

# Specifications

## High Bay Light TF7A 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

- Convention, exhibition centers, gymnasiums, natatoriums, parking garages, airports, railway stations.



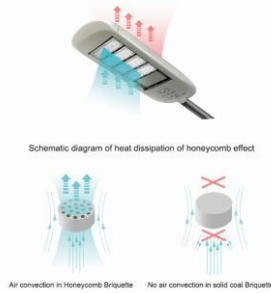
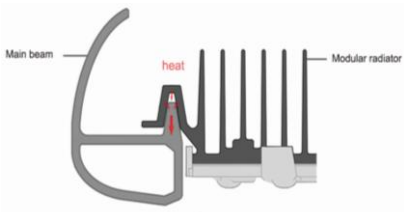






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## Special Technical Advantages of VSL Modular Lights

 <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 compact 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>

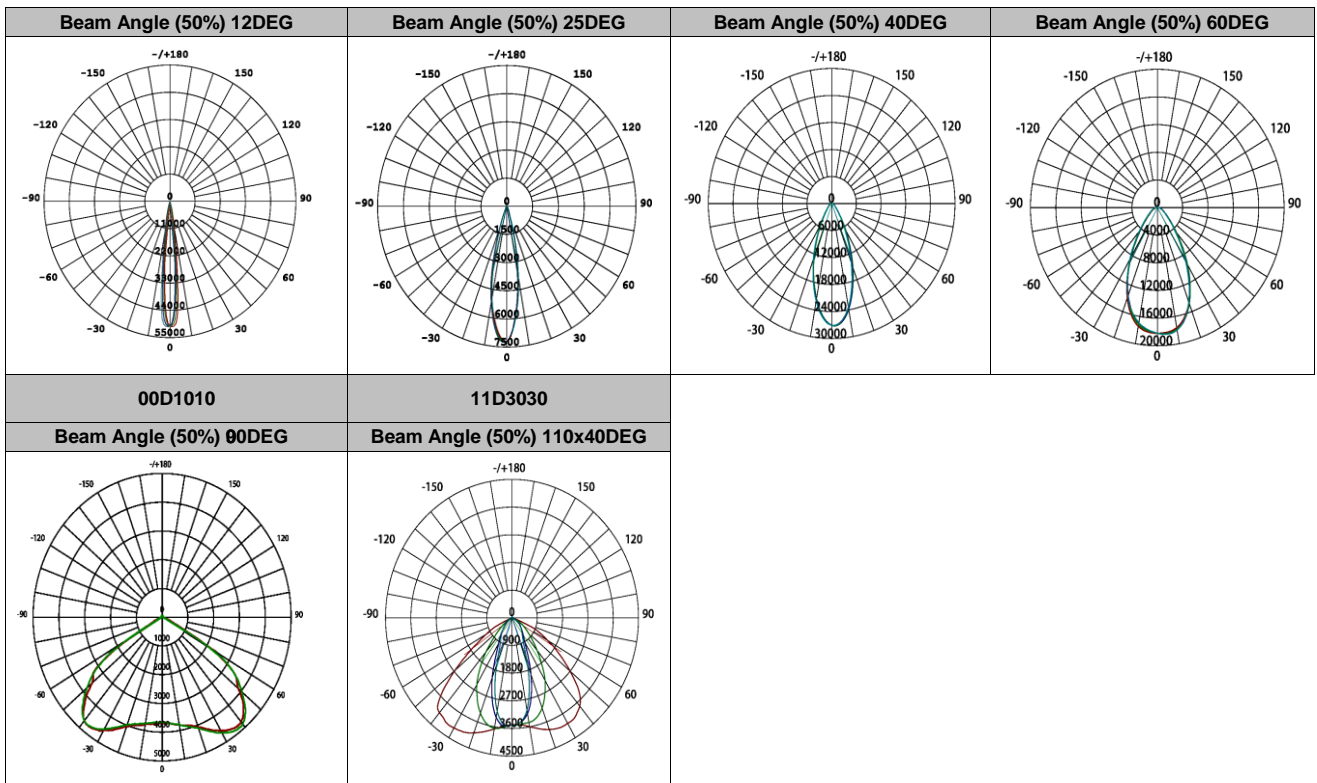
**Electrical and Photometric Specification**

