

# Specifications

## Street Light T3A Series



### Features

- Modular pluggable technology, easy-tool onsite maintenance;
- Honeycomb briquette burning effect and the whole structure cooling technology;
- Double-coupling IP68 protection for module, highest waterproof level;
- Ergonomic lighting distribution to achieve uniform illuminating effect;
- Free modular serialization and various power solutions.

### Applications

- Street lighting, park lighting, roadway lighting, path lighting.



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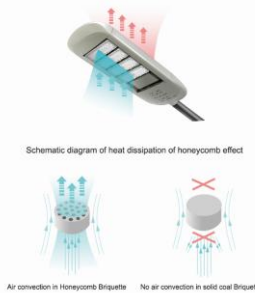
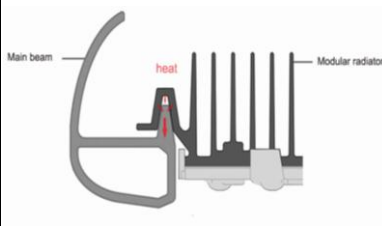




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## Special Technical Advantages of HPWINNER Modular Lights

 <p><b>Honeycomb Briquette effect</b> It simulates and adopts the burning principle of honeycomb briquette; it is easy to transform the original block of radiator to various modules, as well as to enable air to convect and fully pass through the gaps between modules by utilizing the honeycomb effect, thus to remove the heat rapidly, and reduce temperature by around 20 °C.</p>	 <p><b>Heat dissipation of the whole structure</b> It is available to make clever use of module bracket that only play a supporting role, and to transform it to a "thermal bracket" that is capable of conducting the module's heat to the light shell as a structural part, thus to promote the cooling effect of radiator of cooling module, the design aims to fully utilize the surface area of structural parts to transfer heat to air.</p>	 <p><b>Easy-tool maintenance</b> It uses special structural design to achieve the manual disassembly and installation of lighting components, in consideration that the high-power lights are generally installed in higher operating environment, the operators require as few tools as possible for their convenience and security.</p>
 <p><b>Double-coupling IP68 protection</b> It adopts the screw-free structure to avoid the penetration of water vapor through the screw hole; its double silicon-rubber rings insulate LEDs with the outside environment completely, thus to eliminate any erosion to chips and PCB boards from outside.</p>	 <p><b>LUXEON T</b> A bright, versatile and high efficacy emitter</p> <p><b>High-efficacy LED Light source</b> It adopts Lumileds LUXEON T LED source with super efficacy and light output from a compat source. Optimized for efficacy driven applications with typical Vf: 2.7V and low thermal resistance: 3K/W. Specified, targeted and tested hot, at real world operating temperatures, Tj=85°C to ensure in-application performance.</p>	 <p><b>Free Serialization</b> It is available to freely equip with different numbers of modules to achieve different powers as required.</p>

