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PopBloom H54 WiFi with Arm kit

PopBloom H54 WiFi Aquarium LED Light User Manual

Brand: PopBloom | Model: H54 WiFi with Arm kit

Overview What's in the Box Setup Operation Maintenance Troubleshooting Specifications Warranty & Support

1. Overview

The PopBloom H54 WiFi Aquarium LED Light is designed for marine aquariums, specifically for the growth of SPS/LPS corals and saltwater fish. This advanced lighting system features smart APP control, allowing users to manage lighting parameters remotely. It is engineered to provide optimal PAR output and coverage for tanks ranging from 20 to 28 inches.
Key features include:

- **Best Cover Reef Lighting:** Scientifically designed to balance PAR output and coverage, ensuring optimal brightness and PAR levels.
- **APP Control:** All lights can be grouped and controlled simultaneously via a Smart APP (Android/iOS support, 2.4GHz WiFi only). Cloud-control enables remote management from any location.
- **Natural Simulation:** Simulates natural light cycles including sunrise, sunset, 24-hour automatic cycles, 4 seasons, and storm effects, mimicking natural environments for corals.
- **Programmable Usage:** DIY mode allows free setting of start time, end time, and light color & brightness for each channel over a 24-hour period.
- **Best Spectrum:** Provides a perfect blue/UV PopBloom color spectrum suitable for all photosynthetic corals, with an acclimation function for new tank setups or corals.



Figure 1: The PopBloom H54 WiFi Aquarium LED Light installed above a saltwater fish tank, demonstrating its illumination and sleek design.

2. What's in the Box

Upon opening the package, verify that all the following components are included:

- 1 x H54 LED Light Panel
- 1 x Arm Kit (for mounting)
- 1 x Power Supply & Plug
- 1 x User Manual



Figure 2: All components included in the product package, including the light panel, arm kit, power supply, and user manual.

3. Setup

Follow these steps to properly set up your PopBloom H54 WiFi Aquarium LED Light:

1. **Unboxing:** Carefully remove all components from the packaging. Inspect for any damage.
2. **Assemble the Arm Kit:** Attach the arm kit to the light panel using the provided screws. Ensure a secure connection.
3. **Mounting:** Securely attach the arm kit to your aquarium. The arm kit is designed for tanks with a specific rim thickness (refer to arm kit instructions for details). Ensure the light panel is positioned centrally over your tank for optimal light spread.
4. **Connect Power:** Connect the power supply to the light panel, then plug the power adapter into a suitable electrical outlet.
5. **Initial Power On:** Once connected, the light will power on. Proceed to the "Operation" section for APP setup and advanced control.



Figure 3: The ultra-thin design of the H54 light, highlighting its compact form factor and suitability for various tank setups, including those with lids.

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Video 1: This video demonstrates the unboxing and initial setup of the PopBloom H54 WiFi Aquarium LED Light, including assembly of the arm kit and connection to power. It also provides a brief overview of the APP control features.

4. Operation (APP Smart Control)

The PopBloom H54 light is primarily controlled via a dedicated smartphone application. Ensure your device is connected to a 2.4GHz WiFi network for initial setup and control.

4.1. APP Download and Connection

1. **Download the APP:** Scan the QR codes below or search for "Smart Life" or "Tuya Smart" in your device's app store (iOS/Android).



Figure 4: QR codes for downloading the Smart Life and Tuya Smart applications, which are used to control the light. Links: Smart Life, Tuya Smart.

2. **Register/Login:** Create an account or log in to the APP.
3. **Add Device:** Follow the in-app instructions to add your PopBloom H54 light. Ensure the light is powered on and your phone is connected to a 2.4GHz WiFi network. The APP will guide you through the pairing process.

4.2. Lighting Control Features

Once connected, you can access various control features:

- **Channel Control:** The H54 features 4 independent channels (Ch1: 12000K White, Ch2: Moonlight, Ch3: REEF GROW Blue, Ch4: Vivid color). You can adjust the intensity of each channel to customize the spectrum.

