



PLANTALUX





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*During each edition of Fruit and Vegetable Industry Fair, Prof. Pieniązek's Prize is awarded to companies significantly contributing to the development of horticulture. The jury awards products which are most innovative and beneficial for gardening, environment and society, reported by the Exhibitors and Subexhibitors. Plantalux has been awarded three years in a row (2018, 2019 and 2020) for its innovative horticulture LED lighting solutions.*

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## HISTORY

We established Plantalux as a family-owned business in 2016 but our roots in lighting but our roots in lighting industry reach far deeper – to 2011.

Since the very beginning we have been focused on horticulture industry, especially enhancing plant growth in controlled environment, both in greenhouse and indoor farming.

Since 2016 we have delivered our products to many growers in 12 countries in Europe, Asia, North and South America.

## MISSION

At Plantalux we want to contribute to constantly changing world by providing solutions for improving plant cultivation and at the same time decreasing needed resources.

## RESEARCH DRIVEN TECHNOLOGY

In Plantalux we believe that research and curiosity are the main drivers of success. That is why we test every aspect of light in our own lighting laboratory. The laboratory is fully equipped in state-of-the-art measurement devices such as integrating sphere, spectroradiometer, goniometer and overload chamber.

But laboratory is not the end of a journey. We opened our own indoor research and development center in which we test our LED lighting in controlled environments. Facility is comprised of two separate growing rooms, each with complete climate control – light intensity and photoperiod, air flow, air temperature, CO2 concentration, relative humidity, pH, EC and moisture content in growing medium. All nutrients are delivered to plants by drip system which is able to dose up to 24 shots a day. All data is constantly monitored by sensors and then stored to introduce future improvements.





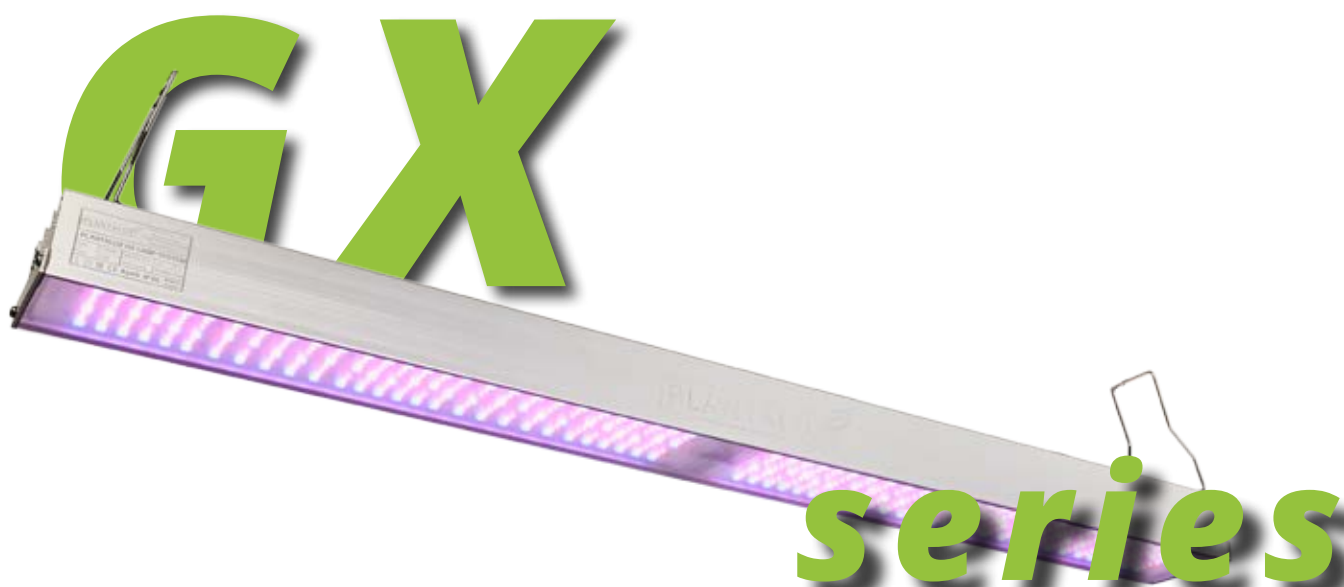
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*55 000 m<sup>2</sup> cultivation area of  
tomato in Kazakh greenhouse*

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# LED SMD HORTICULTURE LAMPS



## Specification

- lamp equipped with LED light source made in **SMD** (Surface-Mount Devices) technology
- power consumption: 320 W or 640 W
- efficiency: up to **3,5  $\mu\text{mol/J}$  @ 230 V**
- **Power Factor: 0,98**
- beam angle: 120°
- ingress protection: **IP66\***
- light source lifespan up to **80 000 hours** (approx. 9 years of constant lighting)
- dimmable Inventronics driver (PWM or 0-10V analog)
- standard cable length between lamp and driver: 1,00 m
- modular structure - each element of the fixture can be replaced independently
- case made of anodized aluminum
- lamp equipped with diffuse glass for improved light distribution and uniformity
- passive heat dissipation
- warranty: basic 3 years, **extended 5 years**

