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RG RayGalax RG-524-2P

RG RayGalax 2x4 LED Flat Panel Light User Manual

Model: RG-524-2P

Introduction	Safety Information	Package Contents	Product Features	Specifications
Setup & Installation	Operation	Maintenance	Troubleshooting	Warranty & Support

1. INTRODUCTION

Thank you for choosing the RG RayGalax 2x4 LED Flat Panel Light. This product is designed to provide efficient, adjustable, and high-quality illumination for various indoor environments. With selectable color temperatures (CCT) and power modes, along with 0-10V dimming capability, this LED panel light offers versatile lighting solutions while significantly reducing energy consumption.

This manual provides detailed instructions for the safe installation, operation, and maintenance of your new LED panel light. Please read it thoroughly before installation and retain it for future reference.

2. SAFETY INFORMATION

WARNING: Risk of electric shock. Disconnect power at the fuse or circuit breaker before installing or servicing.

- Read all instructions carefully before installation.
- Installation must be performed by a qualified electrician in accordance with national and local electrical codes.
- Ensure the supply voltage is compatible with the fixture's requirements (120-277V AC).
- Do not install in wet locations. This product has an IP40 moisture-proof rating, suitable for indoor use only.
- Do not handle the fixture with wet hands.
- Avoid looking directly into the LED light source when illuminated.
- Ensure the fixture is securely mounted to prevent falling.
- Do not modify the fixture in any way. Unauthorized modifications may void the warranty and create safety hazards.

3. PACKAGE CONTENTS

The RG RayGalax 2x4 LED Flat Panel Light package typically includes:

- 2 x RG RayGalax 2x4 LED Flat Panel Light Fixtures
- 1 x User Manual
- Mounting clips for recessed installation

Note: Hanging and flush mounting kits are not included and must be purchased separately if required for your installation type.

4. PRODUCT FEATURES

Adjustable Color Temperature (CCT)

Select from 5 color temperatures to suit your environment and preference:

- **3500K** (Warm White)
- **4000K** (Neutral White)
- **5000K** (Bright White)
- **5700K** (Daylight White)
- **6500K** (Cool White)

The CCT selection switch is located on the side of the driver. Adjust before installation.

