulb

### ***Lucas E40 Characteristics***

- Fits All Standard E40 Sockets, A Direct Retrofit Replacement:
- Easy assembly and Disassembly mechanism.
- Changing Power Supply made easy, you don't need complicated tools to open the case and swapping a new power supply. .
- Smart Heat sink holds it all together using 2 long screws and maintain highly efficient thermal management



## E40 Retrofit LED Bulb

### ***Lucas E40 Characteristics***

- Less visual fatigue when used with glossy shade.
- No need for "Very Hot" warnings
- No more cleaning.
- Global Power input: Use it in any country. 80VAC to 260VAC.
- Line frequency: 45Hz to 65 Hz
- No Ultraviolet (UV) or Infrared (IR) Radiation
- Shock-resistant: No moving parts or delicate filaments or breakable glass.
- High precision Driver Board.
- Energy saved over 6 months will pay for lamp it self.
- Long lasting: guaranteed to provide over 70% of its original luminance for 50,000 hrs.





## BatLEDs™ Lights

### ***BI 30***

#### ***Technical Specifications:***

- Number of LEDs:30
- Total Power Consumption:40 watts
- LED Type: Cree R5
- Power Rating: Universal
- Temperature rating: -40 °C to 45 °C
- LED Initial Flux:4,170 lm
- IP Rating: IP 65
- Light Dimensions: 284x333x200.50mm





## BatLEDs™ Lights

### **BI 42**

#### ***Technical Specifications:***

- Number of LED: 42
- Total Power Consumption: 55 watts
- LED Type: Cree R5
- Power Rating: Universal
- Temperature rating: -40 °C to 45 °C)
- LED Initial Flux: 5838 lm
- IP Rating: IP 65
- Light Dimensions: 84x333x200.50mm



## BatLEDs™ Lights

### ***BII 60***

#### ***Technical Specifications:***

- Number of LED: 60
- Total Power Consumption: 80 watts
- LED Type: Cree R5
- Power Rating: Universal
- Temperature rating: -40 °C to 45 °C
- LED Initial Flux: 8,340 lm
- IP Rating: IP 65
- Lights Dimensions: 402x333x200.50mm



## BatLEDs™ Lights

### ***BII 84***

#### ***Technical Specifications:***

- Number of LED: 84
- Total Power Consumption: 110 watts
- LED Type: Cree R5
- Power Rating: Universal
- Power Supply Consumption: 10.5W
- Temperature rating: -40 °C to 45 °C
- LED Initial Flux: 11,676lm
- Lights Dimensions: 402x333x200.50mm



## Venus LED Light

### ***Venus 10***

### ***Technical Specifications:***

- Number of LED: 10
- Total Power Consumption: 13 watts
- LED Type: Cree R5
- Power Rating: Universal
- Temperature rating: -40 °C to 45 °C
- LED Initial Flux: 1,400 lm
- Beam Angle: 30 Degrees
- IP Rating: IP 65
- Lights Dimensions: 195x235x312mm



# VENUS™ Light LED

## ***Venus 14***

### ***Technical Specifications:***

- Number of LED: 14
- Total Power Consumption: 20 watts
- LED Type: Cree R5
- Power Rating: Universal
- Temperature rating: -40 °C to 45 °C
- LED Initial Flux: 2,000 lm
- Beam Angle: 30 Degrees
- IP Rating: IP 65
- Lights Dimensions: 195x235x312mm



# VENUS™ Light LED

## ***Venus 30***

### ***Technical Specifications:***

- Number of LED: 30
- Total Power Consumption: 40 watts
- LED Type: Cree R5
- Power Rating: Universal
- Temperature rating: -40 °C to 45 °C
- LED Initial Flux: 4,170 lm
- Beam Angle: 30 Degrees
- IP Rating: IP 65
- Lights Dimensions: 195x235x312mm



