

FDP
WHOLESALE

solacure

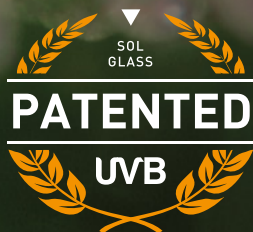
Experts in UV since 1985

flower power

by solacure



Unlock **UVR8** for **MORE** unique plant compounds



www.solacure.eu

UVB UVR8

FDP WHOLESALE



World Leaders in Horticultural **UVB** Light Production

What to expect from Flower Power **UVR8** Lamps



Increase production of unique plant compounds from between 20% - 35%, with many growers reporting increases of 35%+. Our patented technology makes this possible through the stimulation of the **UVR8** protein, which is triggered by **UVB** radiation at 288nm. This, in turn, stimulates plants to produce more compounds to protect themselves from the increased **UVB**.



Kill or suppress Powdery Mildew. Our lamps are proven to help eliminate PM and other moulds which cannot live in a high UV environment. They are not a substitute for good sanitation, but provide extra insurance that PM won't sneak up on you.



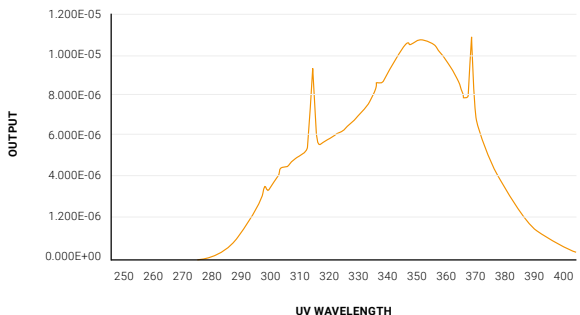
Kill or suppress insects. The 66% UVA portion of our lamps is modelled after the sun, but is more intense. In a growroom, where there is nowhere to hide, insect populations will drastically reduce before they multiply.



More compact, denser flowers and less 'legginess' during flowering. High **UVB** exposure reduces how much taller plants get during flowering, as the plant converts energy from growing taller stems into producing more unique plant compounds.

The Unique Spectrum

This is **UVB** like you have never experienced before. Don't confuse our lamps with other "UV" lamps in the industry. The spectrum and intensity of Flower Power **UVR8** Lamps is totally unique, read this brochure in full to understand why.

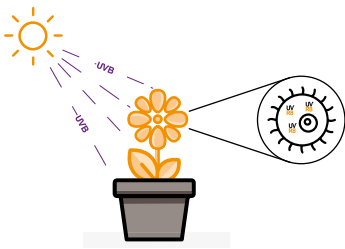




How do our lamps work?

UVR8 is a protein which is produced by some types of plants in defence against **UVB** light. It is stimulated by **UVB** light at 288nm.

UVB light (within the range of 280-320nm), is normally received from the sun. When a plant detects **UVB** at 288nm, it produces the **UVR8** protein. This protein acts as a chemical messenger which in turn, signals to the plant to secrete more oils and resins to help protect itself from the **UVB** rays.



By adding supplementary **UVB** light into an indoor growing environment, growers can artificially stimulate this response and benefit significantly.

Triggering the **UVR8** protein during the flowering season, will make plants shift resources from growth to protection. This means they will grow less tall and instead produce significantly more oils and resins.

What the growers say

Not everyone that uses our lamps wants to advertise it, so they can keep their competitive advantage, or they won't publish or license their findings for free. Here are a few comments from those kind enough to share them..

"I had a friend growing with pretty much the exact same setup as me, cloned from the same plant, and the difference in resin production was obvious. Mine were way more sticky to the touch as well."

"After curing, I didn't say anything about what I had done, and just gave some to a few friends. They started asking me how I did it."

"Using them for growing, just got back from the lab, almost 30% [better results]. It still seems too easy but the numbers don't lie. You have a customer for life."

To see more of what our growers have said scan the QR code or visit the website:

www.solacure.eu



Only **solacure** lamps have the **UVR8** effect.

Virtually no lamps produce **UVB** in the 280-320nm range due, in part, to the limitations of the glass. Solacure lamps are the sole exception as they use a type of glass designed specifically for transparency across the entire **UVB** spectrum.

