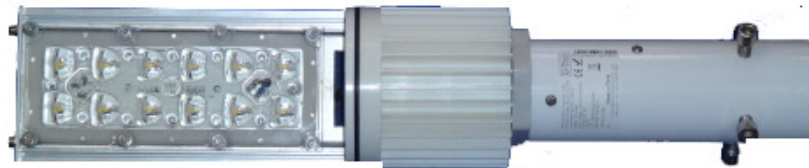




Version

3

LeDiwali Solar & AC Lights Technical and Installation Guide



Designed, developed and manufactured by

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



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KEY

APPLICATION

Road Ways

Tunnels and Under Bridge

Bridges and Overpass

Open Air Car Parks

Platforms

LeDiwali Lights for Solar or AC

The U-Tron LeDiwali Lights are made of the light weight high-power waterproof LeDiwali modules. A perfect solution for lighting up the streets and lanes in every village. With over 2000 lumens you get a wide coverage of illumination no other Florescent, Incandescent or Sodium vapor lights have done before.

Designed from the bottom up as a totally optimized LED street light system, the LeDiwali Series redefines municipal lighting in many Indian cities. It's easy to force a LED bulb inside an existing light fixture and expect everything to work "well" and look "perfect". But it's not the case in the real world. The old fashion lamps are made to contain the heat inside the lampshade and LED on the other hand must let the heat evaporated as soon as possible to keep the LEDs from overheating. We made the LeDiwali lights for those who cannot afford to waste any more electricity.

At U-Tron we design lamps that bring out LED's advantages rather than fighting to sustain their weaknesses. At U-Tron "we do LEDs right".

Technical Specifications

Le Diwali :

Diwali Lights are equipped with Lens and reflectors and sealed to meet IP68. The power supply and Driver are U-Tron proprietary design to meet the dimming and warranty of 3 years.



General Information

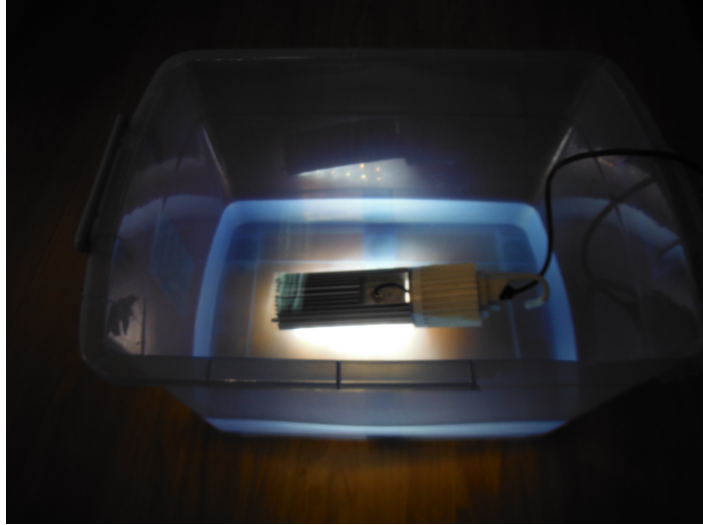
ORDERING PART NUMBERS

68LD-012-CR4PM

68LD-012-CR4E40

68LD-012-CR4E40PC

68LD-012-CR4PMPC



LeDiwali lights without the protective cover are good for wet areas.
IP68








LeDiwali 12 with E40 Socket
68LD-012-CR4E40



LeDiwali with cover and pole mount.
68LD-012-CR4PMPC
IP65

Solar and AC powered LeDiwali Street Lights

	Power Source	Solar		A/C		
General	Photo					
	Product Name	LeDiwali Street Light	LeDiwali E40	LeDiwali Street Light	LeDiwali Street Light With Cover	LeDiwali E40
	Part Number	68LD-S12-CR4PM	68LD-S12-CR4E40	68LD-A12-CR4PM	68LD-A12-CR4PMPC	68LD-A12-CR4E40
Electrical	Input power	Solar	-	85-260 VAC	85-260 VAC	85-260 VAC
	Rating of the lamp in watts	20	20	20	20	20
	Dimming technology	PWM	PWM	TRIAC Dimming	TRIAC Dimming	TRIAC Dimming
	Driver loss in watts	0	0	2	2	2
	Socket Type	Hard Wire	E40	Hard Wire	Hard Wire	E40
Solar / Battery	Solar Panel Size (in Watt)	60	20	-	-	-
	Controller Type	Dawn-to-Dusk	On/Off	Manual Switch	Manual Switch	Manual Switch
	Controller Current rating (Ampere)	10	10	700mA	700mA	700mA
	Battery Type	Li-Ion/Gel	Li-ion/Gel	-	-	-
	Internal Battery (Ah)	2	2	-	-	-
	External Battery (Ah)	40	40	-	-	-
	Autonomy (Days)	2	2	-	-	-
Certifications		CE, RoHS, CQC				

