



AGRONOMY

# Experienced Lighting For Any Horticulture Space

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DEC. 2021



# Franklin LED Lighting

## A Market Leading Solution, For Any Horticulture Application

Efficient and flexible lights are a cornerstone of modern-day agricultural environments. Franklin offers a range of professional LED lighting fixtures and hybrid solutions for indoor and greenhouse horticultural applications. From microgreen production to propagation to fruit fill, we've got you covered year-round with scalable lighting solutions for large indoor farms and commercial greenhouses.



## WHY FRANKLIN LIGHTING



### PRECISE POWER

Providing plants and large harvest areas with optimal precise power LED lights is essential for maximum plant growth. Franklin's suite of lighting solutions provides superior optical lighting control, bringing you a precise, rich light to maximize yield and quality of light dispersion.



### FLEXIBLE DESIGN

Flexible lights are a critical cornerstone of modern day agricultural environments. That's why Franklin includes multiple accessories with every fixture, allowing for variable mounting options to provide equal light dispersion for any application.



### DESIGNED TO LAST

Lights should be designed to last. All Franklin products are independently tested and designed to operate in harsh environments. Each fixture comes with a 5 year warranty and a DLC rating for its proven efficiency and long life.





# PRECISE POWER

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Franklin's horticulture lights effectively maximize yield and quality by providing superior optical lighting control to bring you a rich, penetrating light right where you want it. Our portfolio of high power LED lights allows for optimal growth of anything from multiple plants to a large harvest.



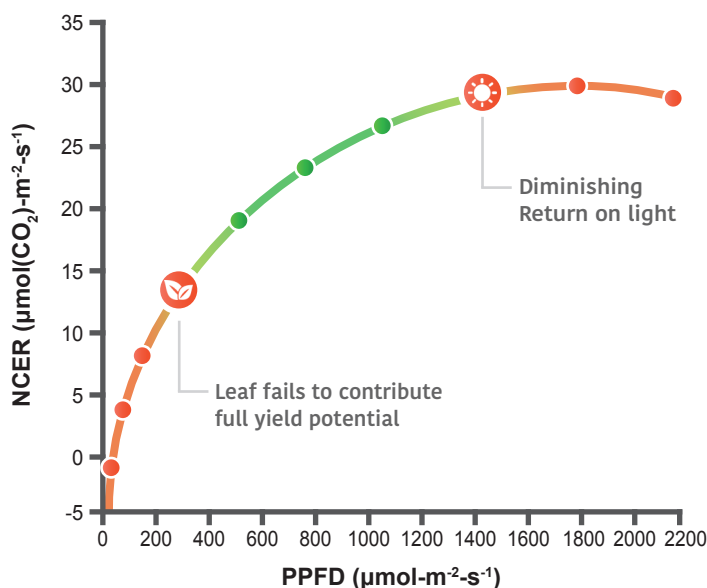
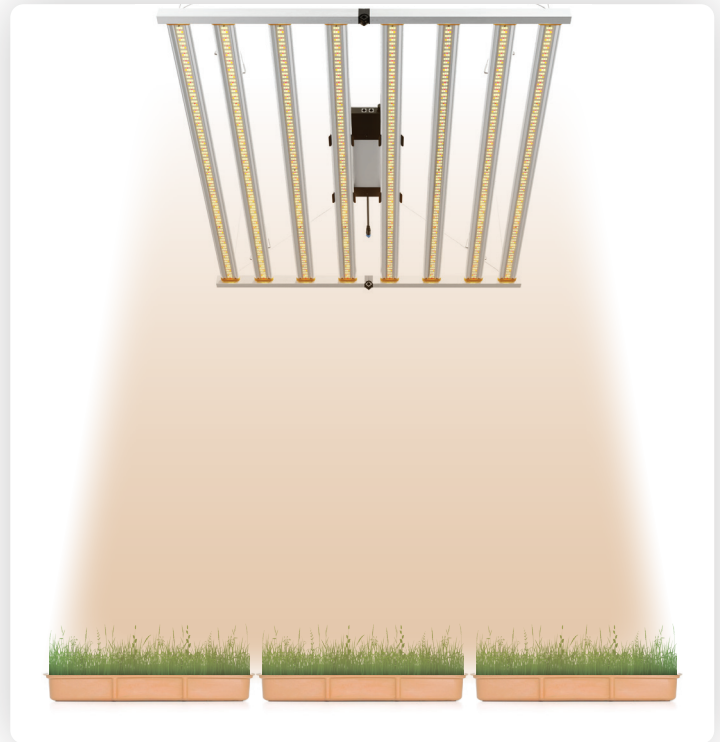




# CREATED FOR MAX PLANT GROWTH

## SUPERIOR OPTICAL CONTROL

Compared to the previous generation's Lambertian distribution, Franklin's suite of lighting solutions offers superior optical lighting control to bring you a precise, rich light that maximizes yield and provides a wider coverage in low headspace applications. This reduces the number of fixtures needed and lowers capital investment without sacrificing uniformity or crop quality.



