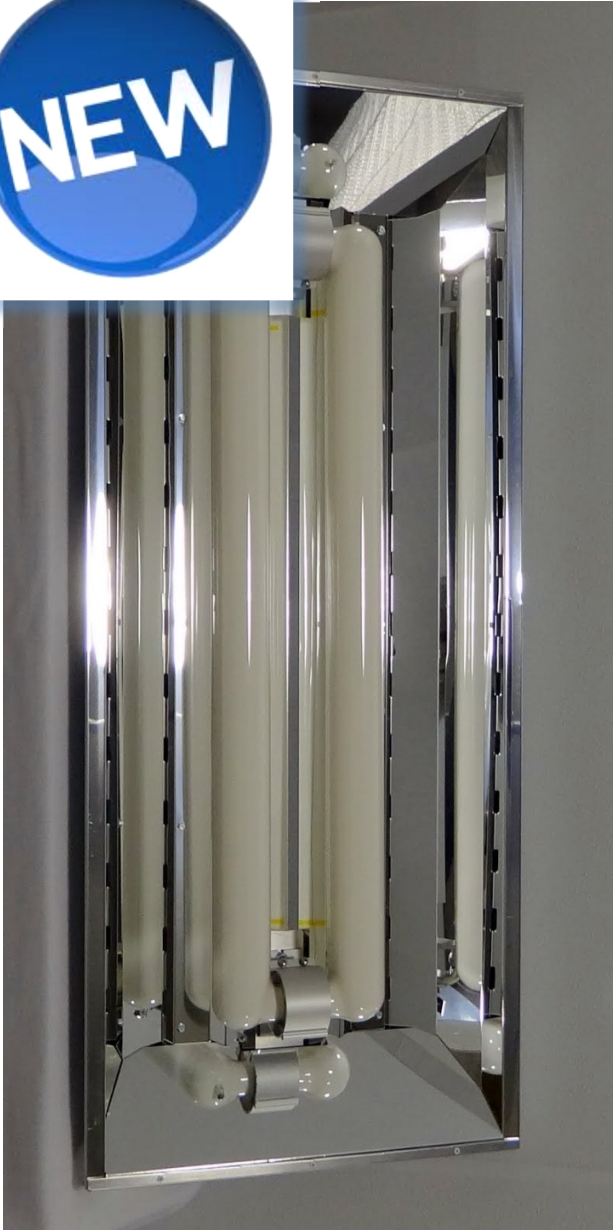


# Sun-Light Series™ 400W Induction Grow Lights

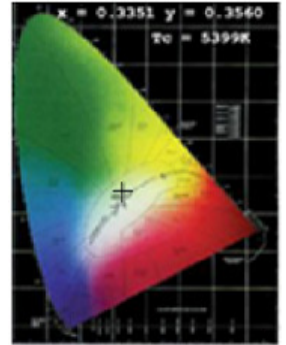
NEW



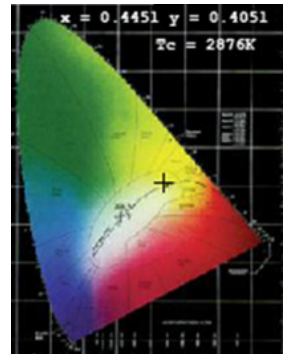
Achieve Even, Intense Light  
Over a Wider Area

## Two Light Options:

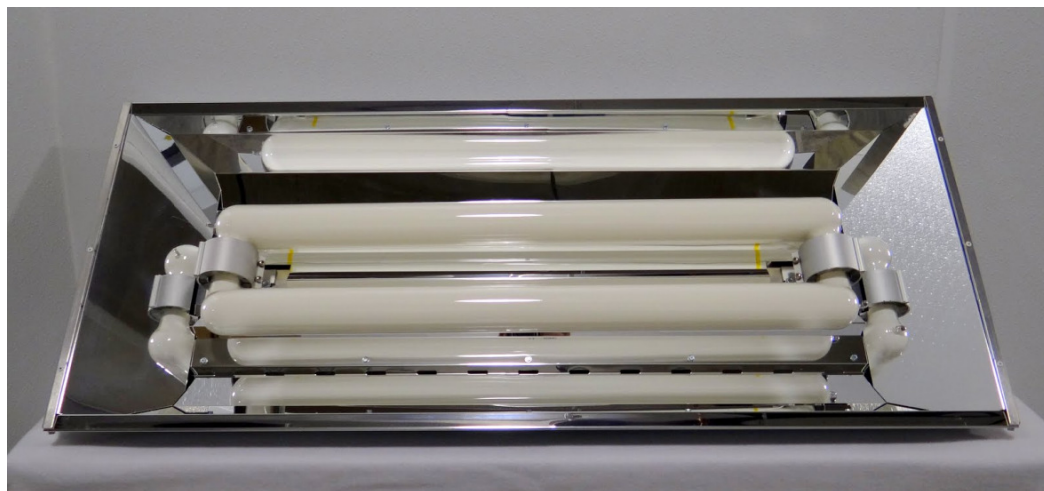
- **Vegetative Growth**  
Full spectrum color series  
for seedlings and  
non-flowering plants