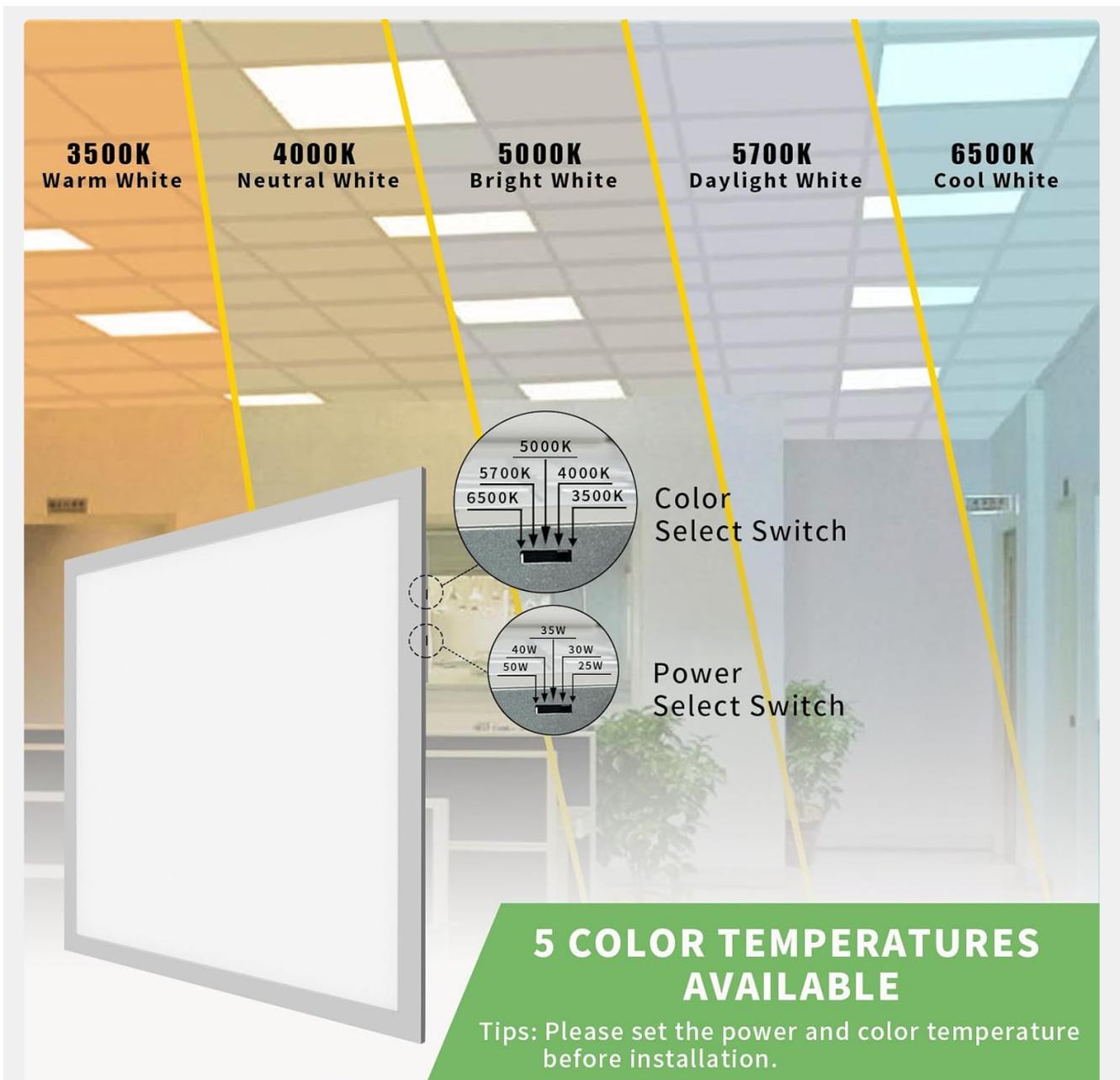


Image: Detail of the switches for adjusting color temperature and wattage on the light fixture's driver.

Adjustable Power Modes (Wattage)

Choose from 5 wattage settings to control brightness and energy consumption:

- **25W** (3250 LM)
- **30W** (3900 LM)
- **35W** (4550 LM)
- **40W** (5080 LM)
- **50W** (6250 LM)

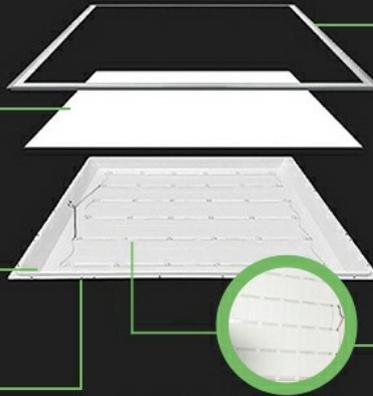
The wattage selection switch is also located on the side of the driver. Adjust before installation.

Panel Light structure

PS Diffuser Plate
(Emitting bright & uniform light)

Aluminium back plate
(High cooling efficiency, Does not absorb dust easily)

Stainless Steel Screws
(Sealed to prevent rust & fall off)



High Quality Aluminum Frame
(Anti-corrosion & Anti-rust & Durability)

LED Bead And PC Lens
(High brightness & More energy saving)

Image: Illustration demonstrating the visual difference in brightness for each of the 5 selectable wattage modes (25W to 50W).

0-10V Dimmable

Enjoy smooth, continuous dimming from 5% to 100% when connected to a compatible 0-10V dimmer (dimmer not included). This feature allows for precise control over lighting levels without flicker or noise.

Recessed Installation Guide



STEP 1

Turn off the power at the breaker. And remove of ceiling tile.



STEP 2

Open driver box cover. Connect the wires



STEP 3

Place the panel light into grid ceiling. Bend each T-grid clip 90° away from the fixture housing and bend the top part 90° again. Then secure onto the T-grid railing.



STEP 4

Turn on the power

Image: Visual representation of the 0-10V dimming capability, showing the light fixture at various brightness levels from 100% down to 5%.

Energy Saving & Long Lifespan

Designed with high-efficiency LED chips, this panel light can save up to 72% on electricity bills compared to

traditional 140W fluorescent lamps. With a lifespan of over 50,000 hours, it eliminates frequent bulb replacements and maintains light quality without yellowing or darkening.



