

### Instructions for use of LED Grow Lights

Warning: LED-9610 series Grow Lights are for indoor use only. Do not expose to water drip or spray. Do not expose the lights to physical harm such as impact or severe environmental conditions. Working temperature is -20°C to 40°C.

Warning: When installing LED-9610 series Grow Lights, ensure that the power outlets are properly grounded and have adequate capacity. If there is any doubt, please consult an electrician. Please ensure that there is adequate clearance for airflow around the lights. A minimum of 12 inches of clearance are recommended above the light and 2 inches at the sides.

Warning: LED grow lights can cause eye damage. Avoid looking directly at the lights when they are on. Use shielding and light blocking glasses to protect your eyes.

Warning: Never place the lamp "face down" on a surface, as it may damage the lenses.

Warning: When connecting lights in a "daisychain" fashion, the total power used must not exceed 1,100 watts at 120 volts or 2,200 watts at 240 volts. The remote control can control up to 8 fixtures.

Recommendation: It is highly recommended that surge suppressors are installed to protect your grow light investment. Power surges are one of the leading causes of premature grow light failure.

Note: LED-9600 series grow lights are equipped with thermostatic fans. The fans will generally turn on a few minutes after the grow light is turned on. Fans may continue to run a few minutes after it is turned off.

### General Instructions

Growing conditions vary widely by location and crop. It is recommended that growers use a PAR meter to position the light so that it provides the correct amount of light for the plant. Generally these grow lamps are mounted between 18 and 36 inches from the plants.

If lamps are being used to replace HID grow lights, it is recommended to use 50 watts of LED grow lights for each 100 watts of HID lighting replaced. If grow lights are used as supplementary lighting is added to accelerate the growth of plants, please closely monitor of nutrient and water feeds, as they may need adjustment due to faster growth.

If you have further questions, please contact us by submitting a request to [Help@superiorlighting.com](mailto:Help@superiorlighting.com)

# Specification Sheet

## LED-9611G

### Grow Light Fixture



#### Applications:

These fixtures are designed for indoor growers, and are suitable for a wide variety of plants. The lights can be used for all phases of growing as they are dimmable, programmable, and have individually controllable Veg, Grow, and Flower channels.

This can be used for a small growing area, or multiple units can be daisy chained together to cover a large area with an even light distribution.

#### Description:

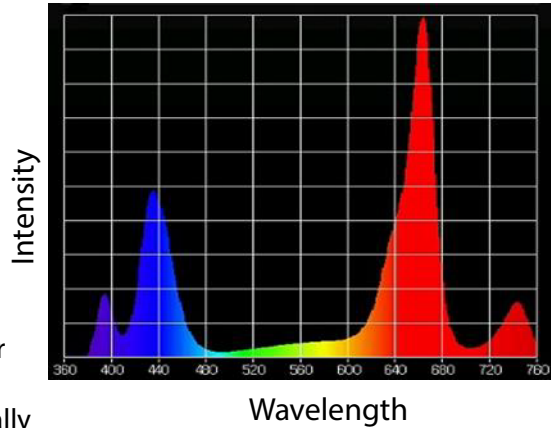
LED-9611G is a 180 watt grow light fixture with an aluminum body. The fixture will automatically accept an input voltage from 100-277 volts. Many features are incorporated to benefit growers including:

- 3 Channel light controls allows for 4 modes of operation including Veg / Grow / Flower / Allon.
- Remote Control allows for dimming and programming of the grow lights. (Available as an accessory)
- Daisy Chainable– allows multiple lights to use the same power source and program or remote control.
- Multiple band spectrum is well proven for growing The standard spectrum includes LEDs with wavelengths of 390nm, 430nm, 460nm, 620nm, 660nm, and 740nm. It also has white LEDs with 2000k and 6500k.

