

## What is Layered Plant Lighting and why you should consider this method of lighting for your plants.

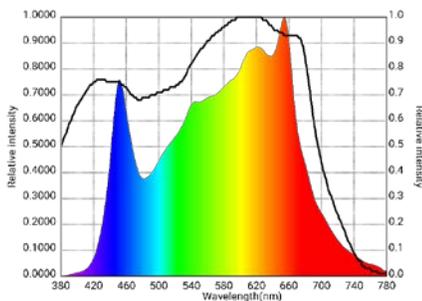
One of the features of our new Impact Series LED Grow Lights is that they let the grower do what I refer to as a Layered Plant Lighting technique. What this means is that the plants never have to move from a veg to a flower room since the same lights can be switched either manually or wirelessly from our new 151 Controller, from the veg into a flower mode. Simply make that change and adjust your photoperiod and you're good to go. Think of all the labor you just saved in not having to move all those plants around!

The other cool thing about Layered Plant Lighting is that it builds upon spectrums that are maintained from propagation all the way through final flower. What this means is that in the Veg setting the young plants would want lower intensities. As the plants gain in size we would want to increase that intensity to the High Veg setting to turbocharge their vegetative growth rates. Keep an eye on increased nutrient uptake and be ready for explosive vegetative growth rates.

If perpetual gardens are your thing and you need separate rooms for veg and flower I get that. But consider vegging your plants in one gal pots until week 3 in those 18/6 rooms under our Impact lights set in the veg mode. When you flip to larger pots, (we use 5 gal black buckets with the handles) consider putting those repotted plants in the flower room but run them another week or two on an 18/6 veg mode. When you do flip the room to 12/12 watch what happens in terms of plant transition. There is less stress on the plants and you won't have to be moving the bigger pots between rooms.

The bottom line is that when the grower decides it's time to flip into flower we add the reds! Again this is done at the control box on the back of the light by either manually switching in the analog setting or when set in the digital setting via the software. Either way you switch the lights into the flowering state we have maintained all the spectrums the plants were seeing in the vegetative state but we have added the reds that will be necessary for the flowering cycle. There is a spectral continuity with this approach and from what I've seen the transition time into flower is reduced. Also when I make the lighting switch into flower I like to ease the plants into this transition by running the lights in the low setting for the first day and then increasing the intensity on the second day to full flower. It may not matter but I'm weird that way. I also like to wake the plants up in the morning at increasing intensities so as to not just slam them with all that high intensity as they just wake up. When you buy our controller that is a program option we call the Sunrise Effect. So in addition to the lower wattages and temperatures these lights produce there are a lot of very cool control features that we as lighting manufacturers can bring to the table with our LED designs that you will not find in other technologies because they simply cannot be controlled in these ways.

Spectral Distribution Graph  
Impact Series Model 151-740  
Flowering High Mode Setting  
Referenced against the  
McCree Plant Action Curve



Type Luminaire: LED Sine Wave Grow Light  
Model: Impact Series  
Model No: 151-740  
Wattage: \*High Flower (740) Low Flower (380) High Veg (440) Low Veg (200)  
PPF: 1750  $\mu\text{Mol}/\text{sec}$  @ High Flower Setting  
Voltage: 100-277 v AC 60Hz  
Dimensions: W 26.5 (67cm) x L 44.5 (113 cm) x H 5.5 (16.5 cm)  
Weight: 33 lbs (15mg)

*\* All the values shown here are fixed when operated in analog mode. When the 151 Digital Programmable Controller is used the client has, among other features, virtually full range dimming capabilities in both the vegetative and flowering modes.*

With lower wattages, lower temperatures and a more natural sunlight spectrum isn't it time your grow lights positively

**IMPACT** the Environment, **IMPACT** Your Plants and **IMPACT** Your Bottom Line.

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