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› [PopBloom](#) /

› PopBloom RL60 WiFi Reef LED Light Instruction Manual

PopBloom RL60 WiFi

PopBloom RL60 WiFi Reef LED Light Instruction Manual

Model: RL60 WiFi | Brand: PopBloom

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your PopBloom RL60 WiFi Reef LED Light. This 60W full spectrum marine reef LED aquarium lighting system is designed for soft and LPS corals, as well as saltwater fish nano tanks. It features a built-in timer, WiFi phone programmability, and sunrise/sunset simulation capabilities.



Figure 1.1: PopBloom RL60 WiFi Reef LED Light.

2. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 1x RL60 black light
- 1x black arm kit
- Power Cable
- User Manual

Package List



1x RL60 Light with parallel bracket



1x Vertical Bracket



1x Base & screws



1x Power supply & plug



1x User Manual

Figure 2.1: Contents of the RL60 package, including the light unit, arm kit, power supply, and user manual.

3. SPECIFICATIONS

| Feature | Description |
|--------------------|---------------------------|
| Model Number | RL60 WiFi |
| Power | 60 watts |
| Light Source Type | LED |
| Product Dimensions | 4.8"D x 6.4"W x 2"H |
| Item Weight | 2.5 Pounds |
| Material Type | Aluminum |
| Control Method | App (WiFi) |
| Mounting Type | Clamp Mount (Arm Bracket) |

| | |
|---------------------|--|
| Compatibility | Fits 20–36" L, 24" W, 24" D tanks, rimless & rimmed compatible |
| Additional Features | WiFi Group Control, 24Hrs Cycle, Sunrise/Sunset, 4 Season, Lunar Cycle |

RL60 Parameter

60 W

LED array

500 PAR

at Surface

100 PAR

at 50cm / 20" depth

4 Channels

12 W

12000K white
CH 1

8 W

Moonlight
CH 2

30 W

Reef-grow blue
CH 3

10 W

Vivid color
CH 4

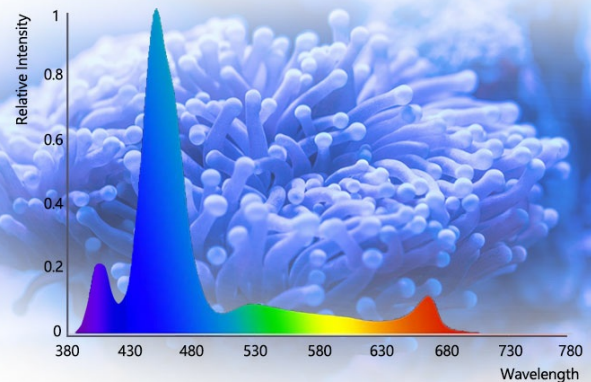
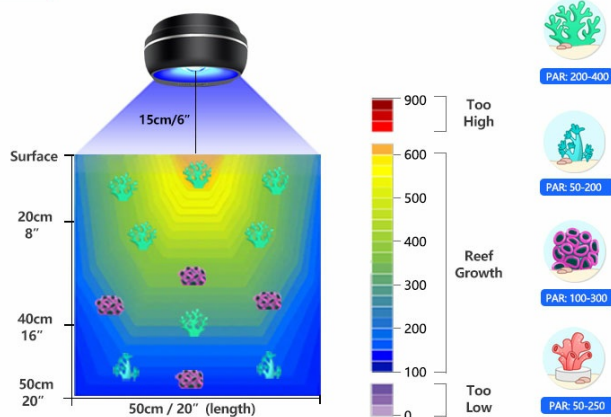


Figure 3.1: Detailed parameters of the RL60 light, including wattage, PAR values, and 4-channel LED configuration.

PAR distribution



| Sample Tank Sizing & Light Quantity Reference | | | |
|---|----------------------|--------------|----------|
| Redsea Tank | Display Size (LxWxH) | Water Volume | Quantity |
| NANO G2 Cube | 18x18x18 inch | 75 L | 1 pcs |
| NANO G2 Peninsula | 18x23x18 inch | 100 L | 1 pcs |
| REEFER 200 G3 | 20x22.6x20.9 inch | 200 L | 1 pcs* |
| NANO G2 XL | 20x24x20 inch | 125 L | 1 pcs |
| REEFER 170 G3 | 24x20x20.1 inch | 165 L | 1 pcs |
| NANO G2 XXL | 36x21.7x20 inch | 200 L | 2 pcs |
| REEFER 250 G3 | 36x20x20.9 inch | 245 L | 2 pcs |
| REEFER 300 G3 | 36x22.6x21.7 inch | 300 L | 2 pcs* |

* : RL90 recommended for thriving reef tanks

Figure 3.2: PAR distribution map showing light intensity at various depths and distances from the RL60 light source.

