



# COMBO SERIES

## HIGH-EFFICIENCY LED TOPLIGHT LAMPS.



### A SPECIFIC SPECTRUM FOR EVERY CROP

In collaboration with major Italian universities, we identify the right light spectra for every production need.



### HOME FARMING AUTOMATION AND COMPATIBILITY WITH 4.0

All our latest generation lamps are controllable with 4.0 home farming automation systems.



### COMPACT

Design specifically developed to reduce the weight of the lamp and the shadow effect on greenhouse crops.



### HIGH ENERGY EFFICIENCY

Maximum photosynthetically active light emission with reduced energy consumption.



### REPLACES HPS AND MH

Perfect for a facility upgrade, it requires no work-intensive major changes



### FULLY CONTROLLABLE

An adjustable light flux means that it is possible to adjust the amount of emitted light

#### THE PERFECT SWITCH: FROM HPS TO LED

**THE NEW C-LED COMBO LAMPS INCORPORATE AN EXTENDED WHITE SPECTRUM AND ENSURE OUTSTANDING CROP YIELDS, CONSUMING 40% LESS ELECTRICITY; SINCE THE LIGHT CAN BE DIMMED, THE TECHNOLOGY LETS USERS RECREATE SOLAR-LIKE DAWN-TO-DUSK CONDITIONS, MAXIMISING PRODUCTION.**

#### — The lamp with the highest number of LEDs on the market

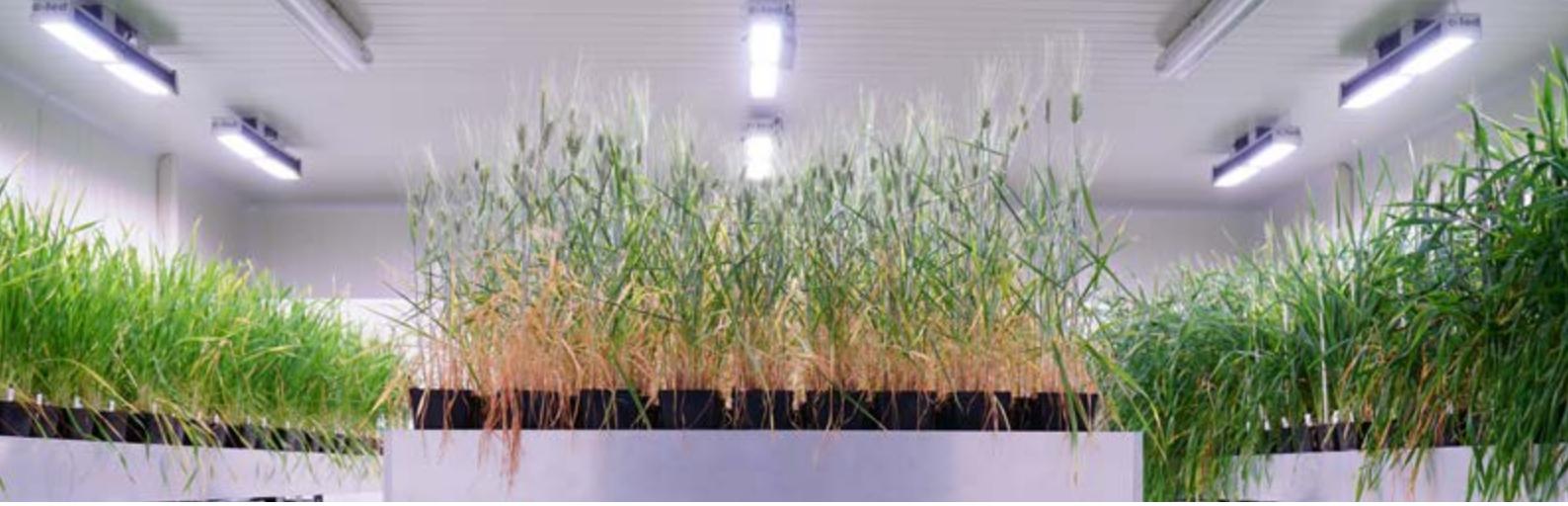
More than 2500 latest-generation maximum-efficiency LEDs. Full-spectrum performance aids in-greenhouse inspection as colours remain unaltered. Perfect for all high-efficiency applications.

#### — Extremely simple to install and manage

No major work or system modifications needed.

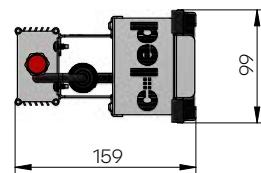
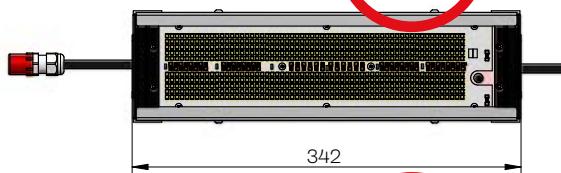
#### — Suitable for all cultivations

Solanaceae like tomatoes, cucurbitaceae like cucumbers, from strawberries to lettuce, flowers, hemp and any other plant you wish to grow.



