





# TODAY'S CHALLENGE

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Plants need light to stay viable. Yet there are more and more spaces where plants are being placed where there is insufficient light available. Plants make a nice ambience, but they also purify the air, increase concentration and contribute to an improved acoustic.

Regular lighting used in office spaces does not have the right color balance in its spectrum to grow plants. Therefore we developed visual white grow LED lighting that contains the perfect spectrum to allow plants to grow and look beautiful without the necessity of natural daylight.















## OUR SOLUTIONS

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We developed different grow lights for many work and lifestyle situations, such as indoor plants, green walls, urban jungles and more. Our sleek designs fit in almost any environment. We offer lights that fit in both existing track rail installations and other available standard mounting methods. It is even possible to integrate our products into any kind of furniture on request.

Are you not sure which product fits your needs? Let us do a professional measurement free of obligations and advise you on your options.

# INNOVATIVE DESIGN PAR LED BULB

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Discover the PUERJIA bulb, where innovative design meets optimal plant lighting. Its unique root-shaped heat sink isn't just visually distinct; it symbolizes our commitment to blending natural aesthetics with our indoor plant lights. Just screw it into any standard fixture and watch your indoor garden thrive under this LED plant light, designed to give your plants the life-enhancing illumination they deserve.

Puerjia are compatible with a dimmable wall switch, AC adapter, smart plug, and most other dimmable technology. Dimmer not included.

Lampstand and accessories not included





## Description

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## Specifications

### Total consumption Color temperature Weight Dimmable

10 Watts 3000k 1lbs Yes

20 Watts 3000k 1lbs Yes

30 Watts 3000k 1lbs Yes

### Highlights

7-year lifespan (running 12hrs/day)

Dimmable

Solid aluminum body

## Grow Guide

Narrow (36°) Beam Angle – Recommended hanging height of 24" – 84" above your plants. Great for plants farther than 3ft away from the light (e.g., recessed can lighting, pendant style lighting applications)

Wide (60°) Beam Angle – Recommended hanging height of 12" – 48" above your plants. Great for plants closer than 3ft away from the light (e.g., lamp fixtures, desktop lighting applications)

For the full Vita grow guide see the "Grow Guide" tab below.





## Best Grow light for vertical farming

### Vertical Cannabis Cultivation

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Specifically for vertical marijuana cultivation, it is recommended to use bar-style plant lights. These lights are designed to provide uniform coverage and intensity.

#### Cucumber and Tomato Fruiting Veggies

A combination of top lighting and inter-lighting is suggested for fruiting vegetables like cucumber and tomato. The top lighting provides overall coverage, while the inter-lighting involves placing lights within the crop canopy to ensure that even the lower parts of the plants receive sufficient light.



#### Leafy Greens in Vertical Farms

Tube lights are recommended if you are growing leafy greens on a vertical farm, such as lettuce or kale. The light requirements of leafy vegetables are low compared to fruiting vegetables.



## Clip Mounting (Fixed Installation)

Clip mounting uses plastic or metal brackets to fix the LED grow tube directly onto the crossbars of vertical grow racks. This is the most common method in vertical farming setups.