## UNIFORM LIGHTING

Even lighting is a must to maximize yields as plants cannot utilize light efficiently when there are “hot spots” in the distribution.

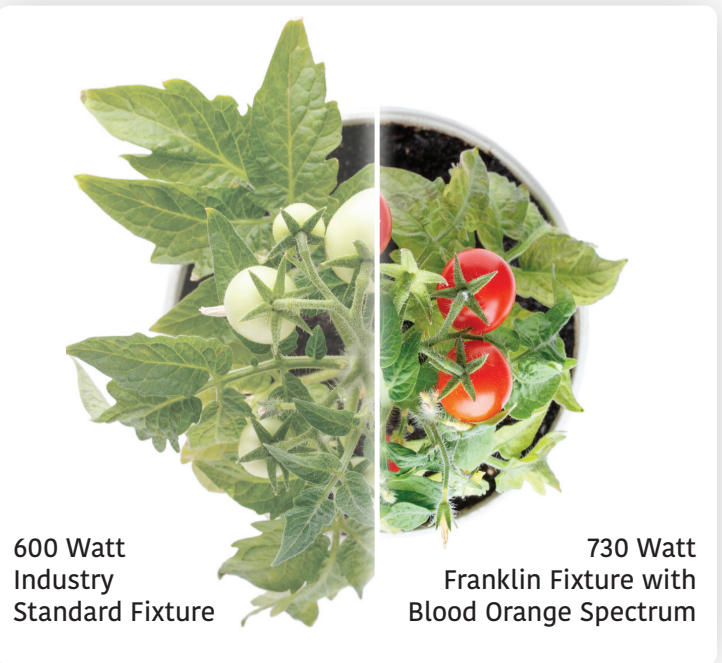
Franklin's unique optical design allows for even distribution at low suspension heights and higher heights when used in tandem with other fixtures.



# HIGH POWER SPECTRA

## Our Powerful Blood Orange Spectrum:

- Optimizes plant growth and photosynthesis
- Supports biomass and metabolite production
- Encourages full leaf size response for more robust growth
- Promotes plant structure and leaf mass



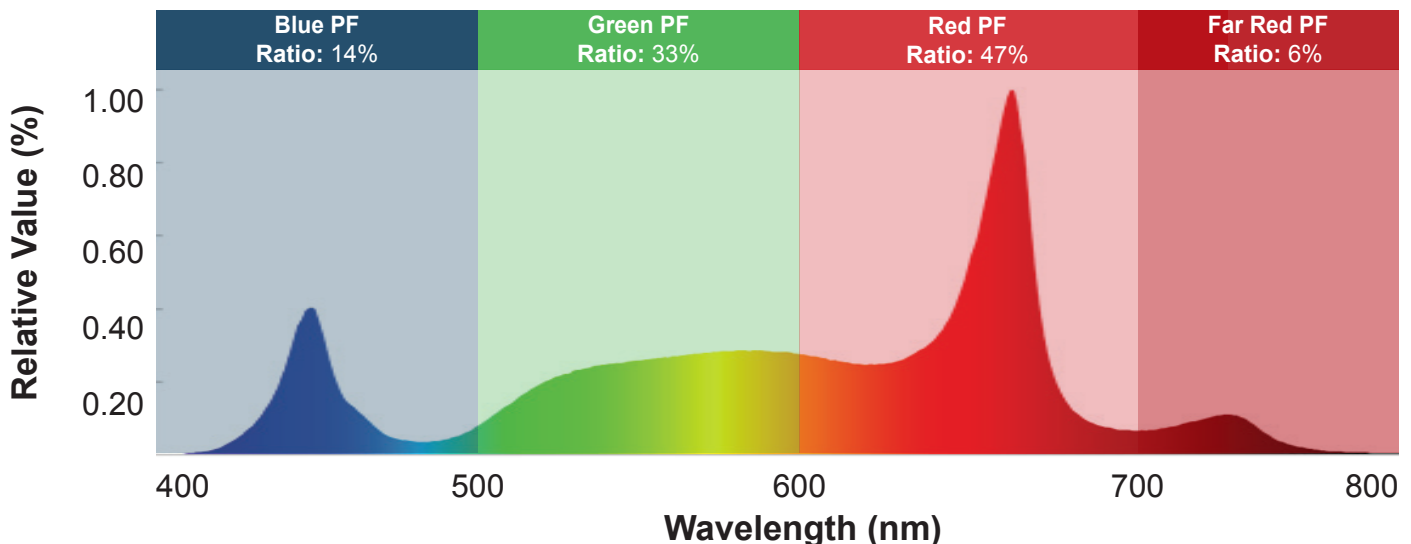
### POWER

With output approaching 2,000 PPF, Franklin offers plenty of light to maximize yield and even supplement CO<sub>2</sub> when used in low mounting height or tandem configurations.