LED Flat Panel Light	Fluorescent light
5 Color	1 Color
Dimmable	Not dimmable
Dustproof	Easy to get dirty
Lightweight	Heavy
Long life	Frequent bulb changing
Energy saving	High power consumption
Not yellowing	Yellowing after 1 year

Image: A side-by-side comparison illustrating the energy efficiency of the RG RayGalax LED panel light (72% energy saving) against a traditional 140W fluorescent fixture.

Certifications & Quality

This product is ETL, FCC, RoHS, and CE certified, ensuring high standards of safety and performance. It also features an IP40 moisture-proof rating, making it suitable for various indoor environments.

Versatile Installation

Supports three installation methods: Recessed, Surface Mounted, and Drop Mounted. Recessed installation hardware is included. Surface and Drop mounting kits are sold separately.

Surface Mounted (Not Included)



Recessed Mounted (Direct Use)



Drop Mounted (Not included)

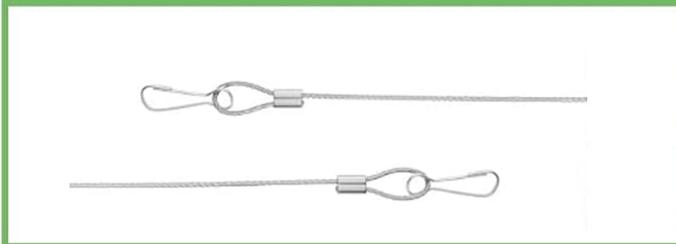


Image: Illustrations depicting the three possible installation types for the LED panel light: Surface Mounted (frame not included), Recessed Mounted (direct use with clips), and Drop Mounted (cables not included).

5. SPECIFICATIONS

Attribute	Value
Brand	RG RayGalax
Model Number	RG-524-2P
Product Dimensions	50.19"L x 27.16"W x 3.93"H
Item Weight	18.51 pounds
Material	Aluminum, Acrylic
Color	White
Light Source Type	LED

Attribute	Value
Voltage	120-277 Volts AC
Wattage (Adjustable)	25W, 30W, 35W, 40W, 50W
Brightness (Max)	6250 Lumens (at 50W)
Color Temperature (Adjustable)	3500K, 4000K, 5000K, 5700K, 6500K
Dimmability	0-10V Dimmable (dimmer not included)
Lifespan	50,000 hours
Certifications	ETL, FCC, RoHS, CE
IP Rating	IP40 (Moisture-proof)
Installation Type	Recessed (clips included), Surface/Drop (kits not included)
Indoor/Outdoor Usage	Indoor use only

6. SETUP & INSTALLATION GUIDE

This section details the recessed installation process. For surface or drop mounting, please refer to the instructions provided with the respective mounting kits (sold separately).

Pre-Installation Steps:

- Safety First:** Turn off the power at the circuit breaker before beginning any installation work.
- Unpack:** Carefully remove the LED panel light from its packaging. Inspect for any damage.
- Adjust Settings:** Before installation, use the switches on the side of the driver to select your desired Color Temperature (CCT) and Wattage. These settings are difficult to change once the panel is installed.

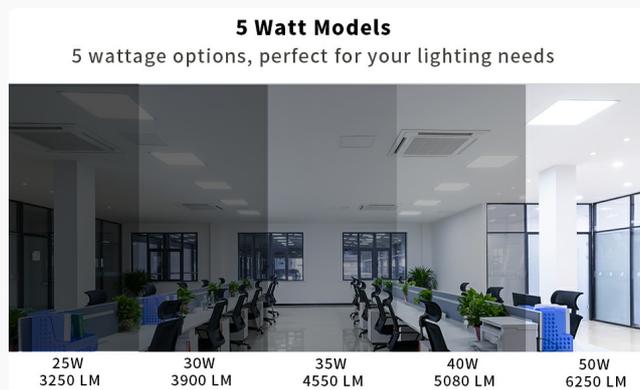


Image: Close-up of the Color Select Switch and Power Select Switch on the LED panel light. Ensure these are set before installation.

Recessed Installation Steps:

This method is for installation into a T-grid ceiling system.

1. Step 1: Prepare the Ceiling

Turn off the power at the breaker. Remove the existing ceiling tile from the desired installation location.



Image: Illustration of turning off power and removing a ceiling tile to prepare for recessed light installation.