### Features:

Stable and secure, ideal for long-term lighting on multi-layer systems

Typically uses G13 socket connections with easy wiring

Space-saving design with close canopy lighting

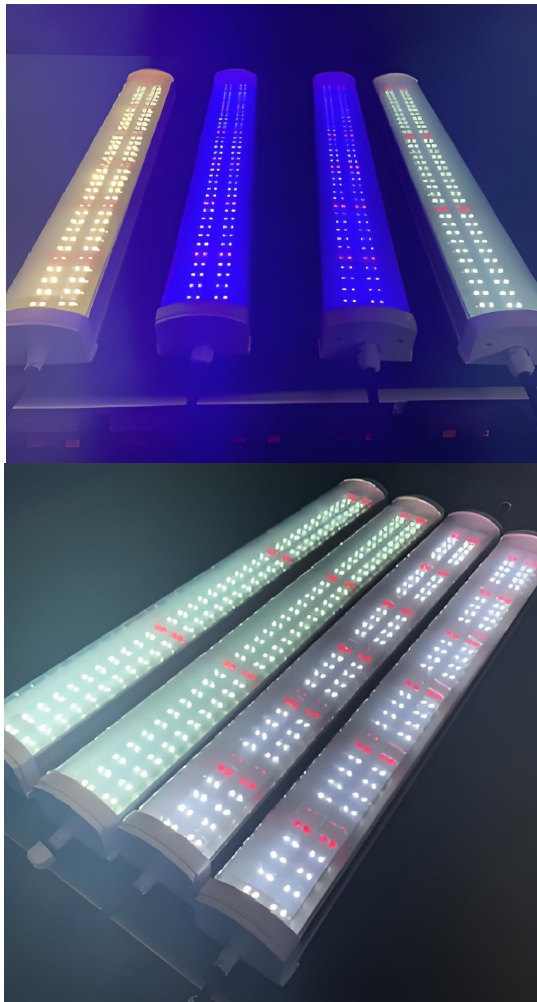
Fixed height — suitable for short-cycle crops with minimal light distance adjustment (e.g., leafy greens, seedlings)







- \* Perfect fit for tight, multi-tier vertical systems — maximize planting area without compromising lighting.
- \* Custom plant growth spectrums to accelerate photosynthesis and crop development.
- \* Up to 50,000 hours lifespan, 50% energy savings compared to fluorescent lights.



Item No	Material	Color	Specification						Body size(mm)
			Power	distance CM	PPFD	illuminance	Beam angle	Input	
T20 -0.6M	aluminum +PVC	white	40w	10cm	864	140lm	120°	175-265V	600
				20cm	379	140lm	120°		600
				30cm	209	140lm	120°		600
				40cm	161	140lm	120°		600
				50cm	112	140lm	120°		600
T20 -0.9M	aluminum +PVC	white	60w	10cm	830	140lm	120°	175-265V	900
				20cm	393	140lm	120°		900
				30cm	276	140lm	120°		900
				40cm	187	140lm	120°		900
				50cm	134	140lm	120°		900
T20-1.2m	aluminum +PVC	white	80w	20cm	375	140lm	120°	175-265V	1200
				30cm	242	140lm	120°		1200
				40cm	186	140lm	120°		1200
				50cm	148	140lm	120°		1200
				60cm	123	140lm	120°		1200
				70cm	108	140lm	120°		1200





Whether outfitting a vertical farm, greenhouse, or research facility or looking for a reliable supplemental light for side or intra-canopy lighting, our T8 & T12 grow light tubes deliver the intensity and efficiency serious growers need.

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**\*Scalable Solutions**

Easily connect multiple grow light tubes together for seamless expansion.

**\*Uniform Light**

Uniform output means predictable, healthy growth from seedling to harvest.

**\*IP65 Waterproof**

The lamps keep shining in a high humidity growing environment.



