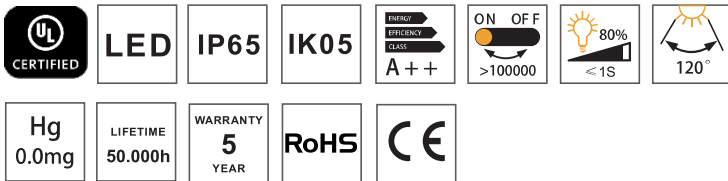


## GROWVER IP65 Vertical Farming



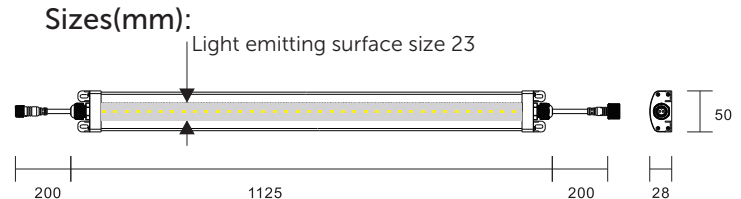
### FEATURES

- Made in the USA
- Housing: Polycarbonate, impact-resistant, IK05
- Lamp cover: Polycarbonate with integrated LED unit
- Seals: Age-resistant silicone seals
- Chip: LUMIEDS high power LED, integrated LED converter
- Installation: Suitable for ceilings, wall and pendant mounting
- Application: Vertical Farm, Greenhouse Supplemental

### WARRANTY & LISTINGS

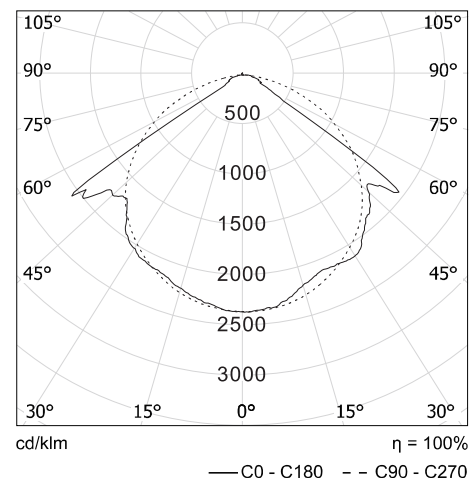
- 5-year warranty

### DIMENSIONS



### LIGHT DISTRIBUTION

50W Universal Spectrum



### ORDERING INFORMATION

Example: GROWVER-50-U-ST

Series	Wattage	Spectrum	Voltage
GROWVER	50W 30W 18W	U   Universal	ST   100-277V

## SPECIFICATIONS

Model	GROWVER 50 U ST Nx	GROWVER 30 U ST Nx	GROWVER 18 U ST Nx
Input Voltage	AC100-277V 50/60Hz	AC100-277V 50/60Hz	AC100-277V 50/60Hz
Input Current	0.42A/120Vac	0.30A/120Vac	0.24A/120Vac
Power	50W	30W	18W
LED Type	LUMILEDS 2835R	LUMILEDS 2835R	LUMILEDS 2835R
PPE	2.68 PPF/J	2.72 PPF/J	2.89 PPF/J
PPFD(H=30CM)	150 $\mu\text{mol}/(\text{m}^2 \cdot \text{s})$	90 $\mu\text{mol}/(\text{m}^2 \cdot \text{s})$	66 $\mu\text{mol}/(\text{m}^2 \cdot \text{s})$
PPFD(H=60CM)	80 $\mu\text{mol}/(\text{m}^2 \cdot \text{s})$	48 $\mu\text{mol}/(\text{m}^2 \cdot \text{s})$	35 $\mu\text{mol}/(\text{m}^2 \cdot \text{s})$
CRI	95	95	95
Beam Angle	110° x 115°	110° x 115°	110° x 115°
Spectrum	Universal Daylight Analog		
Operation Temp & Humidity	-20 to 45°C, 20 to 95%RH No condensation	-20 to 45°C, 20 to 95%RH No condensation	-20 to 45°C, 20 to 95%RH No condensation
Storage Temp & Humidity	-20 - 85°C, 10 - 95%RH No condensation	-20 - 85°C, 10 - 95%RH No condensation	-20 - 85°C, 10 - 95%RH No condensation

