

SZHLUX SZ-2T40N

SZHLUX LED Grow Light 2ft 40W (Model SZ-2T40N) Instruction Manual

For Indoor Plants - Full Spectrum with 660nm & 730 IR

1. INTRODUCTION

Thank you for choosing the SZHLUX LED Grow Light. This manual provides essential information for the safe and effective use of your new grow light. Please read it thoroughly before installation and operation.

2. SAFETY INSTRUCTIONS

- Always disconnect the power supply before installation, maintenance, or cleaning.
- Do not operate the light with a damaged cord or plug.
- Ensure the installation surface is stable and can support the weight of the fixture.
- This product is designed for indoor use only. Do not expose to water or high humidity.
- Do not look directly into the LED lights when operating, as this may cause eye strain.
- Keep out of reach of children.
- Do not connect more than 4 lights in series to avoid short-circuiting and damage.
- When connecting lights in series, ensure only one end is connected to the power cord. Connecting both ends to power will cause a short circuit.

3. PACKAGE CONTENTS

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

- LED Grow Light (x2)
- Power Cord (x1)
- Double-ended Connecting Cord (x1)
- Daisy Chain (x4)
- Cable Tie (x8)

- Expansion Nail Plug (x4)
- Ceiling Expansion Nail (x4)
- Plug Cover (x2)
- Ceiling Clip (x4)
- Fixed Plug (x8)
- Clips (x4)
- Hook (x4)
- Ceiling Screw (x4)
- User Manual (x1)