4. SETUP AND INSTALLATION

The PopBloom RL60 light is designed for easy, tool-free installation on both rimless and rimmed aquariums.

4.1 Mounting the Light

1. Attach the vertical bar into the base.
2. Insert the lamp into the vertical bar.
3. Manage the power cable and attach screws to secure the base to your aquarium rim. The adjustable arm kit allows for flexible positioning.

Newly Upgraded ⑤ : 3rd Arm Kit

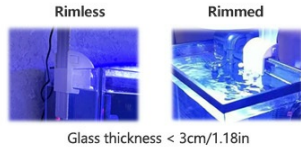



Figure 4.1: The adjustable arm kit, showing adjustable length and height, and compatibility with rimless and rimmed tanks up to 3cm/1.18in glass thickness.

Specification



60 w
Compact LED array


100 PAR
at 60 cm / 24" in depth

14x12x5 cm | 5.6x4.8x2 inch
light panel dimension


4 Channels

| | | | |
|------------------------------------|--------------------------------|--------------------------------------|-----------------------------------|
| 12 w 12000K white CH1 | 8 w Moonlight CH2 | 30 w Reef-grow Blue CH3 | 10 w Vivid Color CH4 |
|------------------------------------|--------------------------------|--------------------------------------|-----------------------------------|


Package




1 x WiFi Lamp




1 x Vertical Bar



1 x Base & Screws




1 x Power Adapter




1 x User Manual


Installation



① Insert vertical bar into the base



② Insert the lamp into vertical bar



③ Manage cable & attach screws to base

Figure 4.2: Visual guide for the installation process of the RL60 light, from assembling the arm to mounting it on the tank.

4.2 Tank Compatibility

The RL60 is suitable for tanks ranging from 20 to 36 inches in length, 24 inches in width, and 24 inches in depth. The rearward sliding mounting arms ensure compatibility with various tank sizes and types.

Compatibility



Maximum water depth: 60cm / 24 inch

Sample Tank Sizing & Light Quantity Reference

| Redsea Tank | Display Size (LxWxH) | Water Volume | Quantity |
|-------------------|----------------------|--------------|----------|
| NANO G2 Cube | 18x18x18 inch | 75 L | 1 pcs |
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* : RL90 recommended for thriving reef tanks

Figure 4.3: Sample tank sizing and light quantity reference for various Redsea tank models, indicating optimal light usage.

5. OPERATION

The PopBloom RL60 features WiFi connectivity for smart control via a dedicated mobile application.

5.1 App Connection

1. Download and install the recommended app (e.g., SmartLife - Smart Living) on your smartphone.
2. Ensure your phone's WiFi and Bluetooth are enabled.
3. Open the app and select "Add Device".
4. Connect your phone to your home 2.4GHz WiFi network.
5. Follow the in-app instructions to add and connect to the RL60 light.

Simple Connection

- Download and install the app
- Open the phone Wi-Fi and bluetooth
- Open the app to "Add Device"
- Connect to your home wifi
- Add & connect to the light

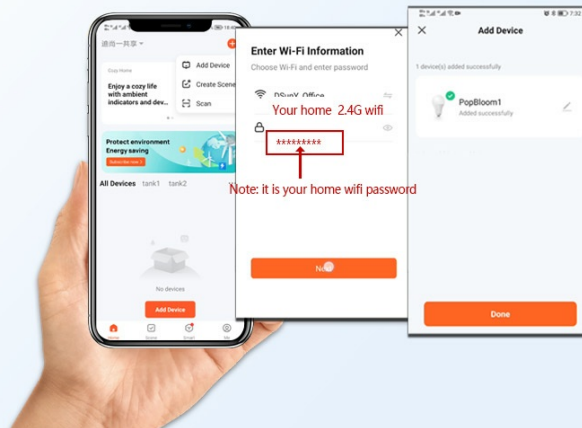


Figure 5.1: Visual guide for connecting the RL60 light to the mobile application via WiFi.

5.2 Lighting Presets and Customization

The app offers various options for controlling your light:

- **Preset Modes:** Choose from 16 dedicated lighting preset programs for different reef scenarios, including SPS, LPS, mixed corals, fish, acclimation, and sea-depth simulations.
- **24-Hour Auto Cycle:** Set a daily schedule for automated lighting changes.
- **4-Channel Independent Dimming:** Adjust the brightness of each of the four LED channels independently.
- **DIY (Custom) Program:** Create personalized lighting schedules by setting ramp-up and ramp-down times, and adjusting the brightness of each channel at specific time points throughout a 24-hour cycle.
- **Natural Simulation:** Simulate natural lighting conditions such as lunar cycles, temperate and tropical seasons, and lightning storms.