# VENUS™ Light LED

## ***Venus 42***

### ***Technical Specifications:***

- Number of LED: 42
- Total Power Consumption: 55 watts
- LED Type: Cree R5
- Power Rating: Universal
- Temperature rating: -40 °C to 45 °C
- LED Initial Flux: 5,838 lm
- Beam Angle: 30 Degrees
- IP Rating: IP 65
- Lights Dimensions: 195x235x312mm





**SoLEDs**

WWW.SOLEDS.COM

**™ Solar Lights**

**SI 30**

***Technical Specifications:***

- Number of LED: 30 Pieces Cree R5 LED
- Lumens: 4,170lm
- At 4 meters > 55.75lx (average)
- Operating voltage: 10 to 30 Volt DC
- Solar panel: 1382 x 1050 mm (2-130Watts Solar panels-designed for Sweden)
- Battery: Two 60 AH 12 V Automobile batteries connected in serial mode to give 24 V output.
- Duration of operation: Not less than 10 Hours for 3 consecutive nights when fully charged.
- Controller functions
- Light control, over charge protection, over discharge protection, and dimming after xx hours of operation.





**SoLEDs**

WWW.SOLEDS.COM

**™ Solar Lights**

**SI 42**

***Technical Specifications:***

- Number of LED: 42 Pieces Cree R5 LED
- Lumens: 5,838 lm
- At 4 meters >78.05lx (average)
- At 5 meters >49.95lx (average)
- At 6 meters >34.69lx (average)
- At 7 Meters >25.48lx (average)
- Operating voltage: 10 to 30 Volt DC
- Solar panel: 1470 x 680 mm (4-85Watts Solar panels – designed for Sweden)
- Battery: Two 60 AH 12 V Automobile batteries connected in serial mode to give 24 V output.
- Duration of operation: Not less than 10 Hours for 3 consecutive nights when fully charged.
- Controller functions
- Light control, over charge protection, over discharge protection, and dimming after xx hours of operation.



**SoLEDs**

WWW.SOLEDS.COM

**™ Solar Lights**

***SII 60***

***Technical Specifications:***

- Number of LED: 60 Pieces Cree R5
- LED Lumens: 8,340lm
- At 4 meters > 111.5 lx (average)
- At 9 Meters > 22.0 lx (average)
- Operating voltage: 10 to 30 Volt DC
- Solar panel: 1100 x 500 mm 4 panels
- Battery: Four 60 AH 12 V Automobile batteries connected in serial mode to give 24 V output.
- Duration of operation Not less than 10 Hours for 3 consecutive nights when fully charged.
- Controller functions Light control, over charge protection, over discharge protection, and dimming after xx hours of operation.



**SoLEDs**

WWW.SOLEDS.COM

**™ Solar Lights**

***SII 84***

***Technical Specifications***

- Number of LED: 84 Pieces Cree R5
- LED Lumens: 11,676 lm
- At 4 meters > 156.10 lx (average)
- At 9 Meters > 30.83 lx (average)
- At 10 Meters > 24.98 lx (average)
- Operating voltage 10 to 30 Volt DC
- Solar panel 1100 x 500 mm 4 panels
- Battery: Four 60 AH 12 V Automobile batteries connected in serial mode to give 24 V output.
- Duration of operation: Not less than 10 Hours for 3 consecutive nights when fully charged.
- Controller functions: Light control, over charge protection, over discharge protection, and dimming after xx hours of operation.



## U-Tron 6800-LCM-R1 Light Control and Management System

### ***6800-LCM-R1 Features:***

- Works with all Lucas, BatLEds, Venus & SoLEDs models
- Programmable Light intensity reduction control.
- Outputs PWM, 1-10V or Coded signal over the power line.
- The system will not respond to line fluctuation
- Single or Three phase line control
- Compact design, fits in many existing Power Distribution Cabinets.
- Remote Access using CDMA phones or Internet terminals.
- Monitoring capabilities and warning message when lights don't work.
- 12KB Storage capacity for register 365 days event
- Power fails recorder can keep track of brown outs and black outs
- Calculators to show energy consumption over selected time periods.
- 10 Amps to 40 Amps
- 16 to 512 channels



