

LED Grow Lights



What are the Benefits of Using LED Grow Lights with air movement?

There is an almost endless list of benefits to using LEDs. We'll look at these benefits in comparison to other types of lights that have been used in the past. Bacteria has no chance to grow with fresh air constantly moving as close as 18 inches from plants.

Space saving and no extra heat

Where other types of grow lights require a lot of space and will often require a lot of equipment to run, LED grow lights free up your space. Light can be very close to plants optimizing growth from both top and sides.

Low Running Temperature

The temperature of your grow room is incredibly important. Even with the right attention, it can often require extensive cooling systems to keep your room cool. LED grow lights have an advantage in that they run at a temperature that is simply warm to the touch, rather than approaching 400 or even 500 degrees. The plants see continuous breeze from the light source.

Power Efficient

Traditional forms of lighting your indoor grow can be very powerful, but unfortunately, they aren't very power efficient. That is why LED grow lights are preferred. Saving up to 70% of energy costs resulting in immediate benefit when converting to LED's.

Long Lifespan

When you use the best LED grow lights, you will have the chance to grow for years without having to replace your lighting system. Most LED lights are rated between 50,000 and 100,000 hours of use. If a single module needs changing each can be replaced quickly and easily.

Why Is It So Important To Have The Best LED Grow Lights?

LED lights use only blue and red wavelengths to provide your plants with everything that they need without having to waste power and light on things that aren't effective. NBL grow lights can be 3 to 4 times the power of other grow lights.

The Colors of the Spectrum

Natural sunlight features the entire spectrum of light. When constructing LED panels, NBL uses only certain kinds of LEDs that will provide a specific color to feed your plants what they need.

- **Blue** - Blue LED lights, in the mid-400nm range, are ideal for vegetative growth that creates tall, leafy plants.
- **Red** - Red LEDs in the 600-640 nm range will help encourage budding and flowering.
- **White** - White LEDs are beneficial for you to see inside of your grow room. With only red and blue LEDs inside of your operation, it will be almost impossible to see problems accurately and correct them. There is a great deal of speculation, as well, centered on the balancing of the spectrum that they provide.
- **Ultraviolet** - Research has found that it is beneficial to use ultraviolet light in short bursts.

NBL grow lights design comes right from growers using them every day.

CONSTRUCTION

HOUSING: Die-cast aluminum housing - integrated thermal heat fins providing superior cooling through convection.

COLORS: (custom colors are available - all powder coated after fabrication)

OPTIONS: Photo controls, red spectrum dimming, blue spectrum dimming, fan speed controls.

LISTINGS: UL (Energy Verified)

OPTICS:

LED: High performance optics

LIFETIME: 50,000 hrs. @85F, 100,000 hrs. @25F

ELECTRICAL compatible with 120, 200, 240a with 277 input volts

DRIVER: Philips XITANIUM - thermally protected - standard with 0-10V dimming - w/circuit protector

MODULE WATTAGES: 1200-watt **POWER FACTOR:** >.90

PROTECTION FROM: Overvoltage, overheat, short, 4KU protection

Model	#Modules	Watts
GL200	24	1,200

Note: IOQw, 200w and 400w versions available upon request

Certifications