BETOPPER LC002-H

BETOPPER 200W COB LED PAR Light User Manual

Model: LC002-H | Brand: BETOPPER

1. Introduction

This manual provides essential information for the safe and effective operation of your BETOPPER 200W COB LED PAR Light, Model LC002-H. This professional-grade lighting fixture is designed for stage, DJ, event, and theatrical applications, offering high color fidelity and versatile control options.

1.1 Safety Information

- Always connect the fixture to a grounded power outlet.
- Ensure proper ventilation to prevent overheating. The fixture includes an integrated fan for heat dissipation.
- Do not look directly into the light source when operating, as it can cause eye strain or damage.
- Keep the fixture away from moisture and extreme temperatures.
- Only qualified personnel should perform maintenance or repairs.

2. Product Overview

The BETOPPER LC002-H is a powerful 200W COB LED PAR light, engineered for superior light output and color accuracy. Its robust design ensures durability for intensive use in various professional settings.



Figure 2.1: BETOPPER 200W COB LED PAR Light (Model LC002-H)

2.1 Key Features

- **High Color Fidelity (CRI ≥92):** Advanced COB technology ensures accurate color reproduction, ideal for photography and video.
- **Superior Luminous Performance:** 200W COB light source with optimized heat dissipation for stability and energy efficiency.
- **Versatile Control:** Supports DMX512 for precise adjustment (0-255 brightness) and Master-Slave mode for

automatic synchronization.

- **Durable Design:** Resistant metallic structure with integrated fan for extended lifespan (up to 50,000 hours).
- **Quick Installation:** Intuitive mounting system allows precise angle adjustments and rapid positioning.



Figure 2.2: High Color Rendering Index (CRI) for accurate color reproduction.

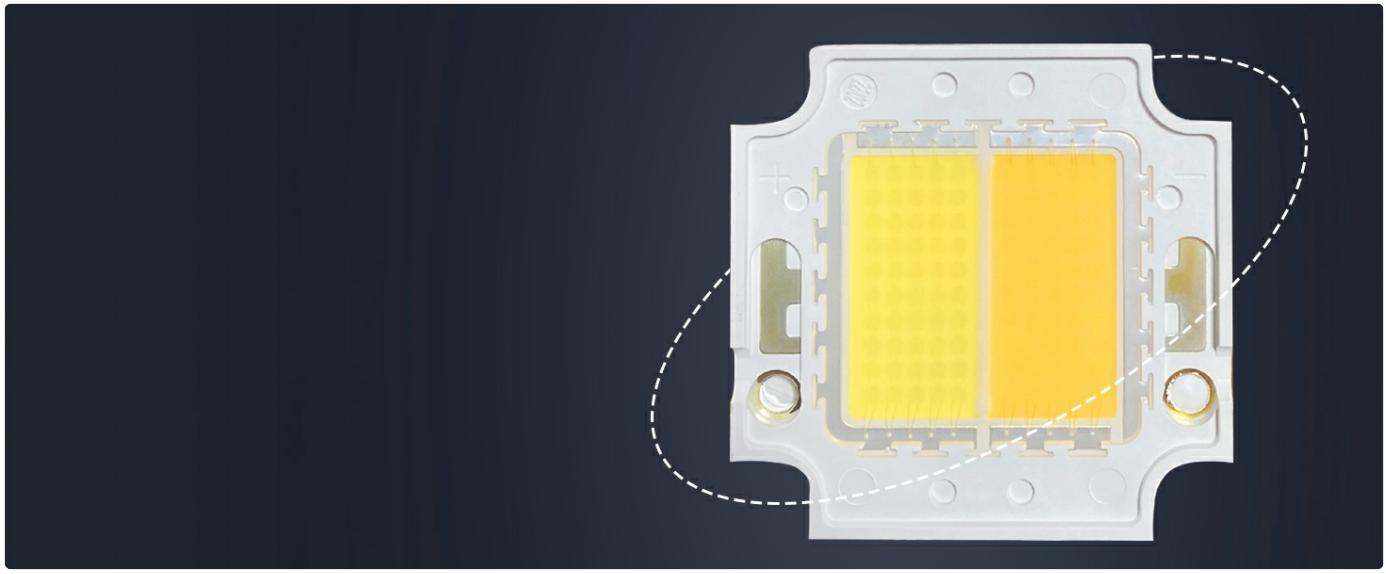


Figure 2.3: The advanced COB LED chip for powerful and consistent illumination.

