

EVOLVING SOLUTIONS
FOR HORTICULTURAL LIGHTING



vega
greenLED





With its almost 60 years' experience, Almeco is the world leader in supplying high reflective aluminium and finished aluminium reflectors. Almeco is the only Company in the world providing a 360-degree service to support its partners from the idea to mass production through specific finishes, lighting design and engineering.

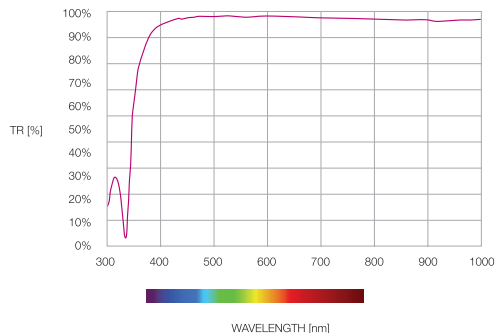
Almeco Group has a 10 years' experience in the horticultural field, proposing surfaces and reflectors specifically developed to maximize the effectiveness of the performance of the plants in the greenhouse.

With its Vega Green Led, Almeco carries on its research in the development of lighting solutions for the horticultural field.

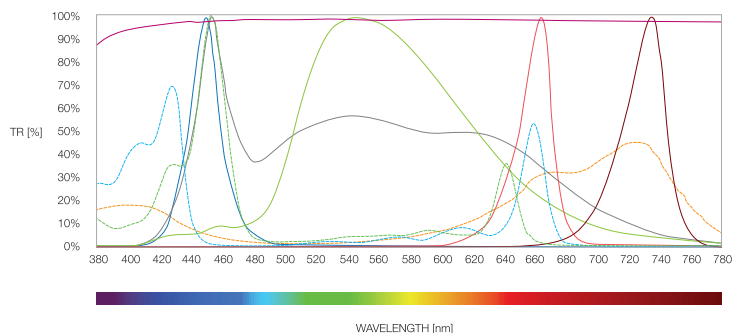
vega greenLED (VGL) is the new reflector material developed by Almeco to improve the efficiency of all greenhouse applications.

VGL is a modified version of the standard Vega98 material, now bringing the high efficiency of a silver-based coating to agricultural applications. Thanks to the highest uniformly reflectivity in the entire visible range (380-780 nm), this material is suitable for all LED packages and for many crops with various requirements of light wavelengths for photosynthesis. The stability of Vega Green LED has been improved in comparison to standard Vega98 to increase the range of designs where this material can be deployed.

VEGA GREEN LED SPECTRAL REFLECTANCE



SPECTRAL DATA GRAPH



— VGL98

— VGL98

— Chlorophyll-b

— Chlorophyll-a

— Phytochrome

— Deep Red

— Far Red

— Lime

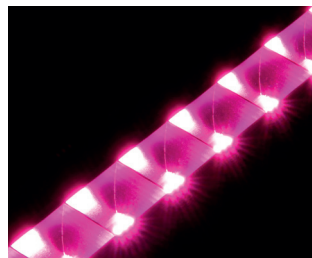
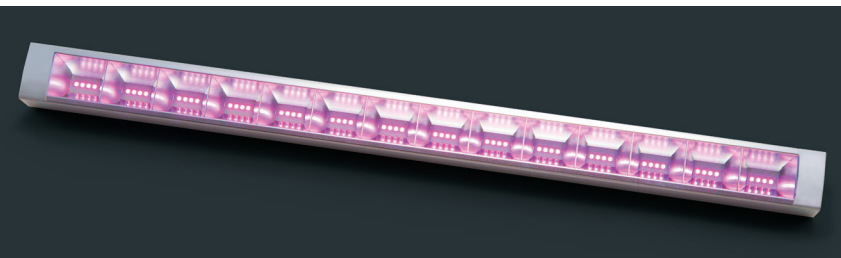
— Cool White

— Royal Blue

Chlorophyll (for photosynthesis)
Royal Blue

Phytochrome (for photoperiodism)
Far Red

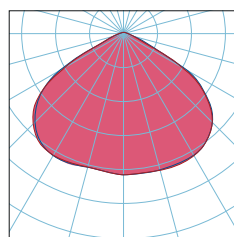
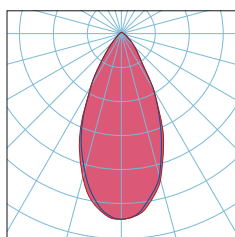
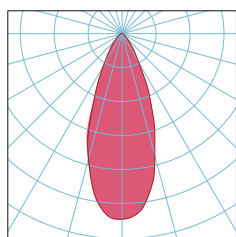
Full Spectrum (for accessory pigments)
Cool White - Lime



