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PopBloom RL90

PopBloom RL90 LED Aquarium Light User Manual

Model: RL90

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your PopBloom RL90 LED Aquarium Light. The RL90 is designed for coral reef and fish tank lighting, featuring Smart-APP control and a full spectrum output optimized for SPS/LPS corals.

2. Safety Information

- Always disconnect power before performing any maintenance or installation.
- Ensure the power supply and light fixtures are kept dry and away from water splashes.
- Do not operate the light if any part is damaged. Contact support for assistance.
- This product is designed for indoor aquarium use only.
- Avoid direct eye exposure to the LED light.

3. What's in the Box

The PopBloom RL90 LED Aquarium Light package includes the following components:

- RL90 LED Light Units (quantity varies by kit, e.g., 6x for the 6 Light with Arm Kit)
- Arm Kit (quantity varies by kit, e.g., 6x for the 6 Light with Arm Kit)
- Power Supply + Plug (quantity varies by kit, e.g., 6x for the 6 Light with Arm Kit)
- User Manual (this document)



Image: Six PopBloom RL90 LED light units mounted on arm kits above an aquarium, with a smartphone displaying the SmartLife app interface for control.

4. Specifications

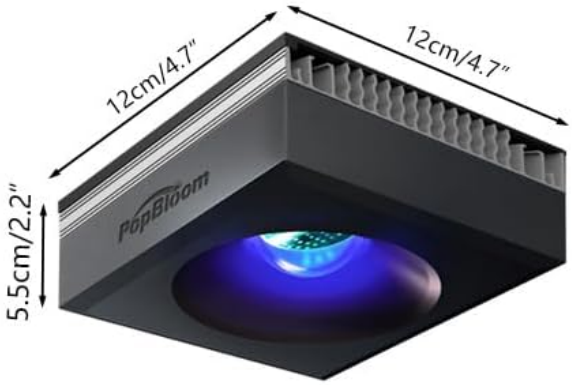
Brand	PopBloom
Model Name	RL90
Light Source Type	LED (COB)
Material	Aluminum
Power Source	Corded Electric
Wattage (per light)	90 watts
LED Channels	4 Channels
PAR @ Water Surface	500

PAR @ 60cm depth	150
Product Dimensions (per light)	4.7 x 4.7 x 2.2 inches (12 x 12 x 5.5 cm)
Mounting Type	Arm Mounting (Hang Kit and Pendant options available separately)
Control	Smart-APP Control (SmartLife App)

Specification

for each light

90 W LED Array | **500 PAR** Water surface | **150 PAR** 60cm depth



4 Channels

10 W 8000K White | **5 W** Moonlight | **65 W** REEF GROW Blue | **10 W** Growth Red

Recommendation

Size	1 Light	2 Light	3 Light	4 Light	5 Light	6 Light
recommended tank length	40-60cm 16-24inch	80-120cm 30-48inch	120-150cm 48-60inch	180-240cm 72-96inch	240-300cm 96-120cm	(300-360)x60 (120-150)x80
recommended tank width: 60cm						
max reach tank depth: 80cm						

Image: Detailed specifications per light unit and recommended tank lengths for various light quantities.

