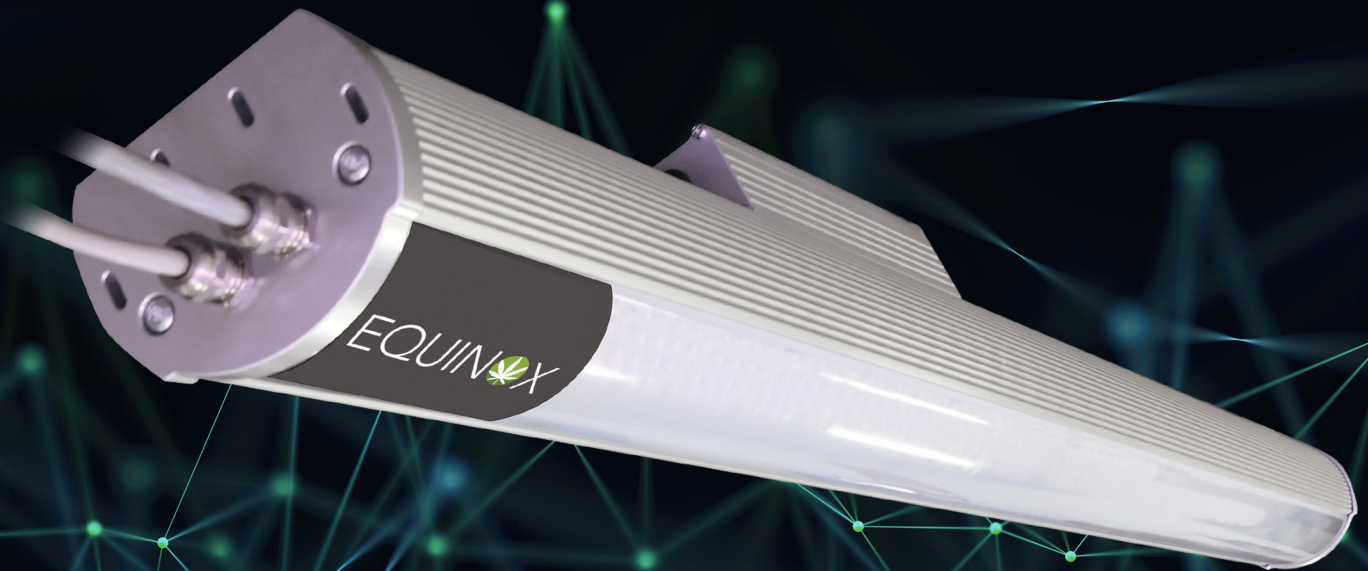


# EQUINOX

## SPECTRUM ENGINEERED LED GROW LIGHT



A BREAKTHROUGH INNOVATION  
BY  METAPHASE  
LIGHTING TECHNOLOGIES

### PRODUCT HIGHLIGHTS

- Proprietary engineered spectrums to support multiple large colas per plant
- Optional controller for unlimited custom spectrum/strain tuning
- Suitable for Wet & Humid Locations
- Easy to install with universal T-Slot mounting
- Designed to pin-point umol/sec coverage on highest plant growth slopes
- 300 Watt shown to outperform 1000 Watt HPS
- UL certified for agricultural use

Metaphase was able to use advanced lensing to make sure light is sent where it's needed most and more importantly, to incorporate custom manufactured LEDs to meet spectrum requirements for maximized stage-specific growth.

Our field growers, tested the ground-breaking spectrums for over two years, until the Equinox was able to significantly outperform traditional light sources, with reduced wattage, and heat output.

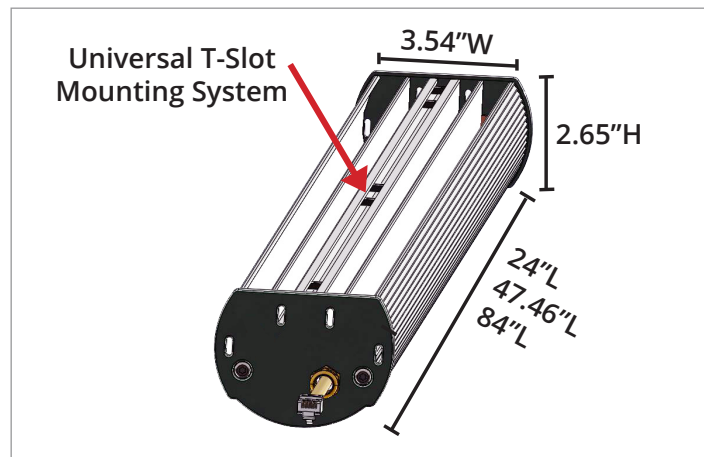
**EPA FACILITY CERTIFICATION  
AS AN INSECT REPELLENT DEVICE.**

