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› [CHANZON](#) /

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CHANZON 1DGL-JC-200W-WW

CHANZON 200W Warm White COB LED Chip Instruction Manual

Model: 1DGL-JC-200W-WW

1. INTRODUCTION

This manual provides essential information for the safe and effective use of your CHANZON 200W Warm White COB LED Chip. This high-power LED component is designed for various lighting applications, offering high brightness and efficiency. Please read these instructions carefully before installation and operation.

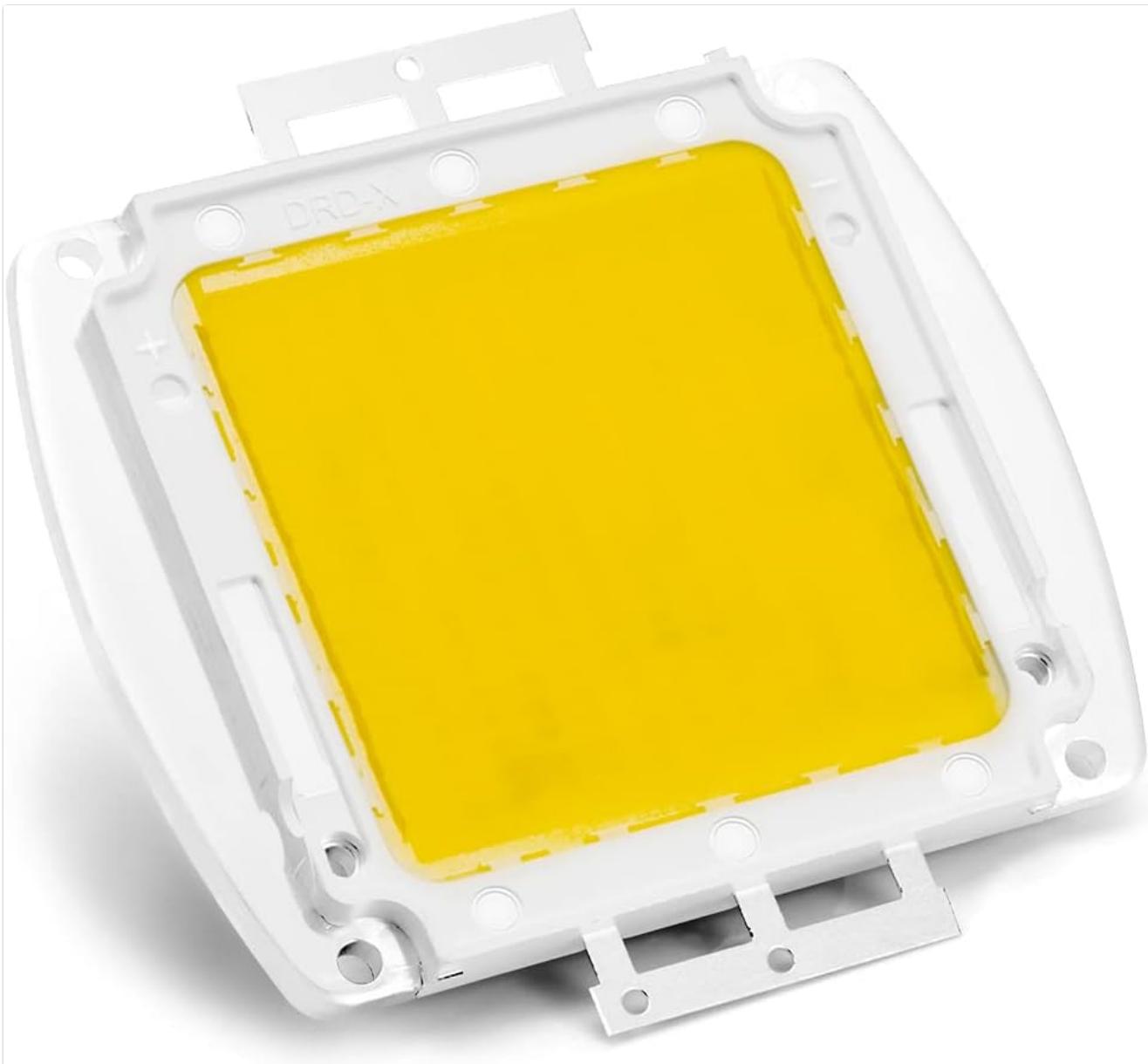


Image 1.1: CHANZON 200W Warm White COB LED Chip. This image displays the top view of the square-shaped COB LED chip, featuring a yellow light-emitting surface encased in a white frame.

