Jasper Technologies International LLC

Technical Specification

for

Double IP68 High Power Modular LED High Bay Lights

Main Features:

Modular pluggable technology, tool-free onsite maintenance

Honeycomb briquette burning effect and the whole structure cooling technology

Double-coupling IP68 protection, higher waterproof level

“Ultra Robust” module technology, single LED's or unit’s damage doesn’t affect other units’ current

Multi-circuit constant-current driver, single module hot-pluggable

Ergonomic light distribution to achieve even illuminating effect

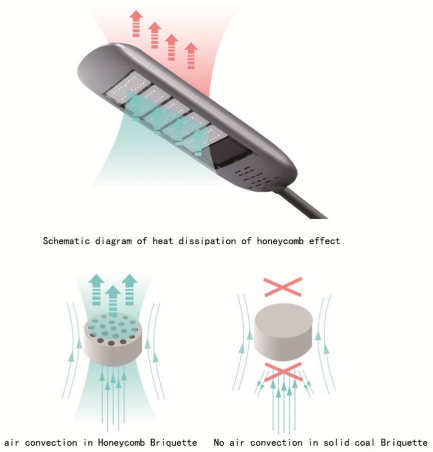
Free serialization and various power solutions

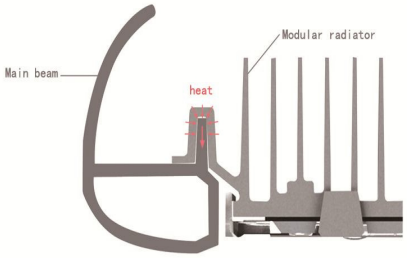
LUMILEDSareusedforthisseriesofHighBaylights.

Product Parameters

Model		JTI-F2AS-1	JTI-F2AS-2	JTI-F2AS-3
Operating Voltage		AC 90V-305V		
Power Efficiency		91%		
Power Factor		0.95		
LED Units (18LEDs per Module)		18PCS	18PCS×2	18PCS×3
System Power		50W	100W	150W
Luminous Efficacy of LED	Rebel ES-HIGH	85 lm/W		
	Rebel ES-MEDIAM	80 lm/W		
Initial Luminous Flux of Lights	Rebel ES-HIGH	4250lm	8500lm	12750lm
	Rebel ES-MEDIAM	4000lm	8000lm	12000lm
Temperature of Junctions(TJ)		<70℃		
Light Distribution Curve		Bat-wing		
Peak Lighting Angle		25°, 40°, 60°, 90°		
Color Temperature		4100K, 6000K		
CRI		Ra70±5		
Lighting Source		Philips-Lumileds		
Working Environment		－40℃～＋50℃, 10%～90%RH		
Storage Temperature		－40℃～＋50℃		
LED life span		＞50000 HRS		
Surge Voltage		4KV		
Body and shell materials		Aluminum Alloy		
Dimensions(mm)		105x290x180mm	190x290x180mm	270x290x180mm
Net Weight		2.1Kg	3.6Kg	4.8Kg
Certificates		TUV Rheinland / CE / ROHS		
Wind Index		Force 12		
IP Protection Grade		LED Module IP68, Power Supply IP67(UL listed)		
Quality Assurance /Warranty		5 years		
Remarks		Technical factors will be changed accordingly based on the LEDs used in the lights.		

Special Technical Advantages regarding the modules and structures



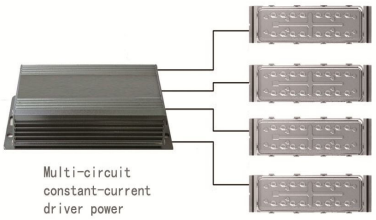


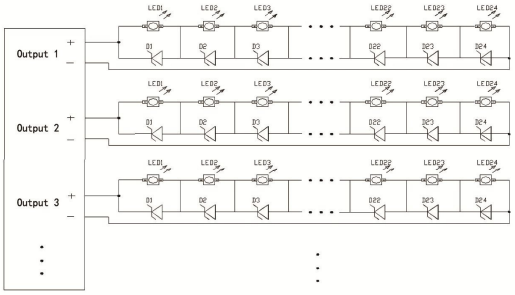
The heat is transferred to the main beam, and thus the main beam can promote the heat dissipation of radiator.

Honeycomb Briquette effect
Same like KELINA's Modular LED streer lights.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.