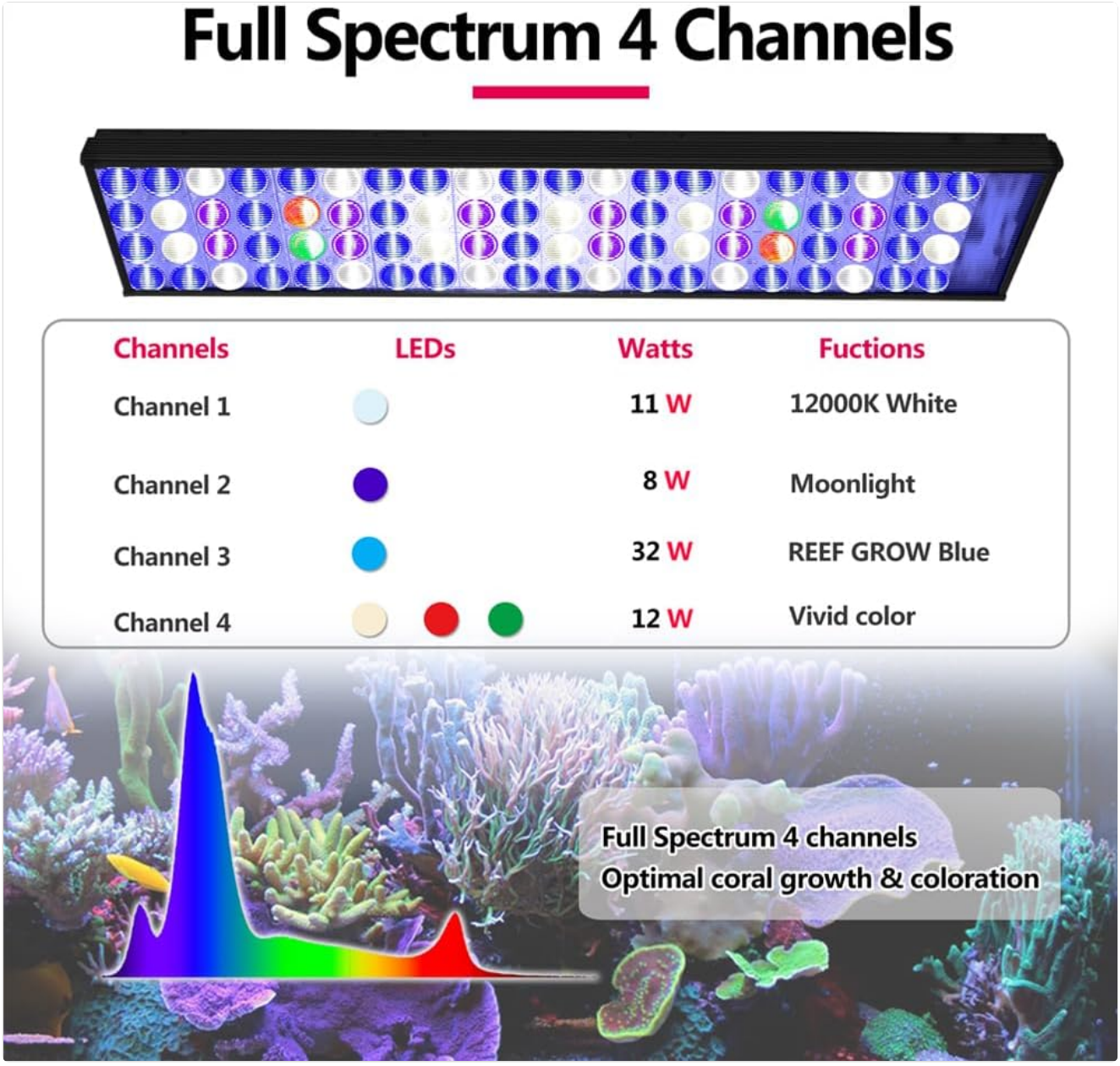


Figure 5: Breakdown of the four distinct LED channels, their wattage, and primary functions for optimal coral growth and coloration.

