

HORTICULTURAL LIGHTING





Beghelli offers industry leading technology for horticulture lighting. **Fiore** benefits are:

CUSTOMIZATION OF LIGHT

We customize the quantity and quality of light in relation to the plants and their needs. Quality: the right ratio of emitted colors (blue, green, red, far-red). Quantity: intensity of light that reaches the plants (PPFD: Photosynthetic Photon Flux Density).

DIRECTION OF LIGHT

The luminous flux emitted by Beghelli Fiore luminaries are designed to ensure that the maximum amount of irradiating light reaches the plants.

HOMOGENEITY OF LIGHT

Beghelli Fiore luminaries have been engineered to distribute light uniformly.

DESIGN OF LIGHT

Beghelli Fiore luminaires are compact in size. This reduces large areas of shade and provides more efficient illumination.

PLUG AND PLAY

Beghelli Fiore luminaires can easily be installed in series. This reduces set-up time and provides instant savings.



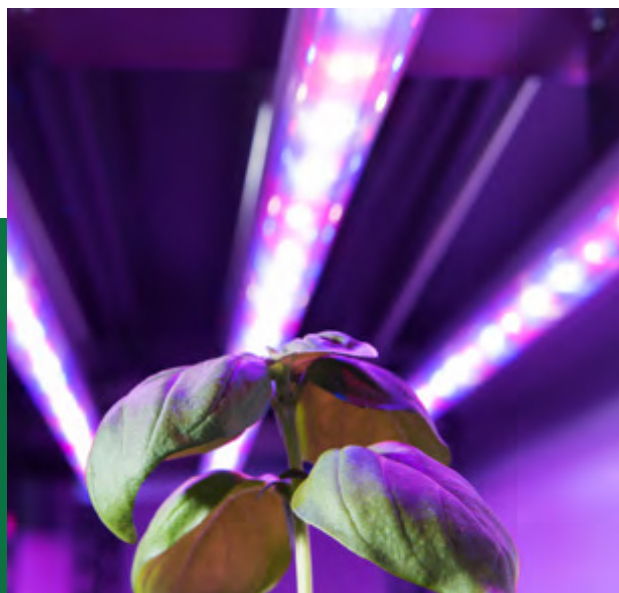
EFFECTIVE LIGHT POSITIONING

Sustainability and innovation are key concepts in Beghelli's approach. We work to ensure that our products are applied in synergy with the environment. Our luminaries are designed to help growers increase yield, reduce costs and extend the growing season of summer crops, guaranteeing production even in the winter. Production yield can be increased while improving the crops nutraceutical properties (excellent nutritional quality, rich in vitamins and antioxidants).

Whatever the sector, maximizing the functional and aesthetic yield of the plants to optimize production is essential. Beghelli's solutions provide the right light needed to grow plants in any season, driving specific agronomic responses such as flowering, maturation, leaf pigmentation and fruit ripening.

