

# More success for your horticulture projects with OSRAM LED technology

With Planta Seed, OSRAM DS brings highly efficient LED modules to market

Horticulture is a fast-growing market. A key to successful production in greenhouses and vertical farming is the effective use of light. However, traditionally used high-pressure sodium (HPS) lamps consume a lot of energy and are not always able to provide the right spectrum when needed. Now is the time to switch to high-efficiency LED systems with optimized spectra.

With the innovative Planta Seed LED modules, OSRAM DS is launching future-proof and high-performance modules perfectly matching your horticulture lighting solution. Compatible with our LED drivers,

Planta Seed LED modules are as flexible as they are customizable – perfect for your successful entry into horticulture.

Thanks to our unique expertise – system competence (LED chips, LED modules, LED drivers, and controls) – OSRAM DS has long since established itself as a strong partner for standard as well as customized lighting concepts in indoor farming. For efficient and modern horticulture solutions, OSRAM DS offers its customers not only excellent consulting service but also customization, including luminaire authorization.



Thanks to a photon-flux efficiency of up to 3.6  $\mu\text{mol}/\text{J}$ , you can increase the growth rate of your plants and at the same time optimize your operating costs.



Compatible and expandable with our LED drivers, Planta Seed modules are as flexible as they are individually applicable. For example, combine PlantaSeed R90B10 or PlantaSeed R30W70 with OT FIT 380/220-240/1A4 D NFC HC L LED or further ingress-protected (IP) LED drivers for your toplighting greenhouse system.



In the CEA (controlled-environment agriculture) sector, horticulture is the fastest-growing market. Food can be produced year-round, locally and fresh – regardless of the seasons and environmental factors.



Traditional lighting with HPS can finally be replaced by energy-saving LED concepts. For the same amount of energy, 1,000 W LED luminaires provide more light output and an even better spectrum.

Contact our sales department at OSRAM Digital Systems and go online: [www.osram.com/linear](http://www.osram.com/linear)

Light is OSRAM



**Rauno Pokall**

Rauno Pokall is Senior Product Manager at OSRAM and expert for customization. He offers targeted solutions for the growing horticulture market, which has grown strongly in recent years.



**Nicolai Heber**

Nicolai Heber is Product Portfolio Manager of Linear Constant Current Systems. For 16 years, he has been in the Lighting Business, in various functions such as Sales, Business Development and Product Marketing.

### The Planta Seed modules at a glance:

- In two different specific spectrum variants
- A reliable basis for most of the horticulture projects
- Future-proof systems thanks to Zhaga-Book-15-standardized LED modules
- Very high efficiency with up to 3.6  $\mu\text{mol}/\text{J}$  for optimized operating costs and faster growth
- High reliability thanks to first-class light sources
- Possible system offers with matching LED drivers, e.g. OT FIT 380/220-240/1A4 D NFC HC L or IP-protected LED drivers
- Flexible for customization by type of spectrum

### OSRAM. The light you need.

OSRAM Digital Systems delivers technology for successful LED projects. From components to complete systems, from individual solutions to large-scale installations. Whether in industry, at trade fairs, in parking garages or in retail stores – you can always rely on OSRAM quality components.