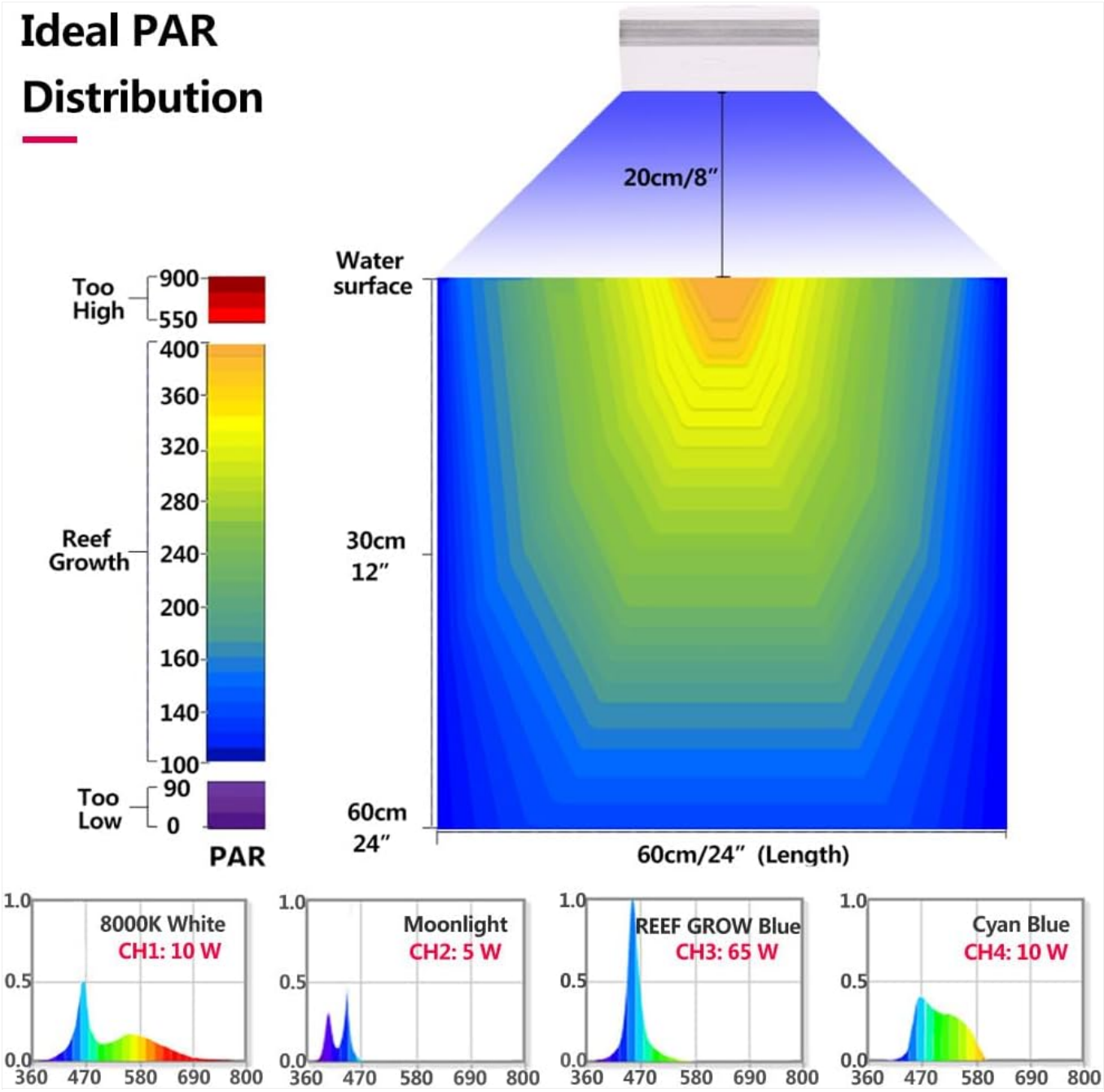


Image: Ideal PAR distribution map and individual channel spectrums for the RL90 light.

