



420 SPIDER Series

820W X5 Spider

Technical Specifications

Release Version: V5.0

Release Date: 2025/011/15

Advantages 420 X5 Spider

1. High Efficiency & Energy Saving

The 420 X5 Spider features high-quality Samsung and OSRAM LEDs. Compared to traditional HPS grow lights, the 420 Spider delivers greater light intensity and improved plant growth while consuming less than half the energy.

2. Extended Lifespan

Built with Samsung LM281B+ and OSRAM horticultural-grade LEDs, the 420 Spider is designed to endure harsh grow environments. These LEDs are resistant to high temperatures, humidity, and chemical exposure - ensuring long-lasting performance, consistent output, and superior reliability.

3. IP65 Waterproof Rating

With an IP65 waterproof rating, the 420 Spider is sealed with a high-transmittance optical coating for maximum light efficiency and protection. The LEDs are securely mounted on a robust aluminum frame, making the fixture safe for use in high-humidity grow rooms.

4. Easy Setup

Installation is quick and hassle-free. Simply unfold the fixture, attach the dimmable driver unit (mountable on top of the fixture), and plug it directly into any AC100–277V outlet. No complex wiring or additional hardware is required.

5. Adjustable Dimming Function

The full-spectrum light output is tailored for all stages of plant growth. With an integrated 10–100% dimmer, the light intensity can be easily adjusted to suit seedlings, vegetative growth, or flowering.

6. Daisy-Chain Dimming Control

Each 420 Spider includes a manual dim knob (0–100%) and supports daisy-chain control via the included RJ12 cable. This allows synchronized dimming of up to 2000 fixtures from a single dimmer. For advanced control, an RJ12-compatible PWM LED controller can automate schedules and light cycles.

7. Advanced Thermal Design

The passively cooled aluminum LED bars ensure efficient thermal management. The aluminum PCBs are directly bonded to the bars for optimal heat dissipation - delivering silent, maintenance-free operation and extended LED lifespan.

8. Environment Friendly

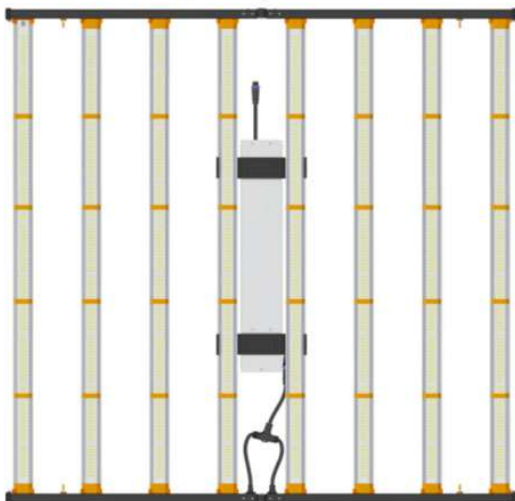
Unlike HPS or MH lamps, 4Twenty LED grow lights contain no hazardous materials such as mercury, iodine, or lead. LED manufacturing uses significantly less energy and creates less environmental waste, making it a cleaner, greener choice for sustainable indoor cultivation.

820W Spider

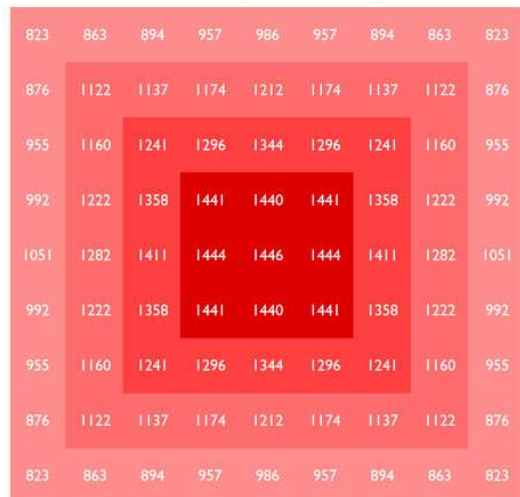


PPFD Distribution @ 4'x4'