Beginner Friendly

- 16 preset modes
- One-click fast setup
- 24 hours auto cycle

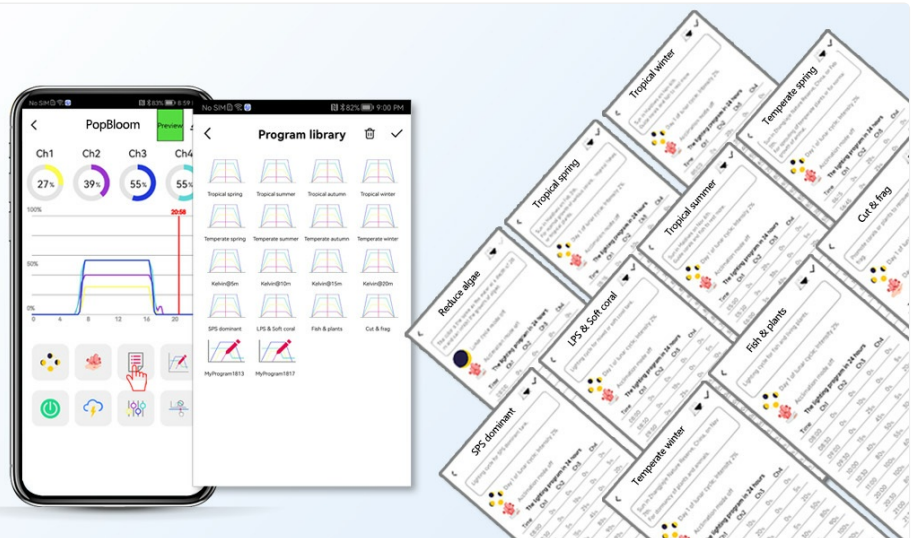


Figure 5.2: The app interface showing various preset modes and the 24-hour auto cycle feature, designed for ease of use.

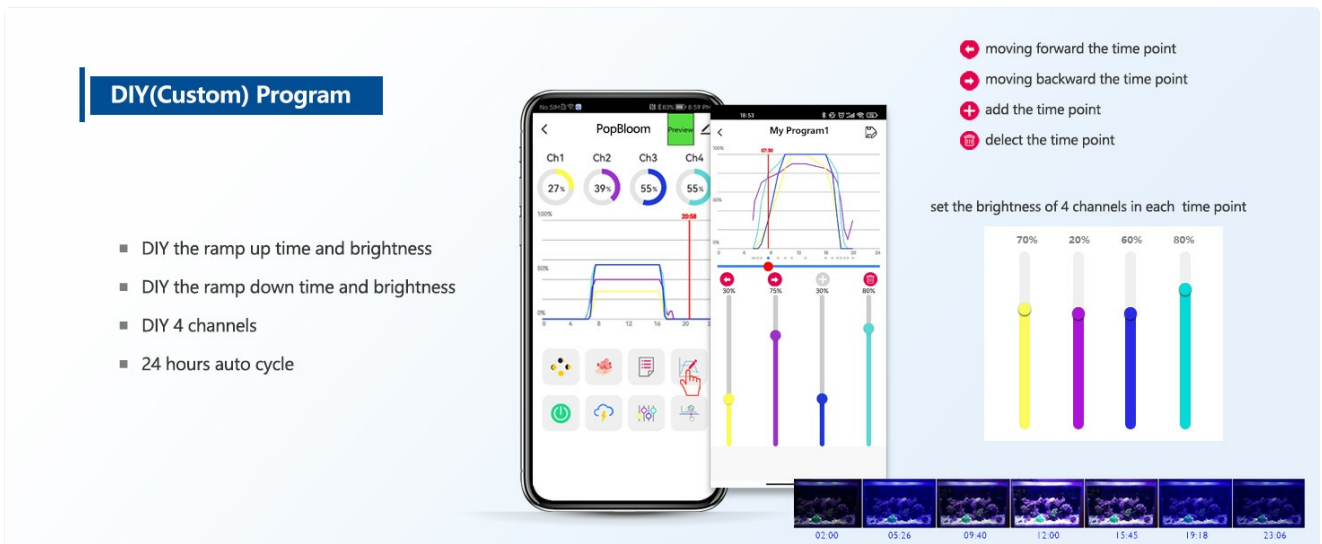


Figure 5.3: The DIY program interface, allowing users to customize ramp times and individual channel brightness settings.