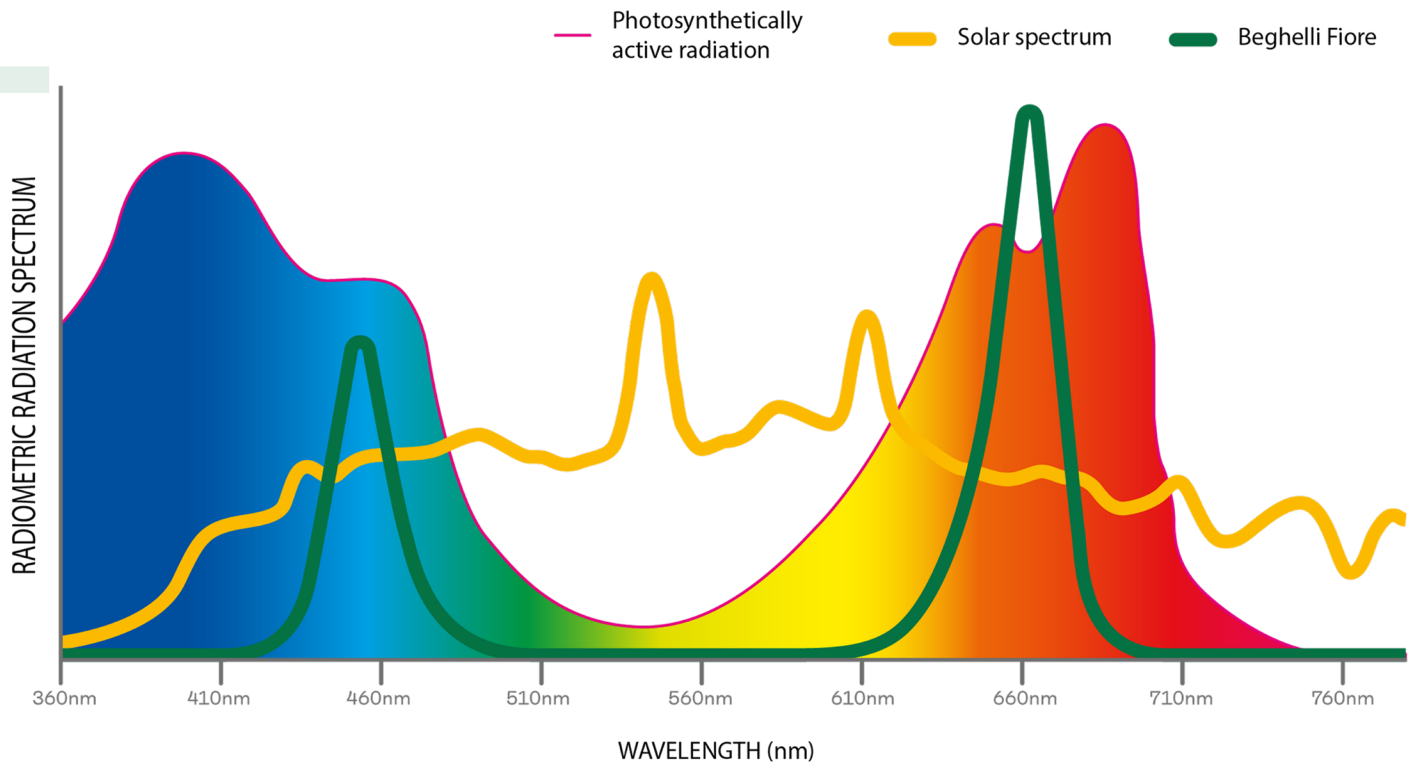
ADVANTAGES INCLUDE:

- Increased production yield
- Greater resistance to diseases, resulting in healthier plants
- Less malformations of leaves and fruit
- Increased flowering, fruit and harvest
- The proper amount of blue light reduces a plant's leaf and structural malformations
- Improved produce shelf life and taste
- Color and shape optimization



PATENTED SPECTRUM TECHNOLOGY

Each plant has specific light intensity requirements. How can we get the best yield from our plants? We study the correct recipe for each type of plant, at every stage of its growth. The optimal recipe is made of a perfect light combination of intensity, spectrum, schedules, uniformity and positioning.



HOW TO IDENTIFY THE OPTIMAL SPECTRA FOR EACH CROP:

SUNLIGHT

The sunlight spectrum is used in applications for greenhouse production mainly of Cucurbitaceae e.g. melon, watermelon or cucumber.

BLOOM

The bloom spectrum mainly induces flowering and chiefly used for ornamental crops.

FRUITS

The fruits spectrum is suitable for small fruits such as strawberries, blueberries and raspberries in greenhouse production set-ups.

NATURAL

The natural spectrum, specific for delicate plants that are often found in nurseries. Grafted seedlings or seedlings that must become acclimatised to the open field can benefit from this light; excellent spectrum for microgreen growing

HORTIS

The hortis spectrum is the main spectrum for many horticultural crops to be grown in greenhouses, mainly edible or herb type leafy crops; but also products suitable for indoor growing.

PURPLE EVO

The purple EVO spectrum is commonly used for the production of algae in tanks or in photobioreactors.

PURPLE

The purple spectrum is best suited for spectrum for the production of medicinal hemp.

NATURAL INDOOR

The natural indoor spectrum is best suited for the production of leaf and herbs. Important for indoor plant factories, vertical farming and containers, in which outdoor light is reduced.

MICRO PROPAGATION

Used to support the growth of micropropagated plants, this light is also suitable for small fruits in indoor environments such as in plant factories and vertical farming.

EXTENDED WHITE

“Like the sun”.
From HPS (High Pressure Sodium) to HPL (High Performance LED)..

MUSHROOMS

Specific spectrum for mushroom growing.

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Beghelli USA is constantly developing and improving the product range and performance. All descriptions, illustrations, drawings and specifications are up to date. Beghelli reserves the right to change specifications without prior notification or public announcement.

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