

U-Tron (Beijing) Electronics
Co., Ltd

U-Tron Solar Street Solutions



Environmentally Friendly
Economically Smart

www.u-tron.com



About U-Tron (Beijing) Electronics Co., Ltd.

U-Tron (Beijing) Electronics Co. Ltd is a wholly owned American enterprise established in China in 1992. Our innovative technology is developed in the U.S and our core manufacturing is centralised in China.

As an engineering company, we possess the resources to design, develop and manufacture high power LED luminaries. We are committed to employing the latest technologies with the highest level of quality, service and value to our customers and suppliers through a process of continuous improvement.

Customers and suppliers are encouraged to visit our BDA factory to review our manufacturing process and the strict ISO 9000 quality standards imposed on our entire product range. Today, U-Tron owns 1000 square metres of office space located in the Central Business District of Beijing and a 1,800 square metre factory in the Beijing Development Area of Yi Zhuang District.

U-Tron's central goal is to promote the use of sustainable energy; a critical step in responding to our current deteriorating environment.



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U-Tron LeDiwali LED

Light features:

Are you worried that the sodium street lights hanging over head are doing damage to the environment? Are they costing you too much to maintain and operate? Why not replace them with the LeDiwali?

This small sized but powerful light can save its user a lot compared to traditional electric incandescent lighting systems. It's a perfect E40 retrofit, which makes installation in any new or current system very easy. Just plug and play!



Applications:

Besides LeDiwali Outdoor for street lighting, U-Tron also provides a modified version: LeDiwali Indoor. This light is applicable in all kinds of indoor situations, replacing traditional incandescent E40 lights. Very adequate for locations such as commercial areas and heavy duty applications that require powerful but energy saving lighting.



LeDiwali Outdoor



6840-014-CR5DC

LeDiwali Outdoor Solar Light LED 1840lm 20W CR4

Are you worried that the sodium street lights hanging over head are doing damage to the environment? Are they costing you too much to maintain and operate? Why not replace them with the LeDiwali? This light is a must have for any government street lighting project, especially where there are problems with reliable power generation or those areas that are trying to reduce

Product Technical Data

General Informaion

Life Span 50000hr

Product Dimensions

Lamp Length 313mm
Lamp Width 84.00mm
Cap Size E42/27

Light Characteristics

Efficacy 92lm/W
Beam Angle 150
CCT 6000K $\pm 10\%$
Flux 1840lm
Color Rendering Index 75

Ordering Information

Product Number A-6840-014-CR5DC
Product Name LeDiwalli Outdoor
Product Ordering Name LeDiwalli Outdoor
1840lm 20W CR4

Electrical Characteristics

Wattage 20W
Voltage 9 to 36V DC
Power Factor N/A DC

Pieces Per Pack 1
Packs Per Carton 1

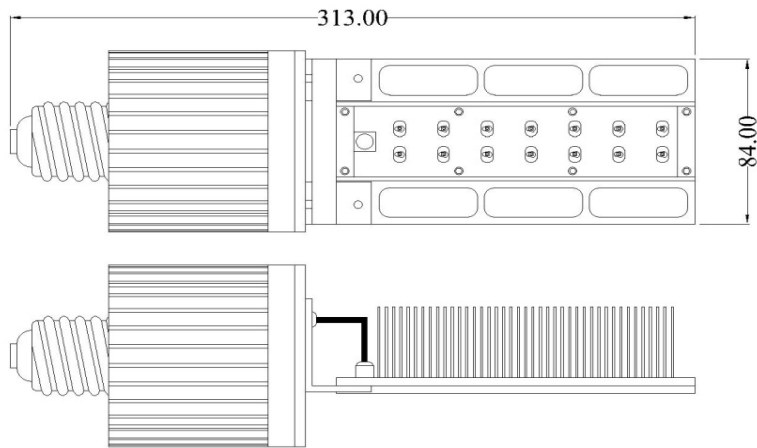
Temperature

Operating Temp. -40(min), 45(max)C
Storage -40(min), 45(max)C

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LeDiwali Outdoor Solar Light



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Specifications are subject to change without notice

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LeDiwali Indoor



6840-P10-CR5

LeDiwali Indoor 1390lm 15W CR5

Are you worried that your traditional incandescent lights are doing damage to the environment? Are they costing you too much to maintain and operate? Why not replace them with the LeDiwali Indoor Light. All of U-Tron's LED lights are made with one thing in mind: The environment. Save the planet today, buy a LeDiwali.

