Specifications

Flood Light TF31A Series

Features

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

Applications

- Warehouse, factory, Sports facilities …

LEDUS
LED Lighting

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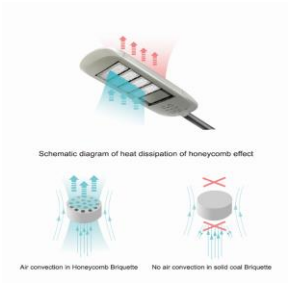
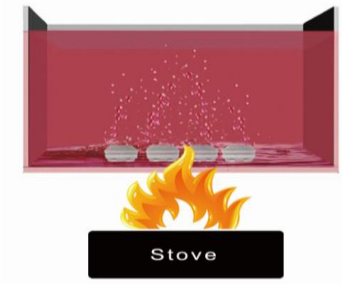
Special Technical Advantages of HPWINNER Modular Lights



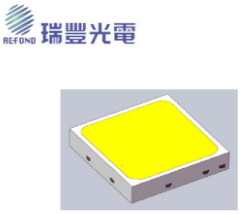
Honeycomb Briquette effect
It simulates and adopts the burning principle of honeycomb briquette; it is easy to transform the original block of radiator to various modules, as well as to enable air to convect and fully pass through the gaps between modules by utilizing the honeycomb effect, thus to remove the heat rapidly, and reduce temperature by around 20 ℃.

Heat dissipation of the whole structure
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.

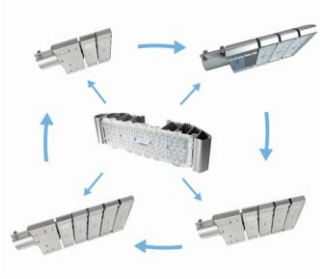
Easy-tool maintenance
It uses special structural design to achieve the manual disassembly and installation of lighting components, in consideration that the high-power lights are generally installed in higher operating environment, the operators require as few tools as possible for their convenience and security.



Double-coupling IP68 protection
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.



EMC Package
Extremely wide viewing angle
Suitable for all SMT assembly and solder process
Moisture sensitivity level: Level 2
RoHS compliant



Free Serialization
It is available to freely equip with different numbers of modules to achieve different powers as required.

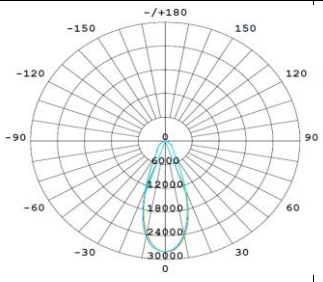
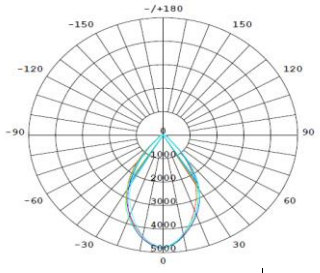
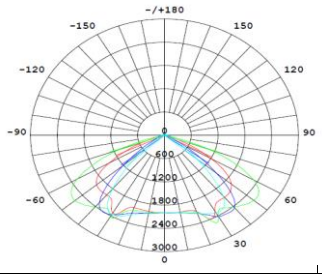
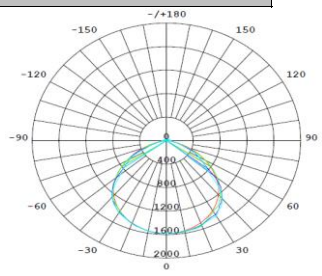
Electrical and Photometric Specification

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
TF31A-1	AC100-277	700	40	105±5	4200±200	0,95	88%	25°,40°, 60°, 90°, Lambertian	REFOND 2525	3000,4000, 5000,5700, 6500K	>70
		860	50	100±5	5000±250						
		1050	60	95±5	5700±300						
TF31A-2	AC100-277	700	80	105±5	8400±400	0,95	91%	25°,40°, 60°, 90°, Lambertian	REFOND 2525	3000,4000, 5000,5700, 6500K	>70
		860	100	100±5	10000±500						
		1050	120	95±5	11400±600						
TF31A-3	AC100-277	700	120	105±5	12600±600	0,95	91%	25°,40°, 60°, 90°, Lambertian	REFOND 2525	3000,4000, 5000,5700, 6500K	>70
		860	150	100±5	15000±750						
		1050	180	95±5	17100±900						
TF31A-4	AC100-277	700	160	105±5	16800±800	0,95	91%	25°,40°, 60°, 90°, Lambertian	REFOND 2525	3000,4000, 5000,5700, 6500K	>70
		860	200	100±5	20000±1000						
TF31A-5	AC100-277	700	200	105±5	21000±1000	0,95	91%	25°,40°, 60°, 90°, Lambertian	REFOND 2525	3000,4000, 5000,5700, 6500K	>70

