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› SANSI 100W Dimmable LED Grow Light User Manual (Model C21GL-R08-100W)

SANSI C21GL-R08-100W

SANSI 100W Dimmable LED Grow Light User Manual

MODEL: C21GL-R08-100W

Brand: SANSI

1. Introduction

Thank you for choosing the SANSI 100W Dimmable LED Grow Light. This manual provides essential information for the safe and effective use of your new grow light. Designed for indoor plants, this full-spectrum LED light features patented ceramic technology and an optical lens for high efficiency and optimal plant growth across all stages.



Image: The SANSI 100W Dimmable LED Grow Light in an indoor plant environment.

2. Safety Information

- **Electrical Safety:** Ensure the power source is 120 Volts (AC) and matches the product's requirements. Always unplug the device before installation, cleaning, or maintenance.
- **Heat Warning:** Due to the ceramic heat dissipation technology, the surface of the grow light can become hot during operation. **Do not touch it directly with bare hands.**
- **Installation:** Install the light securely using the hanging or ceiling mount method. Ensure it is stable and cannot fall.
- **Indoor Use Only:** This product is designed for indoor use. It is not water-resistant. Avoid exposure to water or high humidity.
- **Eye Protection:** Avoid looking directly at the illuminated LEDs for extended periods, as the light is very bright.
- **Material Safety:** The lamp body is made of special ceramic material with a V0 flame retardant grade, and the reinforced insulation structure minimizes electric shock risk. The shell material meets WF2 anti-corrosion grade.

3. Package Contents

Verify that all components are present in the package:

- 1x SANSI 100W Dimmable LED Grow Lamp

4. Product Features

- **High Efficiency:** Achieves PPF of 158 $\mu\text{mol/s}$ and PPFD of 577.54 $\mu\text{mol/s/m}^2$ at 1ft. Utilizes an optical lens for secondary scientific light distribution, enhancing light utilization. Consumes only 100 watts, equivalent to 1000W incandescent bulbs, saving up to 90% electricity.
- **Full Spectrum (400nm-780nm):** Mimics the solar spectrum, providing light suitable for all plant growth cycles (germinating, growing, blooming, fruiting). Offers 4000K daylight with a Color Rendering Index (Ra) close to 100, resembling natural light.
- **Patented Ceramic Technology:** Features Chip on Ceramic (COC) technology, replacing traditional aluminum substrates with a non-conductive ceramic heat sink. This design directly solders the LED chip onto the ceramic, reducing thermal resistance for faster heat conduction and higher product reliability. Fanless design ensures quiet operation.
- **Dimmable Functionality:** Offers 0%-100% dimming capability for precise light control throughout plant growth cycles.
- **Safe and Reliable:** Constructed with V0 flame-retardant ceramic material, reinforced insulation, and WF2 anti-corrosion grade shell. Low infrared radiation minimizes heat, preventing plant burns from close exposure.
- **Long Lifespan:** ETL listed & CE certified, ensuring quality and safety with an estimated lifespan of 25,000 hours.

SCIENTIFIC DESIGN

Provide a more healthy, safe, reliable and convenient home planting light source



Image: Internal components and scientific design of the grow light.

- Other -	 SANSI LED
❗ High thermal resistance	✅ Low thermal resistance
❗ Not conducive to heat dissipation	✅ Superior heat dissipation properties
❗ Short lifespan	✅ Longer lifespan

Image: Comparison of SANSI's ceramic heat dissipation technology.

5. Setup

The SANSI 100W Dimmable LED Grow Light is designed for hanging or ceiling mount installation.

1. **Choose Location:** Select a suitable indoor location for your plants, ensuring adequate space for the light and proper ventilation.
2. **Mounting:** Securely attach the grow light using appropriate hanging hardware (not included unless specified in package contents) or by ceiling mounting. Ensure the mounting point can support the weight of the light (approximately 3.32 pounds).
3. **Adjust Height:** Position the light at an appropriate height above your plants. Refer to the PPFD chart in the operating instructions for guidance on optimal light intensity at various distances.
4. **Connect Power:** Plug the grow light into a standard 120V AC power outlet.