- **Flowering**  
Color series for flowering  
and blooming plants



- Grow plants 20% faster
- Reduces energy costs up to 50%
- 100,000 hours bulb lifespan
- 5 year ballast warranty
- Low heat & high light efficacy
- Replaces MH and/or HPS lamps



Lighting plants need to get the harvests you want.

## ***Sun-Light Series™* 400W Induction Grow Lights – Lighting the Way for Growth!**

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The sole purpose of the *Sun-Light Series* 400W Induction Grow Lights is to grow plants. Since induction lighting and specialized fixtures represented an enormous technological breakthrough for indoor growers, we set out to build high performing induction grow lights that are robust and also priced right!

There are two *Sun-Light Series* 400W Induction Grow Lights that cover both the vegetative and bloom grow cycles. These horticultural induction grow lights excel in their ability to render individual colors accurately and for the amount of light energy produced for plants to use in photosynthesis.

### ***Vegetative Growth* Induction Grow Light**

- Non-flowering plants
- Seed starts
- Propagation of cuttings
- During vegetative stage of early and juvenile growth for blooming and flowering plants

### ***Flowering* Induction Grow Light**

- Blooming and flowering plants
- For long and short day plants

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### **Performance – Achieve even, intense light over a wider area**

- Grow plants 20% faster
- Reduces energy costs up to 50%
- Electrodeless bulb means no gas loss and,
- 100,000 hours bulb lifespan
- 5 year ballast warranty
- Low heat & high light efficacy
- Replaces MH and/or HPS lamps

### **About the *Sun-Light Series* Induction Grow Bulb.**

Conventional bulbs rely on pins or a socket connection to bring electrical current into the bulb. Where ever pins or a socket bond to the glass becomes a point where gas escapes over time due to thermal stress and the bulb depreciates in lumen output.

A magnetic induction bulb is basically an electrodeless fluorescent bulb with electromagnets wrapped around a part of the tube. In external induction bulbs like the *Sun-Light Series*, high frequency energy from the electronic ballast is sent through wires, which are wrapped in a coil around the ferrite inductor, creating a powerful magnet.



The induction coil produces a very strong magnetic field

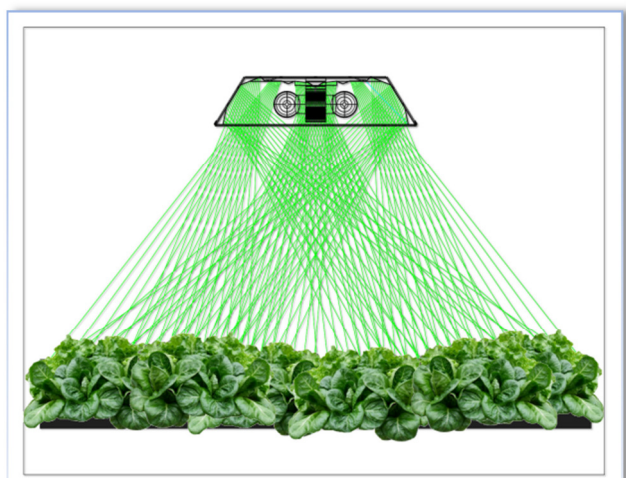
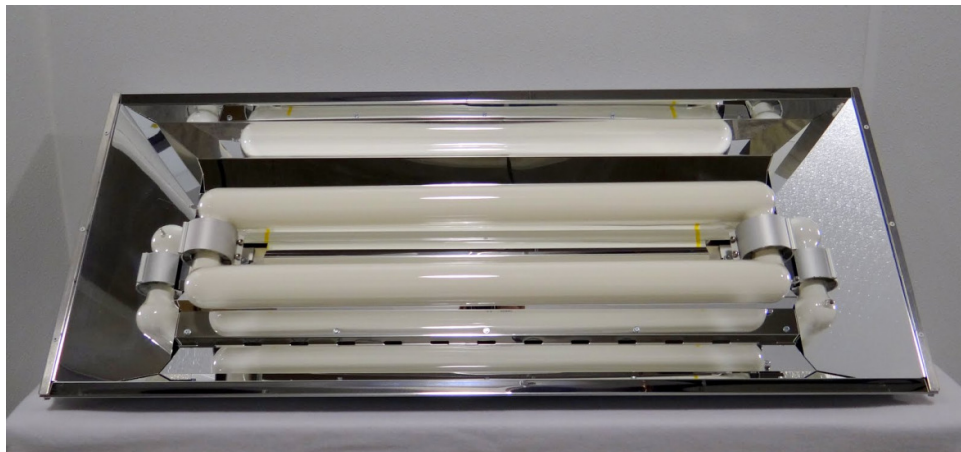
which travels through the glass and excites the mercury atoms in the interior which are provided by a pellet of amalgam (a solid form of mercury). The mercury atoms emit UV light and, just as in a fluorescent tube the UV light is up-converted to visible light by the phosphor powder on the inside of the tube.