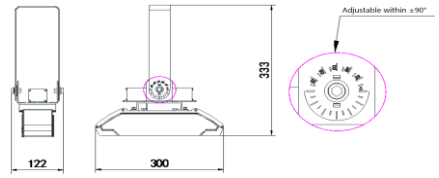
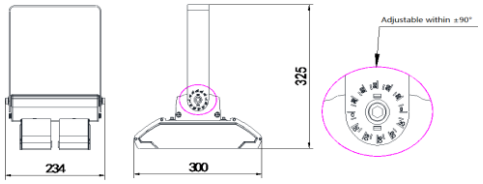
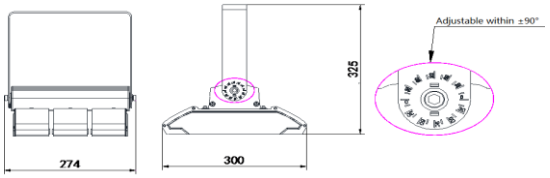
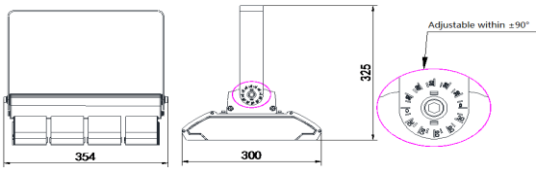
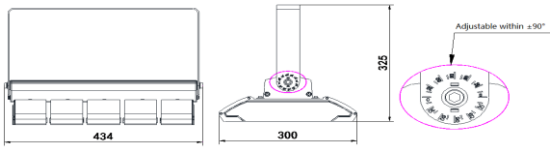
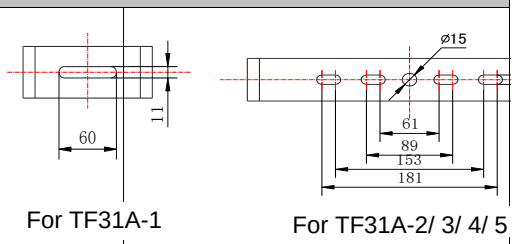
Mechanical and Environmental Specification

Model	Working Environment	Storage Temperature	Lumen Maintenance (h)	Housing Material	Product Size (mm)	Packing Size (mm)	N.W (kg)	G.W (kg)
TF31A-1	-40℃～+50℃ 10%～90%RH	-40℃～+50℃	>50,000	Aluminum Alloy	122x300x333	415x155x200	2.01	2.56
TF31A-2					234x300x325	415x315x190	3.75	4.45
TF31A-3					274x300x325	415x315x190	4.30	5.15
TF31A-4					354x300x325	415x395x190	5.17	6.11
TF31A-5					434x300x325	415x475x190	6.10	7.22

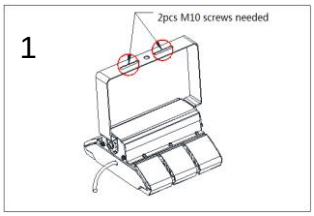
Lighting Distribution

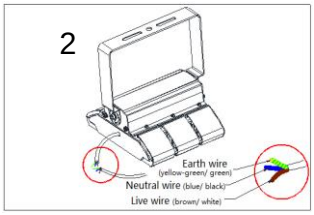
Lighting Distribution	40°	60°
		
	90°	**Lambertain**
		

Dimensions

	
TF31A-1	**TF31A-2**
	
TF31A-3	**TF31A-4**
	
TF31A-5	**Mounting bracket**

Installation

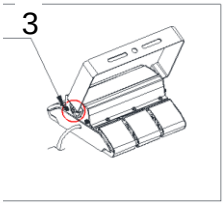




Whether the luminary is earthed sufficiently?

To test voltage with a multimeter.

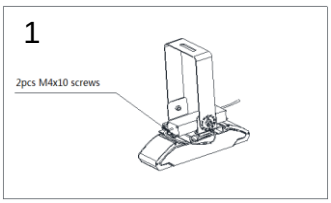
Red pen to live wire, and black pen respectively to neutral and earth wire. If the voltage values are the same, it is earthed sufficiently; otherwise not.