2.2 Components and Controls

The fixture includes a robust housing, adjustable mounting bracket, power input/output, DMX input/output, and a control panel with an LED display and buttons.



Figure 2.4: Rear panel showing control buttons (Menu, Up, Down, Enter) and input/output connections.

- **Power Input/Output:** For connecting to mains power and daisy-chaining multiple units.
- **DMX Input/Output:** For connecting to a DMX controller and linking other DMX-compatible fixtures.
- **Control Panel:** Features an LED display and four buttons (MENU, UP, DOWN, ENTER) for navigating settings and modes.

3. Setup

3.1 Unpacking and Initial Inspection

Carefully remove the fixture from its packaging. Inspect for any signs of damage during transit. Ensure all components listed in the packaging are present, including the light fixture, mounting bracket, and power cable.

3.2 Mounting

The fixture comes with an adjustable mounting bracket. Attach the bracket to the fixture using the provided screws. The bracket allows for floor standing, truss mounting, or wall mounting. Ensure the fixture is securely fastened to prevent accidental falls.

3.3 Power Connection

Connect the power cable to the fixture's power input. Plug the other end into a suitable grounded power outlet (AC100V-240V, 50/60Hz). The fixture supports power daisy-chaining for convenience.

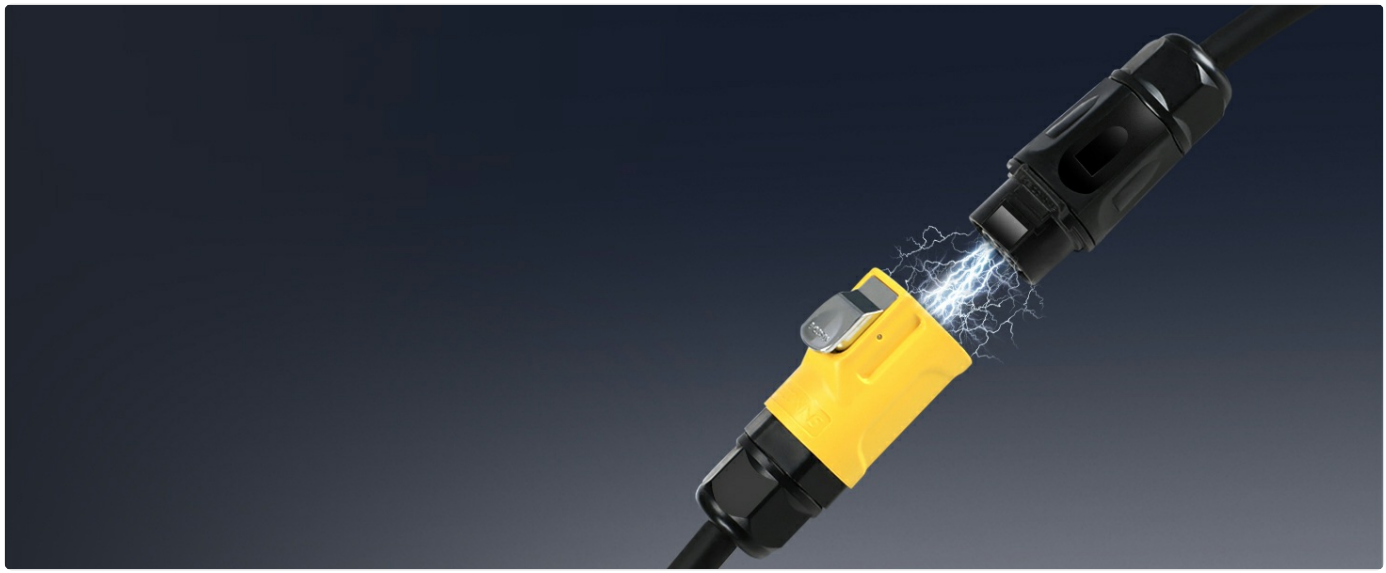


Figure 3.1: Securely connect the power cable to the fixture's input.