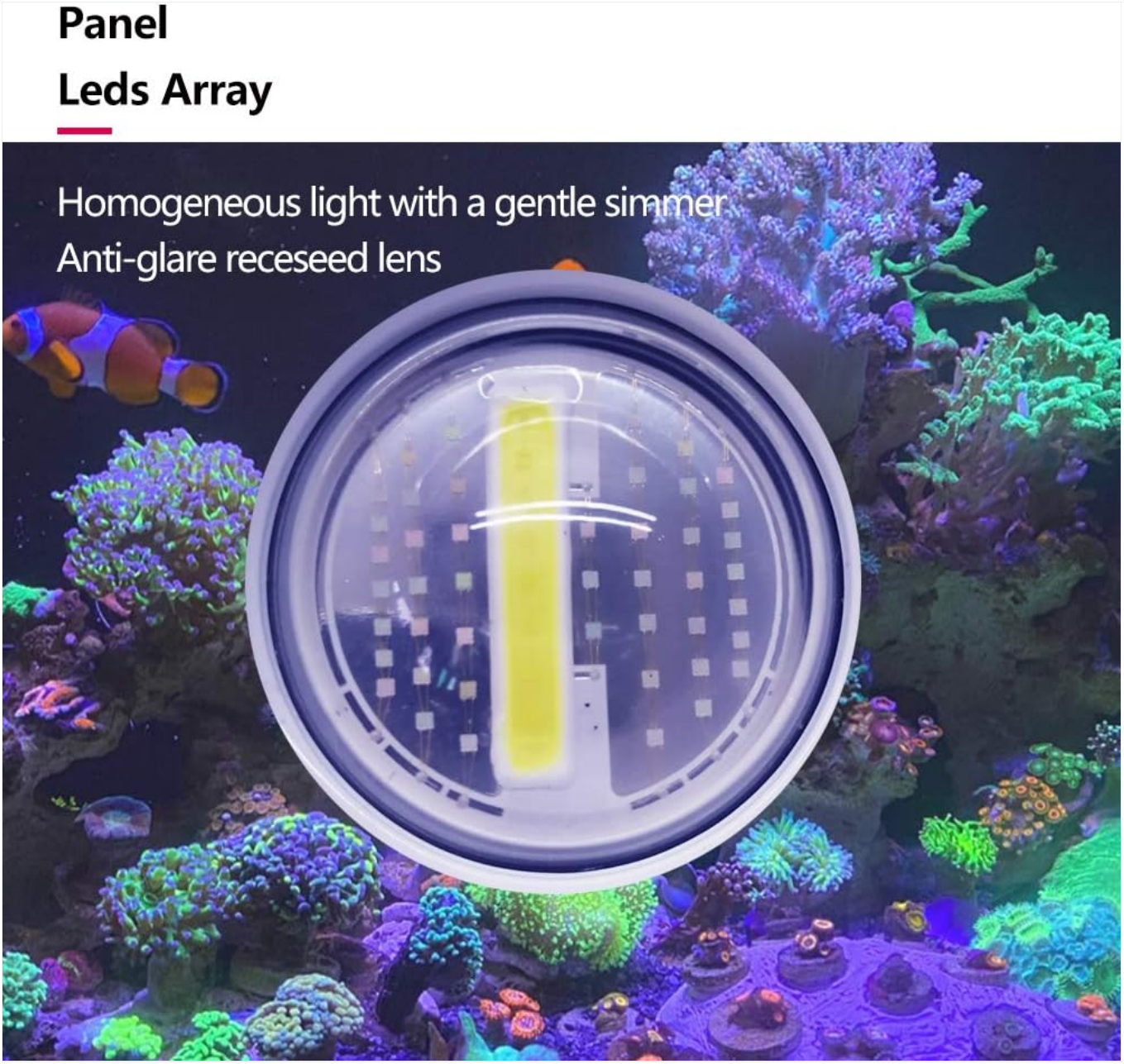


Image: Close-up of the RL90's COB LED array and recessed lens, designed for homogeneous light and strong penetration.

