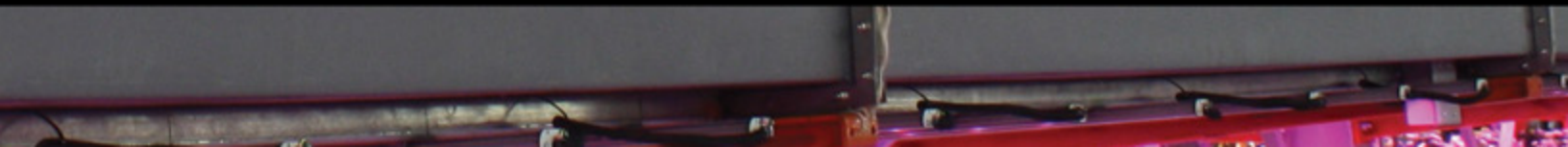


L E D



 illumitex





OUR STORY

UNDERSTANDING THE SCIENCE OF PLANT GROWTH

At Illumitex, we design LED lighting systems for controlled environment agriculture (CEA) operations. Based on scientific research, our product line conserves energy costs through cutting-edge technology. Our team consists of horticultural professionals including: design experts, engineers, experienced growers and plant scientists - working directly with customers to deliver world class horticulture solutions.

Our goal is to provide the highest caliber LED lights, ensuring accelerated and healthy plant growth.

"ILLUMITEX LED LIGHTS ARE AT A DIFFERENT LEVEL. IT'S A VERY WELL-MADE PRODUCT, AND WE LIKE THE SCIENCE BEHIND THE GROW LIGHTS."

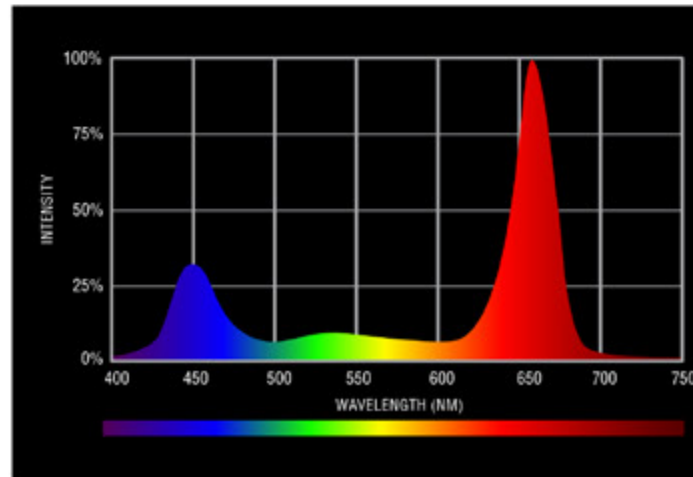
- PATRICK ROONEY
MASTER GROWER



LIGHTING SYSTEMS DESIGNED WITH ENGINEERING AND SCIENCE

Illumitex has mastered the process of both efficient photon generation and spectrum design in order to achieve better plant growth. Our fixtures are offered in a variety of beam angles and spectra specific to your application. Illumitex's patented Surexi LED technology maximizes light extraction from the chip into a light beam targeting the dimensions of the growing space. This creates an unsurpassed, uniform intensity and color at the plant canopy surface. Our lambertian fixtures provide wide angle photon emission for compound array lighting across a vast growing space or in shallow racking systems where side-canopy penetration of light is paramount.

Every grow operation is different. Here at Illumitex, we have developed several spectra to choose from and offer supplemental lighting wavelengths for specific applications. Our spectra are designed in-house from extensive growing trials with a variety of crops, conditions and developmental-stage considerations.



F3 SPECTRUM FOR ALL PHASES OF GROWTH

BEST FOR GERMINATION THROUGH FLOWERING

The F3 spectrum is the standard and most popular spectrum from Illumitex. It produces the fastest germination and drives the best vegetative and flowering results among all of the spectra options. In addition to the blue and red wavelengths, the F3 spectrum contains a small amount of green which is beneficial for the quality assessment of plants.