2. SPECIFICATIONS

The following table details the key specifications for the CHANZON 200W Warm White COB LED Chip:

Feature	Specification
Power (Max)	200 Watt
Emitting Color	Warm White
Color Temperature	3000K - 3500K
Recommended Current	6000mA
Forward Voltage	30-34V DC
Luminous Flux	24000-28000LM
Emitting Angle	120-140 degrees

Feature	Specification
Internal Construction	Double Golden Wire (99.99%), Copper Frame
Life Span	50,000 Hours (with proper heat management)
Dimensions	6.69 x 5.12 x 0.39 inches (Product)
Weight	0.16 Kilograms (5.6 ounces)

Power	Color	Color Temperature Wavelength	Forward Voltage	Forward Current	Luminous Flux
150W (10x15)	Warm White	3000-3500K	30-34V	4200-5250mA	15000-18000LM
	Natural White	4000-4500K	30-34V	4200-5250mA	15000-18000LM
	White	6000-6500K	30-34V	4200-5250mA	15000-18000LM
	Cool White	10000-15000K	30-34V	4200-5250mA	15000-18000LM
200W (10x20)	Warm White	3000-3500K	30-34V	5600-7000mA	24000-28000LM
	Natural White	4000-4500K	30-34V	5600-7000mA	24000-28000LM
	White	6000-6500K	30-34V	5600-7000mA	24000-28000LM
	Cool White	10000-15000K	30-34V	5600-7000mA	24000-28000LM
300W (20x15)	Warm White	3000-3500K	60-68V	4200-5250mA	30000-35000LM
	Natural White	4000-4500K	60-68V	4200-5250mA	30000-35000LM
	White	6000-6500K	60-68V	4200-5250mA	30000-35000LM
	Cool White	10000-15000K	60-68V	4200-5250mA	30000-35000LM
500W (20x25)	Warm White	3000-3500K	60-68V	7000-8750mA	45000-50000LM
	Natural White	4000-4500K	60-68V	7000-8750mA	45000-50000LM
	White	6000-6500K	60-68V	7000-8750mA	45000-50000LM
	Cool White	10000-15000K	60-68V	7000-8750mA	45000-50000LM

Image 2.1: CHANZON COB LED Chip Specification Table. This image presents a table outlining various specifications (Power, Color, Color Temperature, Forward Voltage, Forward Current, Luminous Flux) for different wattage CHANZON LED chips, including the 200W model.

3. SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of your LED chip. Follow these guidelines:

- Power Supply:** Use a constant current LED driver that matches the recommended current (6000mA) and forward voltage (30-34V) for this 200W chip. An incompatible power supply can damage the LED.
- Heat Sink System:** A robust heat sink system is mandatory. The working temperature of the LED chip must be maintained below 60°C (140°F) to ensure its rated lifespan. Insufficient cooling will lead to rapid degradation and failure.
- Polarity:** Carefully identify the positive (anode +) and negative (cathode -) terminals on the LED chip before connecting. Incorrect polarity will cause immediate damage. Refer to the markings on the chip.
- Mounting:** Securely mount the LED chip to the heat sink using thermal paste or thermal adhesive to ensure efficient heat transfer.

