

Horticultural LED Lighting

GROW-J1 Product Manual



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PLEASE READ THESE INSTRUCTIONS FIRST BEFORE INSTALLATION

Congratulations on your purchase of the GROW-J1 luminaire. We have done everything to insure a long life and safe operation, but the installation and use of the luminaire is the responsibility of the user. Incorrect use or installation can lead to failure and damage to the system. Damage to the luminaire and electronic circuitry as a result of incorrect installation and use revokes your warranty, so we recommend you read this manual carefully before installing your new grow light.

GROW-J1 Installation

GROW-J1 LED lights are designed to run on either 240 volt circuits. 50-60 Hz is supported. It's critical for the integrity of the fixture that the voltage capacity on your unit matches your circuit. If you are not sure of the voltage on your circuit, please consult a professional electrician.

It's recommended to plug your GROW-J1 fixture into a timer (sold separately) for automatic on / off scheduling. General recommended hours of light and dark are 18/6 during vegetative period and 12/12 during flowering period. 18/6 can be used for autoflowering strains from start to finish.

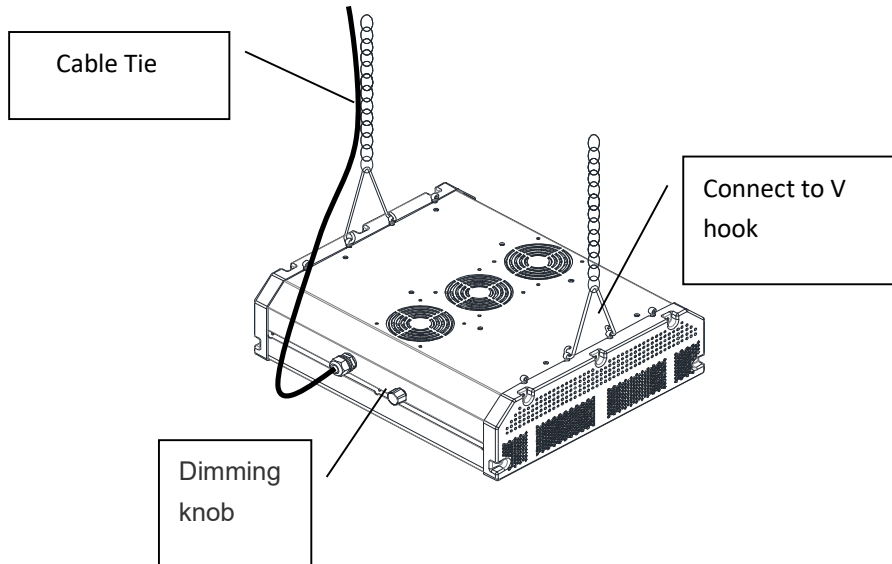
To mount the light, simply secure the included hooks into the holes on each handle. You can then connect any adjustable ratchet hanger, chain, etc. onto the hooks. Hooks are equipped with light.

The temperature of the fixture is in practice the most important parameter for lifetime and reliability. A normal operating environment temperature should be well below 104° Fahrenheit (40° Celsius). Exceeding the maximum environment temperature will stress the electronic components, which can lead to shorter lifetime and decreased reliability.

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If the ambient temperature exceeds 40°C, the life of the lamp will be shortened or damaged.

Do not operate the Luminaries close to combustible materials. The fixture does get hot to the touch during operation so please exercise caution when handling the system shortly after operation.



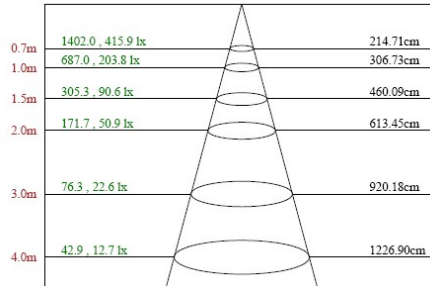
Hanging your Fixture

- 1 Make sure your unit is unplugged.
- 2 Spread hangers and insert into the two holes on top of the fixture. The open ends of the hooks face into the fixture.
- 3 The fixture cord should point upwards. (See illustration above).
- 4 Hang the fixture from a strong cord or chain from both ends. Make sure you have hooks screwed solidly into the studs in the ceiling. If you cannot locate the studs, insert expansion anchors into the ceiling. The hooks should be rated to hold at least 50-lbs. each
- 5 Use the cable tie provided to secure the electrical cord to the hanging chain so that it doesn't tilt the fixture
- 6 Route the electrical cord up and away from the light to another hook (not provided) and down the wall to the ballast