Image: Examples of grow light installation in various indoor settings.

6. Operating Instructions

The SANSI 100W Dimmable LED Grow Light is straightforward to operate.

1. **Power On/Off:** Use the integrated switch to turn the light on or off.
2. **Dimming:** Adjust the dimmer knob to control the light intensity from 0% to 100%. This allows you to customize the light output for different plant growth stages or specific plant needs.
3. **Light Height Adjustment:** The optimal distance between the light and your plants depends on the plant type and growth stage. Adjust the hanging height to achieve the desired PPFD (Photosynthetic Photon Flux Density).

0%-100% Dimmable

Ultimate Light Control Faster Plant Cycles Master the Growth Process

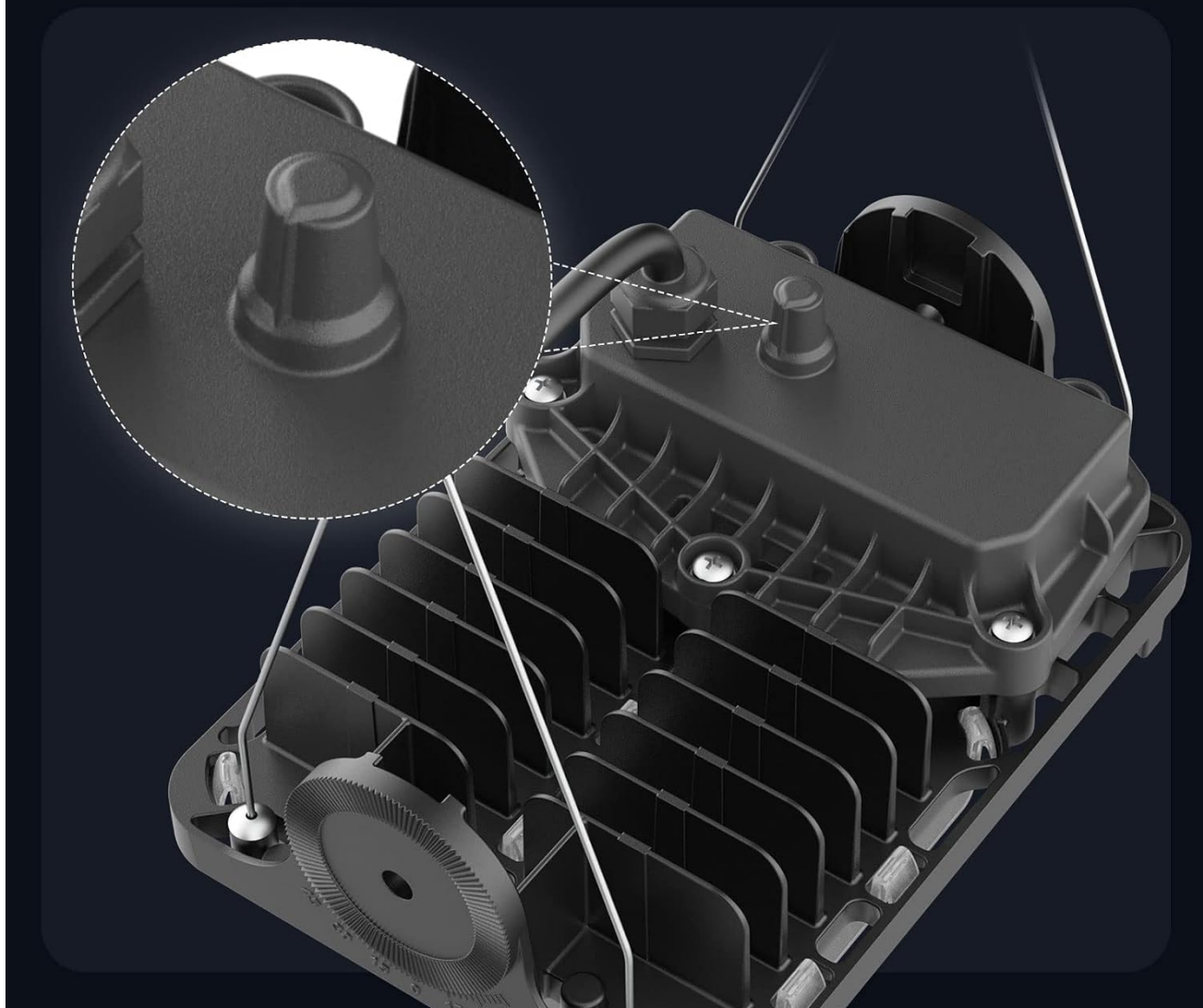


Image: Detail of the dimmable control feature.

Recommended Light Height and PPFD:

HIGH PPFD

PPFD is measuring how much photons actually land on the canopy, the higher the better.