Magnetic induction bulbs are amongst the most efficient light sources available. They offer enormous energy savings (up to 50% or more on your electric bill), 100,000 hour bulb lifespan, and specific horticultural grade phosphors that emit 95% PAR usable light. Induction bulbs generate little heat while in operation and do not require any blowers or ventilation.

With the *Sun-Light Series* 400W Induction Grow Lights, indoor growers have a viable option over inefficient and costly MH and/or HPS bulbs.

## About the *Sun-Light Series* Induction Grow Fixture.

The *Sun-Light Series* fixture generates a 95% reflection rate across the entire distribution pattern. Rather than having a “bowed” reflective surface or the three-faced reflective surface, the *Sun-Light Series* reflective surface utilizes a sequence of faceted surfaces; which produces the highest uniformity of light across the canopy.



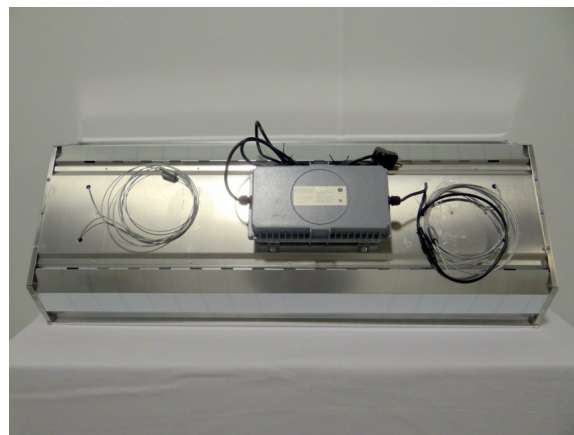
A ray trace shows how the faceted surface controls the light distribution to eliminate “fringing” and “hot spots”.

Position the *Sun-Light Series* Induction Grow Lights 6 to 12 inches above canopy to maximize photosynthetic activity.

Covers 3.5 x 3.5 square foot area.