3.4 DMX Connection (Optional)

For DMX control, connect a DMX cable from your DMX controller's output to the fixture's DMX input. If linking multiple fixtures, connect the DMX output of the first fixture to the DMX input of the next, and so on. Ensure proper DMX termination for stable signal transmission.

4. Operation

The BETOPPER LC002-H can be operated in various modes using its onboard control panel or an external DMX controller.

4.1 Control Panel Navigation

Use the four buttons on the rear panel to navigate the menu and adjust settings:

- **MENU:** Enters the menu or cycles through main menu options.
- **UP:** Increases values or moves up through menu options.
- **DOWN:** Decreases values or moves down through menu options.
- **ENTER:** Confirms a selection or enters a sub-menu.

4.2 Operating Modes

- **DMX512 Mode:** Allows precise control over brightness, color temperature, and effects via an external DMX controller. Refer to the DMX channel chart (not provided in this manual, consult manufacturer's website) for specific

channel functions.

- **Master-Slave Mode:** Link multiple fixtures. Set one fixture as 'Master' and others as 'Slave'. Slave units will mimic the Master's settings and effects.
- **Auto Mode:** The fixture runs through pre-programmed automatic light shows and effects. Use the control panel to select different auto programs.
- **Flash/Strobe Effects:** Activate strobe effects with adjustable speed via DMX or the control panel.

4.3 Color Temperature Adjustment

The LC002-H offers adjustable white light from warm to cool tones, as well as a mixed white option. This allows for versatile lighting environments suitable for different applications.