LIGHTING STRATEGIES

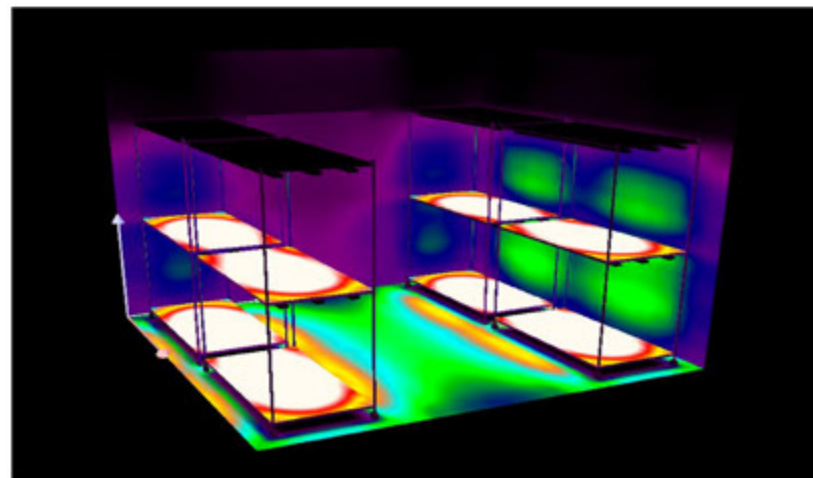
CREATING LIGHTS AND SOLUTIONS

Horticulture lighting is often the single most important item of any controlled environment agriculture (CEA) project.

There are many challenges and parameters involved in designing and operating a CEA growing operation. At Illumitex, you can leave the lighting to us.

We help you choose the best fixture and spectrum depending on your specific crops and growing conditions. Our team will recommend light levels and provide estimated fixture counts based on optimal design for your operations; maximizing crop biomass and quality while reducing capital and operational expenditures.

The Illumitex team consists of horticulturists, scientists, practitioners and experienced growers. We provide the LED horticulture luminaires and spectra you need to get your lighting system running quickly and efficiently.



TURNKEY LIGHTING SOLUTIONS

For customers who want the complete package we offer additional services called Turnkey Solutions. The Illumitex Turnkey Solutions division helps customers become more profitable, faster. The exact services applied are based on the needs of the project and will be established during the initial planning stage.

Program services include:

DESIGN AND PLANNING

- Schematic and design development planning
- Electrical and lighting system design
- Coordination of lighting plan with grow system or facilities plan
- Environmental controls
- Optimal placement with 3D lighting layouts
- Smart integrated lighting controls design

IMPLEMENTATION

- Project management
- System installation
- Optimize grow set-up and operational procedures to maximize Illumitex lighting
- Optimize cultivation to Illumitex lighting
- Crop quality control and energy efficiency

STRATEGIC COST-REDUCTION SERVICES

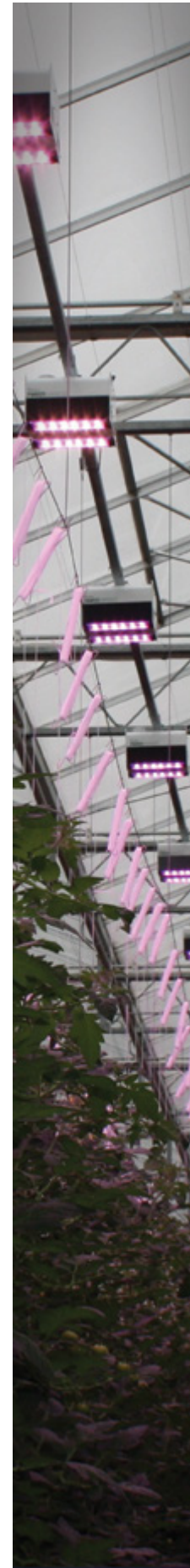
- Energy studies and audits
- Assistance with energy grants
- Assistance with tax credits and subsidies



OUR PRODUCTS

ILLUMITEX GROW LIGHTS

Created by engineers and horticultural experts, we combine quality parts with high-end technology to create a line of products for various needs. From beginners to seasoned veterans and everything in between, growing with our lights guarantees healthy plants.



