



**FOOD  
AUTONOMY**  
Horticultural lighting

# LEDFAN TOPLIGHT

FRUIT LOGISTICA

**INNO  
VATION  
AWARD '23  
NOMINEE**



HORTICONTACT



**NOMINEE**



**Food Autonomy** is convinced that the key to success is the application of new technologies.

Having in-depth knowledge in the field of lighting techniques, we are focusing specifically on greenhouse lighting and vertical farms.

Our aim is to offer world-class quality LED lighting and smart-solutions to growers and farmers for use in their precision indoor farming operations.

## CONTACT

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## Smart lighting solution fighting the energy crisis

**BY GROWERS FOR GROWERS**





# WHY IS LEDFAN UNIQUE?


The LEDFan Toplight has been specifically developed by growers for growers for the cultivation of tomatoes in high tech greenhouses. It is the best one to one replacement for the traditional high pressure sodium lamps (HPS) as it combines the advantages of LED and HPS.

- Reduces not only lighting costs, but it provides considerable savings (around 15%) on heating costs compared to HPS and even more compared to normal LED fixtures, which are producing about 6% less heat than HPS
- Increases yield by providing more  $\mu\text{mol/s}$  to the plants vs HPS
- Improves evaporation stimulating photosynthesis
- Dimmability further increases efficiency while maintaining light uniformity
- Switchable spectrum ensures optimal light for people and plants.


## NEW FEATURES

  
Multi-channel option

  
Wireless dimming

  
Supports automatization

## KEY BENEFITS OF LEDFAN

  
Luminous efficacy up to  $3.8 \mu\text{mol/J}$

  
PPF up to  $4060 \mu\text{mol/s}$

  
High uniformity

  
50k lifetime

  
Unlimited spectral variations

  
Stimulates evaporation

  
Less plant disease

  
Better working conditions

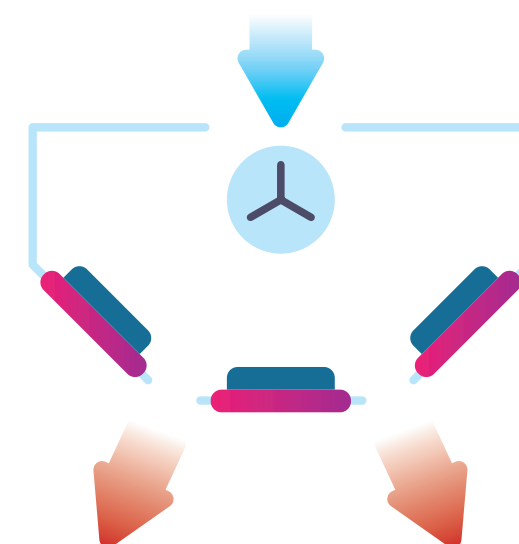
Considerable cost savings on lighting and heating

Revolutionary design

Up to 1200W

## HOW IT WORKS?

- ✓ Cold air is drawn from the top, warmed up by the heat loss of the LED and drivers
- ✓ The warm air lowers humidity and stimulates evaporation, which improves the photosynthesis
- ✓ Meanwhile, it ensures that screens and windows can be further closed, which result in lower energy usage



A warm air blanket forms around the top of the plants, creating an invisible energy screen.