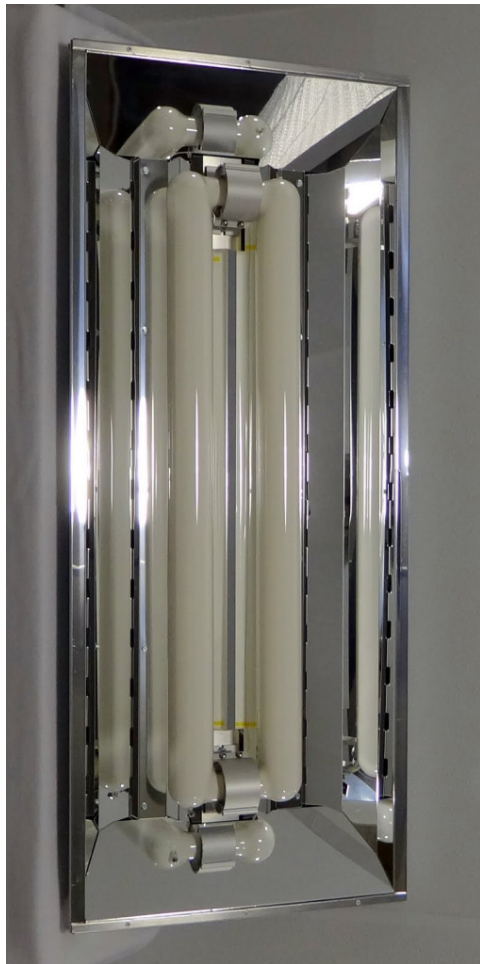
### Robust

- Plug-in ready, with *Gripple Express* adjustable hangers for easy installation and adjustments
- High quality .080 aluminum housing – corrosion resistant for long, durable use
- High purity .032 Miro 4 faceted, aluminum reflector – designed to optimize the highest percentage of light to canopy – lifetime reflector warranty
- Turn on/off as necessary without stressing the bulb; instant start with no delay
- 100,000 hour bulb lifespan; at 70,000 hours, bulb still achieves 90% intensity and quality
- No thermal stress. Built in “heat sink” across the top of the fixture naturally draws what little heat is generated out of lamp; built in vents further cools the fixture – go ahead, touch it and feel the difference!
- Light weight: 20 lbs.



Induction grow lights are the next big revolution for indoor growers. The *Sun-Light Series* Induction Grow Lights give plants what they need, so you get the harvests you want.



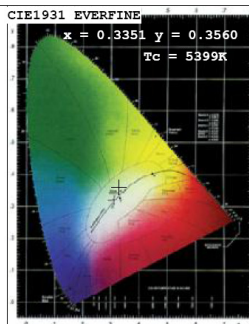
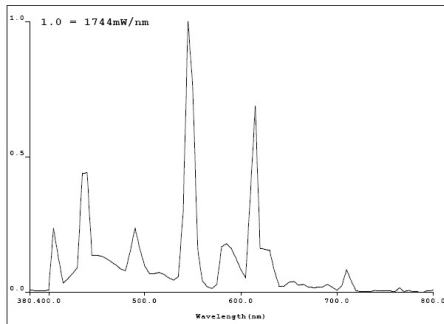


## Specifications

- Induction bulb lifespan: 100,000 hours
- 5 year ballast warranty
- Lifetime reflector warranty
- UL & CUL approval
- CRI >78
- 400W induction light & ballast
- High light efficacy
- Instant start, no delay
- No glare and flicker
- Covers 12.25 sq. ft. area/3.5' x 3.5'
- IP65 rated
- Power factor: >0.98
- Working temp: -20 to +40 or -40 to +20
- Input voltage: 120V - 277V
- Product dimensions: 8" H x 17.5" W x 42.125"
  - 20.32cm H x 44.45cm W x 107cm L
- Product weight: 20 lbs.
- Shipping dimensions: 11" H x 23" W x 46.5" L
- Shipping weight: 33 lbs.

## Spectrophotometer Light Source Test Report

### Sun-Light Series 400W Vegetative Growth Induction Grow Light

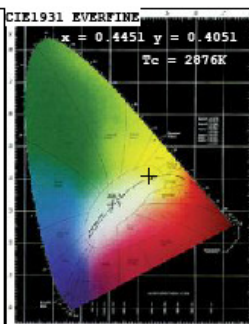
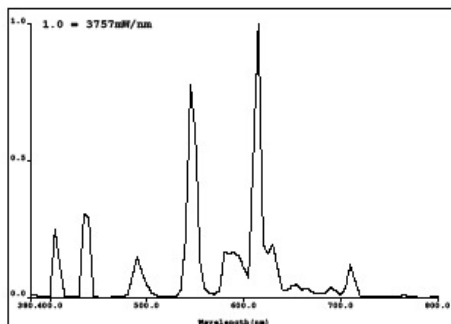


#### CIE Color Parameters:

Chromaticity Coordinate:  $x=0.3351$   
 $y=0.3560/u'=0.2030$   $v'=0.4853$  (duv=  
 6.33e-003) CCT:  $T_c= 5399K$  Prcp  
 WaveL: 1 d=557.8nm Purity=7.4%  
 Peak WaveL: 1 p=545nm  
 Half Width: D 1 p=10.7nm  
 Ratio: R=18.3% G=76.6% B=5.2%

Average Wave: 545nm

### Sun-Light Series 400W Flowering Induction Grow Light



#### CIE Color Parameters:

Chromaticity Coordinate:  $x=0.4451$   
 $y=0.4051/u'=0.2554$   $v'=0.5230$  (duv=  
 -6.35e-CCT:  $T_c= 2876K$  Prcp WaveL: 1  
 d=583.6nm Purity=55.2%)  
 Peak WaveL: 1 p=615nm  
 Half Width: D 1 p=8.5nm  
 Ratio: R=29.4% G=68.0% B=2.5%

Average Wave: 583nm