

## UVIR SUPPLEMENTAL KIT 100W

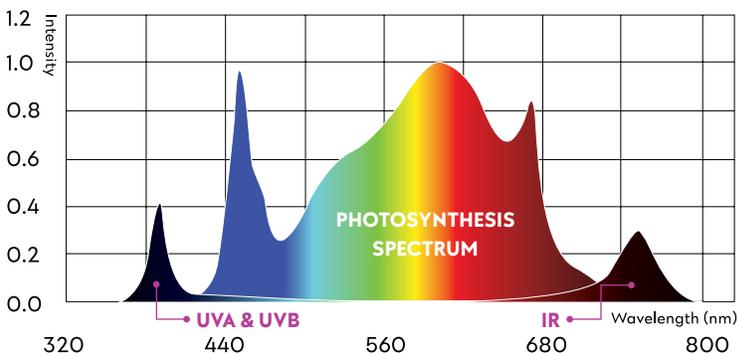
**Wavelength: UVA 380nm + IR 730nm**

We know that blue and red light is optimal for plant growth; it is a fundamental spectrum of indoor growth lighting. Research conducted in 1957 has shown that combining blue and red light with far-red/infrared light (700–760nm) led to an increased rate of photosynthesis due to the Emerson effect. The protein Phytochrome is the only known receptor that is sensitive to far-red/infrared wavelengths. Plants use Phytochrome to regulate a plant's switch from vegetation to flowering state and the flowering time, based on length of daylight or exposure to artificial light. Today, a vast portion of Pro-Growers keep growing their plants under traditional 1000W HPS lighting environments that produce excess heat through IR radiation. They have to install and operate expensive HVAC systems to mitigate the heat. **The CALIVE UVIR Supplemental Kit is a flexible supplemental lighting solution for new growth facilities or HID lighting retrofits. Additionally, CALIVE UV+IR kits offer a dimmable plug & play design that provides infinite possibilities to set up an ideal growth environment to create the art of harvest.**

**In Cannabis/Hemp plants, exposure to UVA vs. UVB light increases the production of THC and CBD. When growing cannabis plants, the plants exposed to UV had increased THC concentrations compared to those not exposed to UV lights.**



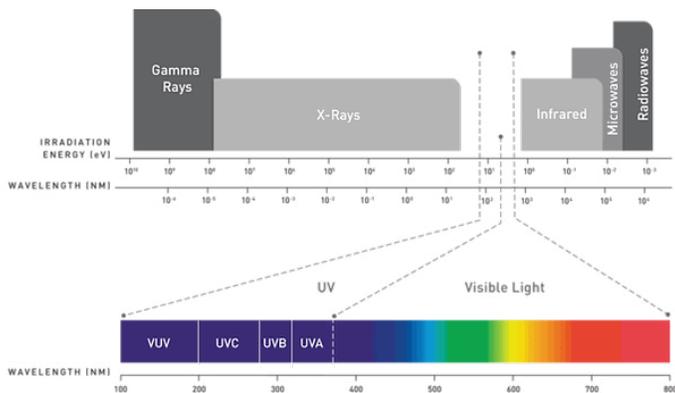
### TARGETED SPECTRUM



### SPECIFICATIONS

TYPICAL INPUT POWER	100 W
WAVELENGTH	UVA 380nm + IR 730nm
IP-RATING	IP65
OPERATING TEMPERATURE	-40 °F to +104 °F
POWER FACTOR	> 90 %
DIMMING	0-10V Dimmable
THE LIGHT WAVELENGTH	400-800 nm
NET WEIGHT	5.3 Lb (2.4 kg)
LIFETIME	50,000 hrs
WARRANTY	5 Years

All specifications are subject to change.



- **Ultraviolet A (UVA)** is from 320–400nm and comprises about 3% of the photons in natural sunlight that make it through Earth's atmosphere. UVA lights for plants do not damage DNA. Furthermore, it is also the main factor that contributes to our toned skin.

- **Ultraviolet B (UVB)** is from 290–320nm and makes up less than 0.15%—less than 1/5th of 1%—of total natural sunlight. UVB rays specifically damage proteins and nucleic acids in the cells harming processes of cell reproduction and metabolism.

