



LED Myths Exposed

Part 1 - Yield

</blog/grower-mentality-and-led-adoption-%E2%80%94-busting-six-myths-about-led-grow-lights>)

Many myths surround the use of LED lamps for indoor and greenhouse commercial growing. Many of these myths are based on unproven and possibly inaccurate information. The most common myth about growroom LED lamps is that yield suffers but quality of product may be achieved.

Underpowered, inferior and surprisingly low cost LED lamps permeate the market. Their poor performance negatively (and unfairly) affects the overall general perception of genuinely reliable high-powered, high-performing units from market leaders. This is one reason many growers remain skeptical about the technology, never mind the fact that the industry bought into LED technology before it was mature enough to deliver next to HID lamp technology.

Indoor and greenhouse growers who are contemplating the proper lighting equipment for their grow facilities inevitably arrive at the dilemma of HID vs. LED, so the [Heliospectra team](#)

will go Myth-buster for you with our list of LED MYTHS ... easily disproven ... involving key performance and benefits areas that, though often misunderstood, still help growers determine their final grow light choices.

LED Myths about Yield, Cost, Power Consumption, Heat, Life-Span, Warranties

Let's start with one subject all growers focus on - Yield

Myth #1 - Yield: LED technology is not capable of delivering the same yield as other HID and HPS technology.

Busted:

This is the number one Myth, because it is generally true, but, like Heliospectra lamps and other higher quality LED technology has proven, yield is achievable. The primary reason yield has suffered (and continues to with most lamps) is simple - lamps are generally incapable of pushing photons deep into the canopy in a uniform manner. Without optics, high quality parts, superior engineering and a highly engineered heat dissipation solution, a lamp will not deliver a comparable (much less better) yield. Look for lamps that deliver light - on par (pun intended) with - HID. Light intensity is measurable - combined with the right spectrum, lamps like the Heliospectra LX60 models (<http://store.heliospectra.com/collections/bestselling/products/lx601>) are capable of delivering industry standard yields.



Our experience from working with our customers is that yield is achievable for both vegetable and flower crops. Using our targeted spectrum we have customers who have decreased flowering by up to 14 days ([//www.heliospectra.com/blog/faster-flowering-far-red-light-treatments](http://www.heliospectra.com/blog/faster-flowering-far-red-light-treatments)) thereby achieving faster time to market and better than average yields. Among our greenhouse growers we have seen not only a standard yield but also a higher quality in the crops grown compared to HPS lighting.



The LX602 is designed and engineered for intense, quality light output, comparable to a 1000W HPS/HID. It's optical distribution is ideal for greenhouses when the light needs to be mounted in the ceiling at a distance from the plant, while still maintaining a wide, uniform light distribution. It is the most advanced LED grow light for horticulture crop production, and growers who are serious about quality use the LX602 as an essential tool in their grow operations.

Recommended Applications

- Controlled environments agriculture
- Commercial horticulture
- Research greenhouses
- Hobby/indoor gardening