POWERHARVEST®

Available in 500 PPF ($\mu\text{mol/s}$) and 1000 PPF variations, the PowerHarvest from Illumitex is designed and tested specifically for indoor grow operations, including greenhouses. Scientifically developed and patented horticultural growth spectra and high power LEDs combined with wide distribution optics ensure optimum plant growth and the highest yields. The wireless controls option equips growers with the ability to easily control one fixture or thousands of fixtures from a laptop computer, tablet or smart phone. All Power Harvest fixtures ship "controls ready."

TESTING AND COMPLIANCE

ETL/cETL listed

RoHS compliant

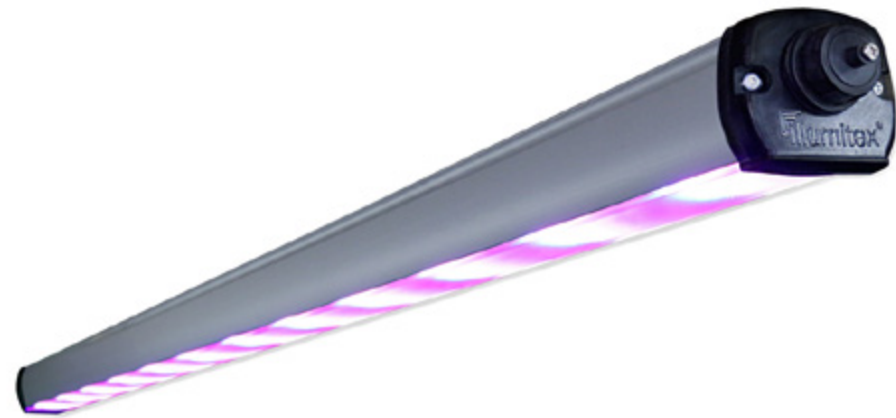
EMI compliance (FCC Part 15)

50,000 hour life to L70

5-year warranty

Rated to 40°C ambient operating temp





ECLIPSE W

The Eclipse W is ideal for vertical farm applications, but is also suitable for a wide range of other horticulture applications including: greenhouses, growth chambers and tissue culture laboratories. The Eclipse W single bar is designed to deliver high levels of photosynthetic photon flux (PPF) values with unsurpassed light uniformity, all within a slim and water-proof design. For easy installation, the Eclipse W fixtures can be daisy-chained together in runs of up to 15 fixtures. Fixtures are supplied with spring clips for surface mount or unistrut installations.

TESTING AND COMPLIANCE

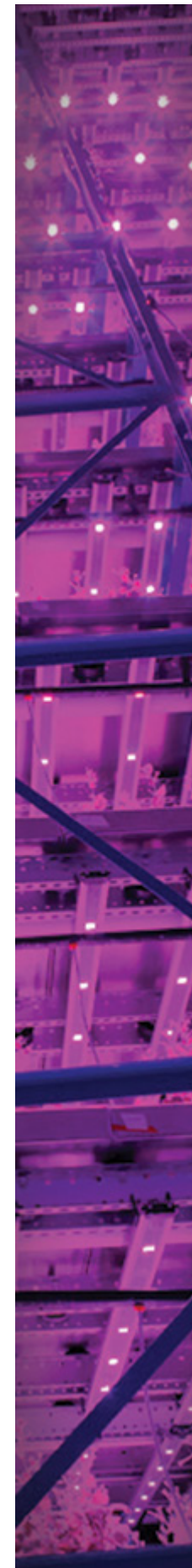
IP66 ingress protection rating

RoHS compliant

ETL/cETL listing for wet location

5-year warranty

50,000 hour life



ECLIPSE N

The Eclipse N is ideal for vertical farm applications, but is also suitable for a wide range of other horticulture applications including: greenhouses, growth chambers and tissue culture laboratories. The Eclipse N single bar is designed to deliver high levels of photosynthetic photon flux (PPF) values with unsurpassed light uniformity, all within a slim and water-proof design. For easy installation, the Eclipse N fixtures running on 120Vac input, 30 fixtures (44 for low wattage) can be daisy-chained together.