- **Ultraviolet C (UVC)** is from 100–290nm and is almost completely filtered out by Earth's atmosphere. UVC light is energetic enough that it is used for sterilization purposes—it kills living cells and virus in medical practice.

#### REFERENCES:

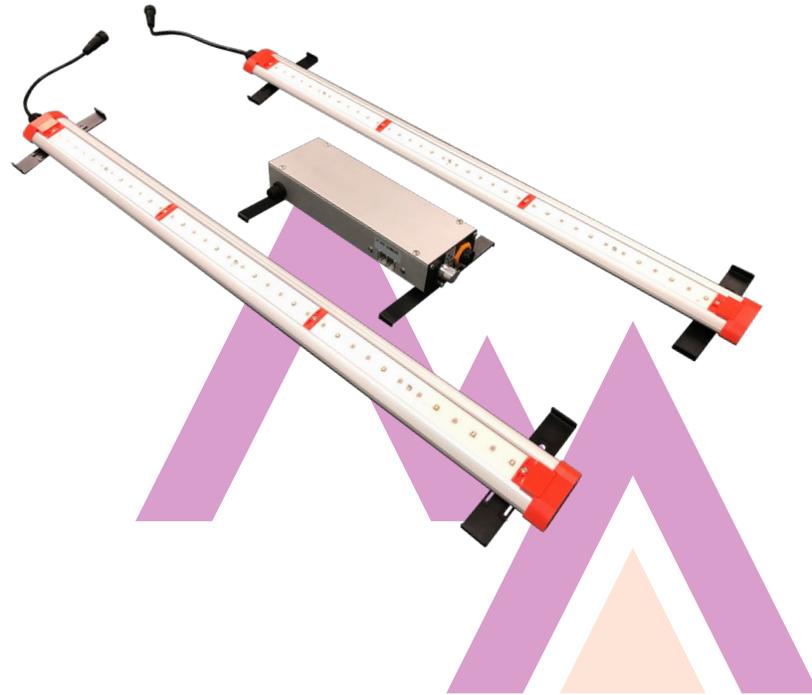
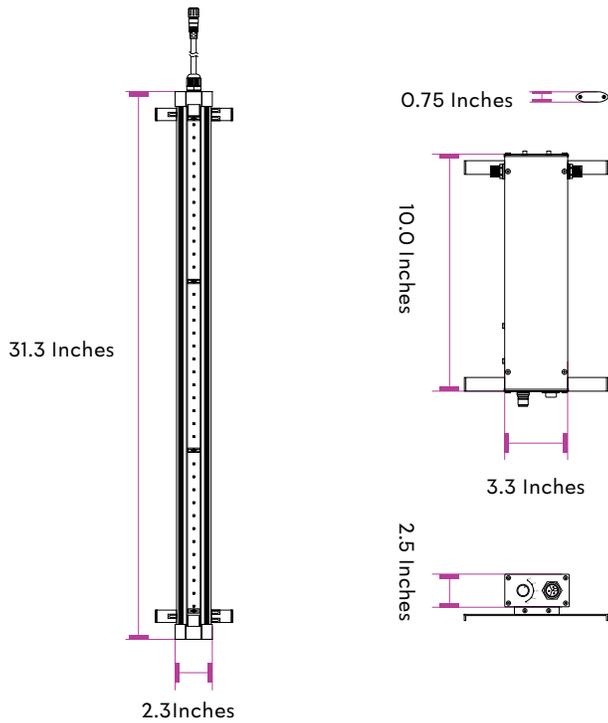
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## FIXTURE DIMENSIONS



## WARNING

1. The installation should be performed by qualified electricians or technicians.
2. Before conducting any installation, maintenance, or removal, the luminaires should be powered off and cooled down.
3. Do not touch the fixture while it is turned on.
4. If there are any issues with the fixture, do not power off and attempt to repair it unless you are a qualified technician, electrician, or customer service member.

## MODEL ORDERING GUIDE

SERIES CODE	WATTAGE	VOLT
CHF10-100W= UVIR SUPPLEMENTAL KIT	100	100 / 277V

## WARRANTY

CALIVE UVIR Supplemental Kit product is covered by a **5 year** limited warranty. CALIVE grow light warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 5 years from date of purchase. To obtain warranty service please contact your local distributor or sales rep for further instruction.

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