Hanging Heights

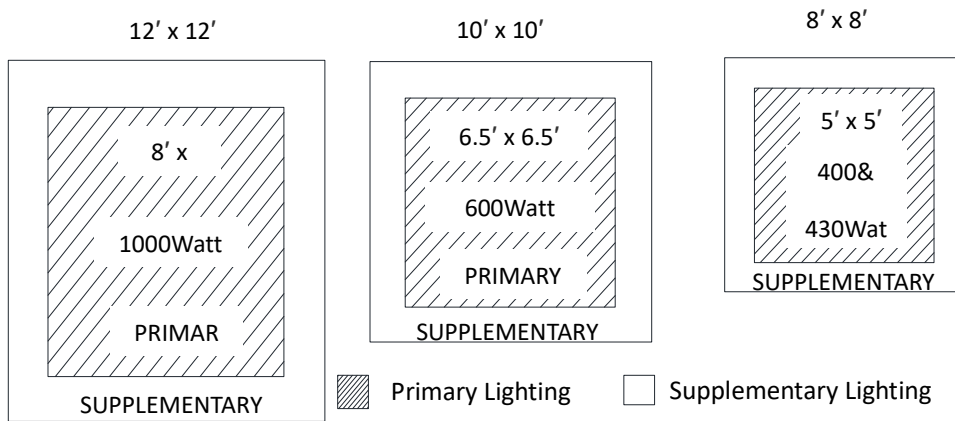
Before recommending hanging heights, it's important to understand what PPFD is. PPFD (photosynthetic photon flux density) which is measured in $\mu\text{mol}/\text{m}^2/\text{s}$ (micromoles per square meter per second) is the standard among horticultural lighting professionals when measuring PAR (photosynthetic active radiation), or the type of light that can be used by plants to convert light into energy. This process is called photosynthesis and it's the main purpose of grow lights.

In order to give plants the light they need, the right PPFD levels must occur at the top surface of the canopy, or the top of the plant. General recommended PPFD levels are 500 during the vegetative period and 800 during the flowering period. Below are distances inside a grow tent where these suggested PPFD levels were achieved with each HLTOP01 fixture.

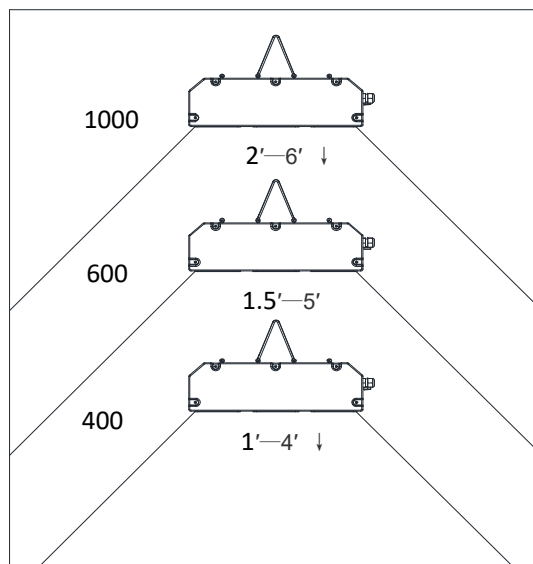


GROW-J1-1000W

Horizontal Fixtures Recommended Area Coverages



RECOMMENDED REFLECTOR MOUNTING HEIGHT ABOVE PLANTS



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Product Description

GROW-J1 light fixtures are fixed full spectrum horticultural LED luminaires. They are designed for ease of use by simply plugging them into a regular timer and hanging them above your plants.

Power On / Off

GROW-J1 series LED growth lamps have onboard power switch. When connected to an active power outlet or timer, you should wave the switch on the lamp to turn it on or off. There is also a dimming knob on the lamp. You only need to turn the knob to get the brightness you need, and you don't need to adjust the hanging height frequently to adjust the PPF value needed by plants

Maintenance

There are no serviceable parts inside the luminaire. Opening the luminaire will void the warranty. Keep the housing clean from dust and dirt with a dry or damp cloth to ensure optimal cooling. When using a damp cloth please disconnect the power first. We recommend you check your electrical connections regularly: check if the plugs are inserted completely and don't show any (contact) damage, check if the wiring is undamaged and that the wire ends connected to the reflector are tightly secured in their terminals. Occasionally, blowing compressed air through the fins of the heat sink and the top fans is recommended to help clear any dust that may accumulate.

Troubleshooting

Your GROW-J1 series fixture is factory sealed. There are no serviceable parts inside the luminaire and opening it will void the warranty.

Product Specifications

	GROW-J1-1000W
Power Draw	1050w
Voltage	240V
Max Current	4.62A
Coverage Area	3' x 3'
Heat Output	3584 BTU
Dimensions	8.5" x 8.5" x 4"
Weight	33Lb
Thermal Management	Active