TESTING AND COMPLIANCE

IP66 ingress protection rating

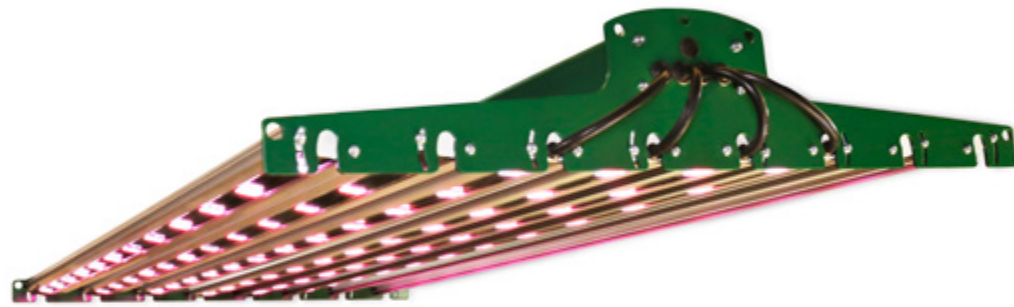
RoHS compliant

ETL/cETL listing for wet location

5-year warranty

60,000 hour life





NEOSOL™

The NeoSol DS grow light is suitable for a wide range of horticulture lighting applications including propagation, vegetative growth and flowering of plants in grow tents, compact growing areas or large-scale commercial grow operations. May be used in vertically stacked orientation of two or more layers of grow trays and NeoSol fixtures. Outperforms 1000W HID fixtures in 4x4 and 5x5 plant grow beds, giving growers more than 50% energy savings. Available in three dimming configurations: manual dimming, direct dimming system or non-dimming version.

TESTING AND COMPLIANCE

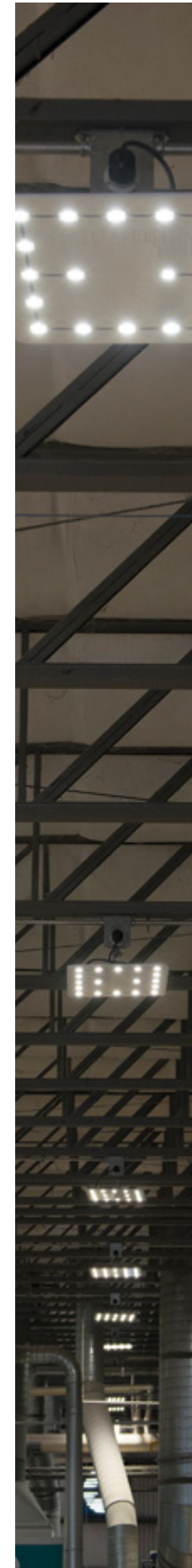
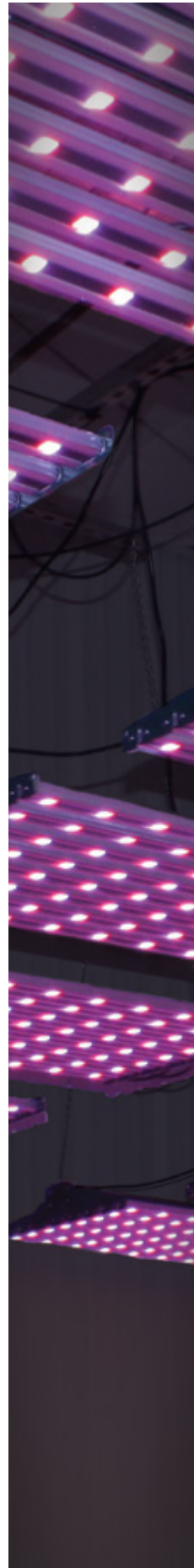
IP66-rated LED bars

RoHS compliant

ETL/cETL listed

5-year warranty

60,000-hour life to L70



STRATUS

The Stratus LED high bay is an ideal light fixture choice for applications including warehouses, manufacturing facilities, school gymnasiums, auditoriums, cafeterias, high ceiling retail, airports and other areas with demanding environments. The Stratus is available in lumen packages equaling 175W through 400W metal halide at mounting heights ranging from 15 to 65 feet. The Stratus high bay incorporates Illuminex's industry-leading and proprietary Aduro™ LEDs, resulting in near-perfect uniformity and exceptional delivered lumens and CBCP values in a sleek, aesthetically pleasing style.