#### Notes:

- Installing surge/lightning protectors is highly recommended to eliminate premature failure caused by surges and other power fluctuations
- All specification information falls within a +/- 5% range and is subject to change without notice.
- Light Efficient Design is providing this information to the general public. Please note that all products contained herein are trademarked, copyrighted and/or have patents pending. Any use of these designs is strictly prohibited without prior written consent. Light Efficient Design protects its proprietary information vigorously in the courts of the United States of America.

Spectrum Chart (Allon)



Technical Specifications	
Type	Fixture / Panel
Mounting	Straps – Included
Housing Material	Aluminum
Input Voltage	100-277 VAC
Power Consumption	180 Watts
PAR Output	Center
1 foot	908 $\mu\text{mol}/\text{m}^2/\text{s}$
2 feet	385 $\mu\text{mol}/\text{m}^2/\text{s}$
3 feet	215 $\mu\text{mol}/\text{m}^2/\text{s}$
4 feet	123 $\mu\text{mol}/\text{m}^2/\text{s}$
LED Colors	UV, B, R, FR, White
Dimmable	Yes – 3 channel
Beam Angle	78° and 105°
Rated LED Life	50,000 hours
Dimensions	
L x W x H	15 x 9 x 3 inches
Weight	6.6 lbs
Certifications	CE, FCC, ROHS
Options:	Remote Control, Daisy Chain Cables
Mercury/Lead content	None
Warranty	2 year limited

# Specification Sheet

## LED-9613G

### Grow Light Fixture



#### Applications:

These fixtures are designed for indoor growers, and are suitable for a wide variety of plants. The lights can be used for all phases of growing as they are dimmable, programmable, and have individually controllable Veg, Grow, and Flower channels.

This can be used for a medium growing area, or multiple units can be daisy chained together to cover a large area with an even light distribution.

#### Description:

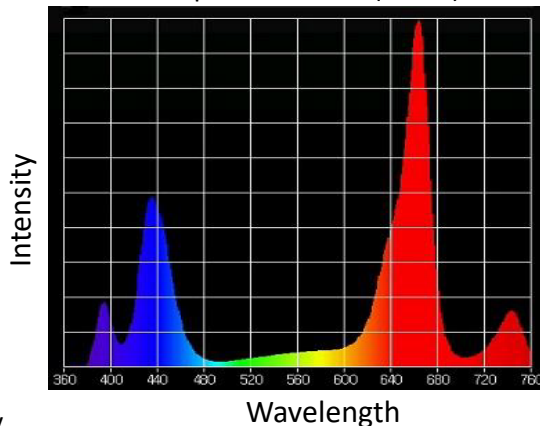
LED-9613G is a 360 watt grow light fixture with an aluminum body. The fixture will automatically accept an input voltage from 100-277 volts. Many features are incorporated to benefit growers including:

- 3 Channel light controls allows for 4 modes of operation including Veg / Grow / Flower / All-on.
- Remote Control allows for dimming and programming of the grow lights. (Available as an accessory)
- Daisy Chainable – allows multiple lights to use the same power source and program or remote control.
- Multiple band spectrum is well proven for growing. The standard spectrum includes LEDs with wavelengths of 390nm, 430nm, 460nm, 620nm, 660nm, and 740nm. It also has white LEDs with 2000k and 6500k.

#### Notes:

- Installing surge/lightning protectors is highly recommended to eliminate premature failure caused by surges and other power fluctuations
- All specification information falls within a +/- 5% range and is subject to change without notice.
- Light Efficient Design is providing this information to the general public. Please note that all products contained herein are trademarked, copyrighted and/or have patents pending. Any use of these designs is strictly prohibited without prior written consent. Light Efficient Design protects its proprietary information vigorously in the courts of the United States of America.