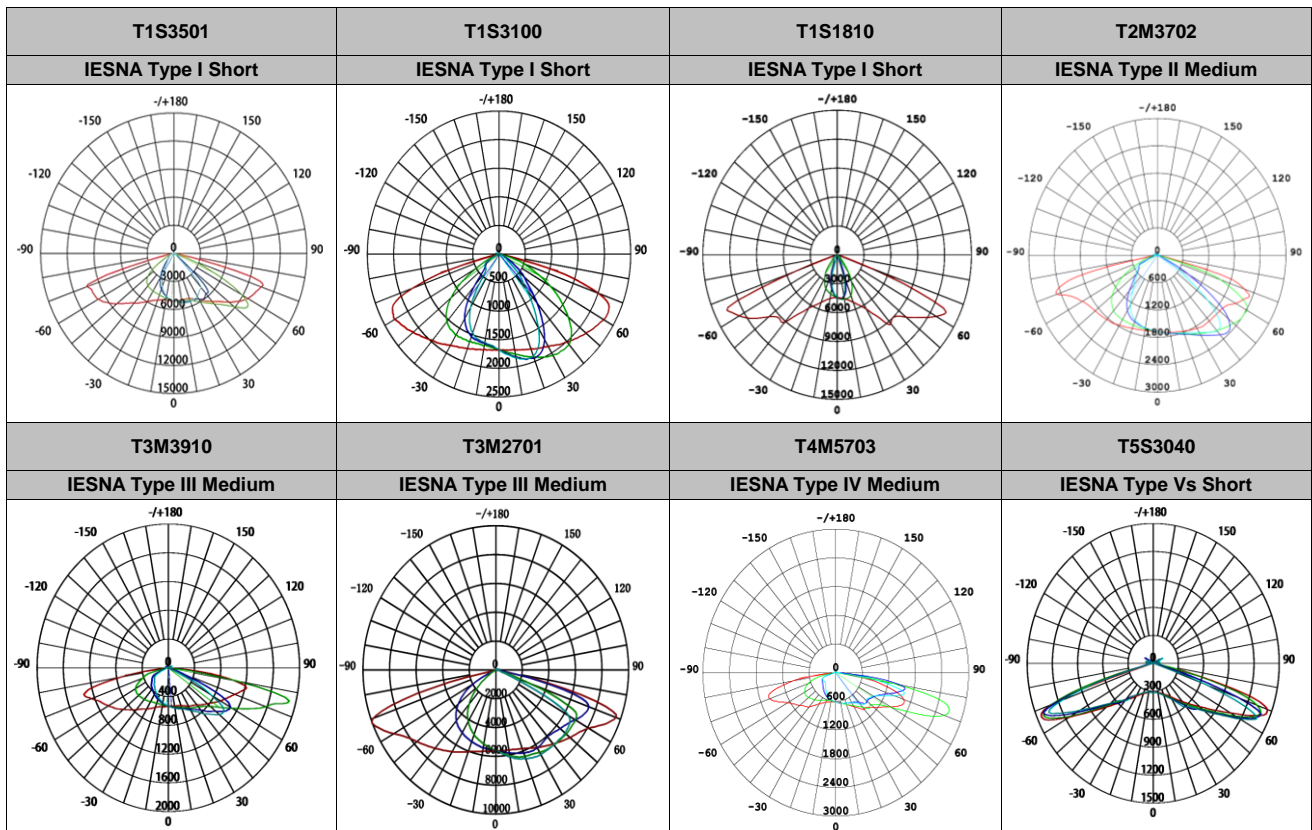
## Electrical and Photometric Specification

Model	Input Voltage (V)	Driving Current (mA)	Power (W)	Luminous Efficacy (lm/W)	Flux (lm)	Power Factor	Power Efficiency	Beam Angle	LED Brand	CCT (K)	CRI
T3A-2	AC100-277	700	80	110±5	8800±400	0.95	91%	Type I, II, III, IV, VS	Lumileds Luxeon T	3000,4000, 5000,5700	>70
		860	100	105±5	10500±500						
		1050	120	100±5	12000±600						
T3A-3	AC100-277	700	120	110±5	13200±600	0.95	91%	Type I, II, III, IV, VS	Lumileds Luxeon T	3000,4000, 5000,5700	>70
		860	150	105±5	15750±750						
		1050	180	100±5	18000±900						
T3A-4	AC100-277	700	160	110±5	17600±800	0.95	91%	Type I, II, III, IV, VS	Lumileds Luxeon T	3000,4000, 5000,5700	>70
		860	200	105±5	21000±1000						
T3A-5	AC100-277	700	200	110±5	22000±1000	0.95	91%	Type I, II, III, IV, VS	Lumileds Luxeon T	3000,4000, 5000,5700	>70
		860	250	105±5	26250±1250						

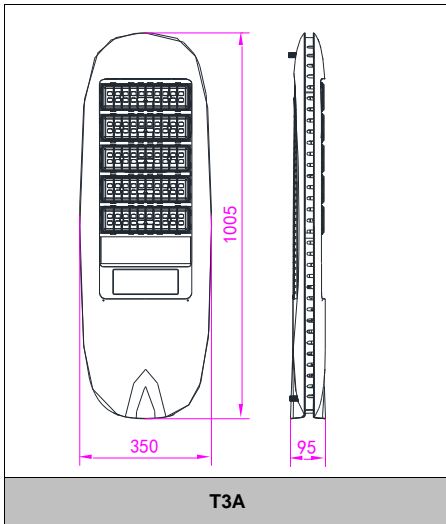
## Mechanical and Environmental Specification