<b>AGF</b>	Electrical LED Light Fixture
Manufactured by: Metaphase Technologies, Inc. Bristol, PA 19007 215-633-1558	EPA Est. 92886-PA
	Contains no active ingredients General Classification
Electrical hazards can be found in enclosed installation instructions. Product contains no environmental hazards to humans or domestic animals. See enclosed procedure sheets for directions for use.	
<b>CE</b>	

\*Certification obtained 2017.

**MECHANICAL SPECIFICATIONS**

Product Dimensions	24"L / 47.46"L / 84"L x 3.54"W x 2.65"H
Weight	24" - 14lbs / 47.46" - 27lbs / 84" - 54lbs
Materials	Clear Anodized Aluminum Housing
Environmental & Cooling	IP65 Wet Location; IP68 Connections, Passive Thermal Management
Mounting	Universal T-Slot Mounting System
Warranty	5 Years Limited



**ENGINEERED SPECTRUMS MEASURED ELECTRICAL SPECIFICATIONS**

	GERMINATION/SEEDLING/CLONE		VEGETATIVE		FLOWERING	
Input Voltage (90-305 VAC)	273.1 VAC	115.8 VAC	272.7 VAC	115.6 VAC	272.6 VAC	115.6 VAC
Current	0.41 Amp	0.87 Amp	0.41 Amp	0.86 Amp	0.41 Amp	0.87 Amp
Wattage	99.8 Watts	100.1 Watts	98.18 Watts	98.4 Watts	98.65 Watts	98.88 Watts
Power Factor	0.89	0.99	0.89	0.86	0.99	0.99
Harmonic Distortion (Max)	< 22%	< 10%	< 22.97%	< 10.25%	< 22.69%	< 10.31%
UL Classifications	"LED Surface Mounted Luminaire" cUL 1598 File: E348176 "Luminaire for Horticultural Use" cUL 8800 File: E489461					

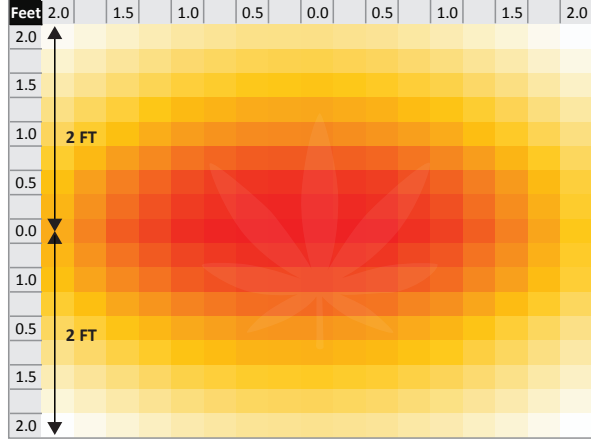
**ENGINEERED SPECTRUMS LIGHT OUTPUT SPECIFICATIONS**

	GERMINATION/SEEDLING/CLONE		VEGETATIVE		FLOWERING	
	OUTPUT	EFFICACY	OUTPUT	EFFICACY	OUTPUT	EFFICACY
Radiant Flux	33 Watts	36 %	28 Watts	29%	31.97 Watts	32%
Luminous Flux	4274 Lumens	43 lm/W	5621 Lumens	57 lm/W	6108 Lumens	61.9 lm/W
PPF (400-700nm)	133 umol/sec	133 umol/sec/W	123 umol/sec	125 umol/sec/W	164 umol/sec	166 umol/sec/W
PBAR Flux (350-850nm)	137 umol/sec	132 umol/sec/W	132 umol/sec	135 umol/sec/W	168 umol/sec	171 umol/sec/W

# MOUNTING HEIGHT AND PLANT SPACING

The Equinox is all about focus. To get the most bud for your buck, you'll want to mount these lights with rows of plants spaced in the "sweet spots" as depicted below in red.