## Dimensions

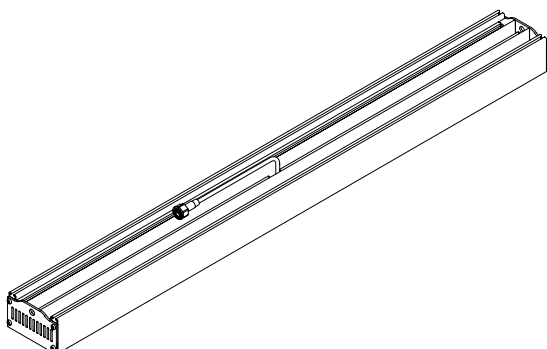
Version	Length	Width	Height	Weight
320 W	1011 mm	100 mm	60 mm	5,50 kg
640 W		271 mm		11,00 kg
1200 W		984 mm		22,00 kg



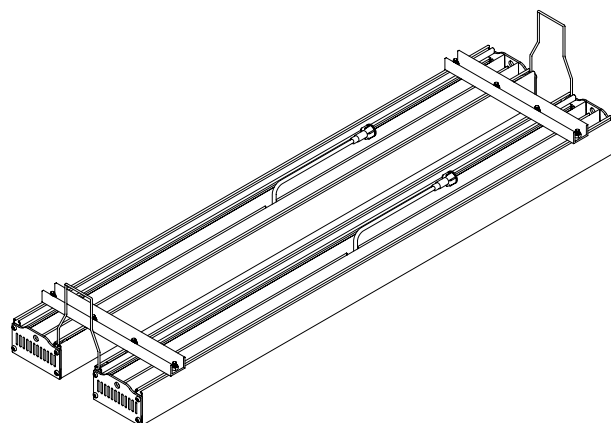
## Top View



## Single bar version



## Double bar version



\* - accounts for ingress protection of all electrical parts such as diode, driver, wires





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*We have realized cannabis and hemp lighting projects both greenhouse and indoor in countries such as Austria, Canada, France, Germany, Israel, North Macedonia, Poland, Serbia, Spain, Switzerland, Uruguay, USA.*



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# LED SMD HORTICULTURE LAMPS

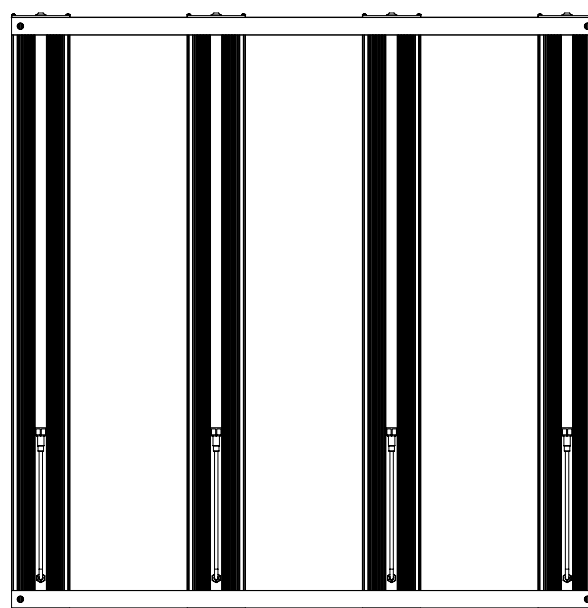


# series

## Specification

- lamp equipped with LED light source made in SMD (Surface-Mount Devices) technology
- power consumption: 640 W
- efficiency: **2,6  $\mu\text{mol/J}$  @ 230 V**
- **Power Factor: 0,98**
- beam angle: 120°
- ingress protection: **IP66\***
- light source lifespan up to **80 000 hours** (approx. 9 years of constant lighting)
- dimmable Inventronics driver (PWM or 0-10V analog)
- standard cable length between lamp and driver: 1,00 m
- modular structure - each element of the fixture can be replaced independently
- case made of anodized aluminum
- lamp equipped with diffuse glass for improved light distribution and uniformity
- passive heat dissipation
- warranty: basic 3 years, **extended 5 years**

## Top View

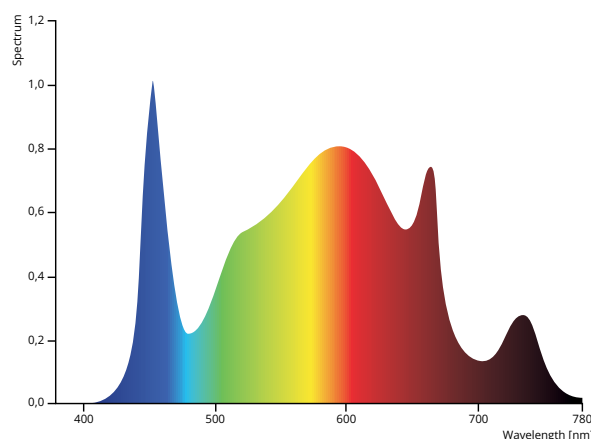


## Dimensions

Version	Length	Width	Height	Weight
640 W	1015 mm	1000 mm	45 mm	12,00 kg



## Spectrum



\* - accounts for ingress protection of all electrical parts such as diode, driver, wires

## CONTACT DETAILS



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