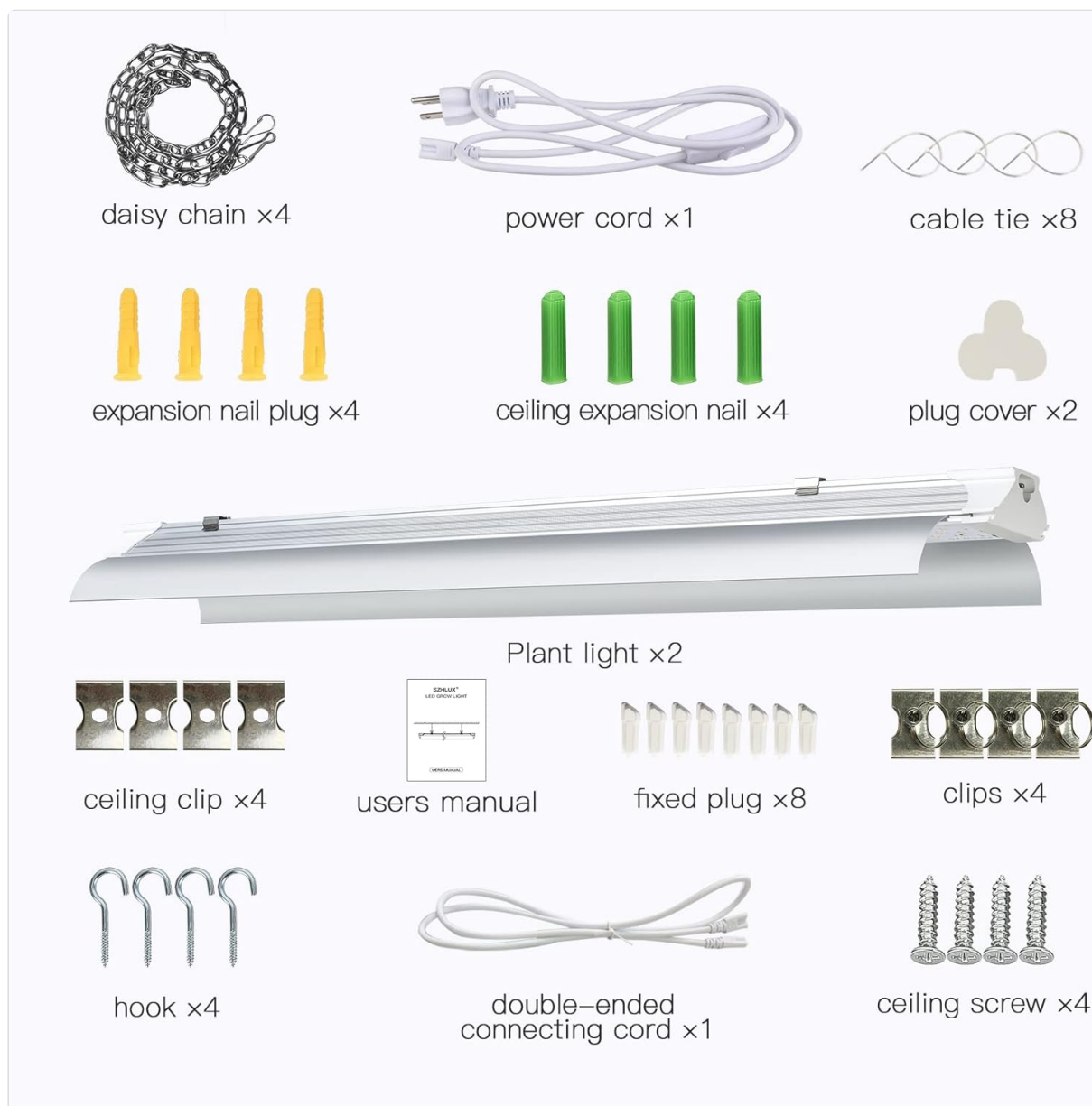


Image: All components included in the SZHLUX LED Grow Light package.

4. SPECIFICATIONS

Brand	SZHLUX
Model Number	SZ-2T40N

Wattage	40 Watts (each light)
Voltage	120 Volts
Light Source	LED (96 LEDs total: 72 White, 24 Red)
Light Color	Full Spectrum (5000K White, 660nm Red, 730 IR)
Brightness	5440 Lumen
Efficiency	17% to 20%
Material	Aluminum
Item Dimensions (L x W x H)	23.6"L x 3.15"W x 2.17"H
Item Weight	1.43 Kilograms
Water Resistance Level	Not Water Resistant
Mounting Type	Ceiling Mount, Hanging



5. FEATURES

- **Full Spectrum Lighting:** Equipped with 72 white LEDs (5000K) and 24 red LEDs (660nm-710nm, including 730 IR) to provide a comprehensive light spectrum for all plant growth stages.
- **High Output & Efficiency:** Consumes 40W, featuring double-chip 1W LEDs for high light output and energy absorption by plants.
- **Trapezoid-Shape Design:** Offers a larger luminous area compared to traditional T5 and T8 LED plant lights, ensuring broader light coverage.
- **Excellent Heat Dissipation:** Constructed with a 100% aluminum shell for rapid cooling, extending the lifespan of the LED chips.
- **Linkable Design:** Supports connecting up to 4 lights in series using included connecting cords or small connectors, allowing for flexible expansion.

FULL SPECTRUM SUNLIKE LIGHTING

96 PCS 2835 SMD LEDs IN TOTAL

White Light (5000K)
72 LEDs White light output not only could reduce your cultivation costs and prolong your flowering period, but also could protect your eyes.

Red Light (610nm to 710nm)
24 LEDs Yields more leaves and crops when combined with blue light, rapidly increases the speed of plant growth.

Full Spectrum

Wavelength (nm)

W/m²/nm

Wavelength (nm)	Intensity (W/m ² /nm)
380	0.0
430	1.0
465	0.2
590	0.5
665	0.4
800	0.0

Image: Diagram illustrating the full spectrum lighting with white and red LEDs.

Your Best White LED Grow Light



Trapezoid-Shape LED Bar



Normal T5 & T8 Tube



Double-Chip 1W LEDS



1.5 times luminous area than single-chip same watts



Each Bar is 40W



Normal 0.5W Cheap LEDS



not enough for some plants growth



Only 20W

Image: Comparison of the trapezoid-shape LED bar with normal T5 and T8 tubes, highlighting larger luminous area and double-chip LEDs.

SZHLUX 2FT Grow Light



High PPFD



Full Spectrum



Excellent Heat Dissipation



50,000+ Rated Hours

Image: SZHLUX 2FT Grow Lights installed in a greenhouse environment, demonstrating broad coverage.

6. SETUP & INSTALLATION

The SZHLUX LED Grow Light offers multiple installation methods for convenience.

6.1. General Installation Steps

1. Remove the protective film from the light fixture.
2. Plug in the reflector shields by sliding them into the grooves on the sides of the light.
3. Place the grow light horizontally on a stable surface or prepare for hanging.
4. Install the clips on the base of the lamp for hanging or mounting.
5. Hang the lamp using the provided rope hangers or mount it using ceiling clips and screws.
6. Connect the power cord to one end of the light fixture.
7. Turn on the switch to activate the light.