Tool-free maintenance
Use 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.





Independent multi-circuit constant-current output Each circuit is independently controlled; any failure in single circuit does not affect the normal work of other circuits. If a single LED unit is damaged, the current distribution is also even in the entire series and parallel structure, thus protect the whole system and make sure the life span as long as possible.

“Ultra Robust” module technology Each LED is equipped with bypass protection, to protect single-circuit structure of the full connection series, even open or short circuit fault can’t affect current and voltage distribution of other LED, the other LED can work under the normal operating mode, thus extending the life cycle of the whole module.

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.

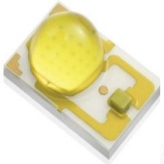
PHILIPS LUMILEDS

LUXEON NEVER BEFORE POSSIBLE

RoHS Compliant

LUXEON Rebel
General Purpose White
Portfolio

High flux
and color stability

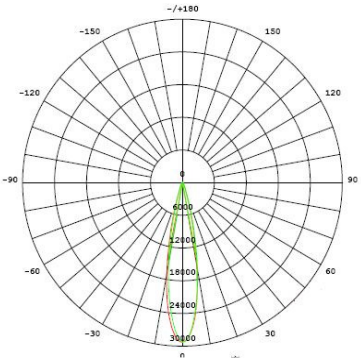


LUXEON Rebel ES

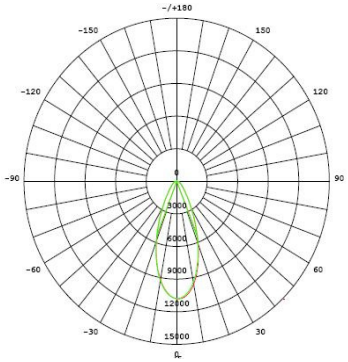
Superior efficacy
Leading lumen output
Ultimate design flexibility

LEDs Used: Rebel/Rebel ES

Light Distribution Curve

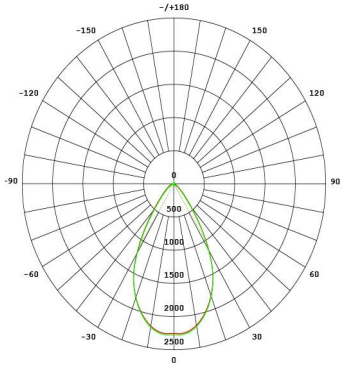


25° Light Distribution Cur

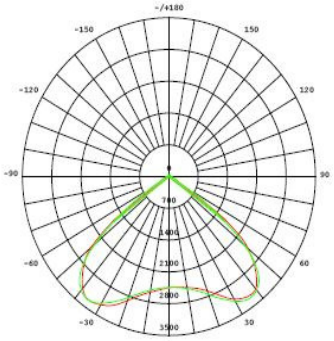


40°Light Distribution Curve

The light and color scheme of its products comply with road operators' visual habits. The products adopt equal brightness optical design in full consideration that it is unavailable to detect illumination by eye because human's eye is sensitive to brightness, thus not only eliminating the visual bright spots and dark spots on road surface, and also bringing road operators comfortable operation, as well as improving lights illumination and obtaining accurate detected values.