TESTING AND COMPLIANCE

IP66 ingress protection rating option

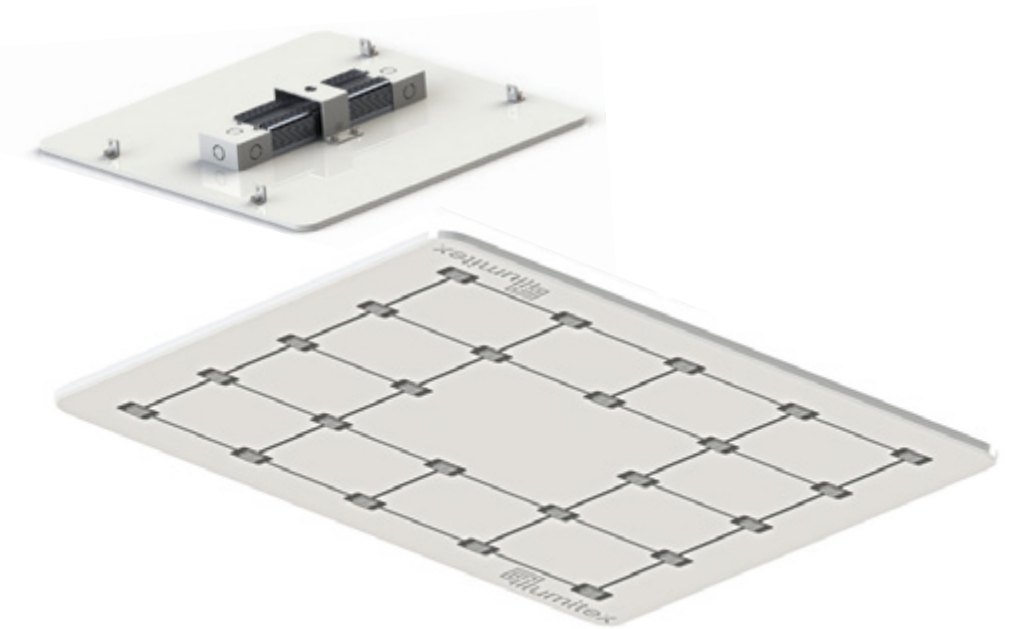
RoHS compliant

ETL/cETL Listed

DLC listed

5-year warranty

-35°C to 55°C operating temperature range





CORONA

The illumitex Corona LED luminaire is designed specifically for industrial environments such as food processing plants that often involve grease, oil, smoke, dust or steam that can minimize lighting efficiency. With engineered optics and an inherent IP66 rating from the LED package level illumitex has designed the Corona lighting fixture specifically for wet environments. The illumitex Corona helps to create safe, sanitary, usable environments while providing high quality and energy-efficient light.