## LED Tube grow lights

### T8 & T12 LED GROW LIGHT

Tube Light Type: T8 & T12

Full Spectrum: 3000K+5000K, Blue+Red, UV+IR

PPF: 2.2  $\mu\text{mol/J}$

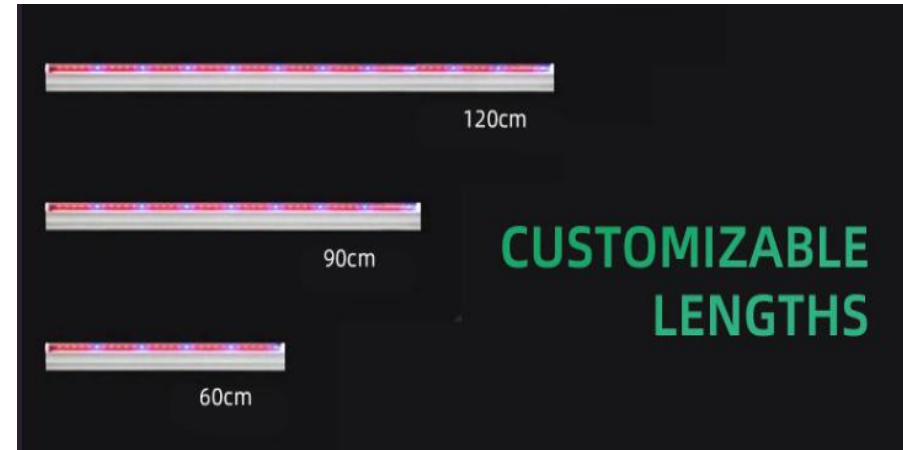
Input: AC 100-240V / 50-60Hz

Power: 9W / 18W / 30W / 36W / 40W / 56W

Length: 60cm / 90cm / 120cm

Plug & Play, Waterproof

Customization: length, appearance, wattage, spectrum, logo printing, etc



## Multiple Bead Arrangements

\*These single-row LED SMDs, with 0.6m–1.2m lengths and a 9–18W low-power design, are for stable, efficient plant growth.

\*Double LED rows with higher light density and PPFD, boosting photosynthesis for higher yields.

\*V-shaped dual rows with a 160° beam angle, ideal for vertical farms and wide planting setups.

\*Multiple bead arrangements tell us what you need to customize



T8-Single Row Light Beads



T8-Dual Row Light Beads



V-shaped Dual Row Light Beads



## MINI LED DESIGN 100W & 200W

PUERJIA 200W comes equipped with our proven Veg specific spectrum, promoting vegetative growth while reducing internodal spacing. This makes for more uniform colas and increased flower density later in the bloom cycle. It's a solid-built professional lighting fixture design suitable for indoor farm, one-layer with horizontal benches or low ceiling, multi-layer vertical growing system. Its modular design allows operators to utilize this fixture in 2x4 or 4x4 settings, making it the perfect fit for racks with clones or vegetative plants.

### Product Details:

Footprint: 2ft x 2ft

luxions White + Osram Red chips

PPE: 2.2-2.4  $\mu\text{mol}/\text{j}$  PPF: 576  $\mu\text{mol}/\text{s}$

Driver: Inventronics driver

Bar QTY: 4pcs

Full Spectrum red + white (with UV +IR)

Input voltage: 100-277V 50Hz/60Hz

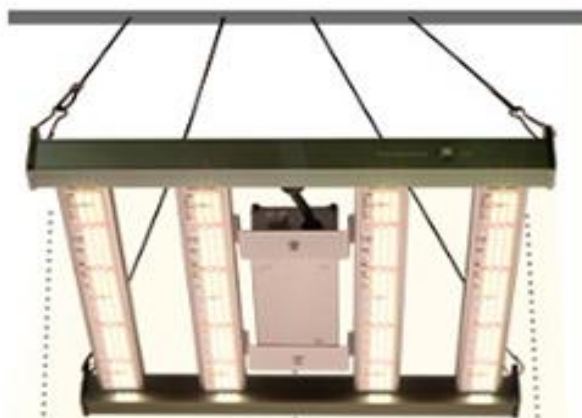
Certificate: CE RoHS ETL cETL

5 Years Warranty

Application:

indoor plants / horticulture / vegetable





24-30in



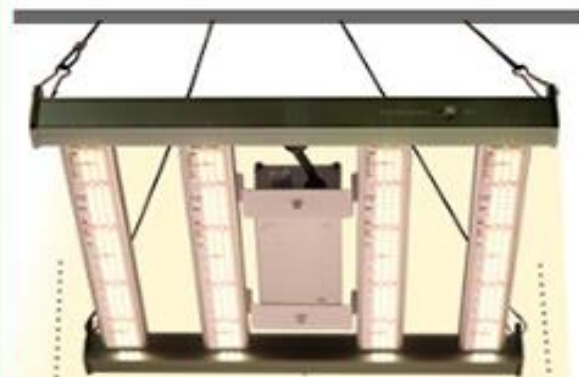
On/Off Time  
18/6 or 20/4



18-24in



On/Off Time  
18/6 or 20/4



12-20in



On/Off Time  
12/12



## Tailored Solutions for Commercial Cultivation & Home Cultivation

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Under Canopy Lighting aims to ensure that every leaf receives abundant and well-balanced light

- \*Enhances light efficiency by illuminating shaded leaves under the canopy.
- \*Increases productivity by utilizing unused areas, adding 200-500  $\mu\text{mol m}^{-2}\text{s}^{-1}$ .
- \*Boosts the development of sub-canopy flowers, which are typically underdeveloped.
- \*Effectively doubles canopy productivity, maximizing growth and yields.