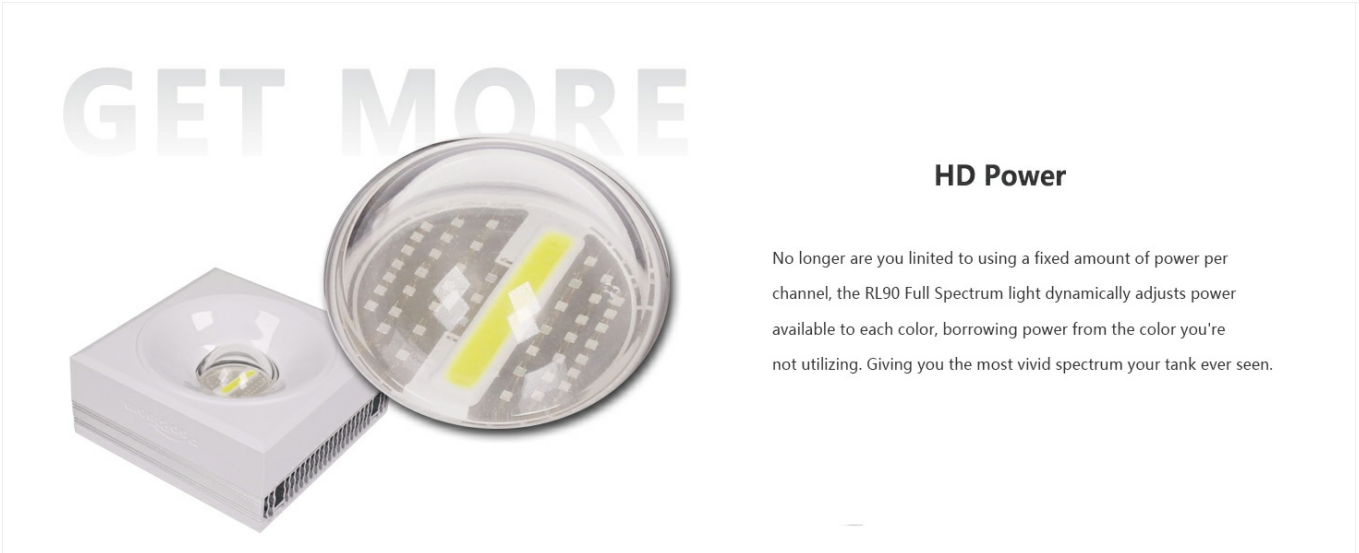


Image: Illustration of the RL90's HD Power feature, which dynamically adjusts power per channel for optimal spectrum.

5. Setup Instructions

5.1. Mounting the Light

The RL90 comes with an arm kit for mounting. Ensure your tank width is suitable for the adjustable length (12-25cm) and height (20-35cm) of the arm kit. The arm kit supports both horizontal and rimless/rimmed tank installations.