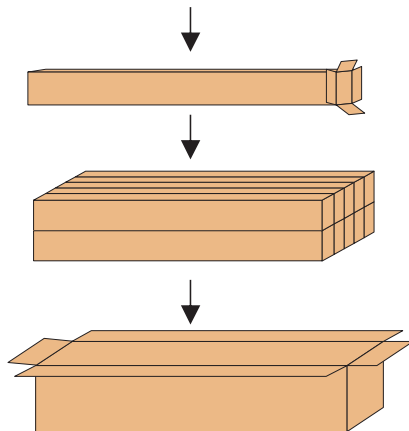
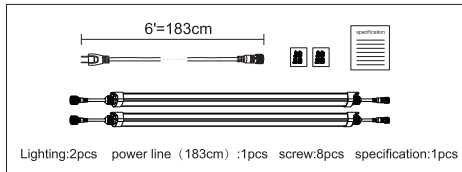
## GROW TIPS

- The rate of photosynthesis and transpiration are directly affected by temperature, humidity, and air flow
- The perfect temperature and humidity for your plants are found between 75-85°F and 50%-70% humidity
- With plenty of airflow to replenish CO<sub>2</sub>
- The suitable PH is 6-6.5
- you may add more calcium and magnesium than normally needed



## PACKAGING INFORMATION

Packing List



2FT Packing Details

Net Weight (g)	303
Inside the box number (pcs)	10
Packing Quantity (pcs)	20
Package Size (mm)	610*85*60
Carton size (mm)	630*335*190

4FT Packing Details

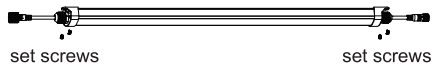
Net Weight (g)	608
Inside the box number (pcs)	10
Packing Quantity (pcs)	20
Package Size (mm)	1160*85*60
Carton size (mm)	1180*335*190

## INSTALLATION STEPS

Step1: Take out the lamp from the package and unscrew the anti-static cap at the end of the lamp;



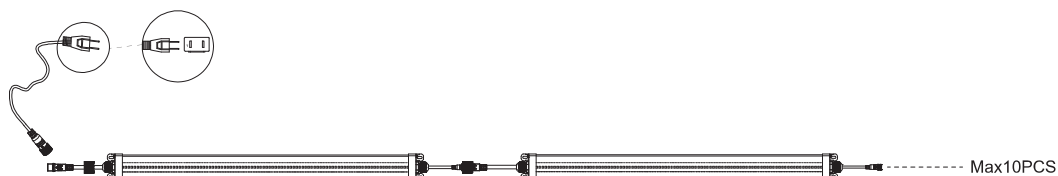
Step2: Select the appropriate distance, install and fix the lamps;



Step3: connect the male and female ends of the lamp in sequence



Step4: Take out the power cord and connect it to the male end of the first lamp. Power on after making sure safety.



## SAFETY INSTRUCTIONS

Please read the manual thoroughly before attempting to install or operate LED Grow Light and keep it for future reference. Connect the light only to the power sources of the appropriate voltage using the plug received. Protect power cables from being pinched or damaged, especially where the power cable enters the power outlet and the unit.

If the provided plug does not fit your socket, please contact us for help by email immediately.

Please do not replace the power cord or plug by yourself, otherwise we are not responsible for man-made damages.

The system should only be cleaned as directed in the manual. You should seek service by qualified service personnel if any of the following occur:

1. The power-supply cord or the plug has been damaged
2. The unit has been exposed to rain
3. The unit exhibits a marked change in performance

## GENERAL CARE

- This LED Grow light is passively cooled with zero moving components. It is designed for harsh environments and years of maintenance-free performance. Some basic care will keep your lights working at peak performance cycle-after-cycle.
- Natural convection removes heat away from the heat sink. In order to properly cool itself, at least one inch of space is required between the fixture and the roof of your grow area. Failure to do so may shorten the fixture's lifespan.
- To achieve the optimal lifespan and performance of your fixtures, routinely check for and remove excess dust, debris, and mineral build up from heat sink and LED array. Cleaning should always be done with the fixture or using low-pressure compressed air with unplugged from its power source.

## CAUTION

- In summer or other hot environment, please use a cooling fan to keep a suitable temperature for your plants.

## WARNING

- Do NOT touch while in operation
- To prevent eye damage, avoid looking directly at the LEDs
- To reduce the risk of overheating or fire, always allow for adequate ventilation of fixtures and power supply



- The product must be grounded
- This product must be installed and maintained by certified electrician
- Consult with the manufacturer before maintenance
- Turn OFF the power before installation and maintenance
- Make sure the products are securely installed
- The housing might become hot after operation
- Primary use auxiliary lamp used to promote plant growth and maturity
- Make sure the construction is strong enough to support the products
- The external flexible cable or cord of this luminaire cannot be replaced; if the cord is damaged, the luminaire shall be destroyed