## Under Canopy LED Grow Light

Designed for greenhouses & commercial operations  
Introducing this under-canopy grow light, a solution addressing the hindered development of lower buds and leaves on plants grown on benches or racks, where limited sunlight reaches beneath the top canopy.

PPFD 280 $\mu$ mol/s

Beam Angle 150°

Aluminum housing

Independent Use / Daisy Chain

Stable Trapezoidal Legs (Telescopic legs optional)



## 2DY2D-8P 800W

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The lighting fixture with 800W Dimmable Foldable LED Grow Lights series are full spectrum grow light fixtures with Luxeons + Osram red light. The best led grow lights fixtures can be used in many applications such as cannabis cultivation, vegetables, greens, and so on. The slim design grow light fixture is foldable up to 180 degrees, making it small, compact, and easy to install.

### Product Details:

Footprint: 4ft\*4ft/ 5ft\*5ft/ 6ft\*6ft  
luxcons White + Osram Red chips  
PPE: 2.8-3.19  $\mu\text{mol}/\text{j}$  PPF: 2552 $\mu\text{mol}/\text{s}$   
Driver: Inventronics driver  
Bar QTY: 8pcs  
Full Spectrum red + white  
Input voltage: 100-277V 50Hz/60Hz  
Certificate: CE RoHS ETL cETL  
5 Years Warranty

Application: indoor plants / horticulture / vegetable





## Description

- \* 2DY2D-8 800w Foldable Dimmable LED Grow Lights series are full spectrum grow light fixtures with Luxeons + red light.
- \* 2DY2D-8 800W input voltage is 100-277VAC, which is available for 110VAC , 120VAC 220VAC and 240VAC;
- \* The plant light can provide more than 60% higher in PPFD compared with HPS lamps with lower temperature, and the grow lights increase the production and save more than 50% power consumption.
- \* The best led grow lights fixtures can be used in many applications such as cannabis cultivation, vegetables, greens, and so on. The slim design grow light fixture is foldable up to 180 degrees, making it small, compact, and easy to install.



## BZY2D-6P 600W

When choosing a best commercial led grow lights, you will need to focus high Photon Photosynthesis Flux (PPF) light output, high Photon Photosynthesis Efficacy (PPE).

PUERJIA spider led grow light Design with super bright Samsung LEDs; Super High PAR output, ideal for medical plant growth; All aluminum body, well heat dissipation, long lifespan, no corrosionModule design, Scientific structure, maintain in minutes; Adjustable Lighting distance between of each LED bar; IP65 High..

### Product Details:

Footprint: 4ft\*4ft/ 5ft\*5ft/ 6ft\*6ft  
luxurons White + Osram Red chips  
PPE: 2.8-3.19  $\mu\text{mol}/\text{j}$  PPF: 1740 $\mu\text{mol}/\text{s}$   
Driver: Inventronics driver  
Bar QTY: 6pcs  
Full Spectrum red + white  
Input voltage: 100-277V 50Hz/60Hz  
Certificate: CE RoHS ETL cETL  
5 Years Warranty

### Application:

indoor plants / horticulture / vegetable

## FEATURES & BENEFITS

Will bring yo amazing profits

PUERJIA series not only has high energy efficiency and complete natural spectrum from 400nm to 700nm. with a big board size at 44" x 44", it's perfect for 5' x 5' vegetative coverage and 6'x 6' flowering coverage, your planting efficiency and the yield can reach 2.7-3.0g/w

Vegetative Coverage at 28"



6.0x6.0 ft

Flowering Coverage at 24"



5.0x5.0 ft







**PUERJIA** series LED grow light, providing more energy while consuming less electricity, has the same performance as top brand like GVT in the field of professional planting. Balanced and stable light distribution and high-efficiency light output bring amazing output of 2.7g/w, creating more ideal light level for professional growers.