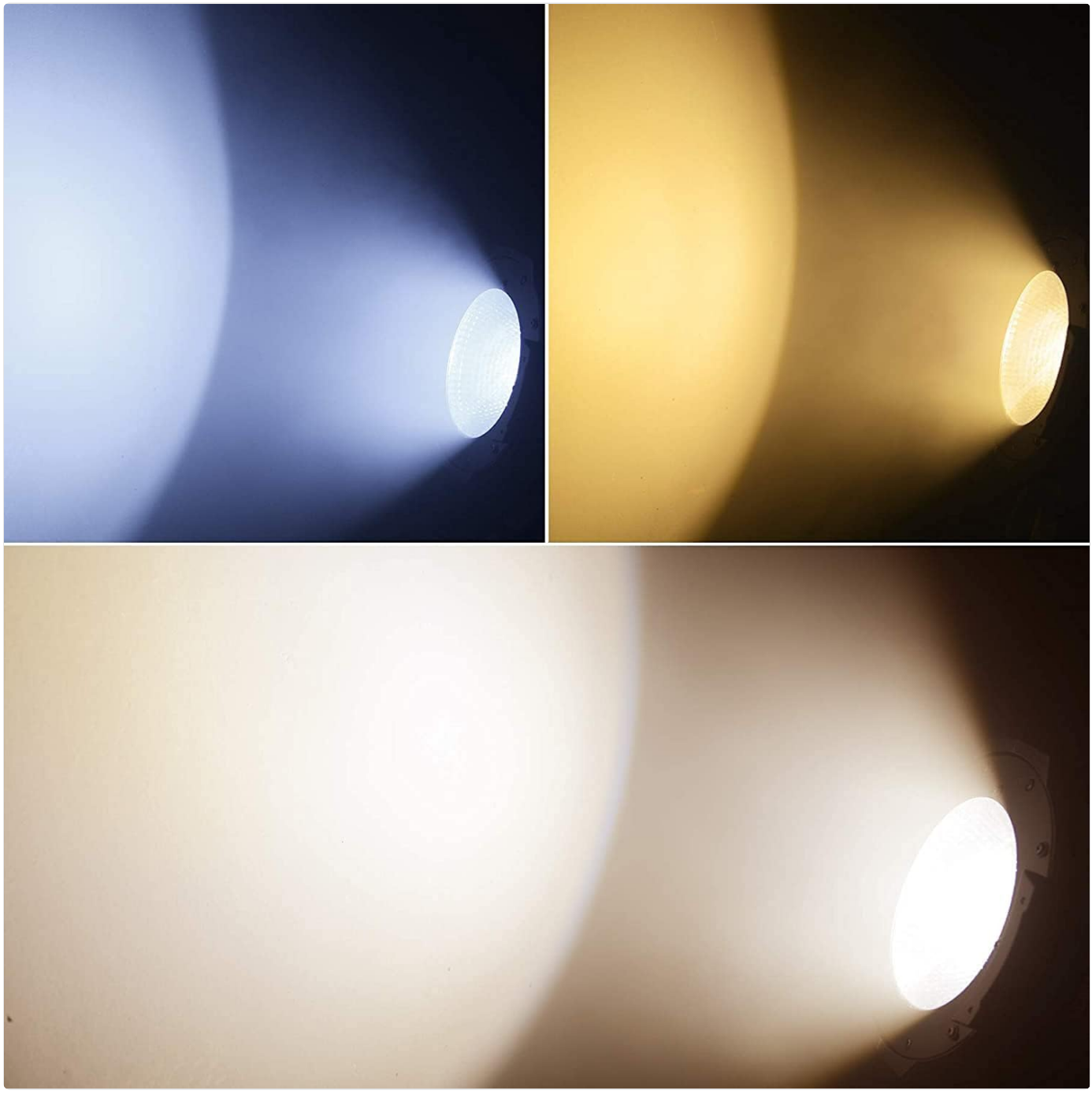


Figure 4.1: Different color temperature outputs: Cool White, Warm White, and Mixed White.