- **Pre-set Programs:** Select from various pre-set programs like "Tropical Spring," "Tropical Summer," "Temperate Autumn," "Temperate Winter," "Kelp Forest," "SPS Dominant," "LPS & Soft Coral," "Fish & Plants," and "Cut & Hug" to suit different aquarium needs.
- **DIY Mode:** Create custom 24-hour lighting schedules by setting specific times and intensity levels for each channel. This allows for personalized sunrise/sunset effects and other unique lighting patterns.
- **Lunar Cycle:** Activate a 29-day lunar cycle simulation, where moonlight intensity changes daily to mimic natural moon phases.
- **Acclimation Function:** Gradually increase light intensity over a set period (e.g., 10-31 days) to help new corals or tank inhabitants adapt to the new lighting environment, preventing shock.
- **Group Control:** Control multiple PopBloom lights simultaneously by grouping them within the APP.



Figure 6: The PopBloom APP interface, showcasing features such as built-in WiFi, multiple light grouping, and remote control capabilities.

5. Maintenance

Proper maintenance ensures the longevity and optimal performance of your PopBloom H54 LED Light:

- **Regular Cleaning:** Periodically wipe the light panel and lenses with a soft, damp cloth to remove salt creep, dust, and water spots. Ensure the light is unplugged before cleaning.
- **Ventilation:** Ensure the cooling fins on the light are free from obstructions to allow for efficient heat dissipation. Good airflow prevents overheating and extends LED lifespan.
- **Power Supply Check:** Inspect the power supply and cables for any signs of wear or damage. Replace if necessary.
- **Firmware Updates:** Check the PopBloom APP regularly for any available firmware updates for your light. Updates can improve performance and add new features.



Figure 7: The modular-built and refined design of the light, featuring efficient aluminum finned cooling for heat dissipation and an engineered diffuser for improved color mixing.

6. Troubleshooting

If you encounter issues with your PopBloom H54 LED Light, refer to the following common problems and solutions:

- **Light Not Turning On:**
  - Check if the power adapter is securely plugged into both the light and the electrical outlet.
  - Verify the electrical outlet is functional by plugging in another device.
  - Ensure the power switch (if any) on the cable is in the "On" position.
- **Cannot Connect to APP:**
  - Confirm your smartphone is connected to a 2.4GHz WiFi network. The light does not support 5GHz networks.
  - Ensure the light is in pairing mode (refer to APP instructions for specific steps, usually involves a reset).
  - Move your phone closer to the light and WiFi router during the pairing process.

- Restart the APP and try again.

- **Inconsistent Light Output:**
  - Check APP settings to ensure no conflicting schedules or manual overrides are active.
  - Clean the light lenses and LEDs to remove any obstructions affecting light output.
  - Verify the power supply is providing stable power.

- **Light Overheating:**
  - Ensure adequate ventilation around the light. Do not place it in an enclosed space without airflow.
  - Clean any dust or debris from the cooling fins.
  - If the issue persists, reduce the overall intensity of the light.

If these steps do not resolve the issue, please contact PopBloom customer support for further assistance.

7. Specifications

Feature	Detail
Model Number	S54/H54
Dimensions (L x W x H)	21.26 x 4.72 x 1.38 inches (54 x 12 x 3.5 cm)
Item Weight	3 pounds
Wattage	60 watts
Light Source Type	Light Emitting Diode (LED)
Material	Glass-Aluminum Oxide (Housing: Aluminum)
Color	Black
Control Method	APP Group-control (2.4GHz WiFi), Remote
Color Rendering Index (CRI)	95
Mounting Type	Wall Mount (with included Arm kit)
Peak PAR @ Water Surface	500 µMol
Peak PAR @ 24" Depth	140 µMol