**1000W
Equivalent**

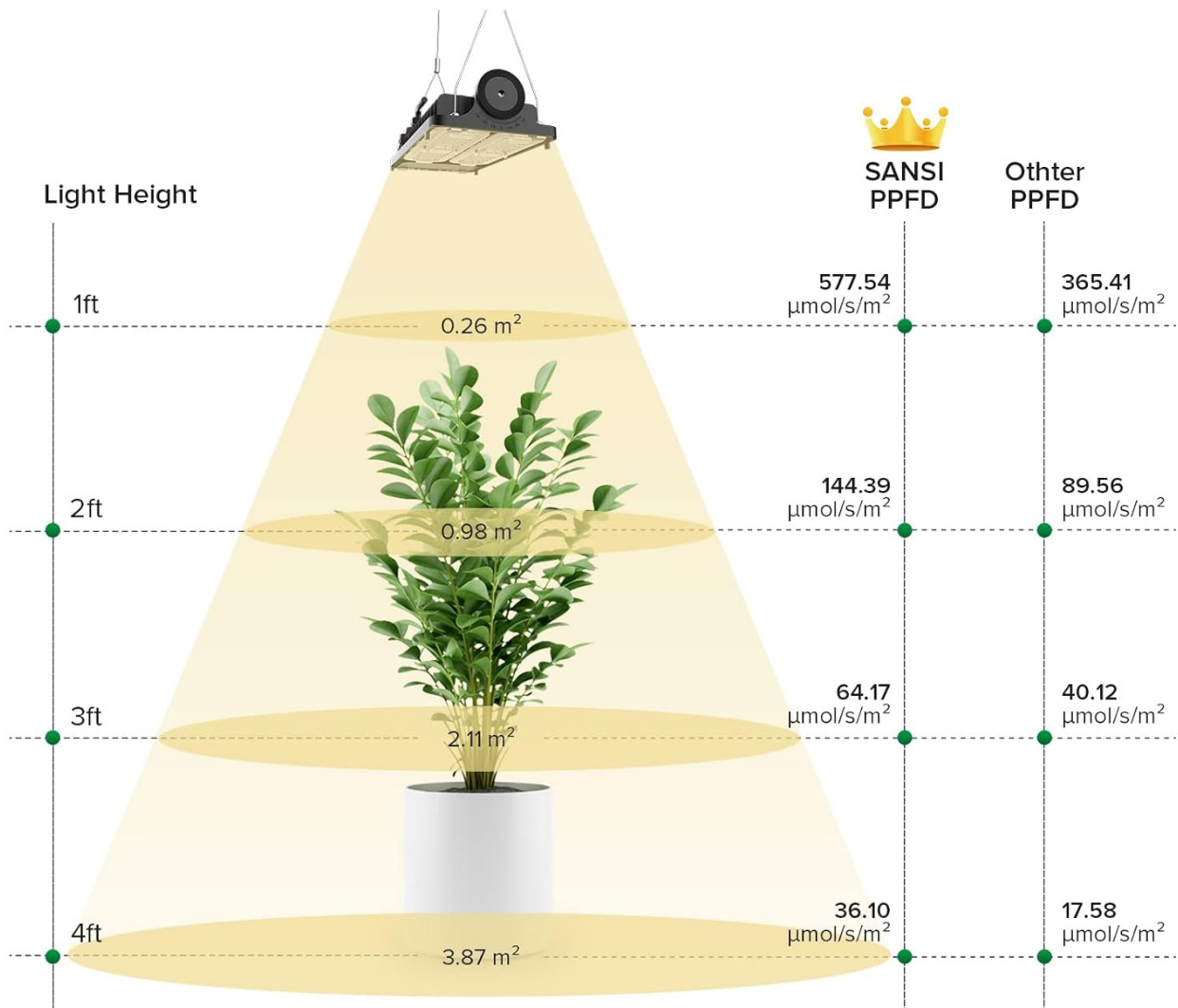


Image: PPFD chart showing light intensity at various distances.

- **1 ft:** 577.54 $\mu\text{mol/s/m}^2$ (Coverage: 0.26 m²)
- **2 ft:** 144.39 $\mu\text{mol/s/m}^2$ (Coverage: 0.98 m²)
- **3 ft:** 64.17 $\mu\text{mol/s/m}^2$ (Coverage: 2.11 m²)
- **4 ft:** 36.10 $\mu\text{mol/s/m}^2$ (Coverage: 3.87 m²)

Full Spectrum Breakdown:

FULL SPECTRUM

Sunlight for all stages of plant growth

CRI 95

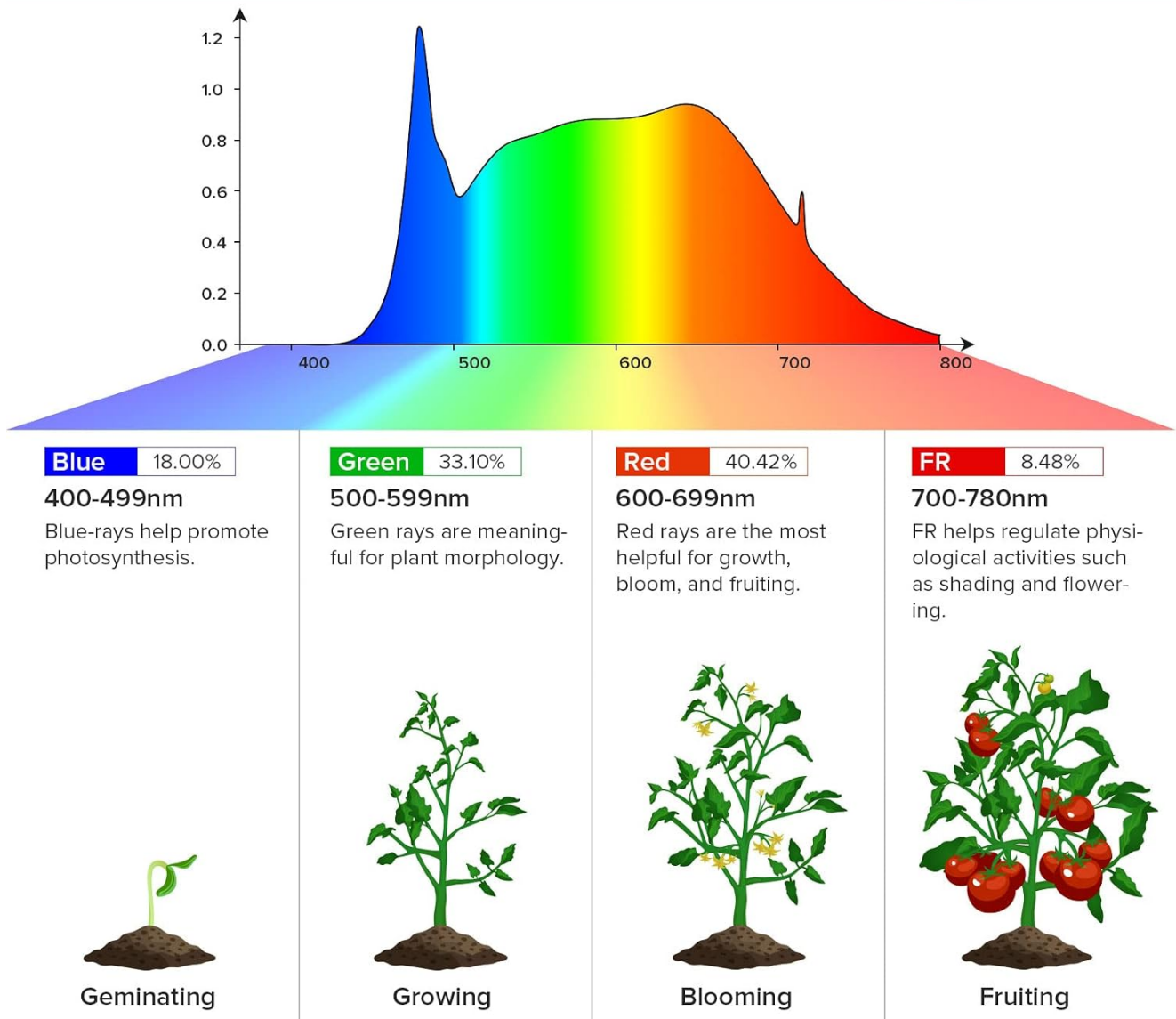


Image: Full spectrum light distribution and its impact on plant development.

- **Blue (400-499nm, 18.00%):** Promotes photosynthesis.
- **Green (500-599nm, 33.10%):** Meaningful for plant morphology.
- **Red (600-699nm, 40.42%):** Most helpful for growth, bloom, and fruiting.
- **FR (700-780nm, 8.48%):** Helps regulate physiological activities such as shading and flowering.

7. Maintenance

To ensure optimal performance and longevity of your SANSEI LED Grow Light, follow these maintenance guidelines:

- **Cleaning:** Periodically wipe the light's surface with a soft, dry cloth to remove dust and debris. Ensure the light is unplugged and cool before cleaning. Do not use liquid cleaners or abrasive materials.
- **Inspection:** Regularly check the power cord and connections for any signs of damage. If any damage is found, discontinue use and contact customer support.
- **Ventilation:** Ensure the area around the grow light has adequate airflow to facilitate heat dissipation.

8. Troubleshooting

Problem	Possible Cause	Solution
Light does not turn on.	No power, loose connection, faulty switch.	Check power outlet, ensure cord is securely plugged in, verify switch position.
Light is dim or flickering.	Dimmer setting too low, power fluctuation, internal issue.	Adjust dimmer knob. If problem persists, try a different outlet.