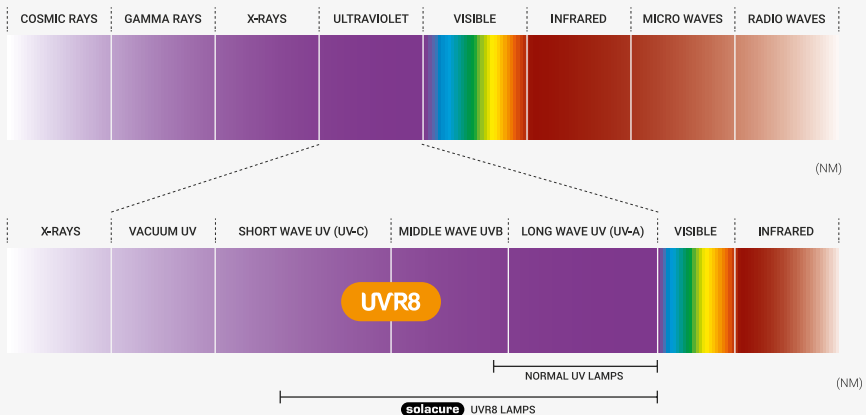
This patented glass technology, combined with our unique blend of phosphors and high output, is what makes Solacure lamps the most effective producers of UVA and **UVB** light, and the only lamps capable of triggering the full **UVR8** effect.

The **UVR8** Effect



Electromagnetic Spectrum

(with expanded scale of ultraviolet radiation - 1 nanometer = 10⁻⁹ meter)



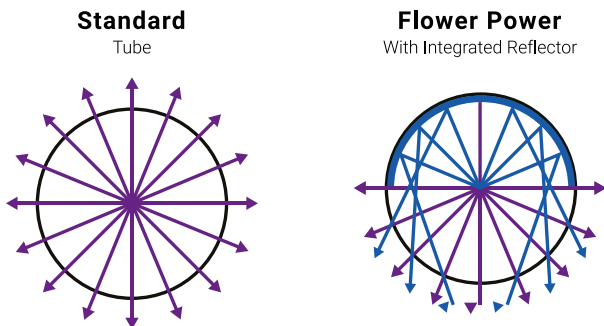


Our patented technology...

It's no secret that regular glass, whether that's in a greenhouse, or the glass of a fluorescent lamp, blocks UV light from passing through. This is another reason why other types of UV lamps simply can't produce enough **UVB** light, at the right wavelengths to stimulate the **UVR8** protein. When combined with our high output and unique phosphor blend, our patented glass with built in reflectors put the Flower Power lamp in a class of its own.

Built in Reflector...

Solacure lamps are R-UV lamps. The 'R' stands for 'Reflector' because the lamps have reflectors built inside the tube. R-UV lamps increase the total UV output of the lamp and mean you don't need your own reflectors.



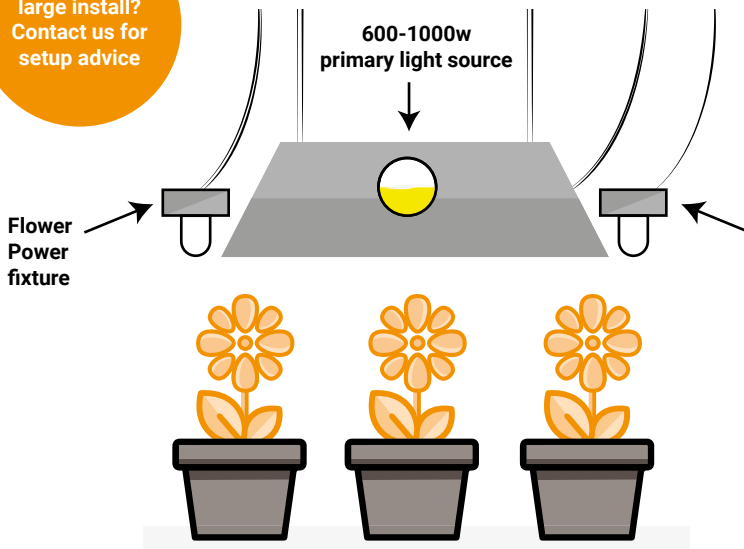
UV is very difficult to reflect. Even aluminium does a bad job, reflecting at best only 50% of the UV. Our internal R-UV reflectors use a special coating designed specifically for UV and is over 80% efficient. Far surpassing polished aluminium. The average output of our lamps is 35-50% higher when compared to using external reflectors. This results in a lot of power that was previously lost, being put back to work.



How to set up the Solacure system...

Solacure recommend running two Flower Power lamps for every 600w to 1000w HID light source, or equivalent. Our plug and play system makes linking multiple fixtures together easy. Simply link together the required number of fixtures then connect the primary fixture to the mains wall socket. A maximum of 8 fixtures can be linked from a single power supply. Fixtures can easily be suspended using the integral hangers. Full component list is on the next page.

Planning a large install?
Contact us for setup advice



Hang fixtures 30 - 60cm above the plant canopy

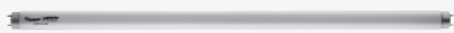
Timing UVB Exposure...