## Intelligent Watt Meter™



### *Technical Specifications:*

- Ordering Part No: U-6860-100
- Input Voltage: Universal AC
- Input Frequency: 48-65 Hz
- Maximum Power: 2000 watts
- Dimension: 215x150x92mm
- Net Weight 0.65 Kg

## Successful Projects

***Project Name:  
Gothenburg, Sweden 2008***

- Location: Jacobson between 12th and 13th Street
- Number of installed lights: 24
- Products types: 20 Lucas II 84 and 4 Lucas I 42
- Height of poles : 12 Meter
- Distance between poles: 25 Meters
- Installation date: December 2008
- Contact: Lasso Stevenson





## Successful Projects

***Project Name:  
Tianjin People's Stadium Solar  
Lights***

- Location: Tianjin People's Stadium
- Number of installed lights: 5
- Product type: E40 Retrofit LED Bulb LED
- Height of poles: 3.5 Meter
- Installation date: July 2009
- Contact: Mr Ni



## Successful Projects

***Project name:  
BatLEDs Light in Nanjing Subway***

- Location: Nanjing Subway
- Number of installed lights: 13 kilometers of the subway tunnel at 10 meters interval
- Product type: BatLED 40W lamps
- Contact: Mr. Li





## Successful Projects

### ***Project Name:***

### ***Family Compound of Tianjin Lighting Bureau Light Sample***

- Location: Family Compound of Tianjin Lighting Bureau
- Number of Installed Lights: 1
- Type of light: Lucas I 30
- Height of Poles: 5 Meters
- Installation Date: February 2009
- Contact: Mr Jian, Chen Chen



## Successful Projects

***Project Name:  
Installation for Daxing  
Development Zone***

- Location: Beijing Daxing Development Zone
- Number of installed lights: 53
- Type of light: Lucas II 84
- Height of poles: 10 Meters
- Installation date: August 2009
- Contact: David Wen, Mr Wang



## Successful Projects

***Project Name:  
Installation for Tongzhou  
Development Zone***

- Location: Beijing-Tianjin Highway
- Number of installed lights: 555
- Type of light: Lucas Twin head 180
- Height of poles: 15 Meters
- Pole to pole distance: 50 Meters
- Installation date: October 2010



## Successful Projects

***Project Name:  
Installation for WAB  
International School***

- Location: Beijing Jingxi School Development Zone
- Numbe of installed lights: 53
- Type of light: BatLED II 84
- Installation date: Sept 2011



## Successful Projects

***Project Name:  
Installation for Yizhuang  
Development Zone***

- Location: Beijing Yizhuang Development Zone
- Type of light: Lucas III 90
- Installation date: October 2009

*Introducing the very first external power supply in the LED industry...*



## Successful Projects

***Project Name:  
Installation for Nanshan  
District, Shenzhen pilot***

- Location: Nanshan District, Shenzhen pilot Zone
- Type of light: Lucas II 84
- Installation Date: January 2010



## Successful Projects

***Project Name:  
Installation for Yizhuang  
small project***

- Location: Beijing Yizhuang Development Zone
- Type of light: Lucas III 90
- Installation date: August 2009



## Successful Projects

***Project Name:  
Installation for Yizhuang  
Town Government***

- Location: Beijing Yizhuang Development Zone
- Type of light: Helios 3
- Installation date: May 2010





## Successful Projects

***Project Name:  
Installation for Hongta Group  
employees Building***

- Location: Hongta Group Employees Building
- Type of light: Lucas I 42
- Installation date: November 2009



## Successful Projects

***Project Name:  
Installation for Yunnan Yuxi  
Coral project***

- Location: Coral Road, Yuxi,
- Yunnan Type of light: Lucas I 42
- Installation Date: November 2009



## Successful Projects

***Project Name:  
Installation for  
Zhongguancun Science***

- Location: Zhongguancun Science
- Type of light: Lucas III 90
- Installation date: July 2009



## Successful Projects

***Project Name:  
Installation for South  
GuiYuan community***

- Address: South GuiYuan community
- Type of light: Lucas I 42
- Installation date: August 2009





**Thank you for your attention**