TESTING AND COMPLIANCE

ETL Sanitation certified to NSF 2 standard

IP66 classified per IEC 529

RoHS compliant

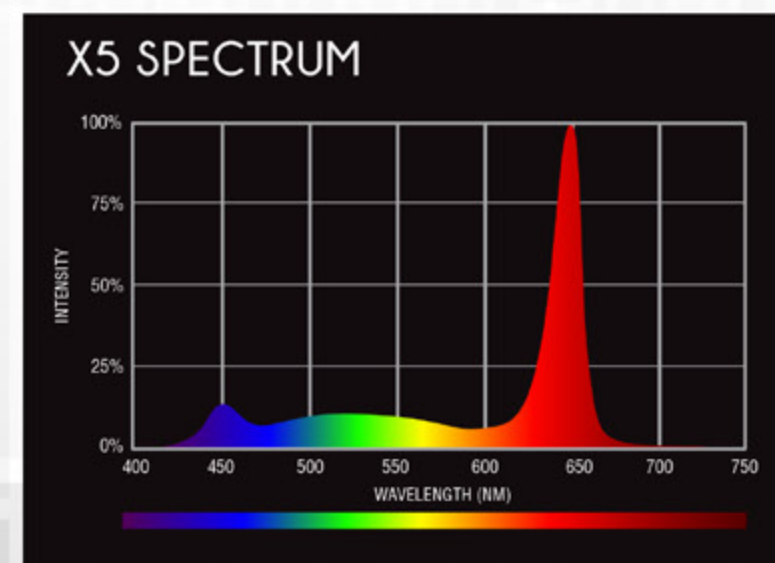
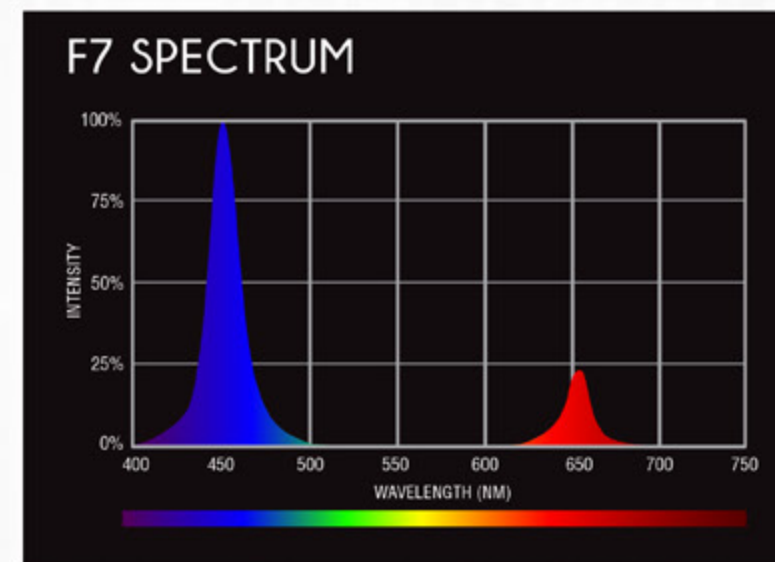
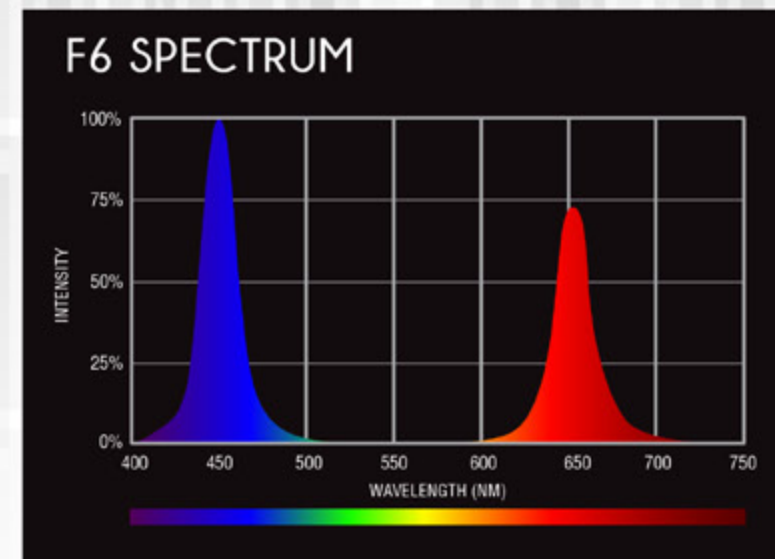
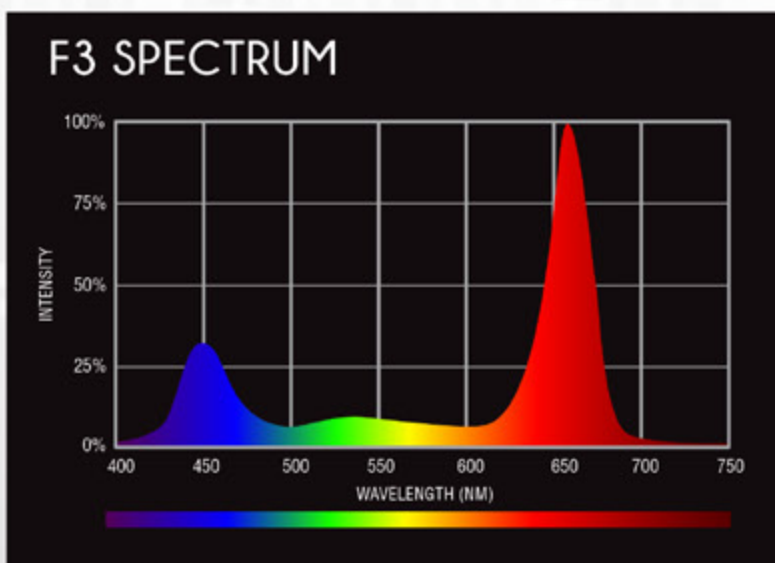
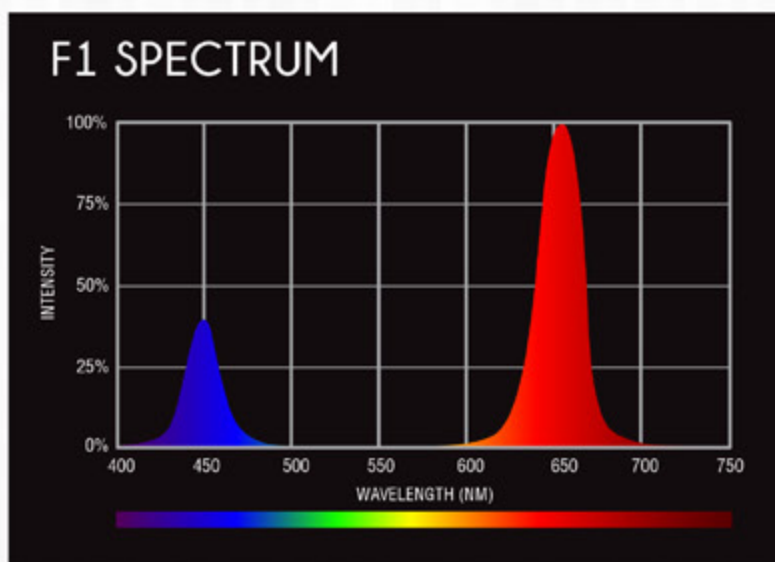
ETL/cETL listed