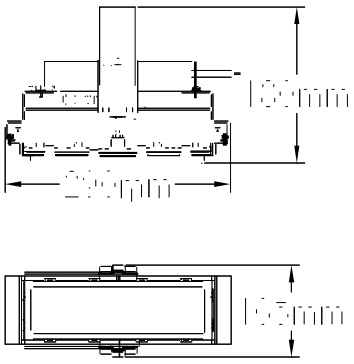


60° Light Distribution Curve

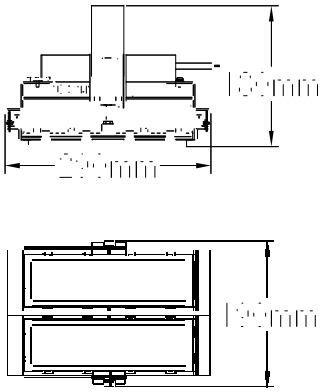


90° Light Distribution Curve

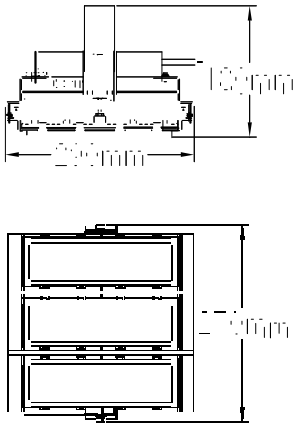
Product Drawings



KLN- TF2AS-1

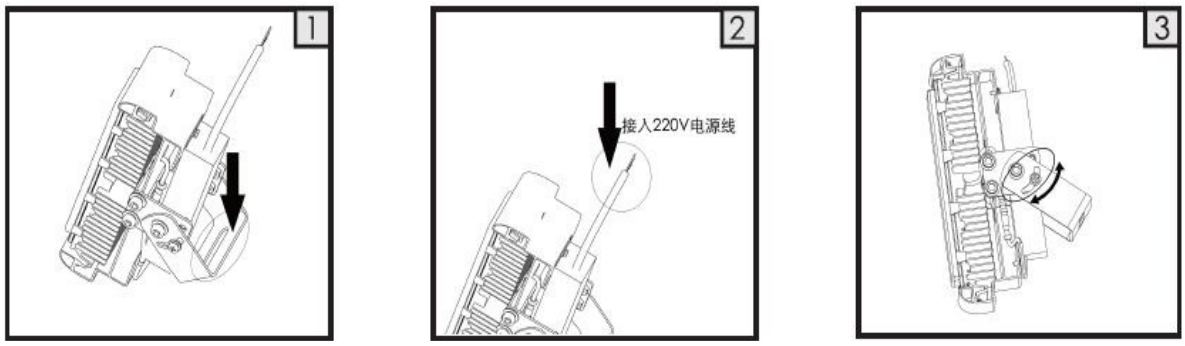


JTI-F2AS-2



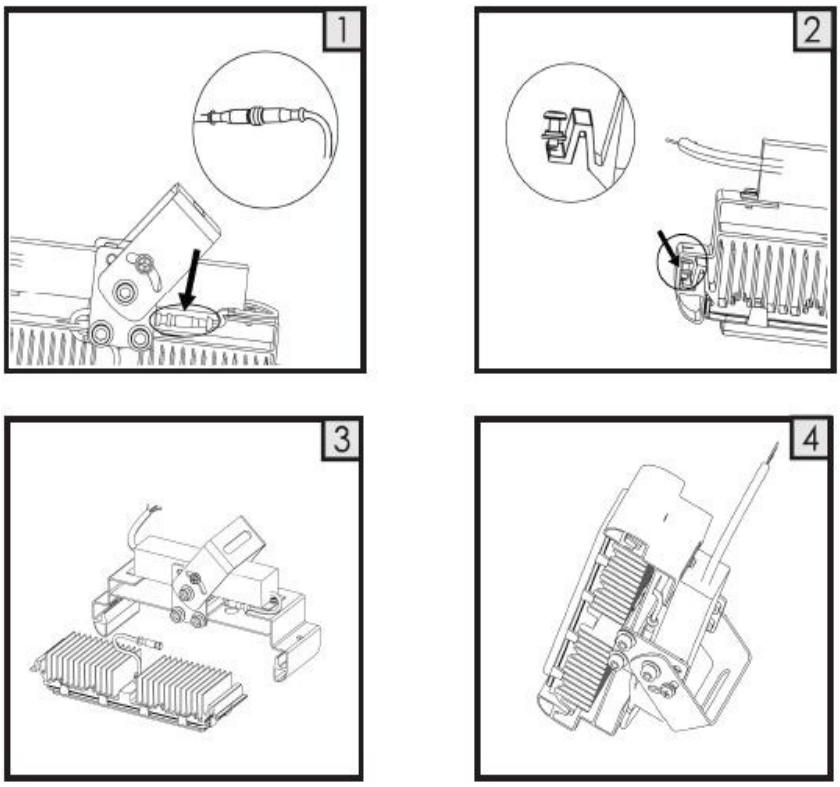
JTI-F2AS-3

Installation



Step 1: Installed to the wall;
Step 2: Connect the AC wire;
Step 3: Adjust the angle by the screws;

Maintenance



Step 1: Unscrew the waterproof connectors;
Step 2: Undo the screws at each end of module;
Step 3: Take out the modules and replace it with new one;
Step 4: Re-fasten up the module screws and tighten up waterproof connectors;