



# SunBrite™

## Agricultural and Horticultural LED Lightbars



### New Agricultural / Horticultural LED Lightbars Offer Optimal Plant Growth Stimulation

Lumex's exciting new LED lightbar technology can generate up to 93% more efficient light absorption, 50% space savings and 80% cost savings compared to some HID technologies. Due to its efficient design, the SunBrite Agricultural LED Lightbars can be up to 20% more compact in size and 20% more cost-effective than alternative agricultural LED technologies.

Academic research has demonstrated that optimal light exposure for chlorophyll absorption is obtained when plants are exposed to red (640 to 660 nm) and blue (450nm to 460nm) light sources. LEDs offer full spectral composition control, ensuring that nearly 100% of emitted light waves are finely tuned to match the absorption wavelengths of chlorophyll compared to HPS technology where only 7% of the light created is absorbed by plants. Because LEDs offer 93% more efficient light absorption than HPS technology, use of fertilizers and other plant food can be significantly reduced, generating cost savings and minimizing the use of chemicals.

#### Applications / Markets:

- Horticulture
- Greenhouse
- Gardening
- Planting & Seeding

**LUMEX®**  
Creating LED and LCD Solutions Together™

10/09/12

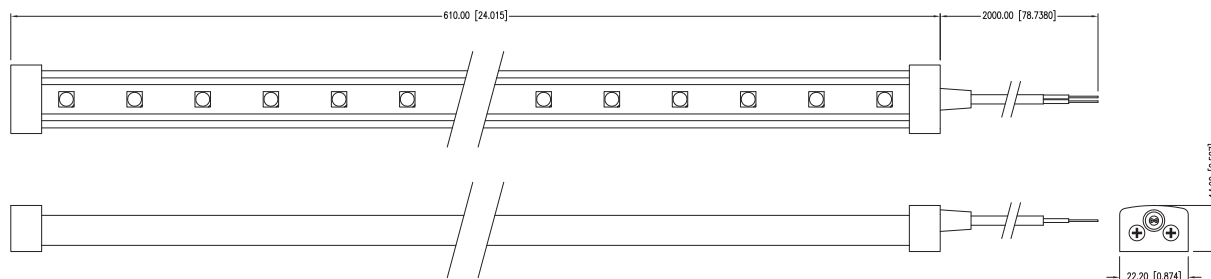
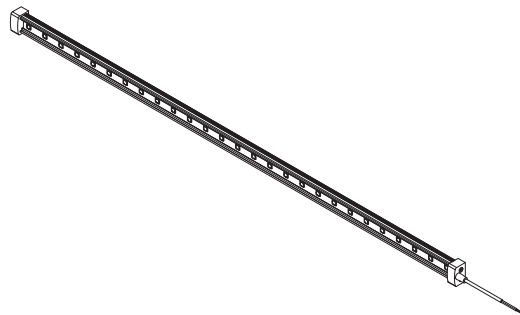
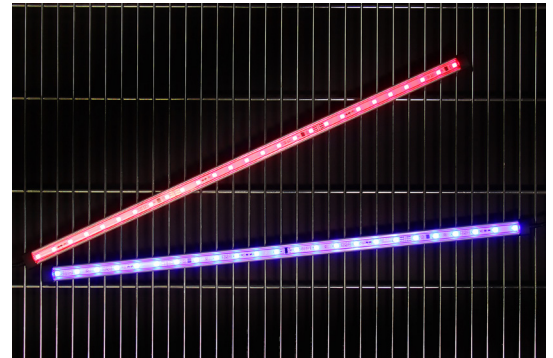
w w w . l u m e x . c o m

8 0 0 . 2 7 8 . 5 6 6 6

# SunBrite™ Agricultural / Horticultural LED Lightbars

## Features:

- Available in both red and blue wavelengths for diverse plant types and growing cycles
- Enhanced efficiency in the area of reduced power consumption
- Last up to 4x longer than HID technologies and reduce maintenance time requirements by up to 75%
- Can be easily incorporated into programmable, digitally controlled systems
- Operating temperatures range from -20°C to 45°C
- Mounting clips are available in vertical, 45°, or swivel formats
- Transformers are available for easy plug and play performance
- IP66 rated to protect against dust and water jets
- RoHS and CE compliant



## SunBrite™ Agricultural / Horticultural LED Lightbars

PN	Emitted Color	Chip Material	Peak Wavelength (nm)	Lens Type	Typ. Vf	Intensity Typ	Viewing Angle 2x Theta
SSP-LB24SR24K10	Red	AllInGap	655-665nm	Clear	24V DC	1.5 Watts	120 / 160
SSP-LB24USB24K10	BLUE	InGaN	458-462nm	Clear	24V DC	1.6 Watts	120 / 160

