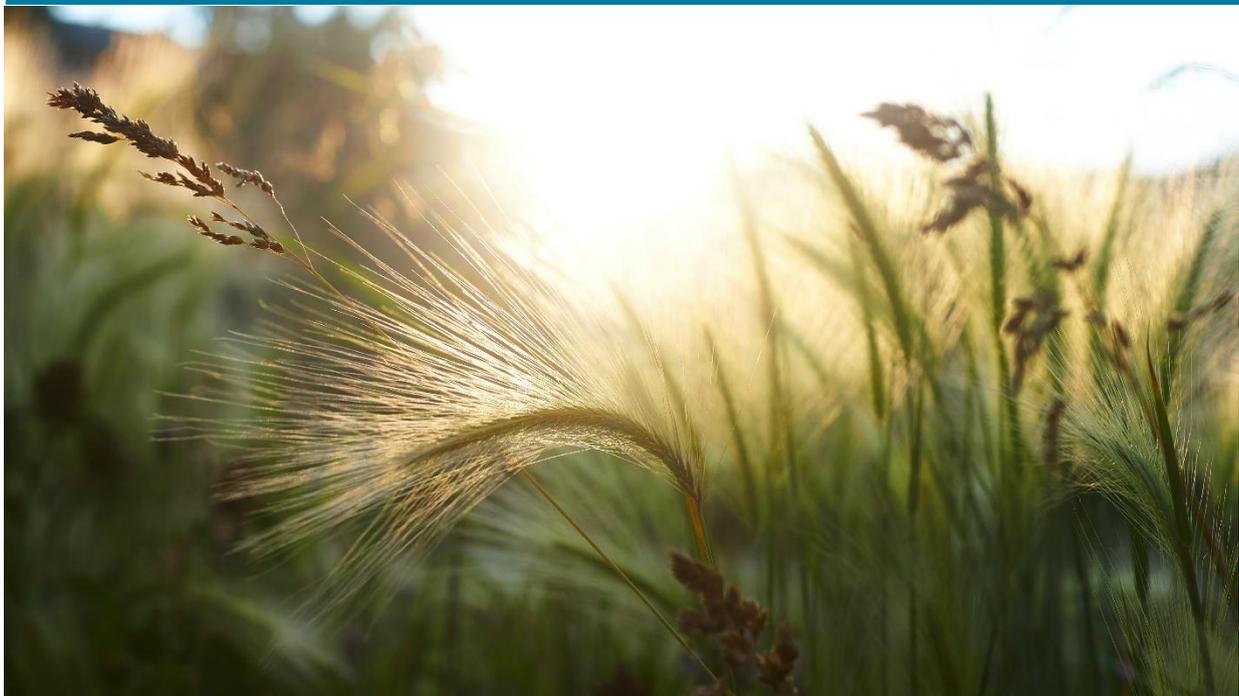


## Colasse offers an innovative LED solution for horticultural research centers

WITH A LED WHICH MIMICS THE NATURAL SUNLIGHT



### CONTEXT

Higher plants and more generally, photosynthetic organisms need light to live. Exposed to artificial light (different intensity and spectrum from that of the sun), plants implement adaptation processes.

All these adaptation strategies are studied in agronomic research and plant biology laboratories, in particular at CEA Cadarache, within the Institut de Biosciences and biotechnologies d'Aix-Marseille (BIAM), a Joint Research Unit CEA-CNRS-AMU (UMR 7265).

But how to reproduce natural light in these controlled laboratory environments?

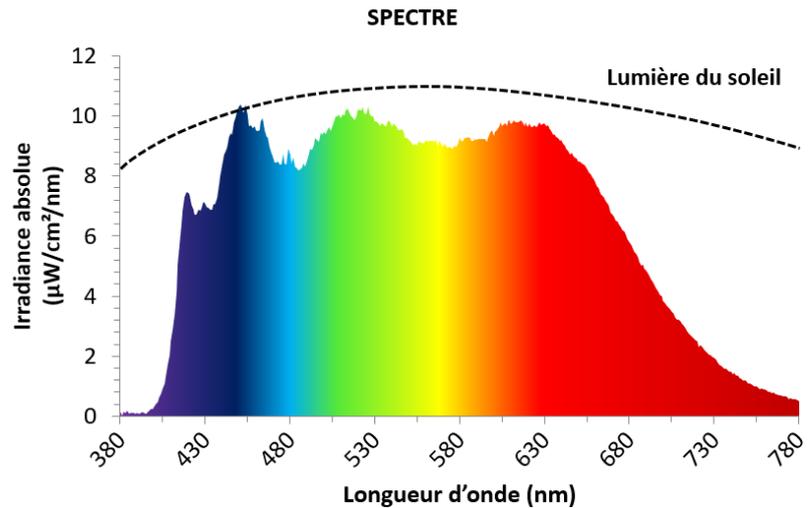
### THE PROPOSED INNOVATION

Colasse, specialized in the development of horticultural LED luminaires since 2008, has just integrated a new technology. It is an LED produced in Korea, called «Sunlike», whose spectrum is very similar to the one of natural sunlight, and which has been tested as part of a prior collaboration between the teams of Seoul Semiconductor and those of BIAM.

This innovation allows Colasse to assemble a new range of horticultural lighting fixtures that will be mainly dedicated to the research community where it is important to get as close as possible to environmental lighting conditions.

The advantage of this innovative product? It will no longer require to combine several LEDs to reproduce the natural light spectrum.

In France, at the end of the testing phase and as part of this collaboration, BIAM has just commissioned Colasse to equip its new phytotrons conceived by the company Froids et Mesures with these LEDs.



### OTHER PROJECTS

Colasse also works in collaboration with Aix-Marseille University on projects using «Sunlike» lighting.

And the product should continue to evolve: the Colasse firm is working internationally with its partners on a co-development to optimize the surface treatment of the projector glass. The objective is to reduce reflection, and therefore the loss of luminous flux. This innovation should see the light within a few months.



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