Model	Input Voltage (V)	Driver Current (mA)	Power (W)	Luminous Efficacy (lm/W)	Flux (lm)	Power Factor	Power Efficiency	Beam Angle	LED Brand	CCT (K)	CRI
VSL-TF7A-2	AC100-277	700	80	110±5	8800±400	0.95	91%	12°; 25°; 40°; 60°; 90°; 120°	Lumileds Luxeon 3030 2D	3000,4000, 5000,5700	>70
		860	100	105±5	10500±500						
		1050	120	100±5	12000±600						
VSL-TF7A-3	AC100-277	700	120	110±5	13200±600	0.95	91%	12°; 25°; 40°; 60°; 90°; 120°	Lumileds Luxeon 3030 2D	3000,4000, 5000,5700	>70
		860	150	105±5	15750±750						
		1050	180	100±5	18000±900						
VSL-TF7A-4	AC100-277	700	160	110±5	17600±800	0.95	91%	12°; 25°; 40°; 60°; 90°; 120°	Lumileds Luxeon 3030 2D	3000,4000, 5000,5700	>70
		860	200	105±5	21000±1000						

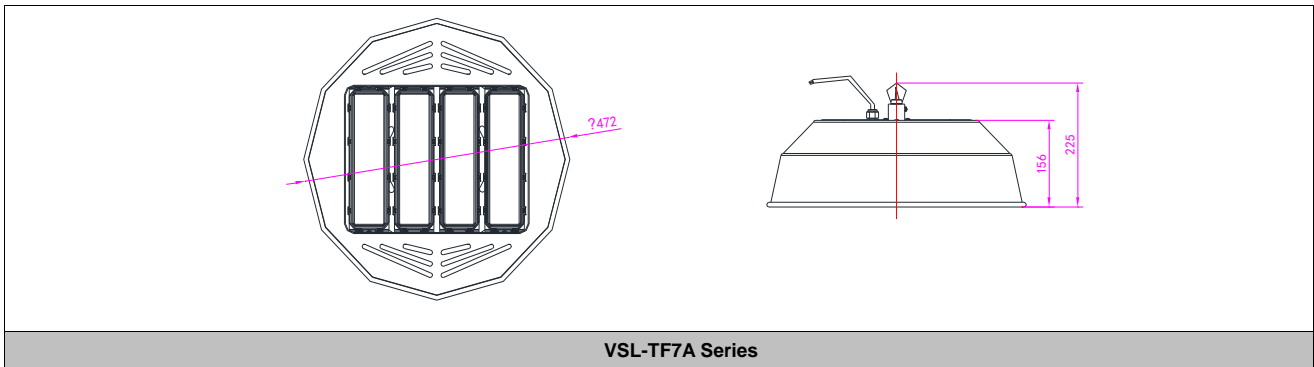
**Mechanical and Environmental Specification**

Model	Working Environment	Storage Temperature	Lumen Maintenance (h)	Housing Material	Surge Protection	Product Size (mm)	Packing Size (mm)	N.W (kg)	G.W (kg)
VSL-TF7A-2	-40℃~+50℃, 10%~90%RH	-40℃~+50℃	>50000	Aluminum Alloy	4KV	Φ472*225	550*550*270	6.3	8.4
VSL-TF7A-3						Φ472x225	550*550*270	6.8	8.9
VSL-TF7A-4						Φ472x225	550*550*270	7.7	9.8

**Lighting Distribution**



## Dimensions



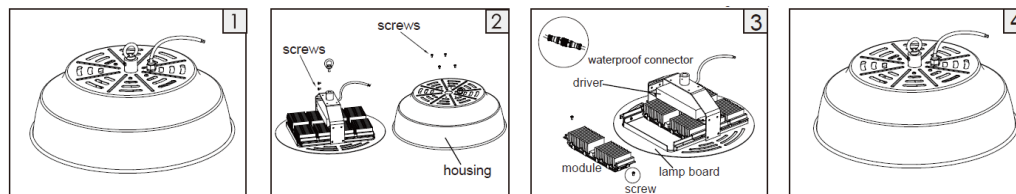
## Installation



**Step 1:** Mount the lamp with a hook, a rope or a chain through the hanging ring;

**Step 2:** Connect the wires to the AC wires. (The earth wire should be reliable and linked to the ground).

## Maintenance



**Step 1:** Disconnect the lamp from the AC wires and dismantle the lamp;

**Step 2:** Unscrew the hanging ring, the 2 screws beneath it and the 4 on the housing. Then remove the housing;

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

**Step 4:** Fix the housing back to the lamp board, and tighten up the 4 screws on the housing, the 2 beneath the hanging ring and the hanging ring. Then re-connect the lamp to the AC wires.