Product Technical Data

General Informaion

Cap Size	E40
Life Span	50000hr

Product Dimensions

Length	272mm
Diameter	92mm

Light Characteristics

Efficacy	92.6 lm/W
Beam Angle	160 D
CCT	5500K
Flux	1390lm
Color Rendering Index	85

Ordering Information

Product Number	A-6840-P10-CR5
Product Name	LeDiwali Indoor Bulb 10
Product Ordering Name	LeDiwali Indoor Bulb 10 5500K 1390 LM

Electrical Characteristics

Wattage	15W
Voltage	universal
Power Factor	0.937

Pieces Per Pack	1
Packs Per Carton	1

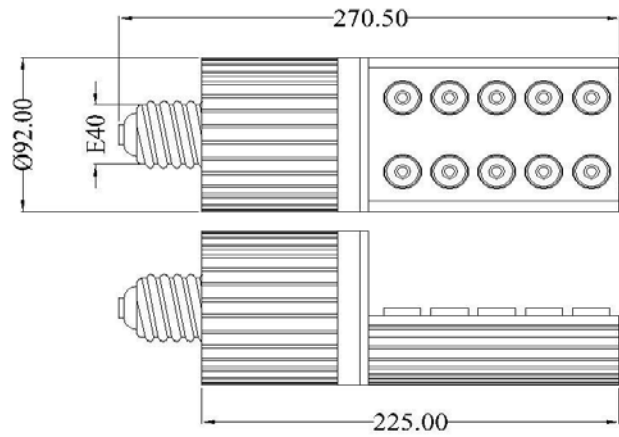
Temperature

Operating Temp.	-40(min), 45(max)C
Storage	-40(min), 65(max)C

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LeDiwali Indoor



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LeDiwali Indoor



6840-P14-CR5

LeDiwali Indoor 1946lm 18W CR5

Are you worried that your traditional incandescent lights are doing damage to the environment? Are they costing you too much to maintain and operate? Why not replace them with the LeDiwali Indoor Light. All of U-Tron's LED lights are made with one thing in mind: The environment. Save the planet today, buy a LeDiwali.

Product Technical Data

General Informaion

Cap Size	E40
Life Span	50000hr

Product Dimensions

Length	272mm
Diameter	92mm

Light Characteristics

Efficacy	108.25 lm/W
Beam Angle	160 D
CCT	5500K
Flux	1946lm
Color Rendering Index	85

Ordering Information

Product Number	A-6840-P14-CR5
Product Name	LeDiwali Indoor Bulb 14
Product Ordering Name	LeDiwali Indoor Bulb 14 5500K 1946 LM

Electrical Characteristics

Wattage	18W
Voltage	universal
Power Factor	0.937

Pieces Per Pack	1
Packs Per Carton	1

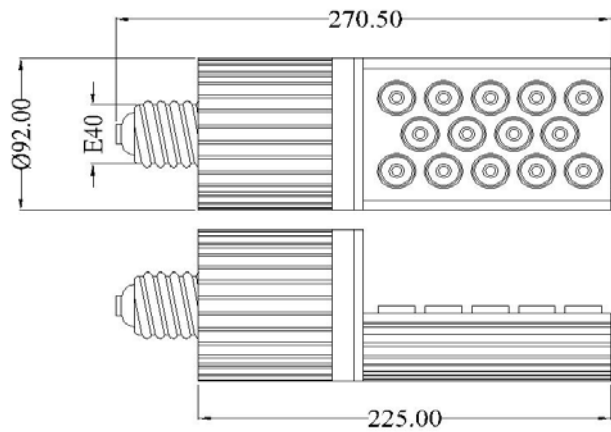
Temperature

Operating Temp.	-40(min), 45(max)C
Storage	-40(min), 65(max)C

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LeDiwali Indoor



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U-Tron SoLED Street Lights

Light Features:

SoLED is a combination of the classic Roman name of the sun (Sol/solaris, "sole" – free from the interference of others[also from the Latin, "solus"]) and the acronym LEDs.

The name says it all: an independent, energy saving, non-polluting Solar Lighting product that can provide you with years of sustainable night light without any operating expense. SoLED can be used anywhere the sun shines and is the perfect combination of U-Tron's award-winning design and proven technical know-how of providing very wide light coverage at low pole heights.