Utilize the latest in high-yielding LEDs technology today-2835 type chips which are better than Samsung LM301B diodes. PUERJIA LED grow light 600W has 1908 LEDs that allows a more even distribution while avoiding overdrive. With an efficiency of up to 3.19  $\mu\text{mol}/\text{j}$ , every corner of the plant grows the best results. It has Amazing PPF 1914  $\mu\text{mol}/\text{s}$ , providing strong light output and uniform penetration of the canopy for high yields.

## **FULL SPECTRUM 3000K + 5000K+ 660nm PLANT RED LIGHT**

In a special combination of spectra, the PUERJIA series 600w not only provides the full spectrum for the entire growth cycle of the plant but also adds more red light for optimal plant yield for a better harvest.

## **WIDER FOOTPRINT**

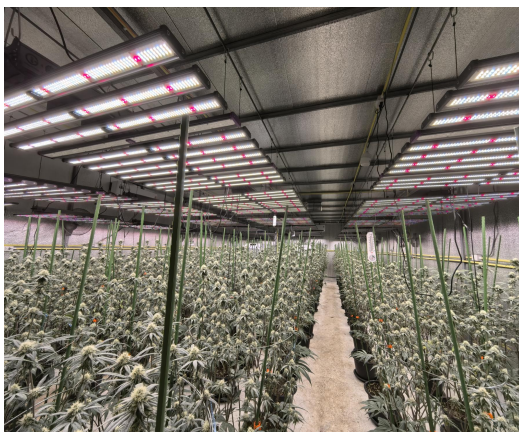
The main advantage of PUERJIA series is the wide footprint with a big board size at 44" x 44". It can magnificently improve the light coverage and your planting efficiency, so it's perfect for 6'x6' vegetative coverage and 5'x5' flowering coverage. The larger area is also better at heat dissipation, which helps keep the working temperature under 52°C and ensures much longer service life.

## **FAST COOLING SYSTEM**

Each lamp strip is equipped with an aluminum shell and cooling groove, good cooling means lower ambient heat, thus avoiding damage to plants. Generates less heat and reduces cooling costs by 50% due to the large area of the aluminum heat sink and slim passively cooled bars!

## **VARIABLE DIMMER**

PUERJIA series LED grow light with built-in dimming knob provides growers with greater flexibility. The dimming knob can adjust 10-100% of brightness to meet the different plant growth stages, making dimming more convenient and saving electricity costs. In addition, the light fixture can be connected in series through RJ14 network cable for unified control by using an external smart controller, which is the best choice for large-area growers, and can connect up to 100 lamps. (Smart controllers need to be purchased separately)



# Cannabis-Centric Indoor Spectrum /1000W (240W/320W/480W/600-720W/800W/1000W/1200W)

## Spectrum

The light spectrum is another thing that should be considered when purchasing a LED grow light. The spectrum is essentially the colors of light that are emitted from the grow light. Different colors are made by photons at certain energy levels and are broken down into nm. The differences in the nm of a photon, or its color, change its potential effectiveness to drive photosynthesis. When growing cannabis, the plant uses more blue light when in the vegetation stage and then switches to use more red light when in the flowering stage. Although blue light and red light are needed most, cannabis plants also need other colors in the PAR range (400-700nm). UV (ultraviolet) light and IR (infrared radiation) light are also needed – in smaller amounts. PUERJIA lighting led grow lights are full spectrum grow lights that cover all the wavelengths to meet different stages of the plants.