Solacure recommend using an interval timer and starting with 2 hours a day, split into 1 hour intervals, to give the plants a chance to recover from each exposure and to start to harden to the increased UVB. Increase exposure by 15 mins every seven days until perfect exposure time is found. Full instructions are supplied with all Solacure products.

Need Help?

For set up enquiries or trouble shooting speak to the UV experts: info@solacure.eu

Components



06280
Flower Power UVR8 Lamp
280-320nm 1200mm
(Commercial Applications, Rooms or Grow Tents 1.5 x 1.5m)



06281
Fixture for Flower Power UVR8 Lamp 1200mm
Fixture Length: 1250mm - *(Commercial Applications, Rooms or Grow Tents 1.5 x 1.5m)**

06296
Flower Power UVR8 Lamp
280-320nm 1000mm
(Grow Tents 1.2 x 1.2m)

06298
Fixture for Flower Power UVR8 Lamp 1000mm
Fixture Length: 1050mm - *(Grow Tents 1.2 x 1.2m)**

06283
Power Cord UK
3m Cable



06284
Power Cord EU
3m Cable



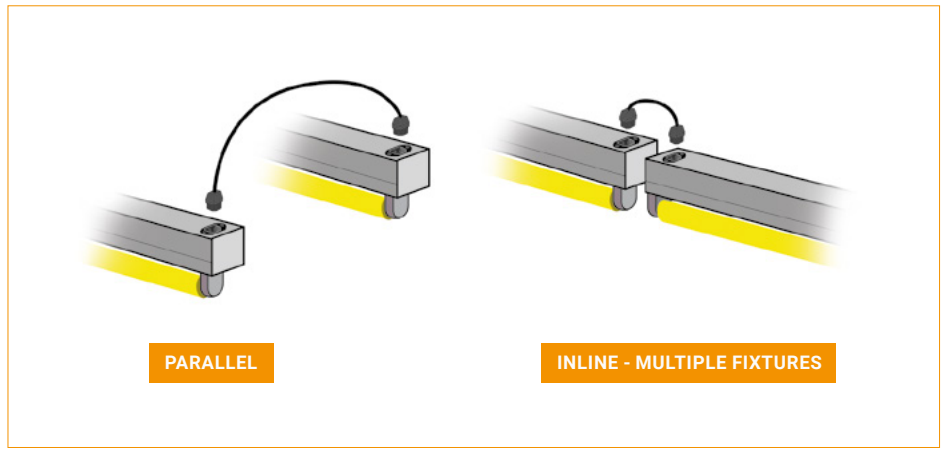
06282
Link Cable
1.5m Cable



**(Lamp NOT included with the fixtures)*

Assembly

Fixtures can be linked together either **in-line** or **in parallel**.



Frequently Asked Questions...

What increases in unique plant compounds can I expect?

Independent lab analysis (SC Labs) show increases of approx 30%. You can expect increases of at least 15% the first time you use Flower Power lamps, and with a season or two of experience, expect 20-30% with many professional growers reporting increases of 35-40%.

What spectrum of UV light is created by Flower Power lamps?

Flower Power produces 34% UVB (280nm-320nm) and 66% UVA (320nm -400nm). They are the only lamps that produce UVB at 280-320nm capable of stimulating the UVR8 protein.

Will Flower Power lamps interfere with my current light recipe?

We put no visible light phosphors in our lamps, so you get nothing but UVA and UVB. This means they won't interfere with the colour temperature of your general lighting, and you can run them for fewer hours and at lower wattage.

How much power do Flower Power lamps use?

Flower Power lamps operate at just 32w (or 64w in Dual Power mode) and are typically used only 2-6 hours a day.

How powerful are Flower Power lamps compared to regular UV lamps?

UVB output is 20-50 times stronger than UVB from any other types of lamp currently on the market.

How long do Flower Power lamps last?

For the stimulation of the UVR8 protein, it is essential lamps are replaced after 3 flowering seasons of 2 month each. This is irrespective of whether the lamps are run continuously or cycled during this time frame. For suppression of moulds, mildew and pests, lamps can be operated until they fail to burn, approximately 3000-4000 hours.

TIP: Use old, spent lamps in vegetative rooms for two hours a day, for sanitation, mildew and insect control, and to have the plants hardened to high UVB ready for going to flower.

Why do you use T12 fixtures instead of T5s , LEDs or CMH?

Achieving the ultimate UV spectrum requires much higher energy levels and a greater lamp surface area than is possible inside a T5. We have designed and tested many prototype T5's over the years and they simply don't make the grade. Our Flower Power lamps are over 20 times more powerful than T5's and our focus is on quality, power, spectrum and results. LEDs and CMH cannot currently create UV light lower than 380nm meaning they can't effectively stimulate the UVR8 protein and are of little use to growers for this application.