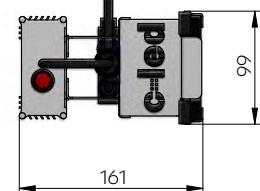
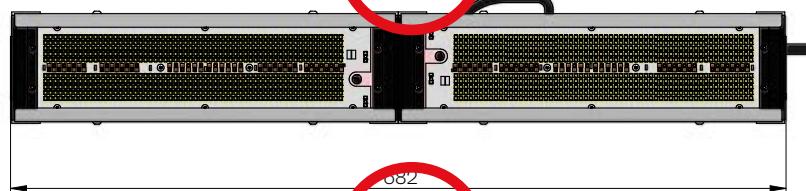
**COMBO 150W**

644  
LED



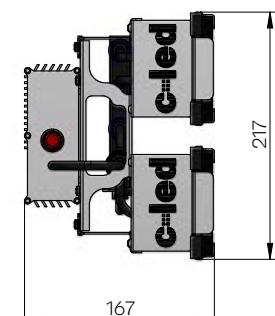
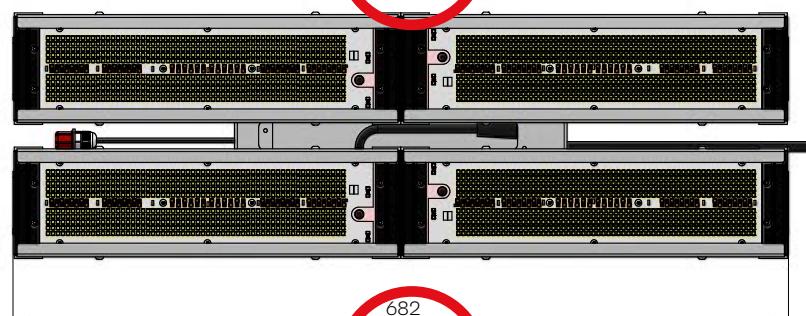
**COMBO 300W**

1288  
LED



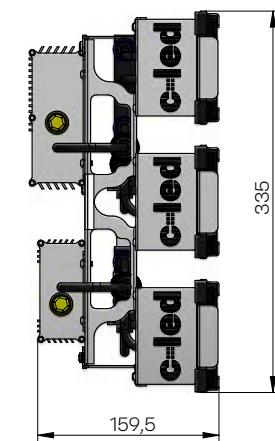
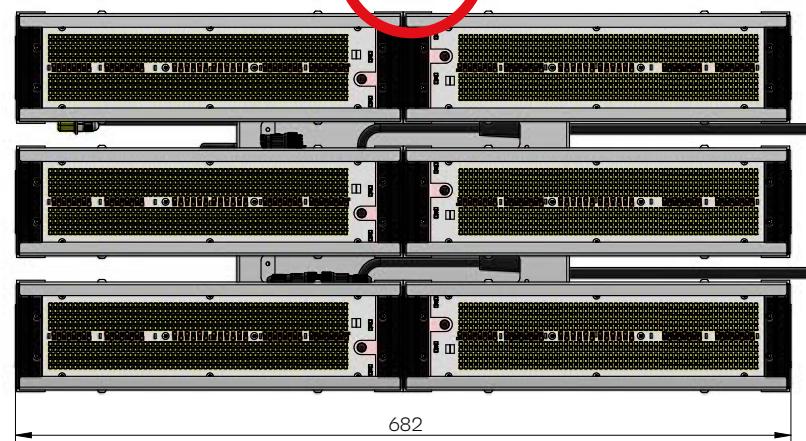
**COMBO 600W**

2576  
LED



**COMBO 900W**

3864  
LED



# COMBO SERIES LAMP

## STANDARD OUTPUT/HIGH OUTPUT

UP TO 3  $\mu$ mole/J

	COMBO 150W			COMBO 300W		
	Cool	Extended white	Hortis	Cool	Extended white	Hortis
<b>ELECTRICAL CHARACTERISTICS</b>						
Power supply (V ac)		200-480			200-480	
Frequency (Hz)		50/60			50/60	
Power consumption (W)	120	150	135	240	300	270
<b>Lighting technology characteristics</b>						
PPF ( $\mu$ mole/J T <sub>led</sub> = 25°C)	310	420	443	620	840	886
Efficiency ( $\mu$ mole/J)	2.6	2.8	3.3	2.6	2.8	3.3
LED average life	L70 > 50,000 hours / L90 > 25,000 hours			L70 > 50,000 hours / L90 > 25,000 hours		
Dimmability	yes			yes		
<b>MECHANICAL CHARACTERISTICS</b>						
Working environment temperature (°C)	-10/+40			-10/+40		
Protection class	IP66			IP66		
Dimensions (mm)	339x98x160			683x98x162		
Weight (kg)	2.75			5.3		
Certifications	CE / UL / RoHS Compliant			CE / UL / RoHS Compliant		

