Horticultural Lighting for **Indoor Farming**

LED lighting for indoor farming that delivers fast biomass, high uniformity, and minimal heat—enabling maximum yield in limited space.

VALOYA

www.valoya.com

Two decades of innovation
in LED lighting for plant science
and commercial cultivation.

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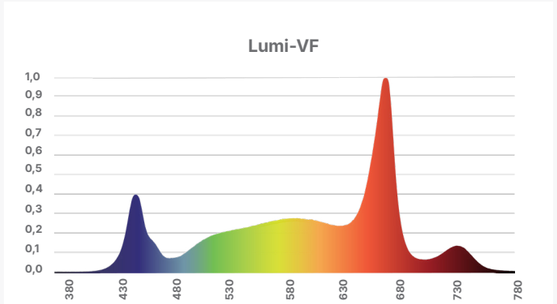
V2026.01

Maximize Yields in Limited Indoor Spaces

Valoya's lights illuminate some of the world's largest indoor farms. Our indoor farming spectrum is optimized for high yields while enhancing nutrient density and flavor, supporting consistently high crop quality even in compact indoor environments. The fixtures are engineered to direct heat upwards, away from the plants, while delivering a uniform light spectrum and intensity distribution. This ensures even crop development across the canopy, including at the edges.

Up to **32% More Yield**



Lumi-VF spectrum is a white-light spectrum, optimized to promote biomass accumulation while maintaining balanced plant development.

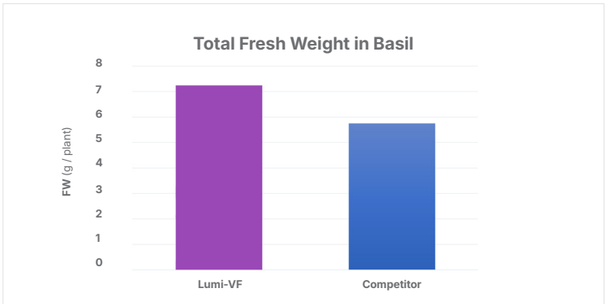
Unlike spectra consisting only of red and blue wavelengths, Lumi-VF encompasses a broader spectral range.

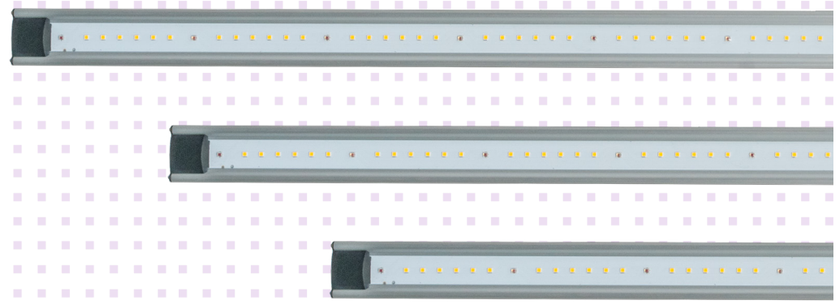
This results in healthier plants, faster growth, and more efficient use of energy—helping growers achieve more output from every input.

In a controlled trial with lettuce and basil, Valoya's Lumi-VF spectrum was compared against a competing LED spectrum, representative of typical vertical farming solutions based primarily on red and blue wavelengths.

Lumi-VF achieved **up to 32%** higher yields than the competitor spectrum.

The research was conducted by Valoya's Plant R&D team under controlled growth conditions.

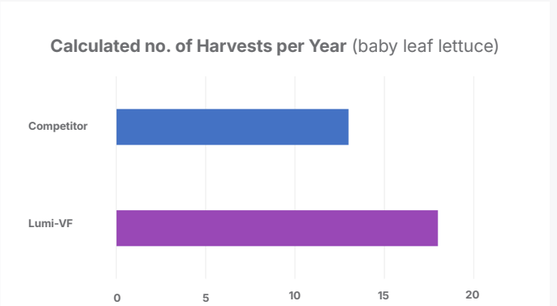


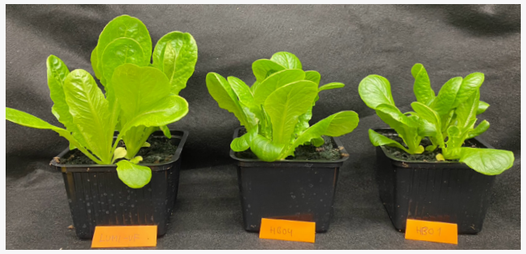


LL-Series
Modular LED Bars

The product series is available as a **set of 3 or 4 bars**, in **120 cm (4') or 150 cm (5') lengths**, featuring a slim, dimmable design. It delivers excellent performance in close-growing and compact cultivation conditions, while remaining easy to install and adjust. The fixtures are **chainable and dustproof**, rated **IP65**, and provide an **efficiency of up to 3,2 µmol/J**.

Up to **5 More Harvests Annually**

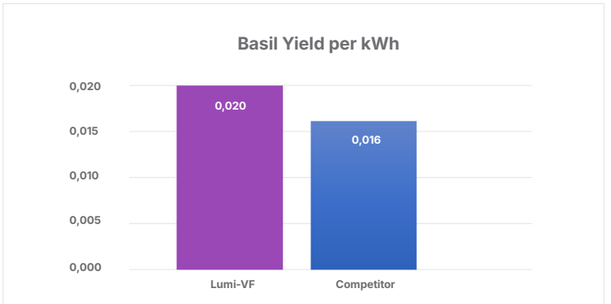




Lettuce grown under Lumi-VF grows faster than with competing spectra, enabling up to five extra baby leaf harvests per year.

Smarter **Energy Usage**

Lumi-VF boosts biomass and delivers **20% higher yield per kWh** than competing spectra, making it an excellent choice for leafy greens and herbs such as **lettuce, rocket (arugula), basil, coriander, dill, and microgreens**.
By combining fast growth, high biomass, and energy efficiency, Lumi-VF helps growers get more out of every kilowatt-hour.



Real Farms, **Real Results**

Growing Underground, London

A vertical farm located 33 m beneath the streets of London, cultivates 15 varieties of microgreens entirely without natural light.

Under Valoya lighting, the microgreens grow faster and develop more intense flavor than when grown under any competitor lights that were tested in the pfarm set up process.

GROWx (now part of Growy)**, Amsterdam**

In a large climate cell with endless racks of microgreens, Valoya lights power 24/7 growth of microgreens for some of Amsterdam's top restaurants.

Cultivating over 20 varieties, the farm has quickly earned its place among the city's top 10% of restaurants.

&ever (now part of Growy)**, Hamburg**

In the heart of Hamburg, a highly automated, one-of-a-kind vertical farm grows a wide range of microgreens under pristine conditions.

The company aims to go beyond organic, producing crops that are extremely nutrient-dense and full of flavor.

Research-Grade Horticultural Lighting

Two decades of innovation in LED lighting for plant science and commercial cultivation.

Headquarters

Valoya® is a brand of Greenlux Lighting Solutions Oy and a registered trademark in the European Union, the United States, and certain other countries.

ALL BROCHURES

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