## PPFD

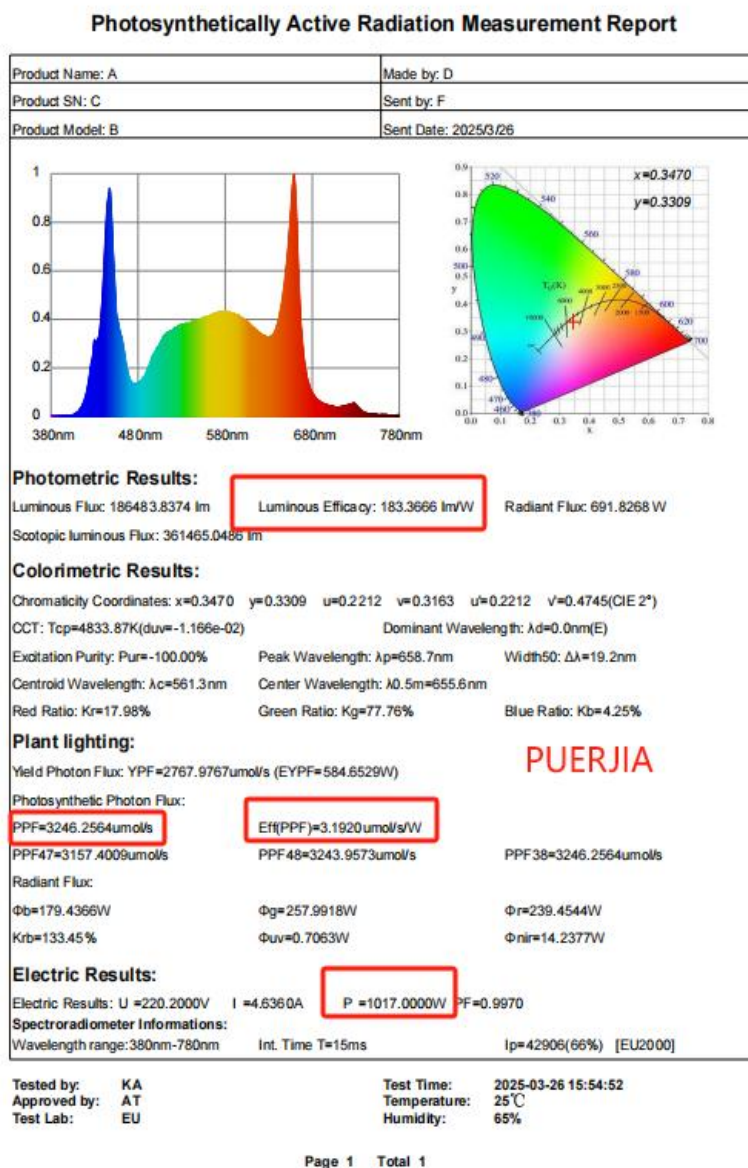
Photosynthetic photon flux density) is the amount of PAR that falls on a given surface each second. PPFD is a spot measurement of a specific location on your plant canopy and it's measured in micromoles per square meter per second ( $\mu\text{mol}/\text{m}^2/\text{s}$ ). Seedlings, clones, mother plants: 200-400 PPFD  
Early to late Veg: 400-800 PPFD  
Flowering: 800-1200 PPFD

## Photon Efficacy

**PPE** refers to how efficient a grow light is at converting electrical energy into photons of PAR. On grow light listings, you'll see it as  $\mu\text{mol}/\text{j}$ . The higher the number is, the more efficient the grow light is at converting electrical energy into photons of PAR. The photon efficacy of ESL grows lights is 2.8-3.0  $\mu\text{mol}/\text{j}$  which is higher than other suppliers

## Wattage and Production

The wattage of the grow lights is a measure of energy consumption. In other words, higher energy consumption means higher production, it will help you save a lot of time and earn more money by using higher wattage-led grow lights. Especially when you buy a grow light for cannabis, it will produce 2g cannabis per wattage of the grow light by our calculation. You need four or five months to plant cannabis, now it only needs two and a half months. Now ESL type A grow lights are for sale, and there will be more grow lights for sale to meet different applications.







## CUSTOMIZATION

Would you like to integrate our solutions in your special architecture or furniture? No problem. We made our products in a way it can easily integrate in most situations or systems. Just contact us.