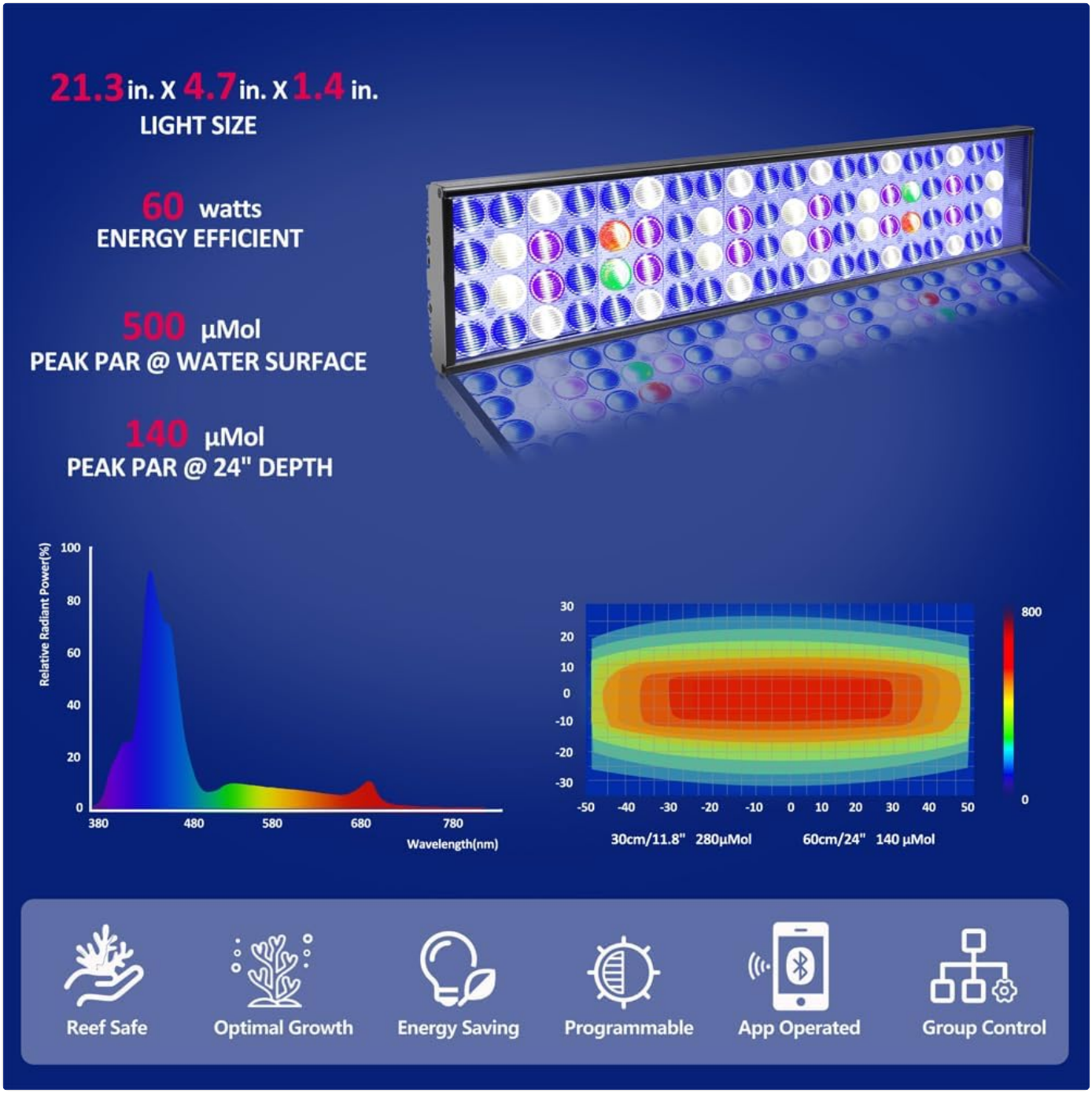


Figure 8: Detailed dimensions of the light and its PAR output at different depths, illustrating its energy efficiency and light distribution.

8. Warranty & Support

PopBloom products are manufactured to high-quality standards. For warranty information, technical support, or any inquiries regarding your H54 WiFi Aquarium LED Light, please refer to the contact details provided in the included user manual or visit the official PopBloom website.

Keep your purchase receipt as proof of purchase for warranty claims.

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