5-year warranty



SPECTRA

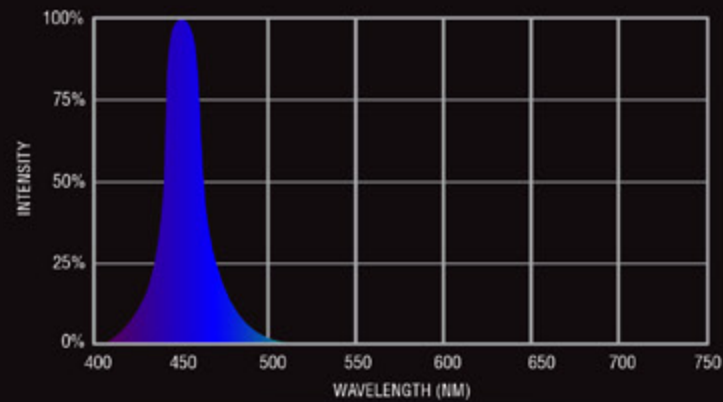
Illuminex offers five standard spectra LEDs designed to work as self-sufficient light sources for a variety of horticulture applications. We also offer custom spectra options.



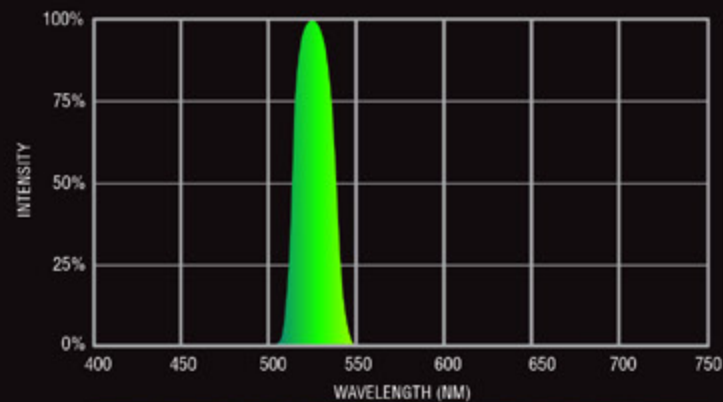
SUPPLEMENTAL WAVELENGTHS

Illumitex offers five supplemental wavelength LEDs designed to compliment sunlight or other light sources. We also offer custom supplemental options.

