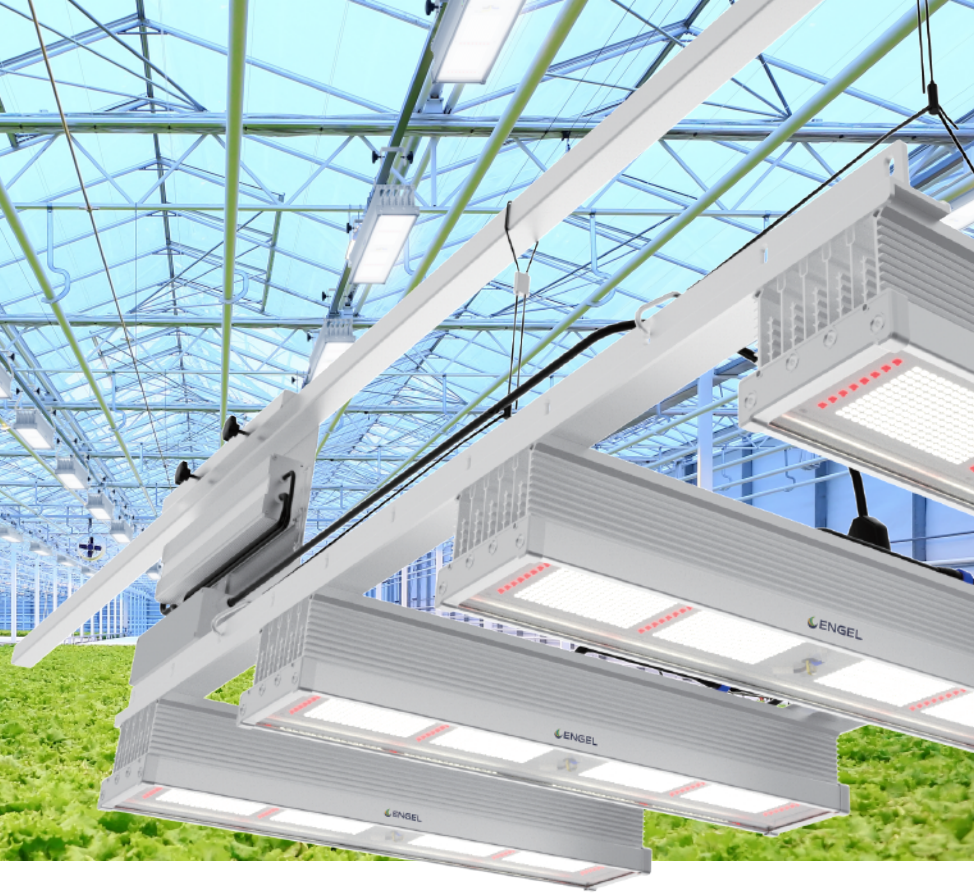


Experience the premium quality and the most advanced grow lighting fixture on the market

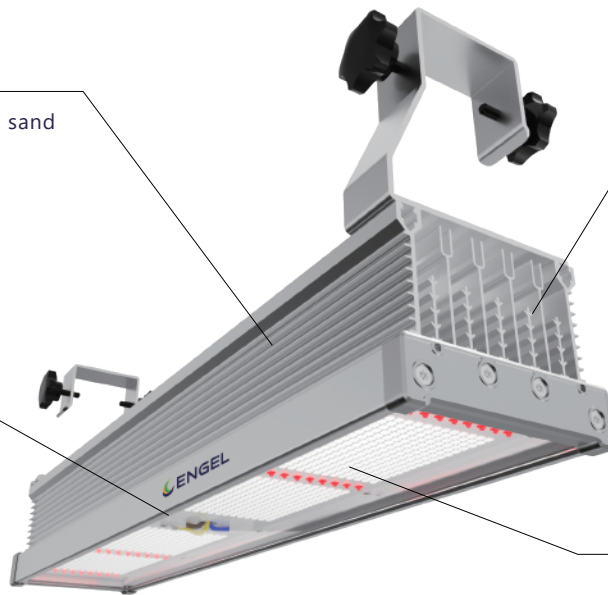


### IP67

- 100% protected against dust and sand
- Not affected by dust for getting sprayed by water
- Extended lifespan

### Flexible and minimal shading

- Robust form
- Centralized software
- Simplified installation



### Advanced cooling system technology

- Cooling area 1.3 m<sup>2</sup>
- Solutions to thermal issues
- Improved performance

### High efficacy Würth LEDs

- Low thermal resistance
- Individually adjustable color spectrum

## Optimus fixture modules

Model	Watt	Dimensions	Weight	Thermal Management	Max Ambient Temperature	Life Time	Power Factor	Harmonic Distortion	Beam Angle	Control	Warranty	Certifications
Optimus L4	0-650 W	1130*302*177mm	17.52Kg	Passively convection cooled	-20/+50 C	@25 C L90>43.000h	>0.9	<10% THD	120°	0-10V	3 years*	IP67, EMC CE, RoHS
Optimus S4	0-650 W	1080*560*123mm	16.82Kg	Passively convection cooled	-20/+50 C	@25 C L90>43.000h	>0.9	<10% THD	120°	0-10V	3 years*	IP67, EMC CE, RoHS

\* 3 years limited warranty (5 years optionally available)

**Engel Optimus** - have been developed for customized light solutions for any growing environment with high efficacy Würth LEDs. Designed in Germany and optimized for high light crops.



