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> PopBloom RL90 WiFi Aquarium Light User Manual

## PopBloom RL90

# PopBloom RL90 WiFi Aquarium Light User Manual

Model: RL90

## 1. INTRODUCTION

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The PopBloom RL90 WiFi Aquarium Light is an advanced LED lighting system designed for marine aquariums, specifically optimized for the growth and vibrant coloration of SPS (Small Polyp Stony) and LPS (Large Polyp Stony) corals. This light features smart APP control, allowing users to customize light intensity, spectrum, and daily cycles to simulate natural environmental conditions.

This manual provides detailed instructions for the safe installation, operation, and maintenance of your RL90 WiFi Aquarium Light. Please read this manual thoroughly before use to ensure proper functionality and longevity of the product.



Image: The PopBloom RL90 WiFi Aquarium Light installed over a marine reef tank, showcasing its illumination capabilities.

## 2. SAFETY INFORMATION

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- **Electrical Safety:** Always disconnect power before performing any maintenance or installation. Ensure your hands are dry when handling electrical components.

- **Water Proximity:** This product is designed for use near aquariums, but it is not submersible. Avoid direct contact with water. Do not operate if the light or power cord is damaged or wet.
- **Ventilation:** Ensure adequate ventilation around the light fixture to prevent overheating. Do not cover the ventilation slots.
- **Children and Pets:** Keep the product out of reach of children and pets.
- **Intended Use:** Use this product only for its intended purpose as an aquarium light. Any other use may result in damage or injury.
- **Installation:** Ensure the mounting bracket is securely fastened to prevent the light from falling into the aquarium.

### 3. PACKAGE CONTENTS

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Verify that all items listed below are present and in good condition upon opening the package. If any items are missing or damaged, please contact customer support.

- PopBloom RL90 WiFi Light Unit x 1
- Arm Mounting Kit x 1
- Power Adapter x 1
- Power Plug (various types for different regions) x 1
- User Manual x 1



Image: A visual representation of the package contents, including the RL90 light, power supply, various power plugs, and the arm mounting kit.

### 4. SETUP INSTRUCTIONS

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#### 4.1. Mounting the Light

The RL90 light comes with an adjustable arm mounting kit for easy installation on various tank types (rimless, rimmed, horizontal).

1. Assemble the arm mounting kit according to the diagram provided.
2. Attach the mounting bracket securely to your aquarium rim. Ensure it is stable and can support the weight of the light fixture.
3. Slide the RL90 light unit onto the arm.
4. Adjust the height and position of the light over your aquarium for optimal coverage. The arm allows for rotation and height adjustments.




Image: Detailed diagram illustrating the components and assembly of the adjustable arm mounting kit, showing how it attaches to rimless, rimmed, and horizontal tank edges.

#### 4.2. Power Connection

1. Connect the power adapter to the RL90 light unit.
2. Insert the appropriate power plug into the power adapter.
3. Plug the power adapter into a suitable electrical outlet.
4. The light should power on, indicating it is ready for app control.

#### 4.3. App Installation and WiFi Connection

The PopBloom RL90 is controlled via a smart application compatible with Android and iOS devices.

1. Download the "Smart Life" app:
  - Scan the QR code provided in the manual or on the product packaging.
  - Alternatively, search for "Smart Life" in your device's app store (Google Play Store for Android, Apple App Store for iOS).
  - You can also visit <https://smartapp.tuya.com/smartlife> to download the app.
2. Register or log in to your Smart Life account.
3. Ensure your mobile device is connected to a 2.4GHz WiFi network. The RL90 light only supports 2.4GHz WiFi.
4. In the Smart Life app, tap "Add Device" or the "+" icon.
5. Follow the on-screen instructions to connect your RL90 light to the app. This typically involves putting the light into pairing mode (refer to the app's instructions for specific steps, usually a power cycle or button press).
6. Once connected, you can rename your device for easy identification.



Image: Screenshot of the Smart Life app interface, demonstrating various control features and providing a QR code for easy app download.

## 5. OPERATING INSTRUCTIONS

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### 5.1. Smart APP Control Features

The Smart Life app provides comprehensive control over your PopBloom RL90 light, allowing for advanced customization and simulation of natural lighting conditions.