▼ 200W LED Size

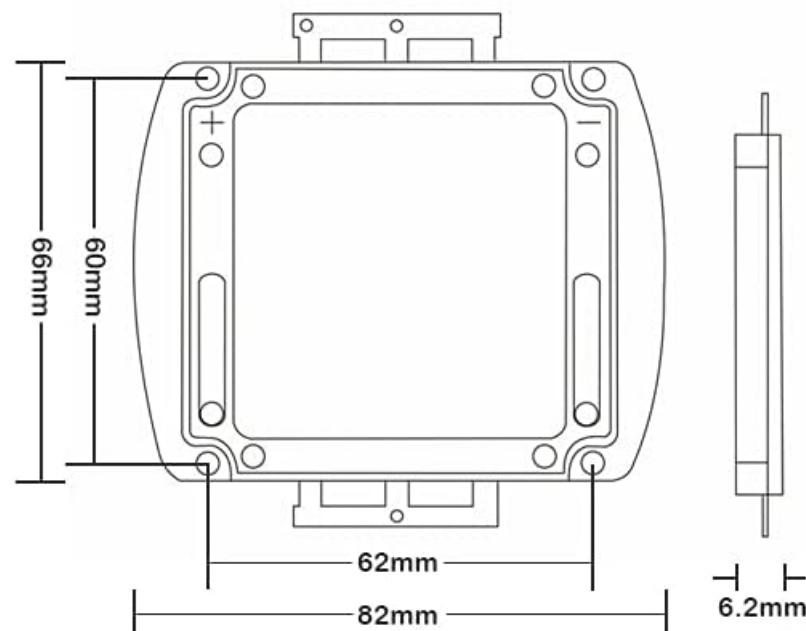
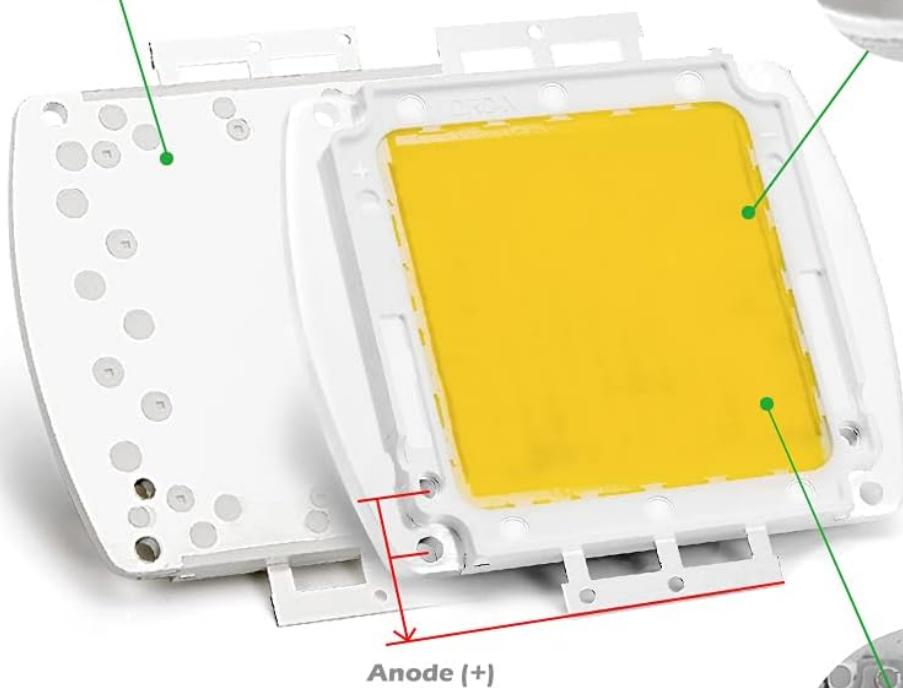


Image 3.1: 200W LED Chip Dimensions. This image shows a diagram with precise measurements (66mm x 60mm x 6.2mm) of the 200W LED chip, essential for designing or selecting an appropriate heat sink.