### BLOOD ORANGE SPECTRUM

Thanks to our Full spectrum white LEDs, Franklin provides a balanced spectrum with more blues and greens than HPS while still leaning red and far red to allow for an industry leading efficiency of 2.74 umol/joule

## Spectrum Quantum Distribution







# FLEXIBLE DESIGN

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Flexible lights are a cornerstone of modern-day agricultural environments. That's why Franklin includes multiple accessories with every fixture, allowing for variable mounting options to provide equal light dispersion for any application.







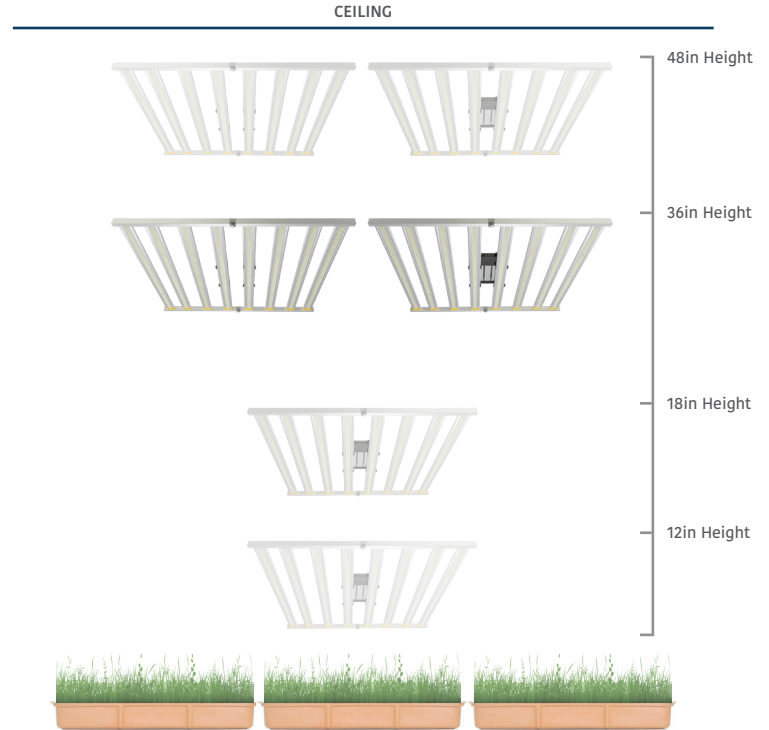
# IDEAL FOR ANY APPLICATION

## INSTALL AT ANY HEIGHT

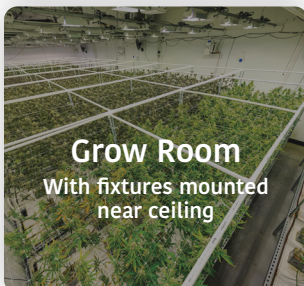
Franklin offers a complete light distribution for all growth periods, no matter the lights' mounting height. This allows you to direct, effective, superior optical lighting wherever you want it.

### Install Options:

- 36+ in.** - Ideal for full room coverage with mounting in overhead bay configuration
- 18 - 36 in.** - Ideal for suspended in rows over aisles with clearance to access plants
- 9 - 18 in.** - Ideal for vertical racking



## DESIGNED FOR ANY APPLICATION





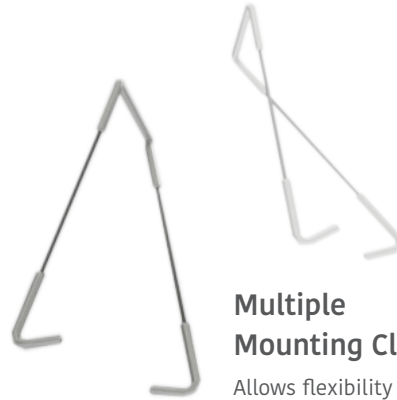
# INSTALLATION FLEXIBILITY

Franklin aims to make installation a breeze. That's why every fixture comes with multiple accessories to allow for variable mounting options and equal light dispersion for any application.



## Remote Mount Driver

Provides flexibility in driver install. Place the driver on the fixture itself or anywhere in the application thanks to an adjustable 10ft lead wire that allows for heat management assistance.