# Optimus Fixture Modules



## INSTALLATION SPECIFICATIONS

	Optimus L4	Optimus S4
Mounting	Metal hook/wire rope suspending	Wire rope suspending
Canopy Coverage*	Refer to PPFD (umol/m <sup>2</sup> /s) strength to customize the best installation height	
Cable Length	1.8m male and female quick plug cable	
Plug	Open-ended	

## Electrical Specifications

	Voltage	Amperage	Frequency	Inrush Current
Optimus L4/S4	100-277 VAC	2.95A	50/60 Hz	12A

\*Note that light intensity is directly related to canopy coverage and hanging height.



## Maximize Crop Yield & Quality with TerraSmartPAR



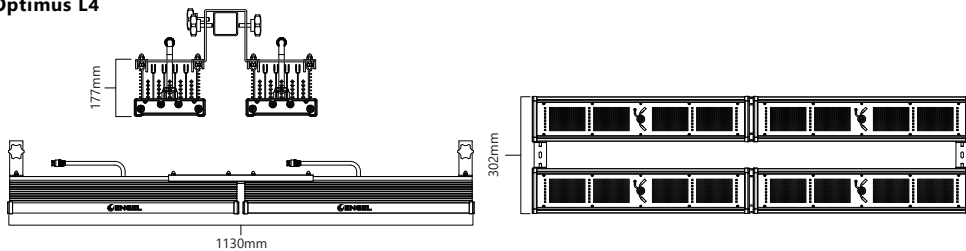
### TerraSmartPARS Wireless Control System

- With Engel TerraSmartPAR the lighting fixtures can be controlled from any smartphone, tablet or computer.
- Connecting light Sensors to adjust the lighting to the greenhouse lighting environment.
- Our researchers, cooperate scientists, and industry experts provide you customized, collaborative services to maximize crop yield, improve quality, root mass, flavor, nutrition, color and so on.
- Optimize your energy-usage while ensuring ideal lighting.

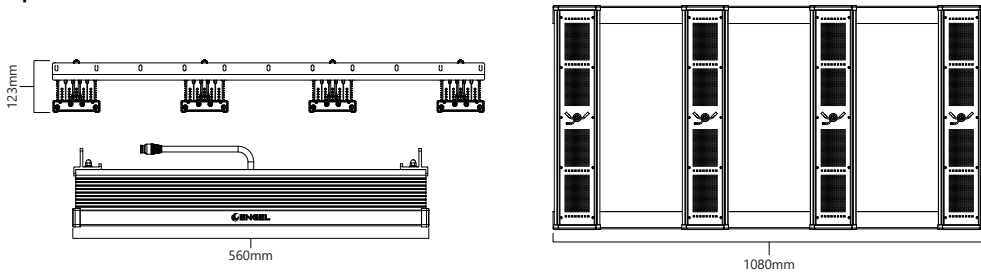


## FIXTURE DIMENSIONS

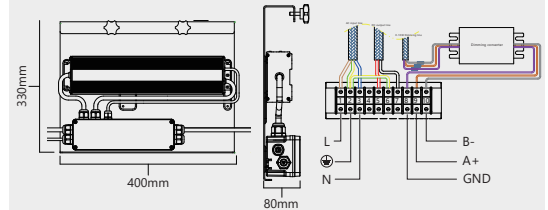
### Optimus L4



### Optimus S4

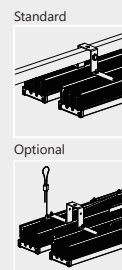


## POWER SUPPLY

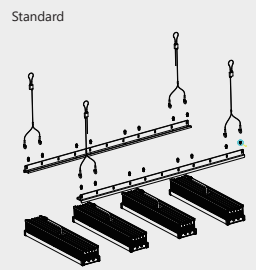


## MOUNTING OPTIONS

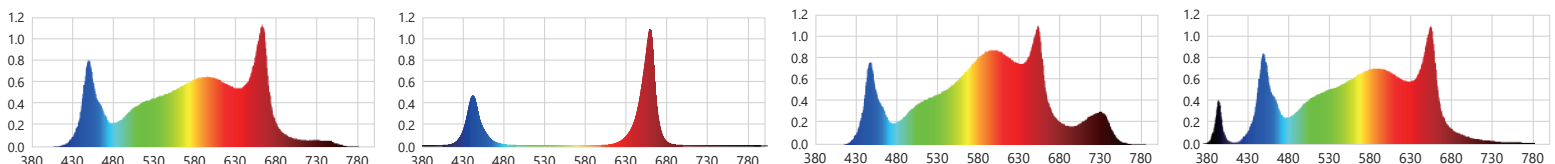
### Optimus L4



### Optimus S4



## SPECTRAL VARIANTS



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