SoLEDs

WWW.SOLEDS.COM

Applications:

SoLED Street Lighting is suitable for any street lighting situation, guaranteeing a continuous and strong light flow. The table below displays the average ground illumination with various pole heights:



Height	Average ground illumination
4 meters	> 55.75 lx
5 meters	> 35.67 lx
6 meters	> 24.7 lx



SoLED Solar Light



6830-030-CR5

Soled Solar Light I 30LED 35W CR5

This is a must have for any government street lighting project, especially where there are problems with reliable power generation or those area that are trying to reduce their carbon footprint.

Product Technical Data

General Informaion

Heatsink	6063-T5 aluminum alloy
Life Span	50000hr

Light Characteristics

Efficacy	104.25 lm/W
Beam Angle	120
CCT	5500K
Flux	4170lm
Color Rendering Index	85

Electrical Characteristics

Wattage	35W
Voltage	universal
Power Factor	0.937

Temperature

Operating Temp.	-40(min), 45(max)C
Storage	-40(min), 45(max)C

Product Dimensions

Lamp Length	443mm
Lamp Width	333mm
Lamp Height	100.5mm
Lamp Body Length	400mm
Max Pole Opening	72mm

Ordering Information

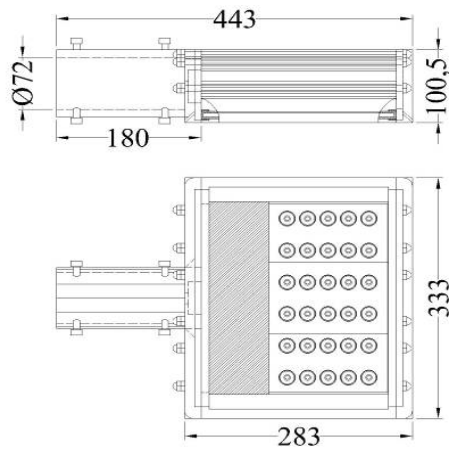
Product Number	A-6830-030-CR5
Product Name	SoLED I 30
Product Ordering Name	SoLED I 30LED 35W CR5

Pieces Per Pack	1
Packs Per Carton	1
Net Weight Per Piece	6.5 Kg

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SoLED Solar Light

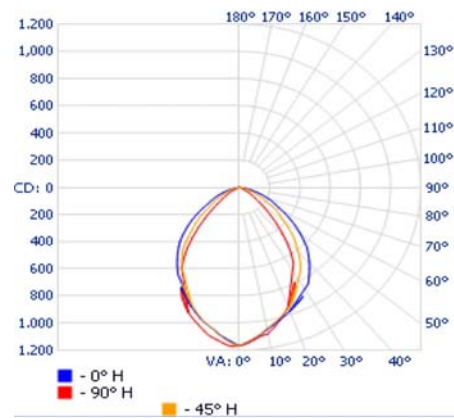


Light Distribution Characteristics

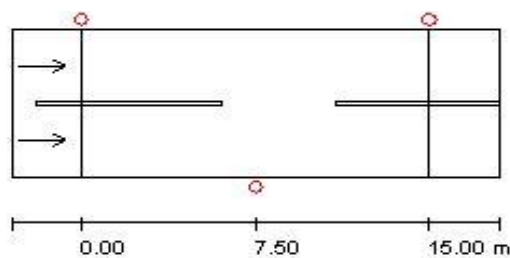
Pole Height: 5-6 Meters



Polar Candela Distribution



Pole to Pole distance: 12-15 Meters



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Soled Solar Light



6830-042-CR5

Soled Solar Light I 42LED 50W CR5

This is a must have for any government street lighting project, especially where there are problems with reliable power generation or those area that are trying to reduce their carbon footprint.

Product Technical Data

General Informaion

Heatsink	6063-T5 aluminum alloy
Life Span	50000hr

Light Characteristics

Efficacy	106.00 lm/W
Beam Angle	120
CCT	5500K
Flux	5838lm
Color Rendng Index	85

Electrical Characteristics

Wattage	50W
Voltage	universal
Power Factor	0.937

Temperature

Operating Temp.	-40(min), 45(max)C
Storage	-40(min), 45(max)C

Product Dimensions

Lamp Length	443mm
Lamp Width	333mm
Lamp Height	100.5mm
Lamp Body Length	400mm
Max Pole Opening	72mm