## 5' MOUNTING HEIGHT: PPF DISTRIBUTION



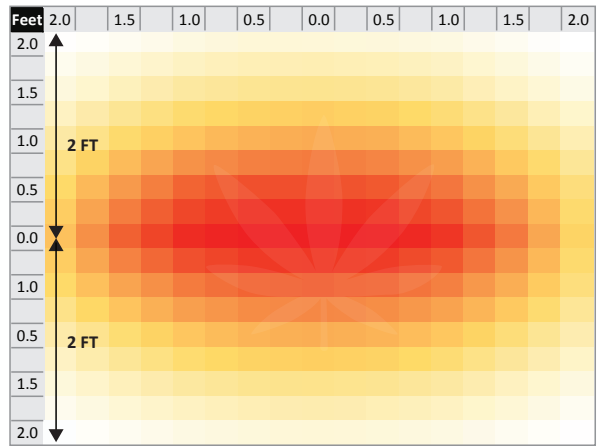
INTENSITY SCALE

Min PPF Max PPF

	GERMINATION SEEDLING	VEGETATIVE	FLOWERING
Min PPF	15.3 umol/sec/m <sup>2</sup>	12.7 umol/sec/m <sup>2</sup>	19.4 umol/sec/m <sup>2</sup>
Max PPF	75.4 umol/sec/m <sup>2</sup>	67.4 umol/sec/m <sup>2</sup>	104.5 umol/sec/m <sup>2</sup>

With the Equinox developing strong stems on lower branches, large flowers are now possible there as well. Work side lighting in if you can, to maximize their size and your harvest.

## 3' MOUNTING HEIGHT: PPF DISTRIBUTION

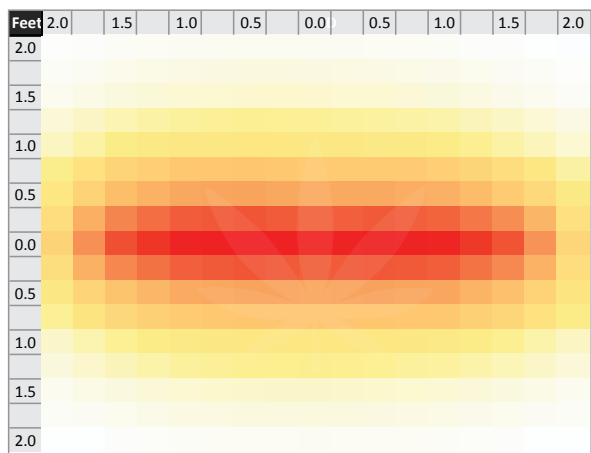


INTENSITY SCALE

Min PPF Max PPF

	GERMINATION SEEDLING	VEGETATIVE	FLOWERING
Min PPF	11.5 umol/sec/m <sup>2</sup>	9.7 umol/sec/m <sup>2</sup>	14.4 umol/sec/m <sup>2</sup>
Max PPF	148 umol/sec/m <sup>2</sup>	136.9 umol/sec/m <sup>2</sup>	205.9 umol/sec/m <sup>2</sup>

## 1' MOUNTING HEIGHT: PPF DISTRIBUTION



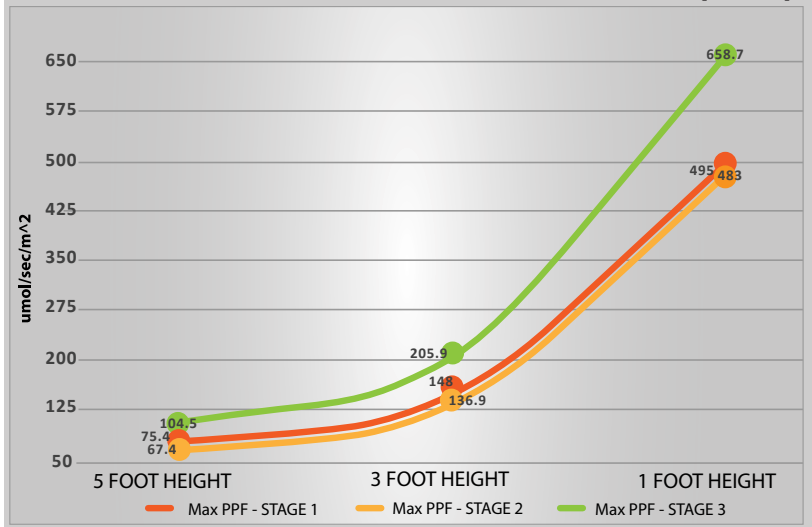
INTENSITY SCALE

Min PPF Max PPF

	GERMINATION SEEDLING	VEGETATIVE	FLOWERING
Min PPF	2.2 umol/sec/m <sup>2</sup>	1.4 umol/sec/m <sup>2</sup>	2.3 umol/sec/m <sup>2</sup>
Max PPF	495 umol/sec/m <sup>2</sup>	483 umol/sec/m <sup>2</sup>	<b>658.7 umol/sec/m<sup>2</sup></b>