Model	Working Environment	Storage Temperature	Lumen Maintenance (h)	Housing Material	Pole Diameter (mm)	Product Size (mm)	Packing Size (mm)	N.W (kg)	G.W (kg)
T3A-2	-40℃~+50℃, 10%~90%RH	-40℃~+50℃	>50,000	Aluminum Alloy	57-63	1005*350*95	1080*430*130	8.6	10.1
T3A-3						1005*350*95	1080*430*130	9.2	10.7
T3A-4						1005*350*95	1080*430*130	10.4	11.9
T3A-5						1005*350*95	1080*430*130	11.1	12.6

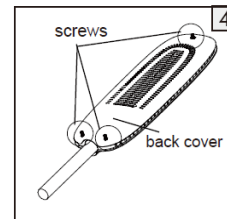
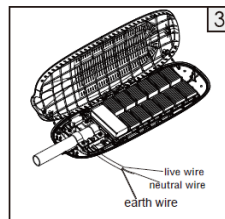
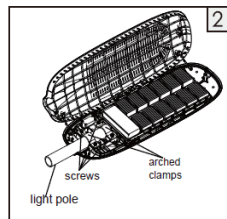
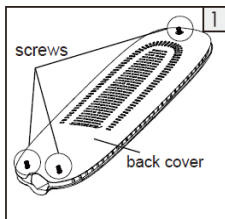
## Lighting Distribution



## Dimensions



## Installation



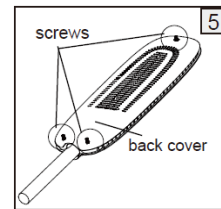
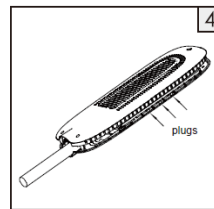
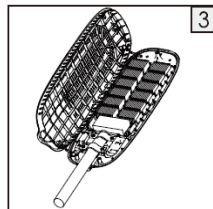
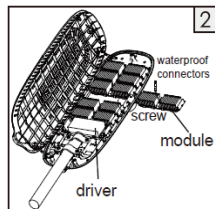
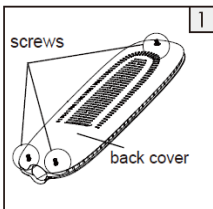
**Step 1:** Loosen the 3 screws on the back cover, then open the back cover;

**Step 2:** Loosen the 4 screws on the 2 arched clamps, insert and fix the cross arm under the 2 arched clamps, and then tighten the 4 screws;

**Step 3:** Connect the wires to the AC wires. (The earth wire should be reliable and linked to the ground);

**Step 4:** Close the back cover and tighten up the 3 screws on it.

## Maintenance



**Step 1:** Loosen the 3 screws on the back cover, then open the back cover;

**Step 2:** Disconnect the waterproof connectors and screws at both ends, and take out the failed module(s)/driver(s);

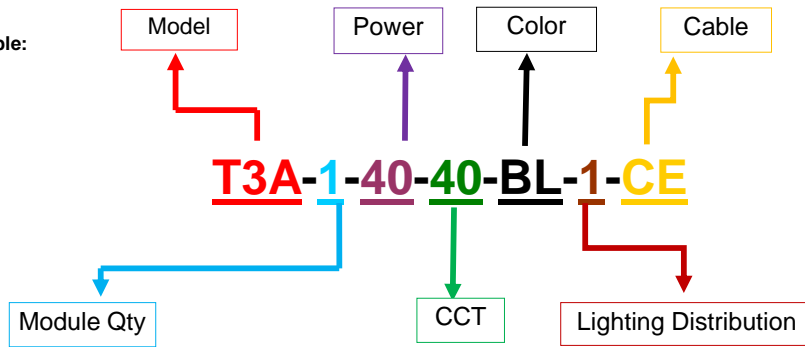
**Step 3:** Replace the failed module(s)/driver(s) with qualified one(s), and then tighten the screws and the waterproof connectors;

**Step 4:** Make sure the plugs match to each other well;

**Step 5:** Make sure the plugs match to each other well.

## Ordering Information

For Example:



Model	Module Qty	Power	CCT	Color	Lighting Distribution	Cable
T3A	2 3 4 5	80/100/120 120/150/180 160/200/240 200/250/300	30=3000K 40=4000K 50=5000K 57=5700K	BL=Blue	1=T1S3501 2=T1S3100 3=T1S1810 4=T2M3702 5=T3M3910 6=T3M2701 7=T4M5703 8=T5S3040	GB=Chinese Standard CE=European Standard UL=North American Standard