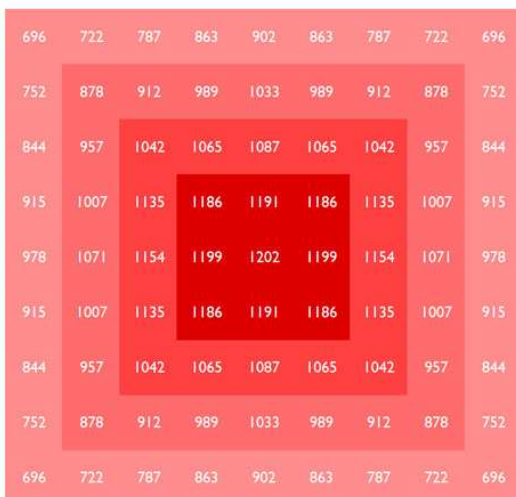
420 X5 Spider | 820W POWER



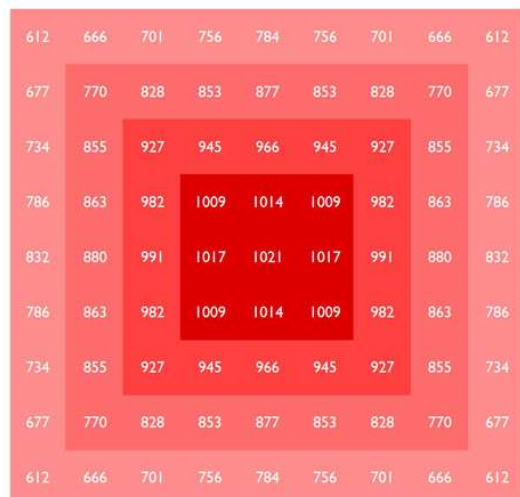
420 X5 Spider | 820 Watt @ 30cm



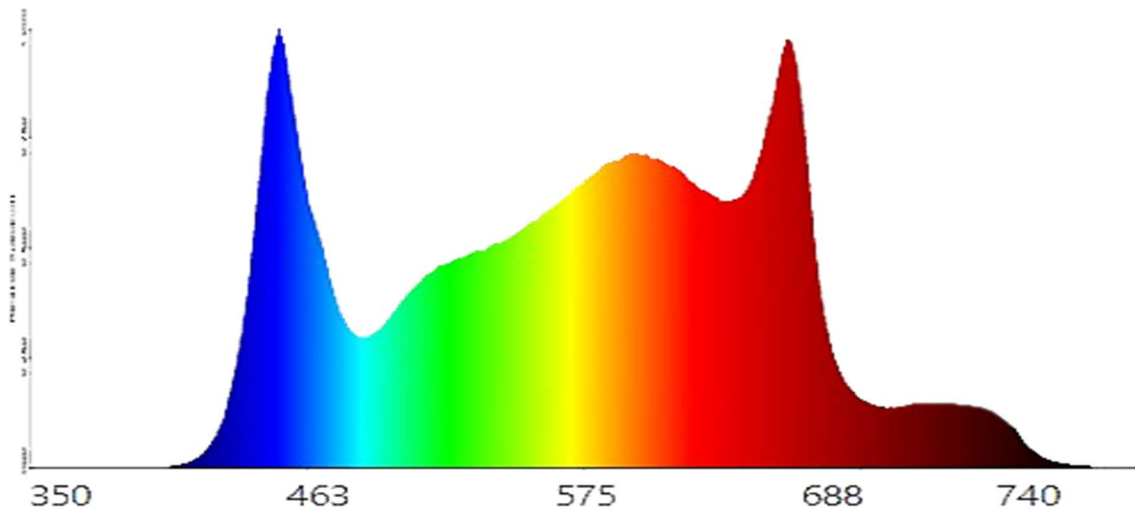
420 X5 Spider | 820 Watt @ 45cm



420 X5 Spider | 820 Watt @ 60cm



Spectrum 820W Spider



Technical specifications 420X5-800

Item	Value	Item	Value
LED chips	Samsung & OSRAM	Power consumption	~ 820 Watt
LED amount	3648 pieces	Dimmer	10-100%
LED efficacy	2,7 $\mu\text{mol}/\text{J}$	Daisy Chain	PWM, 0-10V
LED beam angle	120°	Waterproof level	IP65
LED wavelength	WW, CW, R, FR	Voltage	100V - 277V
Height above plants	≥ 15 cm	Work frequency	50Hz / 60Hz
Lifespan	50.000 hours	Working environment	-20 ~ + 40°C
Lighting area	$\geq 150*150\text{cm}$	Connector ports	RJ12
Size 850W Spider	1100*1100*40mm	Net Weight	12 Kg

Certifications and Warranty of 420 X5 Spider



Note:

1. Adjust lighting schedules based on the plant species and growth stage to optimize development.
2. Avoid direct eye exposure, always wear protective eyewear when working near the fixture.
3. Ensure proper grounding of the power outlet before connecting the fixture for safe operation.
4. Certified compliance with ELT, FCC, CE, and RoHS standards for safety and performance.
5. After sales service; 3-year limited warranty.