2. With 2 Gold Wire

1. 100% Copper Holder

▼ 200W



3. 100% Light up at low Voltage

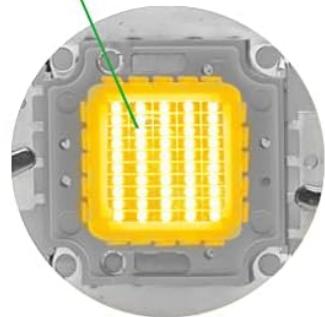
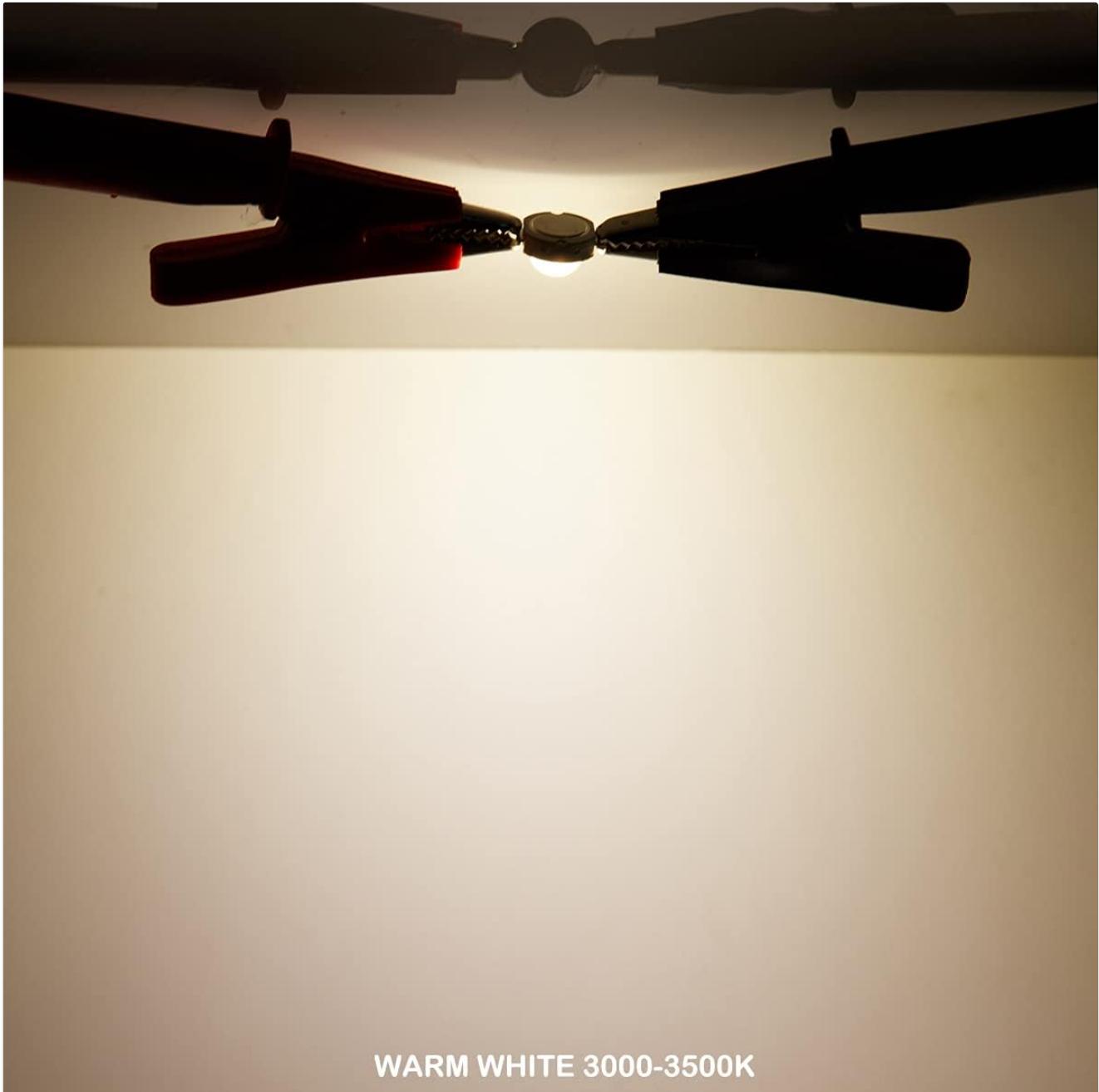


Image 3.2: LED Chip Internal Structure and Polarity. This image highlights the internal components, including the 100% copper holder and 2 gold wires, and clearly indicates the Anode (+) terminal for correct wiring.

4. OPERATING INSTRUCTIONS

Once properly installed with a suitable power supply and heat sink, the CHANZON 200W Warm White COB LED Chip can be operated as follows:

- **Power On:** Connect the constant current LED driver to a compatible AC power source. The LED chip should illuminate instantly.
- **Continuous Operation:** Ensure continuous and adequate cooling during operation. Monitor the temperature of the heat sink if possible.
- **Eye Protection:** The LED chip emits very bright light. Avoid looking directly into the illuminated chip to prevent eye strain or damage.