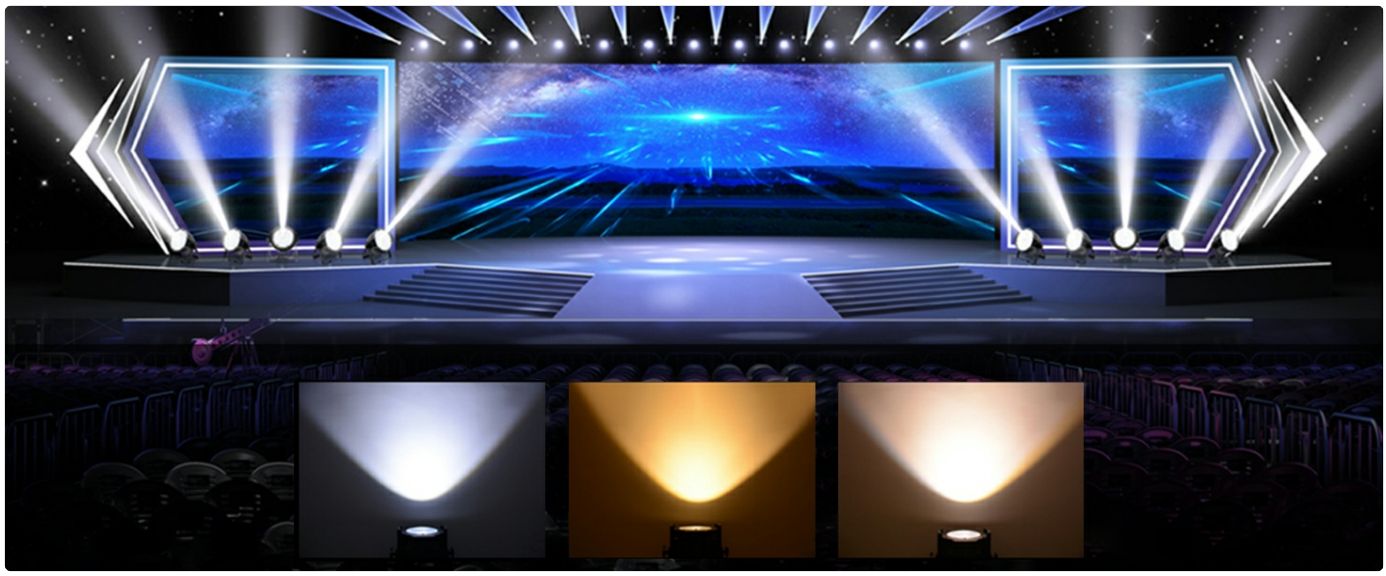


Figure 4.2: Visual representation of the light's adjustable color temperature on a stage.

5. Maintenance

Regular maintenance ensures the longevity and optimal performance of your BETOPPER LC002-H PAR light.

5.1 Cleaning

To clean the fixture, use a soft, lint-free cloth. For stubborn dirt, a slightly damp cloth with mild soap can be used, ensuring no liquid enters the internal components. Do not use abrasive cleaners or solvents. Regularly clean the lens to maintain light output clarity.

5.2 Cooling System

The fixture is equipped with an internal fan for active cooling. Ensure that the ventilation openings are not obstructed during operation. Periodically check and clean any dust accumulation on the fan and vents to maintain efficient heat dissipation.

5.3 Storage

When not in use for extended periods, store the fixture in a dry, dust-free environment, preferably in its original packaging or a protective case.

6. Troubleshooting

This section addresses common issues you might encounter with your BETOPPER LC002-H PAR light.

Problem	Possible Cause	Solution
Fixture does not power on.	No power supply; faulty cable; internal issue.	Check power connection and outlet. Test with a different power cable. If issue persists, contact support.

Problem	Possible Cause	Solution
No light output.	Dimmer at 0%; incorrect mode; DMX signal issue.	Increase brightness via control panel or DMX. Ensure correct operating mode is selected. Check DMX connections and controller settings.
Light flickers or behaves erratically.	Unstable power; DMX signal interference; faulty DMX cable.	Ensure stable power supply. Check DMX cables for damage. Use a DMX terminator if linking multiple units. Reset the fixture.
Overheating.	Obstructed ventilation; prolonged high-power use in confined space.	Ensure clear airflow around the fixture. Operate in a well-ventilated area. Allow cooling periods if necessary.
Difficulty understanding controls.	Unfamiliarity with DMX or menu navigation.	Refer to Section 4.1 for control panel navigation. Consult the manufacturer's website for detailed DMX channel charts and advanced operation guides.

7. Specifications

Detailed technical specifications for the BETOPPER 200W COB LED PAR Light (Model LC002-H).

Specification	Value
Brand	BETOPPER
Model Number	LC002-H
Dimensions (L x W x H)	21.6 x 21.2 x 28.2 cm
Weight	3.16 kg
Power Consumption	200 Watts (Max 210 Watts)
Voltage	240 Volts (AC100V-240V)
Light Source Type	COB LED
Luminous Flux	210 Lumen
Color Temperature	3200 Kelvin (Adjustable Warm/Cool White)
Color Rendering Index (CRI)	90
Beam Angle	95 Degrees
IP Protection Rating	IP20
Material	Aluminum, Metal
Power Source	Corded Electric
Included Components	Light kit included