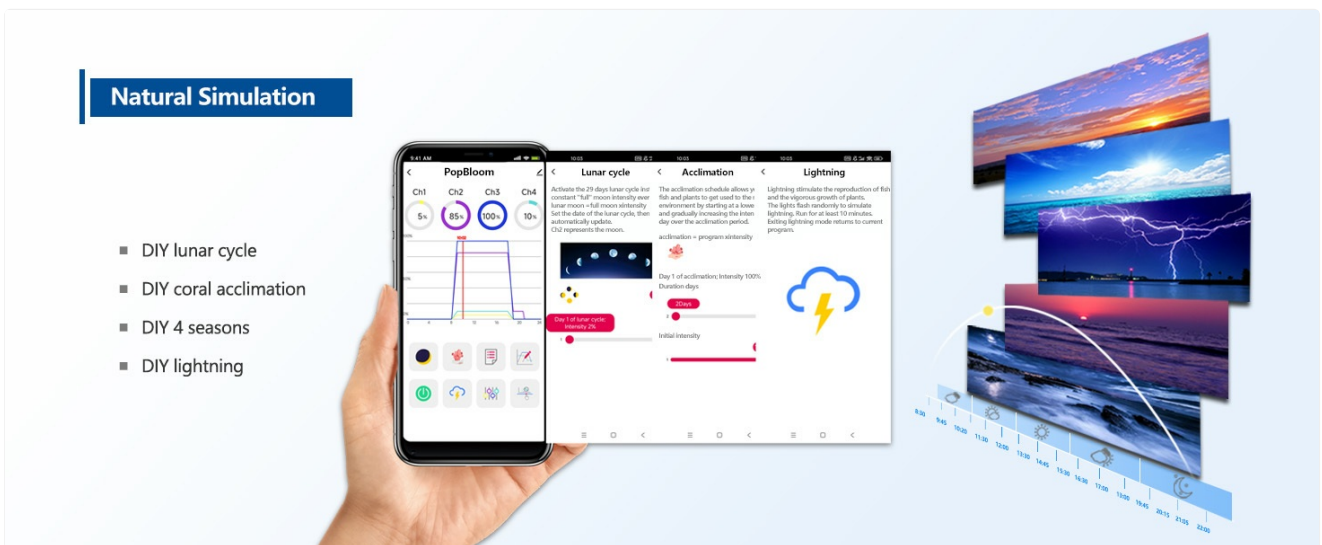


Figure 5.4: App features for simulating natural phenomena like lunar cycles, seasonal changes, and lightning.

5.3 Dual Light Sync

For larger tanks (e.g., 36" L tanks), two RL60 units can be synchronized via the app to provide uniform brightness across the entire aquarium.



Figure 5.5: Overview of WiFi smart control and the dual light sync feature for extended tank coverage.

5.4 Media Examples of Light in Use

Video 5.1: Demonstration of the PopBloom RL60 light enhancing coral colors in an aquarium.

Video 5.2: A brief overview of the light's performance in an aquarium setting.

Video 5.3: The RL60 light illuminating a 20-gallon cube reef tank.

Video 5.4: Display of the light's color rendition and suitability for nano reef tanks.

Video 5.5: Features of the RL60 light, highlighting its reef-safe spectrum and intelligent app control.

Video 5.6: Showcase of the beautiful shimmering lighting effect provided by the RL60 in a nano reef tank.

6. MAINTENANCE

To ensure optimal performance and longevity of your PopBloom RL60 WiFi Reef LED Light, regular maintenance is recommended:

- **Cleaning:** Periodically wipe the light fixture and lens with a soft, damp cloth to remove salt creep, dust, and water spots. Ensure the light is unplugged before cleaning.
- **Ventilation:** Ensure the fan and ventilation openings are free from obstructions to allow for proper heat dissipation.
- **Cable Inspection:** Regularly check the power cable for any signs of damage or wear. Replace if necessary.

7. TROUBLESHOOTING

If you encounter issues with your PopBloom RL60 light, refer to the following common solutions:

- **Light Not Turning On:** Check the power connection to ensure it is securely plugged into both the light and the power outlet. Verify the power adapter is functioning correctly.
- **App Connection Issues:** Ensure your smartphone is connected to a 2.4GHz WiFi network. Restart the app and the light fixture. Confirm that the light is in pairing mode if attempting to reconnect.
- **Settings Not Retained After Power Outage:** In the event of a power outage, the light may not retain its programmed schedule. You may need to resync the light with the app and re-enter your desired schedule.
- **Fan Noise:** Some fan noise is normal during operation. If the fan becomes excessively loud, ensure there are no obstructions to the fan blades and that the unit is clean.
- **Inconsistent Light Output:** Check app settings to ensure no unintended programs or dimming schedules are active. Clean the lens to remove any buildup that might be affecting light distribution.

For further assistance, please contact PopBloom customer support.

8. WARRANTY AND SUPPORT

The PopBloom RL60 WiFi Reef LED Light comes with a **2-year manufacturer warranty**. For warranty claims, technical support, or any product-related inquiries, please contact Shenzhen PopBloom Electronic Technology Co., Ltd. or your authorized retailer.

Manufacturer: Shenzhen PopBloom Electronic Technology Co., Ltd