WARM WHITE 3000-3500K

Image 4.1: Warm White LED Light Output. This image demonstrates the warm white light emitted by the LED chip, showing its color temperature range of 3000-3500K.

5. MAINTENANCE

Minimal maintenance is required for the LED chip itself, but proper care of the cooling system is essential:

- **Temperature Monitoring:** Regularly ensure the operating temperature remains below 60°C (140°F).
- **Heat Sink Cleaning:** Periodically inspect the heat sink for dust accumulation or obstructions. Clean as necessary to maintain optimal airflow and heat dissipation.
- **Connection Check:** Occasionally verify that all electrical connections are secure and free from corrosion.

6. TROUBLESHOOTING

If you encounter issues with your LED chip, consider the following troubleshooting steps:

- **LED Not Lighting Up:**

- Check the power supply: Ensure it is a constant current driver with the correct voltage (30-34V) and current (6000mA).
- Verify polarity: Confirm that the positive (+) and negative (-) terminals are connected correctly.
- Inspect connections: Ensure all wires are securely connected and there are no loose contacts.

- **LED Flickering or Dim:**

- Check power supply output: The driver might not be providing stable current or voltage.
- Assess heat dissipation: Inadequate cooling can lead to reduced performance and flickering. Ensure the heat sink is effective and clean.
- Inspect for damage: Look for any visible damage to the chip or wiring.

- **LED Overheating:**

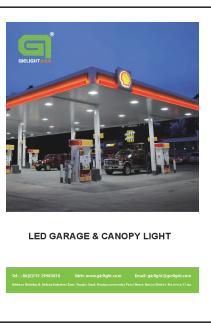
- Improve heat sink: Ensure the heat sink is adequately sized for a 200W LED and has proper thermal contact.
- Enhance airflow: If using active cooling (fan), ensure it is functioning correctly and not obstructed.
- Verify ambient temperature: Operating in excessively hot environments can hinder cooling.

7. WARRANTY AND SUPPORT

Specific warranty details for this product are not provided in the available information. For any product support or inquiries, please refer to the CHANZON brand's official channels or the retailer from whom the product was purchased.



Image 7.1: CHANZON 200W LED Chip Packaging. This image shows the product in its clear plastic packaging, with a label indicating the model (AA0514x1), name (200W LED), color (Warm White 3000-3500K), and electrical specifications (6000mA, 30-34V).

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	<p>GIELIGHT LED Garage & Canopy Light - 200W Specifications and Installation Guide</p> <p>Comprehensive details on the GIELIGHT 200W LED Garage & Canopy Light, covering product features, technical specifications, installation instructions, wiring diagrams, and packing information. Designed for commercial and industrial use.</p>
	<p>Feniex Typhoon 200W Controllers Instruction Manual</p> <p>This instruction manual provides comprehensive details for the Feniex Typhoon 200W Full-Function and Handheld controllers, covering safety regulations, product specifications, box contents, siren tones, configuration options, wiring diagrams, and mounting instructions for emergency vehicle lighting systems.</p>
	<p>CentoLight SCENIC COB-200W User Manual - Professional LED Par Light Guide</p> <p>Comprehensive user manual for the CentoLight SCENIC COB-200W LED Par Light. Details product features, safety guidelines, setup, DMX control, specifications, troubleshooting, and warranty information for entertainment lighting professionals.</p>
	<p>Archipelago Lighting LRHB Icarus-III ECO Round High Bay Product Data Sheet</p> <p>Product data sheet for the Archipelago Lighting LRHB Icarus-III ECO Round High Bay, detailing its features, specifications, applications, and accessories. This high-efficiency LED fixture is designed for commercial and industrial spaces.</p>
	<p>V-TAC LED Floodlight with Sensor - Installation Guide</p> <p>Provides detailed installation instructions, safety warnings, and features for V-TAC LED Floodlights with integrated light sensors. Learn how to safely mount and connect your V-TAC floodlight for optimal performance.</p>