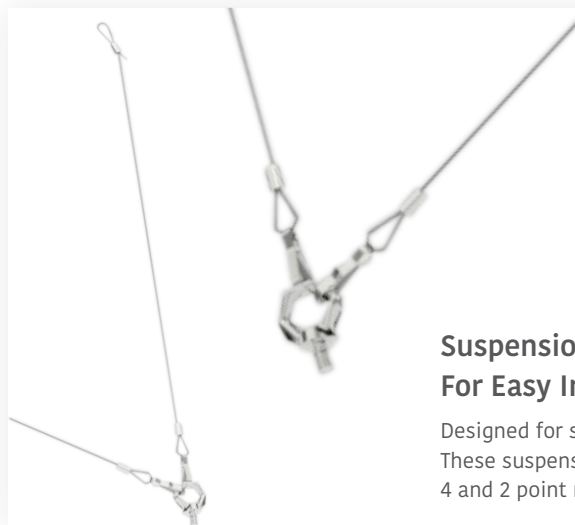
## Multiple Mounting Clips

Allows flexibility in mounting height and application. Clips can be used to mount the fixture on existing metal bars/struts and wired raking.



## Ratchet Clips For Additional Install Option

Designed for simple installation. These ratchet clips provide an alternative mounting option.



## Suspension Cables For Easy Installation

Designed for simple installation. These suspension cables offer 4 and 2 point mounting options.





# DESIGNED TO LAST

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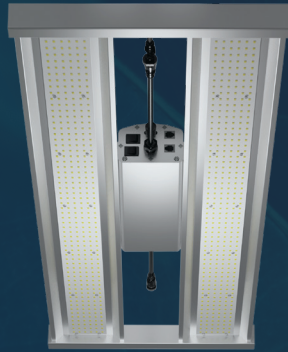




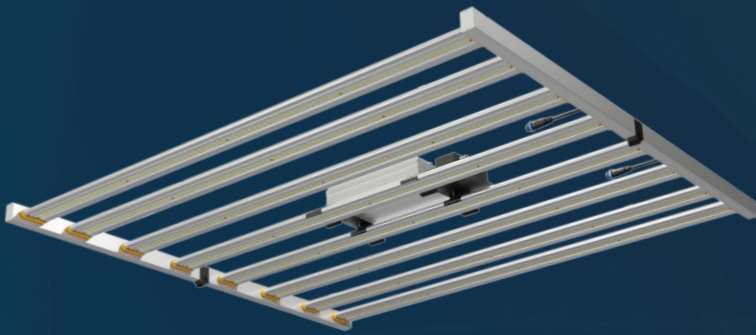


# DESIGNED TO LAST

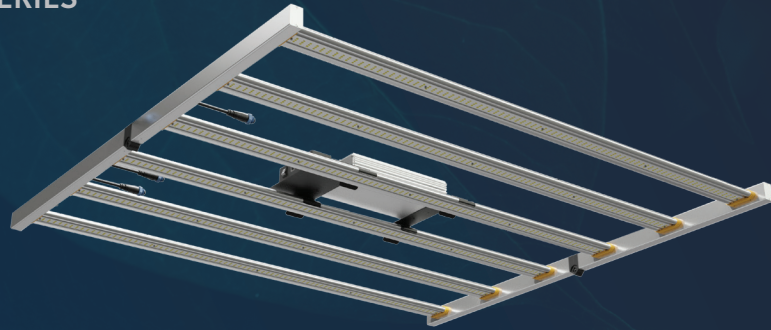
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F4000 SERIES



F7000 SERIES



F6500 SERIES

Franklin products are engineered to outperform the competition in high heat environments. Our fixtures provide more light and less heat while also dissipating remaining heat away from the fixture and plants to extend product life and increase harvest.



# RELIABILITY FOCUSED

## Tested To Last

Franklin products are made with an emphasis on efficiency and durability. Our products are independently tested, offer a 5 year warranty, and are validated with a DLC Listing. Each fixture is able to operate in high heat, humidity, and wet environments.



DLC  
Listed



Long Life  
+54,000 Hrs



5 Year  
Warranty



Operates in  
High Heat



Wet & Humid  
Applications



Dimmable

## INDUSTRY CERTIFIED



### Energy Optimization for Horticultural Lighting

DLC's Horticultural QPL is the first Qualified Products List for energy-efficient horticultural lighting. Growers rely on the Horticultural QPL to validate performance claims so they can find efficient and effective indoor lighting options for their crops and keep up with cutting-edge technologies.

## FRANKLIN'S LINE UP PORTFOLIO

Our portfolio of high power LED lights allow for optimal growth of everything from multiple plants to large harvest.



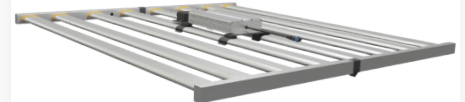
F4000 SERIES

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