Dimmer does not seem linear (e.g., 50% behaves like 100%).	Characteristic of some dimming circuits.	This behavior may be normal for the product. Adjust based on visual intensity rather than knob position.
Light feels hot.	Normal operation due to ceramic heat dissipation.	This is expected. Ensure adequate ventilation and avoid direct contact with the hot surface.

9. Specifications

Specification	Value
Brand	SANSI
Model Name	C21GL-R08
Part Number	01-03-001-091001
ASIN	B09NV9FX1W
Wattage	100 Watts
Voltage	120 Volts (AC)
Light Source Type	LED
Color Temperature	4000 Kelvin
Brightness	9502 Lumen
PPF	158 $\mu\text{mol/s}$
PPFD (at 1ft)	577.54 $\mu\text{mol/s/m}^2$
Product Dimensions	9.29"L x 6.69"W x 4.61"H
Item Weight	3.32 pounds (1.51 Kilograms)
Material	Ceramic, Aluminum
Installation Type	Hanging, Ceiling Mount
Indoor/Outdoor Usage	Indoor
Water Resistance Level	Not Water Resistant
Lifespan	25,000 hours

Specification	Value
Certifications	ETL, CE

10. Warranty and Support

This SANSI LED Grow Light comes with a **2-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

For warranty claims, technical support, or any questions regarding your product, please contact SANSI customer service through their official website or the retailer where the product was purchased. Please have your model number (C21GL-R08-100W) and proof of purchase available when contacting support.

For more information about SANSI products, visit the [SANSI Store on Amazon](#).