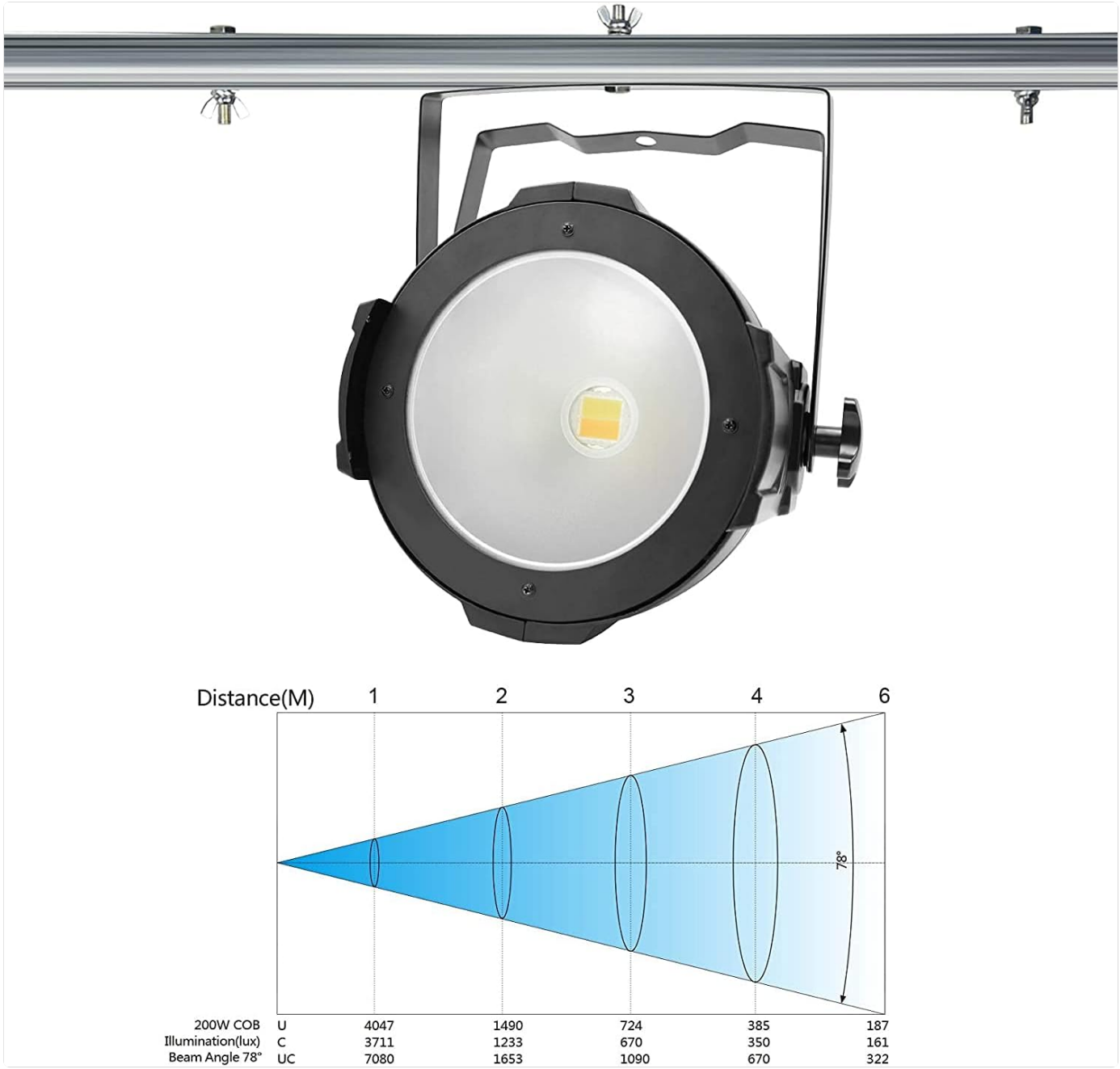


Figure 7.1: Beam angle and light intensity distribution over distance.

8. Warranty and Support

BETOPPER products are manufactured to high-quality standards. For information regarding warranty coverage, technical support, or service inquiries, please visit the official BETOPPER website or contact their customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.

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