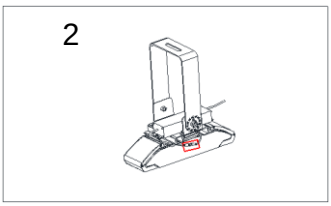


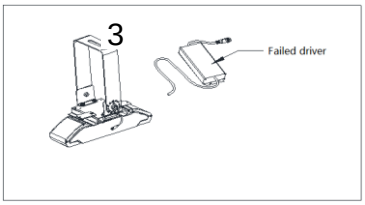
Step 1: *Fix the bracket on the mounting surface with tw M10 screows;*
Step 2: *Connect the wires to the AC input (make sure it earthed sufficiently);*
Step 3: *Lossen the M8 screws and adjust the mounting angle of the bracket, then tighten the M8x20 screws.*

Maintenance

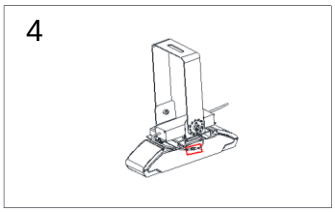
Driver Maintenance

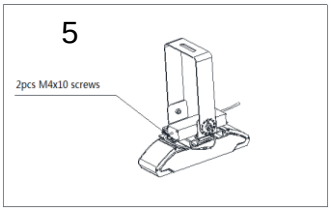






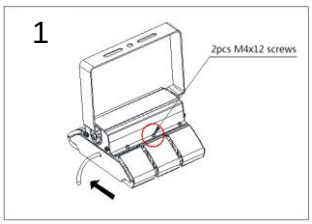
Step 1: *Loosen the screws at the ends of the driver and SPD;*
Step 2: *Loosen the connector between the driver and the female waterproof connectors;*
Step 3: *Take out the failed driver;*

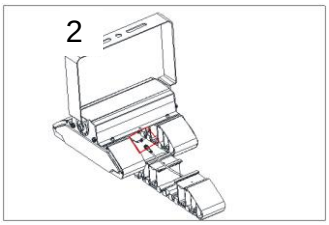


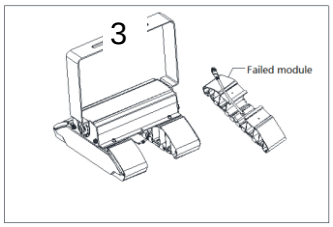


Step 4: *Replace with a new driver and tighten up the connector to the female connectors;*
Step 5*: Tighten up the screws on the ends of the driver and SPD;*

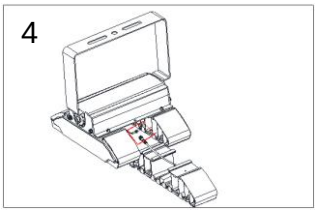
Module Maintenance

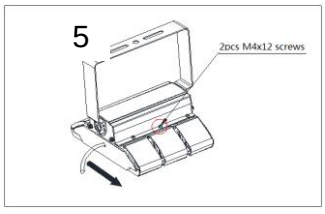






Step 1: *Loosen the two M4x12 screws, and slide the module out in the direction of the arrow;*
Step 2: *Disconnect the module from the female waterproof connectors;*
Step 3: *Take out the failed module;*

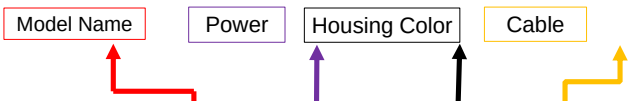


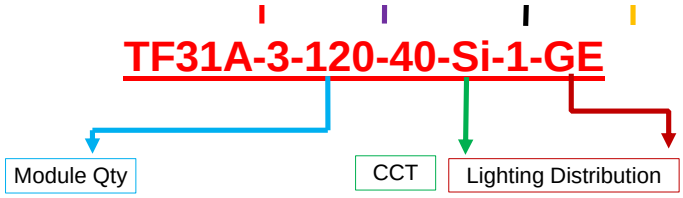


Step 4: *Replace the module with a new one, and tighten up the waterproof connector;*
Step 5: *Slide the module in the direction of the arrow, fix it into the groove of main beam, and tighten up the two M4x12 screws.*

Ordering Information

For Example:





Model Name	Qty of Modules	Power	CCT	Colors	Lighting distribution	Cable
TF31A	1 2 3 4 5	40/50/60 80/100/120 120/150/180 160/200 200	30=3000K 40=4000K 50=5000K 57=5700K	Si=Silver	1=40 degree 2=60 degree 3=90 degree 4=Lambertian Pattern	GB=Chinese Standard CB=European Standard UL=North American Standard