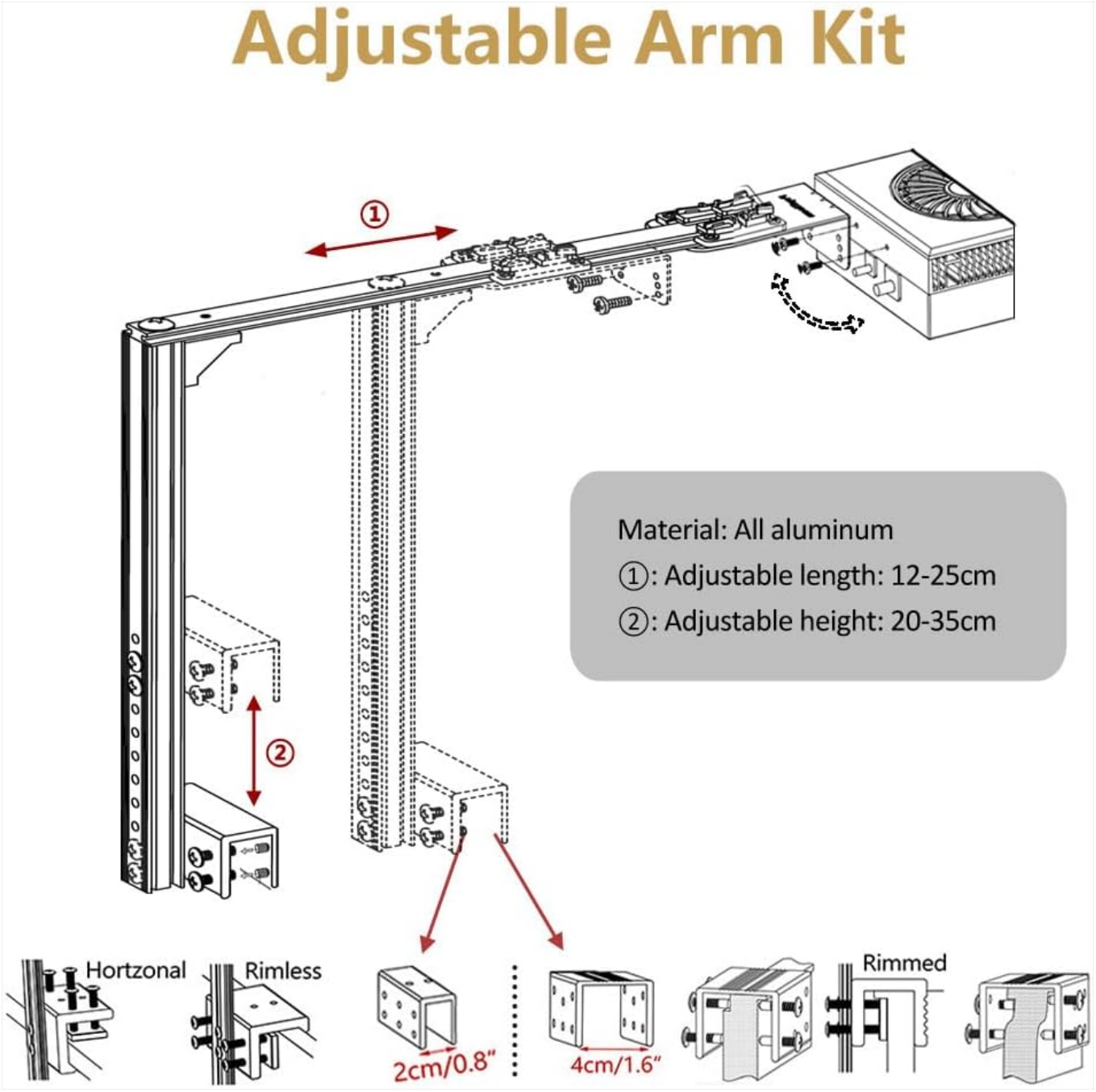


Image: Adjustable arm kit details with dimensions and various tank mounting configurations.

For alternative mounting options like hang kits or pendants, please refer to the specific instructions provided with those accessories.