- **Group Management:** Control up to 12 lights simultaneously by grouping them within the app.
- **24-Hour Automatic Cycle:** Program daily light cycles including sunrise, sunset, and moon phases.
- **Seasonal Simulation:** Simulate lighting conditions across four seasons.
- **Moon Cycle Simulation:** Mimic the natural lunar cycle.
- **Storm Simulation:** Create dynamic storm effects within your aquarium.



Image: A series of app screenshots detailing the various programmable modes, including gradual adaptation, moon phase simulation, manual control, and algae reduction settings.

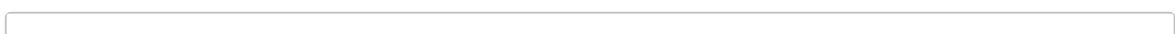
### 5.2. DIY Mode

The DIY mode allows for precise control over each of the light's channels. You can set custom start and end times, as well as the light intensity for each channel, to create a unique lighting schedule tailored to your aquarium's needs.

- Access the DIY mode within the Smart Life app.
- Adjust the intensity sliders for each channel (Ch1, Ch2, Ch3, Ch4) at different time points throughout the 24-hour cycle.
- Save your custom program.

### 5.3. Optimal Spectrum for Coral Growth

The RL90 features a carefully balanced spectrum, including blue and UV wavelengths, which are crucial for promoting coral calcium absorption, Vitamin D3 synthesis, and enhancing vibrant coloration. The "Delayed Acclimation" mode is recommended when introducing new lights or corals to your tank to prevent shock.



## 6. MAINTENANCE

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- **Cleaning:** Regularly wipe the light fixture and lens with a soft, dry cloth to remove dust and salt creep. Ensure the light is unplugged before cleaning. Do not use abrasive cleaners or solvents.
- **Ventilation:** Periodically check that the ventilation slots are clear of obstructions to maintain proper airflow and prevent overheating.
- **Cable Inspection:** Inspect the power cord and connections for any signs of damage or wear. Replace immediately if damage is found.
- **Water Splashes:** If water splashes onto the light, immediately unplug it and dry it thoroughly before reconnecting power.

## 7. TROUBLESHOOTING

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Problem	Possible Cause	Solution
Light does not turn on.	No power, loose connection, damaged power adapter.	Check power outlet, ensure all connections are secure. Test with another outlet. If still not working, contact support.
Cannot connect to WiFi.	Incorrect WiFi password, 5GHz network, light not in pairing mode, router too far.	Ensure correct 2.4GHz WiFi network and password. Bring device closer to router. Follow app instructions to put light into pairing mode.
App control is unresponsive.	Poor WiFi signal, app glitch, light unit frozen.	Check WiFi signal strength. Restart the app. Unplug the light for 30 seconds and plug it back in.
Light flickers or dims unexpectedly.	Unstable power supply, overheating, internal fault.	Ensure stable power. Check for proper ventilation. If problem persists, contact customer support.

## 8. SPECIFICATIONS

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<b>Model Number</b>	RL90
<b>Brand</b>	PopBloom
<b>Power Consumption</b>	100 Watts
<b>Max Light Output</b>	500 Lumens
<b>Voltage</b>	120 Volts
<b>Light Source Type</b>	LED, WiFi APP Control (24-hour cycle, sunrise/sunset, moon cycle, storm)
<b>Number of Light Sources</b>	1
<b>Color Rendering Index (CRI)</b>	80.0
<b>Mounting Type</b>	Bracket Mount (Adjustable Arm Kit)

<b>Finish Type</b>	Powder Coating
<b>Item Dimensions (L x W x H)</b>	12 x 12 x 5.5 cm (4.7 x 4.7 x 2.2 inches)
<b>Item Weight</b>	2.5 pounds
<b>Country of Origin</b>	China



Image: Technical specifications and spectral distribution graph for the RL90 light, detailing its dimensions, total power, and 4-channel output.



Image: Ideal PAR (Photosynthetically Active Radiation) distribution map, showing light intensity at various depths and distances from the RL90 light, indicating optimal reef growth zones.

## 9. WARRANTY AND SUPPORT

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For warranty information, technical support, or any inquiries regarding your PopBloom RL90 WiFi Aquarium Light, please refer to the warranty card included with your product or contact the seller/manufacturer directly.

Manufacturer: Shenzhen PopBloom Electronic Technology Co.,Ltd