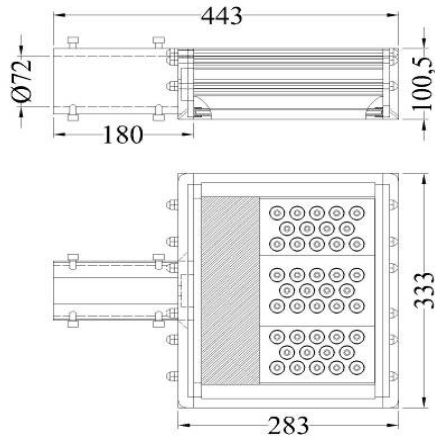
Ordering Information

Product Number	A-6830-042-CR5
Product Name	Lucas I 42
Product Ordering Name	Lucas Street Light 42LED 50W CR5
Pieces Per Pack	1
Packs Per Carton	1
Net Weight Per Piece	6.5 Kg

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SoLED Solar Light

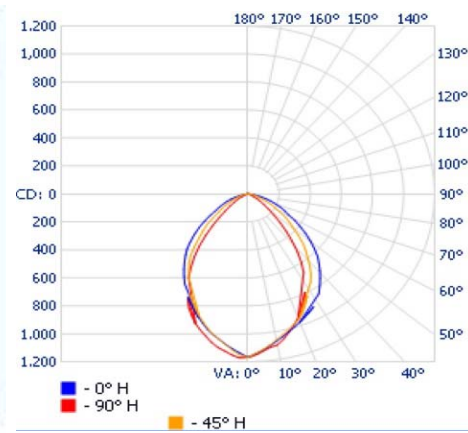


Light Distribution Characteristics

Pole Height: 5-6 Meters



Polar Candela Distribution



Pole to Pole Distance: 12-15 Meters



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U-Tron Solar Street Lighting System: Options

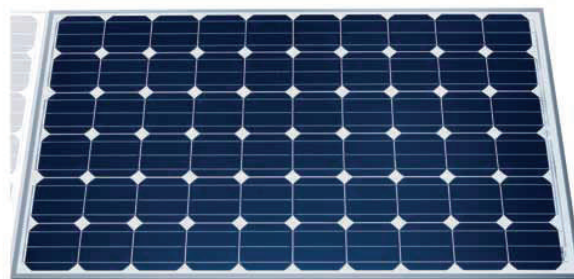
Solar Panel

Features:

1. Built for all weather types, comes with integrated water drainage holes
2. All corners are framed, limiting the number of screws, which increases the life expectancy.
3. Very low maintenance because of sealed junction box

Solar Panel 60W

Part Number: 6830-100-SP60



<u>Technical Specifications</u>	
Material	Mono/Polycrystalline Silicone
Max. Power	60 Watts
Dimension 60 Watts Panel	758mm*670mm*35mm
Weight	6 Kg
Optimum operating voltage (Vmp)	17.2V
Optimum operating current (Imp)	3.49A
Open-circuit voltage (Voc)	21.6V
Short-circuit current (Isc)	3.86A
Operating temperature	-40°C - 85°C
Maximum system voltage	600V DC
Power tolerance	± 3%

U-Tron Solar Street Lighting System: Options

Cabinet

Features:

1. Design to in-house the controller and the battery.
2. Portable and lightweight, so it can be placed anywhere and moved whenever necessary.
3. Can be mounted both on the pole as well as on the ground

Solar Cabinet

Part Number: 6830-150-C4U



Technical Specifications

Water Proof	Yes
Pole/Ground Mounted	Optional
Working Temperature Range	-20°C - 60°C
Dimensions	500*400*220 mm
Net Weight	8 Kg

U-Tron Solar Street Lighting System: Options

Batteries

Features:

1. High corrosion resistant performance: Pb-Ca Multi-alloy grid
2. Patented Silicate compound electrolyte; Minor acid vapor & Environmentally friendly
3. High energy and power density
4. Excellent charge acceptance ability
5. Strong high & low temperature performance
6. Optimized capability of instant High-current discharging

Battery I: 36 Ah

Part Number: 6830-130-B36



Battery II: 65 Ah

Part Number: 6830-130-B65



Technical Specifications

Nominal Capacity	40/65 Ah
Voltage	12V
Dimensions 36 Ah battery	196*131*166 mm
Dimensions 65 Ah battery	350*166*176 mm
Weight 36 Ah battery	11.5 Kg
Weight 65 Ah battery	23 Kg

U-Tron Solar Street Lighting System: Options

Controllers

Features:

1. 12/24V automatic recognition
2. High efficient Series PWM charging, which increases the battery life-time and improves the solar system performance.
3. Electronic protection against: overheating, overcharging, over discharging, overload and short circuit.

Controller 20 Ampere

This controller comes with programmable switches to select number of hours of operation and other functions. For more details please see the manual at the end of this catalog.