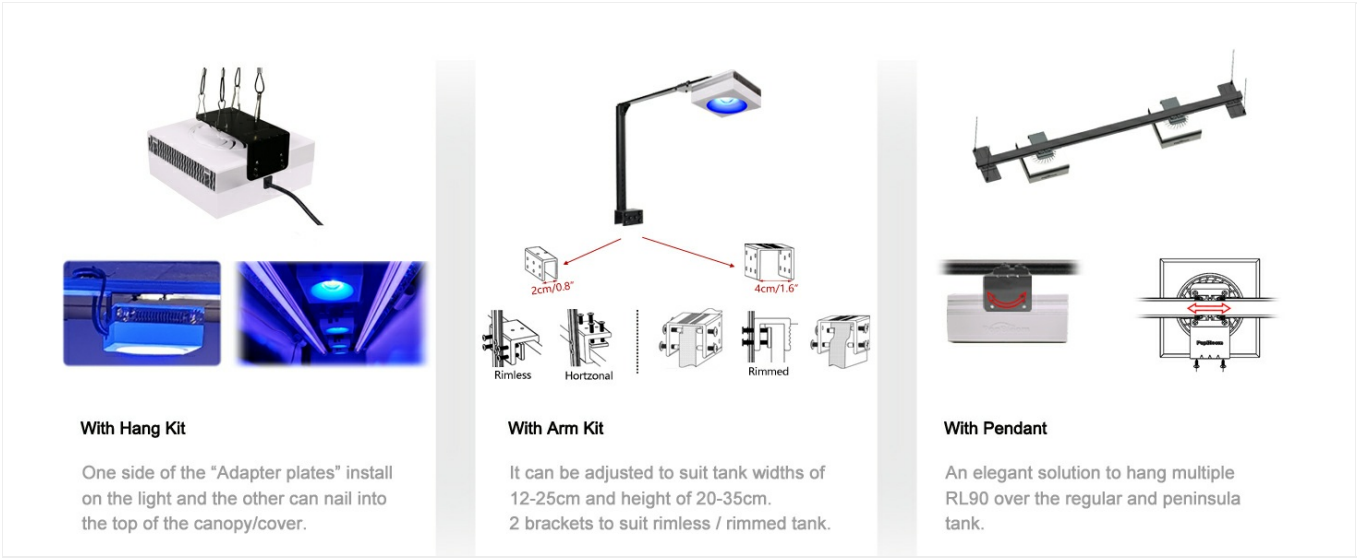


Image: Visual examples of hang kit, arm kit, and pendant mounting solutions.

5.2. Power Connection

Connect each RL90 light unit to its dedicated power supply, then plug the power supply into a suitable electrical outlet. Ensure all connections are secure before powering on.

5.3. SmartLife App Download & Connection

The PopBloom RL90 is controlled via the SmartLife app. Follow these steps to download and connect your lights:

1. **Download the App:** Scan the QR code below or search for "Smart Life" in your device's app store (App Store for iOS, Google Play for Android).
2. **Enable WiFi and Bluetooth:** Ensure both WiFi and Bluetooth are enabled on your smartphone.
3. **Add Device:** Open the SmartLife app, tap "Add Device," and allow the app to discover your PopBloom lights. Alternatively, you can add manually.
4. **Connect to WiFi:** Enter your WiFi network password. Ensure the password is correct.
5. **Name Lights:** Once connected, name each light unit for easy identification (e.g., "left," "right").
6. **Create Group (Optional):** If you have multiple lights, you can create a group to control them simultaneously.



Image: QR code and app store icons for downloading the SmartLife application. The direct link ishttps://smartapp.tuya.com/smartlife.

▶ **Watch video online**
RL90 Wifi Light - How to Download the SmartLife APP

Video: This video demonstrates how to download the SmartLife app and connect your RL90 WiFi light units. It shows enabling WiFi and Bluetooth, adding devices, entering WiFi information, and naming individual lights.

▶ **Watch video online**
RL90 Smart-APP Control Aquarium Reef Light

Video: This video provides a comprehensive guide on connecting the RL90 Smart-APP Control Aquarium Reef Light to the SmartLife app, including adding devices and creating groups for synchronized control.

6. Operating Instructions

6.1. App Overview

The SmartLife app provides comprehensive control over your RL90 lights. After connecting, you can access various settings and programs, including manual control, preset programs, and advanced features like acclimation and lunar cycles.

6.2. Manual Control

In manual mode, you can adjust the intensity of each of the 4 LED channels independently. This allows for quick customization of the light spectrum and intensity to suit your aquarium's specific needs.

▶ **Watch video online**
PAR Tested: RL90 Reef Tank Aquarium Lamp Fish Tank

Video: This video demonstrates PAR testing of the RL90 light and shows how to manually adjust the four channels (Ch1, Ch2, Ch3, Ch4) via the SmartLife app to achieve desired light intensity and spectrum for a reef tank.

6.3. Preset Programs

The app includes a library of 16 preset programs designed for various aquarium types and coral needs, such as SPS dominant, LPS & Soft coral, Fish & Plants, and more. You can select a program and view its lighting schedule over 24 hours.