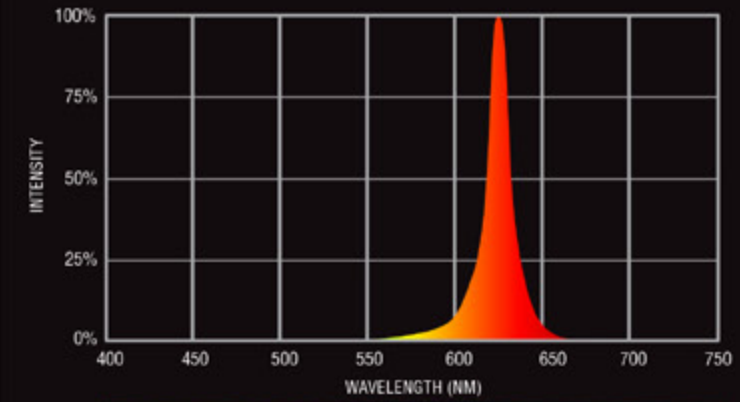
450nm BLUE WAVELENGTH



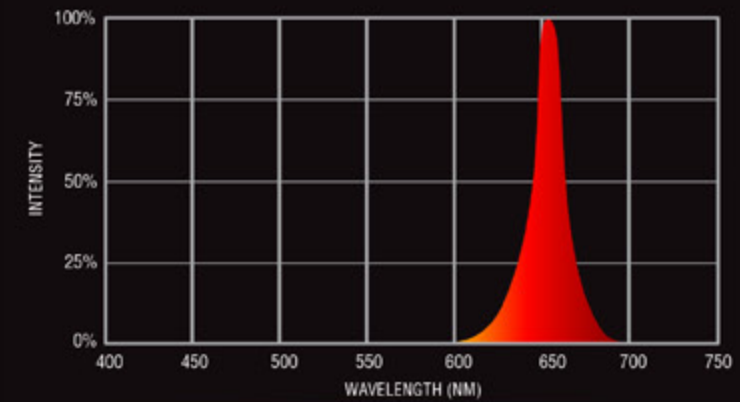
525nm GREEN WAVELENGTH



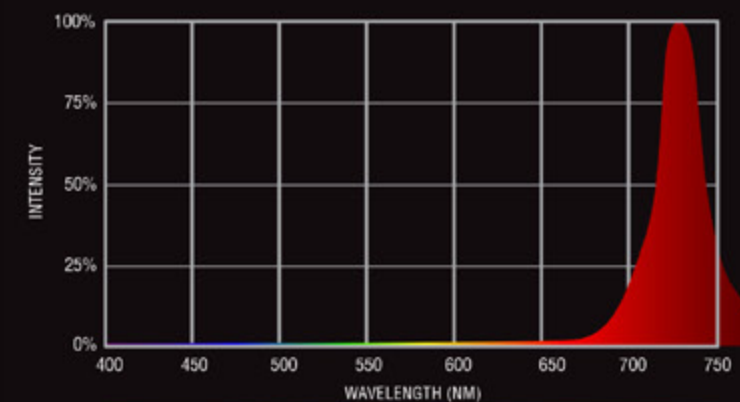
624nm RED WAVELENGTH



660nm RED WAVELENGTH



730nm RED WAVELENGTH



FINAL THOUGHTS

CHOOSE ILLUMITEX

At Illumitex, our customers benefit from high quality, cutting-edge LED lights designed to maximize yield and reduce production costs. Unlike other horticulture LED manufacturers, we work closely with our customers, providing expert advice on spectra and growth conditions for each application. From installation to financing, and growing to food preparation, Illumitex is there providing expertise and support so you can get your system running quickly and efficiently.

Contact us today so we can begin designing your system.

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