2. **Step 2: Wire Connections**

Open the driver box cover. Connect the AC power wires (Live, Neutral, Ground) from the building's electrical supply to the corresponding wires on the LED panel's driver. If using a 0-10V dimmer, connect the dimming wires (purple and gray) to the dimmer circuit. Ensure all connections are secure and insulated.



Image: Illustration showing the process of opening the driver box and connecting electrical wires to the LED panel light.

3. **Step 3: Secure the Panel**

Place the LED panel light into the T-grid ceiling opening. Bend each T-grid clip 90° away from the fixture housing, then bend the top part 90° again. Secure these clips onto the T-grid railing to hold the fixture in place.



Image: Illustration demonstrating how to place the LED panel into the ceiling grid and secure it using the integrated mounting clips.

4. **Step 4: Power On**

Once the fixture is securely installed and all wiring is complete, restore power at the circuit breaker. Test the light and dimming function.



Image: Illustration showing the final step of turning on the power after successful installation of the LED panel light.

7. OPERATING INSTRUCTIONS

Adjusting Color Temperature (CCT) and Wattage:

The CCT and wattage settings are adjusted via switches located on the side of the LED driver. These adjustments should ideally be made before installation for convenience, but can be accessed if the panel is removed or if the driver is accessible.

1. **CCT Selection:** Locate the "Color Select Switch" on the driver. Slide the switch to choose between 3500K, 4000K, 5000K, 5700K, or 6500K.
2. **Wattage Selection:** Locate the "Power Select Switch" on the driver. Slide the switch to select your desired wattage: 25W, 30W, 35W, 40W, or 50W.

Note: Changes to CCT and wattage will take effect immediately upon selection.

0-10V Dimming:

If your fixture is connected to a compatible 0-10V dimmer switch (not included), you can control the brightness level from 5% to 100%. Operate the dimmer switch according to its manufacturer's instructions.

Ensure the dimmer is compatible with 0-10V LED drivers for optimal performance and to avoid damage.

8. MAINTENANCE

The RG RayGalax LED Flat Panel Light requires minimal maintenance due to its long lifespan and durable construction.

- **Cleaning:** Ensure the power is off before cleaning. Use a soft, dry, or slightly damp cloth to wipe the surface of the panel. Do not use harsh chemicals, abrasive cleaners, or solvents, as these can damage the finish or acrylic diffuser.
- **Inspection:** Periodically inspect the fixture for any signs of damage or loose connections. If any issues are found, disconnect power and consult a qualified electrician.
- **No User-Serviceable Parts:** There are no user-serviceable parts inside the fixture. Do not attempt to open or repair the unit yourself.

9. TROUBLESHOOTING

If you encounter issues with your LED panel light, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Light does not turn on.	<ul style="list-style-type: none">• No power supply.• Loose wiring connection.• Faulty switch or circuit breaker.• Incorrect CCT/Wattage switch setting.	<ul style="list-style-type: none">• Check if the circuit breaker is ON.• Verify all wire connections are secure.• Test the switch or breaker.• Ensure CCT/Wattage switches are set to a valid position.
Light flickers or dims unexpectedly.	<ul style="list-style-type: none">• Incompatible dimmer switch.• Loose wiring.• Voltage fluctuations.	<ul style="list-style-type: none">• Ensure a 0-10V compatible dimmer is used.• Check all electrical connections.• Consult an electrician to check power supply stability.

Problem	Possible Cause	Solution
Light output is too low/high.	<ul style="list-style-type: none">• Incorrect wattage setting.• Dimmer set too low/high.	<ul style="list-style-type: none">• Adjust the wattage switch on the driver.• Adjust the 0-10V dimmer to the desired level.
Color temperature is not as expected.	<ul style="list-style-type: none">• Incorrect CCT setting.	<ul style="list-style-type: none">• Adjust the CCT switch on the driver to the desired color.

If the problem persists after attempting these solutions, please contact RG RayGalax customer support for assistance.

10. WARRANTY & SUPPORT

RG RayGalax stands behind the quality of its products. This LED drop ceiling light comes with ETL, FCC, RoHS, and CE certifications, ensuring its reliability and safety.

For any quality issues or concerns, please do not hesitate to contact us. Your satisfaction is our primary concern. Please refer to your purchase documentation or the RG RayGalax official website for specific warranty terms and contact information.

Contact Information:

Website: [Visit the RG RayGalax Store on Amazon](#)

Email: (Refer to product packaging or official website)

Phone: (Refer to product packaging or official website)