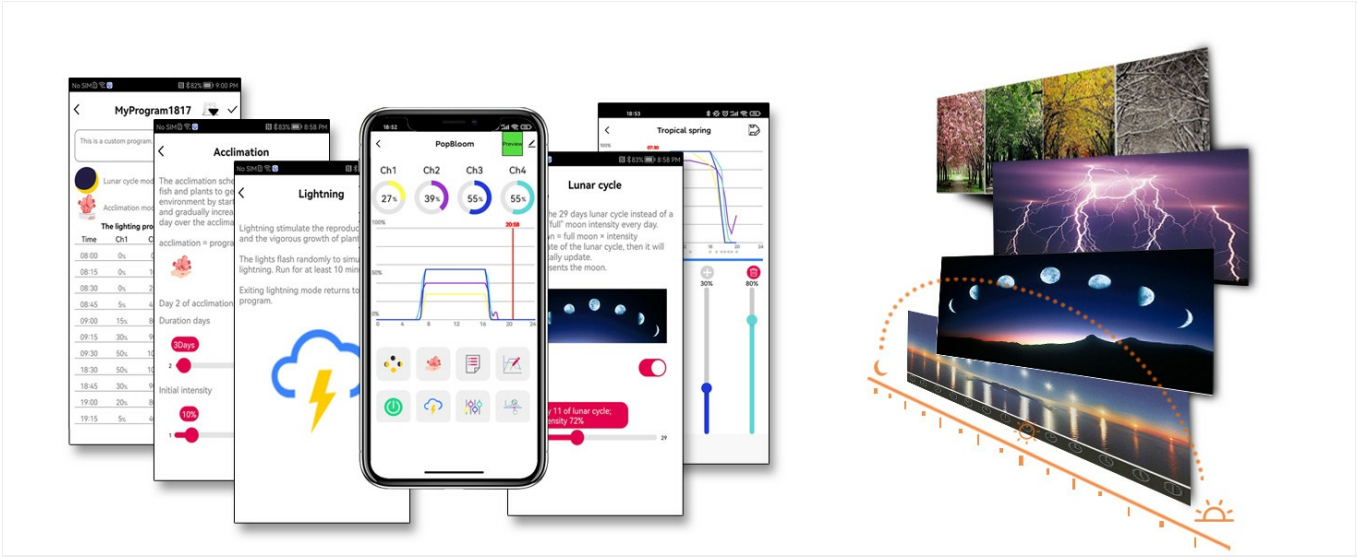


Image: SmartLife app interface displaying various lighting program options and a graphical representation of a daily lighting schedule.

6.4. Custom Program Creation

You can create and save your own custom lighting programs by adjusting time points and channel intensities. This allows for fine-tuned control to meet specific aquarium requirements.

6.5. Acclimation & Lunar Cycle

The app offers features for slow acclimation, allowing corals and fish to gradually adjust to new lighting conditions. You can also activate a 29-day lunar cycle to mimic natural moon phases, with adjustable intensity.

7. Maintenance

7.1. Cleaning

- Regularly wipe the exterior of the light unit with a soft, dry cloth to prevent dust buildup.
- Ensure the lens is clean for optimal light penetration. Use a soft, damp cloth if necessary, then dry thoroughly.
- Do not use abrasive cleaners or solvents.

7.2. Fan Maintenance

The RL90 features a smart cooling fan. Periodically check the fan for any obstructions or excessive dust buildup. Clean gently with a soft brush or compressed air if needed to ensure efficient cooling and extend LED lifespan.

8. Troubleshooting

Problem	Possible Cause	Solution

Light not turning on.	No power, loose connection, faulty power supply.	Check power outlet, ensure all cables are securely connected. Test with another outlet. If issue persists, contact support.
Cannot connect to SmartLife App.	WiFi/Bluetooth off, incorrect password, light not in pairing mode, app issue.	Ensure WiFi and Bluetooth are enabled. Verify WiFi password. Restart the light and app. Follow app's pairing instructions carefully.
Lights not responding to app commands.	Poor WiFi signal, app glitch, light disconnected.	Check WiFi signal strength. Restart the app and light. Re-pair the device if necessary.
Lights getting too hot.	Blocked fan, poor ventilation.	Ensure the cooling fan is clear of obstructions and operating correctly. Provide adequate ventilation around the light unit.

9. Warranty and Support

For warranty information and technical support, please refer to the official PopBloom website or contact your retailer. Keep your purchase receipt as proof of purchase.
Manufacturer: Shenzhen PopBloom Electronic Technology Co., Ltd

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