6.2. Linkable Connection Methods

You can connect up to 4 lights in series using two methods:

- **Direct Connection:** Use the small connector to link two lights directly end-to-end for a seamless setup.
- **Daisy Chain Connection:** Use the 47-inch connecting cords to link lights with a gap between them, providing flexibility in layout.

Important: Always disconnect the power supply before connecting or disconnecting lights. After connecting, ensure only one end of the series is connected to the main power cord. Connecting both ends will cause a short circuit and damage the lights.

Linkable Design

Support 4 lights in a series by connecting cord or small connector.



Beam
Angle: 120°



Growth
Accelerator



Durable



Brightness:
5440lm

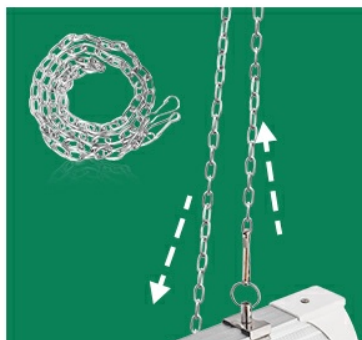
Image: Illustration of the linkable design, showing direct and daisy chain connection options.

Why choose our grow light?

SZHLUX LED Grow Light has high energy-efficiency features and a high emergence rate, extend your grow season and achieve anti-season cultivation. You will get a balance of quality, safety and long life.

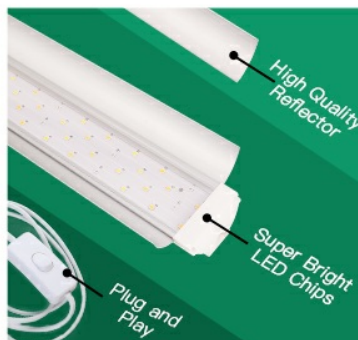
Compared with other brands, our growing lamp has more red light beads, provides a higher PPFD but with low consumption, works extremely well for your plant grow tents, plant grow shelves, seedling cultivation, succulents, hydroponic rooms, greenhouses, etc.

SZHLUX grow light is a great option of sunlight replacement for indoor plants. It works perfectly in seedling, vegetative and flowering period.



Adjustable Rope Hanger

Easy to adjust hanging height by pressing the mechanical button on the wire locker.



Double-Chip LEDs

Ensures max absorption for plants and 50,000+ longer lifespan.



Two Linkable Methods

Link up to 4 lights in a series, reduce your installation cost and time.

Image: Visual guide demonstrating various easy installation methods including hanging and linking.

[Installation Video Guide](#)

Your browser does not support the video tag.

Video: Official guide on how to install the SZHLUX LED Grow Light for indoor seedling, vegetative, and blooming stages.

7. OPERATING INSTRUCTIONS

The SZHLUX LED Grow Light provides full spectrum light suitable for various plant growth stages. Adjust the hanging height and lighting duration based on your plant's needs.

7.1. Recommended Usage by Plant Stage

- **Seeding Stage:** Ideal for germination and early seedling development.
- **Blooming and Fruiting:** The added 660nm red light promotes flowering and fruit production.
- **Succulent Plants:** Suitable for the growth of various succulent species.

The light output (PPFD) varies with distance. Refer to the chart below for guidance:

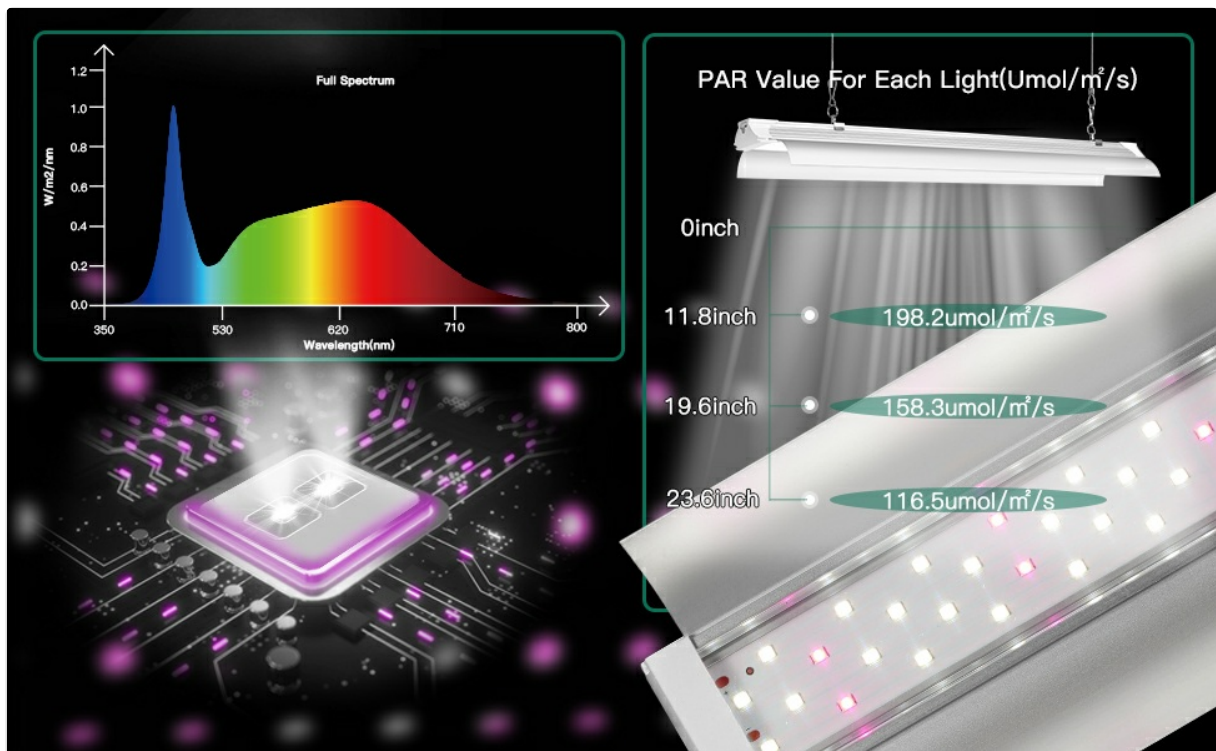


Image: Chart showing Photosynthetic Photon Flux Density (PPFD) values at different distances from the light source.



Ideal for Seeding

Full spectrum sunlight replacement grow light with high par value widely used for indoor gardening, indoor hydroponics and horticultural applications.

Ideal for Blooming and Fruiting

We add 660nm red light that rapidly increases plant growth, ideal for all kinds of indoor horticulture flowers and fruits like peony and strawberry.

Ideal for Succulent Plants Growing

All the shell was made of superior aluminum material, provide excellent heat dissipation. Most suitable for the growth of various plants.

Specification

Power: 40W(each light)

PPF: 90Umol/S

Lumen: 5,440lm

PPFE: 2.3Umol/J

Color Temperature: 4523K

Dimension(inch):23.6"×3.15"×2.17"

Power Factor: >0.9

Frequency Range: 50-60Hz

Image: Visual representation of the grow light's suitability for seeding, blooming, and succulent plants.

8. MAINTENANCE

- **Cleaning:** Ensure the light is unplugged and cool before cleaning. Use a soft, dry cloth to wipe the surface. Do not use abrasive cleaners or immerse in water.
- **Inspection:** Periodically check the power cord and connections for any signs of damage. If damage is found, discontinue use and contact customer support.
- **Storage:** If storing the light for an extended period, ensure it is clean, dry, and stored in a safe place away from extreme temperatures.

9. TROUBLESHOOTING

- **Light not turning on:**
 - Check if the power cord is securely plugged into both the light fixture and the power outlet.
 - Ensure the power switch on the cord is in the 'ON' position.
 - Verify the power outlet is functional by plugging in another device.
- **Flickering light:**
 - Check all connections, especially if multiple lights are daisy-chained. Loose connections can cause flickering.
 - Ensure you are not exceeding the maximum of 4 lights connected in series.
- **Lights connected in series not working:**
 - Confirm that only one end of the entire series is connected to the main power cord.
 - Check the small connectors or daisy chain cords between lights for secure connections.

If issues persist after troubleshooting, please contact SZHLUX customer support.

10. WARRANTY & SUPPORT

The SZHLUX LED Grow Light comes with a **2-year manufacturer's warranty**.

For warranty claims, technical support, or any questions regarding your product, please refer to the contact information provided on the product packaging or the official SZHLUX website.