Spectrum Chart (All-on)



Technical Specifications	
Type	Fixture / Panel
Mounting	Straps – Included
Housing Material	Aluminum
Input Voltage	100-277 VAC
Power Consumption	360 Watts
PAR Output	Center
1 foot	1,116 $\mu\text{mol}/\text{m}^2/\text{s}$
2 feet	655 $\mu\text{mol}/\text{m}^2/\text{s}$
3 feet	360 $\mu\text{mol}/\text{m}^2/\text{s}$
4 feet	224 $\mu\text{mol}/\text{m}^2/\text{s}$
LED Colors	UV, B, R, FR, White
Dimmable	Yes – 3 channel
Beam Angle	78° and 105°
Rated LED Life	50,000 hours
Dimensions	
L x W x H	15 x 15 x 3 inches
Weight	11.6 lbs
Certifications	CE, FCC, ROHS
Options:	Remote Control, Daisy Chain Cables
Mercury/Lead content	None
Warranty	2 year limited

# Specification Sheet

## LED-9614G

### Grow Light Fixture



#### Applications:

These fixtures are designed for indoor growers, and will increase the growth rate and yield of a wide variety of plants. The lights can be used for all phases of growing as they are dimmable, programmable, and have individually controllable Veg, Grow, and Flower channels.

#### Description:

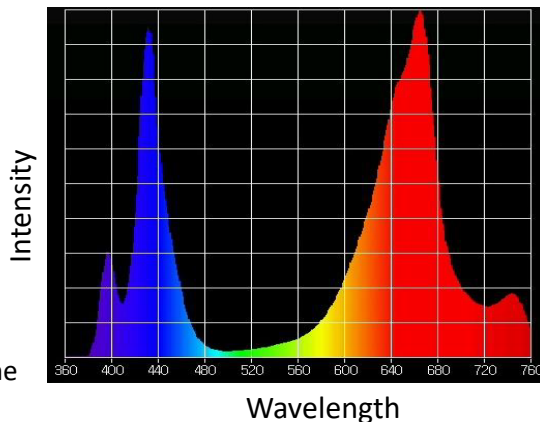
Enhanced Full Spectrum LED grow light with 540 watt actual power draw. The light spectrum includes a mixture of full spectrum and single color LEDs to combine the benefits of both. Many features are incorporated to benefit growers including:

- Optics help direct the light into the plants for better light penetration and effectiveness.
- 3 Channel light controls allows for 4 modes of operation including Veg / Grow / Flower / All-on.
- Remote Control allows for dimming and 24-hour programming of the grow lights. (Available as an accessory)
- Daisy Chainable – allows multiple lights to use the same power source and program or remote control.
- Enhanced Full Spectrum is well proven for growth and flowering. The center COB provides a full spectrum of high power lighting optimized for plant growth. The supplemental LED have wavelengths of 390nm, 430nm, 460nm, 620nm, 660nm, 740nm and white.

#### Notes:

- Installing surge/lightning protectors is highly recommended to eliminate premature failure caused by surges and other power fluctuations
- All specification information falls within a +/- 5% range and is subject to change without notice.

Spectrum Chart (All-on)



Technical Specifications	
Type	Fixture / Panel
Mounting	Straps – Included
Housing Material	Aluminum
Input Voltage	100-277 VAC
Power Consumption	540 Watts
PAR Output	Center
1 foot	1,352 $\mu\text{mol}/\text{m}^2/\text{s}$
2 feet	899 $\mu\text{mol}/\text{m}^2/\text{s}$
3 feet	485 $\mu\text{mol}/\text{m}^2/\text{s}$
4 feet	333 $\mu\text{mol}/\text{m}^2/\text{s}$
LED Colors	Enhanced Full Spectrum
Dimmable	Yes – 3 channel
Beam Angle	78° and 105°
Rated LED Life	50,000 hours
Dimensions	
L x W x H	21 x 15 x 3 inches
Weight	15.3 lbs
Certifications	CE, FCC, ROHS
Options:	Remote Control, Daisy Chain Cables
Mercury/Lead content	None
Warranty	2 year limited