Part Number: 6830-121-C20



Hybrid Controller

This controller can keep the light working from the grid even if there hasn't been sunlight for a few days to charge the batteries.

Part Number: 6830-180-S0



Technical Specifications

Nominal System Voltage	12 / 24VDC Auto work
Battery Voltage Range	6-36V
Charge Circuit Voltage Drop	≤0.26V
Discharge Circuit Voltage Drop	≤0.15V
Self-consumption	≤6mA
Max. Output Power (Hybrid)	60W
AC Input Voltage (Hybrid)	AC 170-264V
Rated Charging Current (Hybrid)	10A
Rated Load Current (Hybrid)	5A

U-Tron Solar Street Lighting System: Options

Cables

Features:

1. Dual wall insulation, cross linked electron beam
2. Excellent resistance to U.V., oil greases, oxidation and ozone
3. Halogen free, flame retardant, low toxicity
4. Excellent flexibility and stripping performance and excellent resistance to abrasion

Cable 50 M

Part Number: 6830-160-C15



<u>Technical Specifications</u>	
Temperature Range	-60°C~ +200°C
Rated Voltage	450/750V
Conductor Material	Tin-plated Copper
Outer Dimension	8.7 mm
Insulation Material	Silicone
Outer Dimension	11±0.4 mm
Jacket Material	Rubber
Outer Dimension	13.5±0.4 mm

U-Tron Solar Street Lighting System: Options

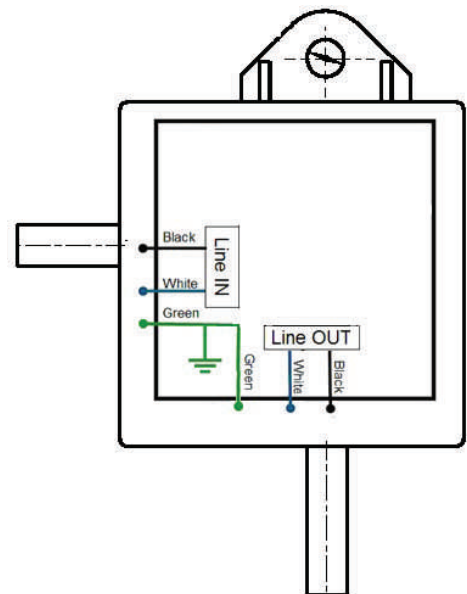
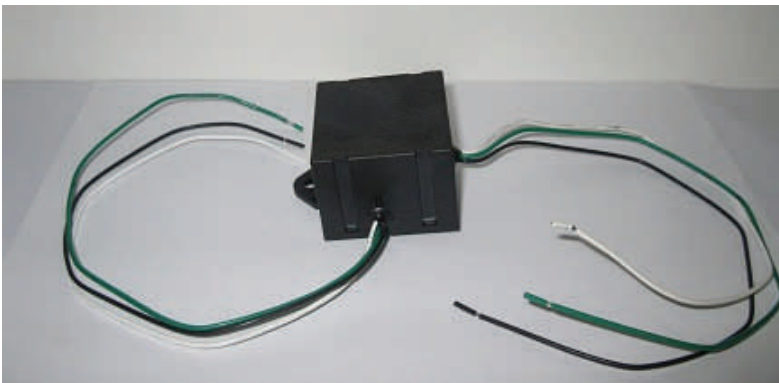
Lightning Arrester

Features:

1. Protects the installation from lightning damage
2. Helps equipment meet IEC61000-4-5 Class 4 requirements
3. Big coverage; only one unit per cluster required

Lightning Arrester

Part Number: 6830-160-LA1



Technical Specifications

Max. Voltage (V)	227 VAC
Max. Current (A)	1.25
Max. Surge (8/20US) Current (A)	1 hit: 10000 2 hits: 6500
MOV	CSA, VDL, UL 1414/1449 recognized
PPTC	CSA, TUV, UL 1434 recognized
Wire	18AWG, 600V insulation
Enclosure	UL94 54A rated

U-Tron Solar Street Lighting System: Options

Solar Panel Bracket & Steel Pole

Features:

1. Both Bracket and Pole are hot-dip galvanized to avoid corrosion
2. High quality steel to ensure endurance
3. Color can be adapted per request

Solar Panel Bracket

Part Number: 6830-140-S0



Steel Pole

Part Number: 6830-110-S0



Technical Specifications

Material (Bracket)	Aluminum Al 6005-T5 & SUS 304
Material (Pole)	Q235 Steel
Anticorrosive	Hot galvanized
Install Angle (Bracket)	0-60 degree
Wind load (Bracket)	130 mph (60m/s)
Dimensions (Bracket)	Adaptable to solar panel of choice
Pole height	5 - 7 m
Pole diameter	4" (upper), 6" (lower), 14" (base)

U-Tron Solar Street Light: New Product Coming Soon!