	COMBO 600W			COMBO 900W		
	Cool	Extended white	Hortis	Cool	Extended white	Hortis
<b>ELECTRICAL CHARACTERISTICS</b>						
Power supply (V ac)	200-480			200-480		
Frequency (Hz)	50/60			50/60		
Power consumption (W)	480	600	540	720	900	810
<b>Lighting technology characteristics</b>						
PPF ( $\mu$ mole/J T <sub>led</sub> = 25°C)	1240	1680	1772	1860	2520	2658
Efficiency ( $\mu$ mole/J)	2.6	2.8	3.3	2.6	2.8	3.3
LED average life	L70 > 50,000 hours / L90 > 25,000 hours			L70 > 50,000 hours / L90 > 25,000 hours		
Dimmability	yes			yes		
<b>MECHANICAL CHARACTERISTICS</b>						
Working environment temperature (°C)	-10/+40			-10/+40		
Protection class	IP66			IP66		
Dimensions (mm)	683x219x167.5			1017x219x173		
Weight (kg)	10			15.3		
Certifications	CE / UL / RoHS Compliant			CE / UL / RoHS Compliant		



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## AVAILABLE SPECTRA

### AVAILABLE SPECTRA



#### EXTENDED WHITE



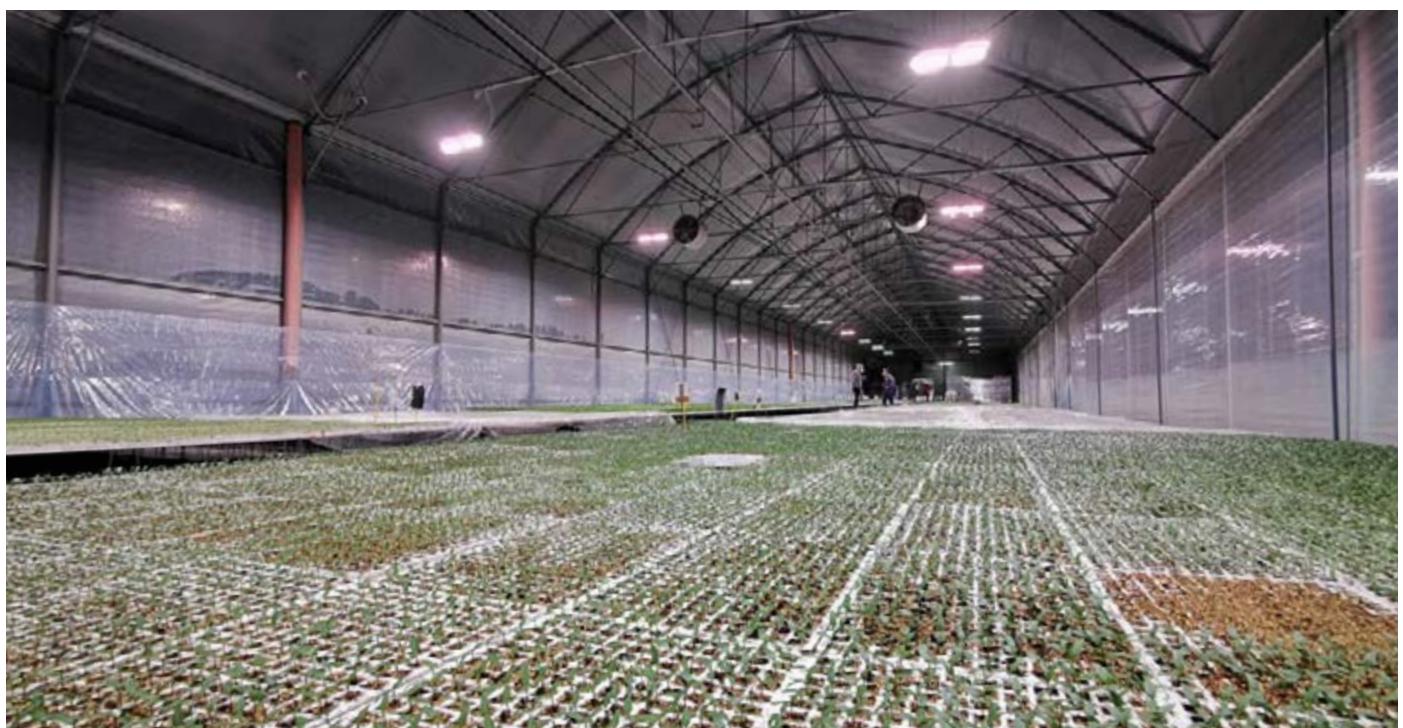
#### COOL WHITE



#### HORTIS



	fruit vegetables
	leafy vegetables
	small fruits
	cannabis
	greenhouse growing
	indoor growing
	flowers



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