Continue on Next page

Solar and AC powered LeDiwali Street Lights

	Power Source	Solar		A/C		
General	Product Name	LeDiwali Street Light	LeDiwali E40	LeDiwali Street Light	LeDiwali Street Light With Cover	LeDiwali E40
	Part Number	68LD-S12-CR4PM	68LD-S12-CR4E40	68LD-A12-CR4PM	68LD-A12-CR4PMPC	68LD-A12-CR4E40
Light Characteristics	Flux @ CCT 6000K	2000	2000	2000	2000	2000
	Flux @ CCT 3000K	1840	1840	1840	1840	1840
	Efficacy @ 6000K	100	100	100	100	100
	Efficacy @ 3000K	92	92	92	92	92
	Color rendering Index	75-80	75-80	75-80	75-80	75-80
	Optical Control	PMMA Lens	PMMA Lens	PMMA Lens	PMMA Lens	PMMA Lens
	Average life in burning hours	50,000	50,000	50,000	50,000	50,000
Installation & Environmental ratings	Operating Ambient Temperature	-30 to +45	-30 to +45	-30 to +45	-30 to +45	-30 to +45
	IP	65	65	68	68	66
	Mounting Pole Height (meter)	4	4	4	4	4
	Mounting Pole Inner Diameter	2 inch	2 inch	2 inch	2 inch	2 inch
	Operating Ambient Temperature Centigrate	-30 to 45	-30 to 45	30 to 45	-30 to 45	30 to 45
	Pole to Pole distance	20-30	20-30	20-30	20-30	20-30
Size mm	480 x 100 x 100	340 x 100 x 100	480 x 100 x 100	480 x 100 x 100	340 x 100 x 100	480 x 100 x 100
Weight Kg	1.65	0.865	1.65	1.65	0.865	1.65

The Light distribution

The LeDiwali street lights deliver the best light distribution you can find in the industry today The Lens and PCB assembly are the industry most advanced light distribution and water resistance you can find today. And the light loss is less than 7%. And the lens is made of PMMA

KEY MODELS

20 Watt LeDiwali with 12 High

Power Chips for AC and DC

68LD-S12-CR4PM

68LD-S12-CR4E40

68LD-S12-WQ5PM

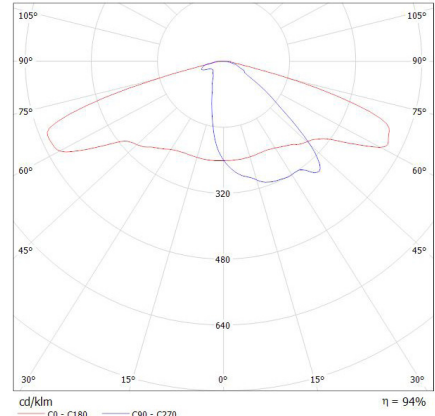
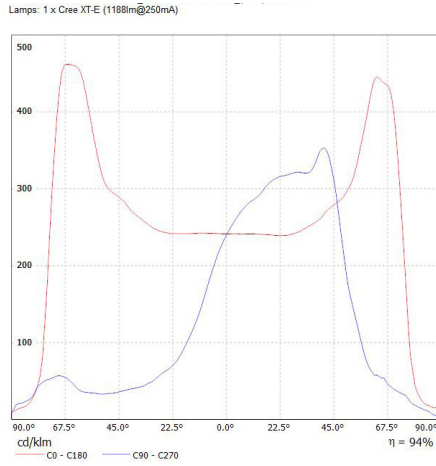
68LD-S12-WQ5E40

68LD-A12-CR4PM

68LD-A12-CR4E40

68LD-A12-WQ5PM

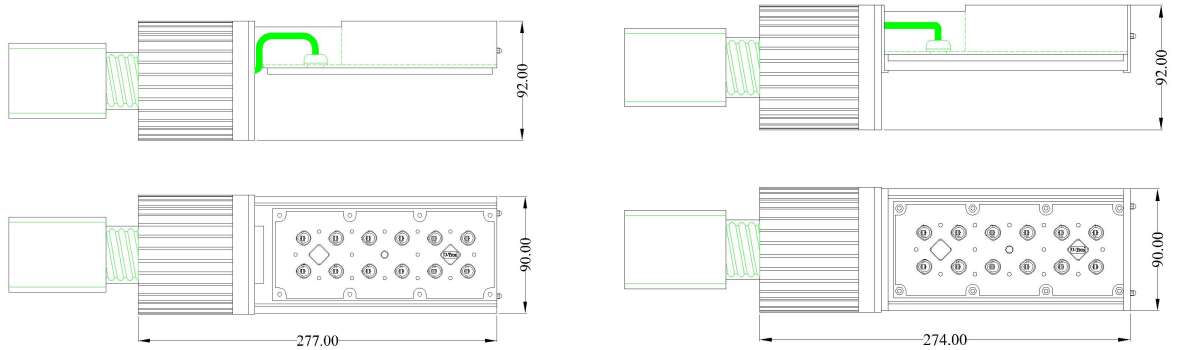
68LD-A12-WQ5E40



The LED Chips

Le Diwali Lights utilizes the latest technology from Cree XT-E Please refer to the LM80 Test report provided in this document.

Mechanical Drawings



Installation Information

The LeDiwali lights will fit most light pole that is 1.5 inch Outer diameter. The 3 M8 screws needs a (supplied) HEX key to fasten to the pole



Warranty

U-Tron (Beijing) Electronics Co. Ltd., warrant the products listed bellow 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 dose not meets the above warranty and the buyer promptly files a warranty claim U-Tron shall do the following:

U-Tron shall provide a 12 months “**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 buyers. The buyers shall return the faulty units within 30 days of filing the claim. The method of shipping back 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.

At the end of the 12 month period U-Tron shall provide additional free **extended warranty** for another 24 months. During this 24 months time U-Tron shall repair or replace and re-certify every faulty units reported. Shipping charges for sending the units to U-Tron shall be the responsibility of the Buyers 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.

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 units 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 with in 60 days of receiving from the buyers.

All warranty claims items shall by shipped to the buyers regardless of the geographical location, by air freight to the nearest airport, 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 with in 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.

U-Tron shall not bare any responsibilities with the buyers customer claims or shall not bare any other expenses incurred other than the units cost it self. Customer site un-installation and re-installation of any faulty units shall not be the responsibilities of U-Tron.

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.