Evening Star will be a great addition to the existing range of Solar Street Lights, offering the perfect solution for situations that require medium pole height lighting.

Our Evening Star light will be available in two versions; with 10 or 20 LEDs.

Make sure to visit our website www.u-tron.com for the latest information!



U-Tron Warranty

U-Tron (Beijing) Electronics Co. Ltd., warrant the products listed below for a period of 36 months from the date of shipment to be free from defects in material or workmanship and to be of the kind and quality designated or specified in the purchase agreements. If any products do not meet the above warranty and the buyer promptly files a warranty claim U-Tron shall do the following:

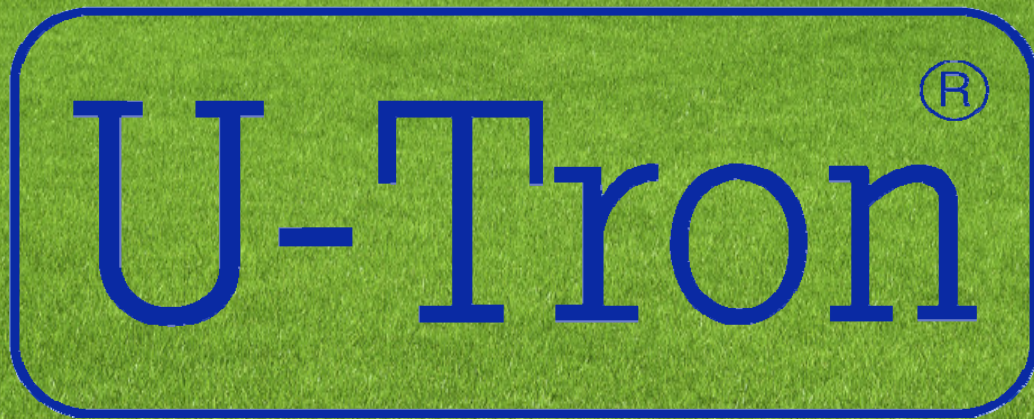
1. U-Tron shall provide a 12 month "No Questions Asked" replacement of any faulty units at no charge to the customer. The time limit for exchange shall not exceed 30 days from the time a claim is filed by the buyer. The buyer shall return the faulty units within 30 days of filing the claim. The method of returning the faulty units to U-Tron shall be decided at that time by U-Tron and all shipping charges shall be borne by U-Tron.
2. At the end of the 12 month period U-Tron shall provide additional free extended warranty for another 24 months. During this 24 month period U-Tron shall repair or replace and re-certify all faulty units returned. Shipping charges for sending the units to U-Tron shall be the responsibility of the Buyer and the Shipping charges to return the repaired goods to the buyer shall be borne by U-Tron. Time limit for repairs shall not exceed 60 days.
3. The warranties set forth herein shall be voided if the units have been 1) repaired or altered by any un-authorized person 2) subjected to misuse, negligence and accidents or operated in other than normal operation and use. 3) Connected, installed or modified in a manner not in accordance with U-Tron instructions.
This warranty is applicable to all LED Products.
4. U-Tron at our own option can elect to provide replacement units at any desired percentage to be warehoused and logged by the buyers for timely service of the extended warranty replacements. When the warranty expires the bad units and the unused spare parts items shall be shipped back to U-Tron unless otherwise stipulated in the contract or purchase agreements. If the warehoused quantities become 90% used up or nearing the end of stock, the buyers shall ship back the faulty units to U-Tron. U-Tron shall rotate the spare parts inventory within 60 days of receiving from the buyers.
5. All warranty claim items shall be shipped to the buyers regardless of the geographical location, by air freight to the nearest airport or courier service to the customer site, and any returning items can be shipped by sea or air freight at the request of U-Tron. If the customer fails to return the said faulty units within the time frame as instructed, it will be considered as sold and U-Tron reserve the rights to bill the customer for its full value.
6. U-Tron shall not bear any responsibilities with the buyer's customer claims or shall not bear any other expenses incurred other than the units cost itself. Customer site un-installation and re-installation of any faulty units shall not be the responsibility of U-Tron.

U-Tron LED Lights

Save Energy, Save the World!



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