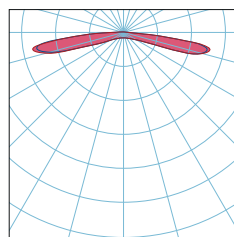
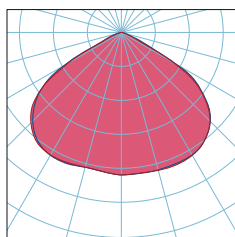
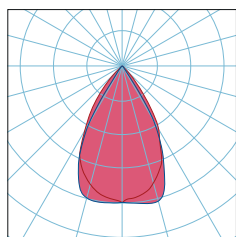
Suggested optimized beam

BEAM EXAMPLES

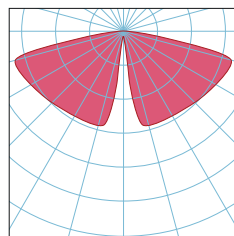
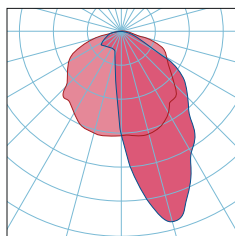
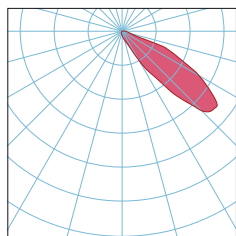
TOP LIGHTING
GREENHOUSES



TOP LIGHTING
VERTICAL FARMING



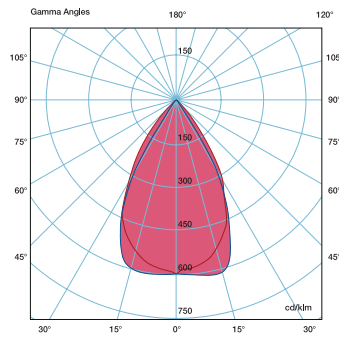
INTRA-CANOPY
LIGHTING



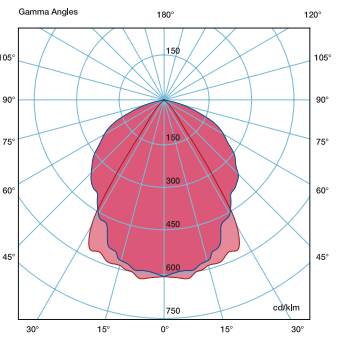
Horti-line 24W



HORTI-LINE 24W



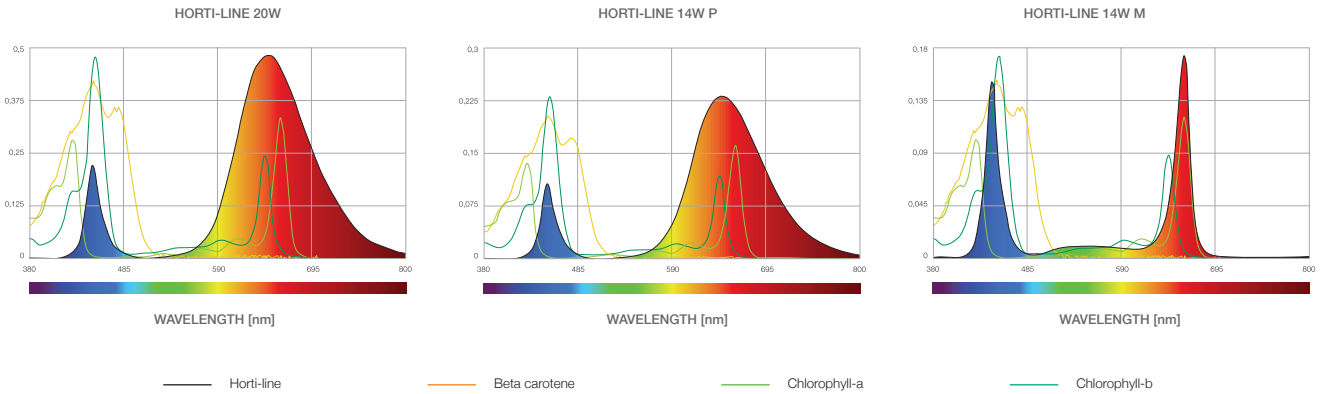
HORTI-LINE 14W



Horti-line

Product	Type of LED	Power (W)	Photosynthetic Photon Efficacy (μmol/J)	Dimension (mm)
HORTI-LINE 24W	Luxeon Sun Plus 35 Purple 12.5% Blue	24	2.01	580x45x28
HORTI-LINE 14W P	Luxeon Sun Plus 35 Purple 12.5% Blue	14	2.02	580x45x28
HORTI-LINE 14W M	Luxeon Sun Plus 35 16 - Deep Red 8 - Royal Blue 4 - Lime	10	1.91	580x45x28

SPECTRAL DISTRIBUTION



L119 – ENG – 06/2020



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