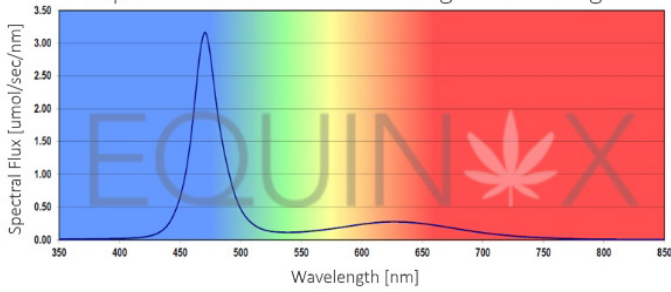
This performance curve shows that the Equinox delivers the proper PPF (UL Horticultural performance)

## PHOTOSYNTHETIC PHOTON FLUX (PPF)



# ENGINEERED SPECTRUMS PER GROWING STAGE

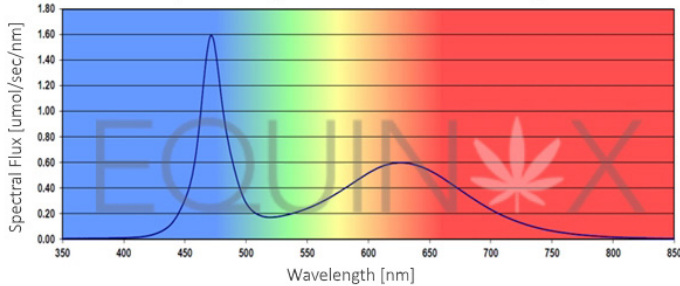
Equinox Germination & Seedling vs. Wavelength



## GERMINATION / SEEDLING / CLONE

This spectrum was developed to promote root development to maximize nutrient absorption, and plant stability.

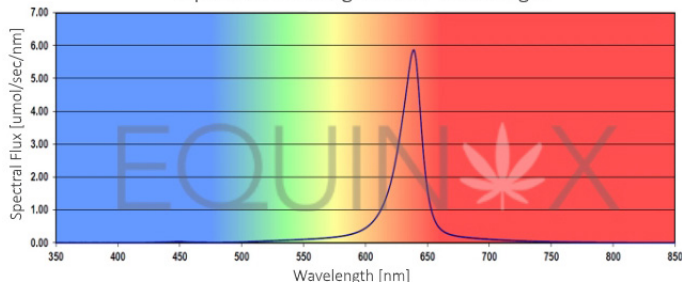
Equinox Vegetative Flux vs. Wavelength



## VEGETATIVE

Our vegetative is all about strong roots and stems: big nutrient pathways and that support structure you're looking for. Maximizing potential for large flowers and less staking them up!

Equinox Flowering Flux vs. Wavelength



## FLOWERING

Flowering like you've never seen before, but the bottom line is, this spectrum is capable of producing large, dense flowers where you'll be happy for that strong support system.

### EX. AGF-46-100-RBIRT-C

ROOT	FIXTURE LENGTH (in)	WATTAGE INPUT	COLOR CONFIG. (LEDS)	TERMINATION (Plug Type)
<b>AGF</b>	<b>46</b> [Up to 100 watts]	<b>150</b> [W] XXX [user selected wattage]	<b>RBIRT</b> [Red, Blue, White]	<b>C</b> [Connector, No Cord, Standard Option] <b>PC6</b> [Power Cord 6'] <b>PC15</b> [Power Cord 15']

### OPTIONAL CONTROLLERS

**NOTE: All AGF models are compatible with 0-10V Controls, and can be paired with other industry controls systems capable of controlling 4 0-10V channels.**

<b>C4B-12P</b>	[4 Channel, 12 Port Controller with EQUINOX engineered spectrums preset. Controls up to 12 lights.]
<b>DDC-3-12P</b>	[3 Channel, 12 Port Digital Dimming Controller for unlimited color tuning utilizing EQUINOX Red, Blue, and White LEDs. Controls up to 12 lights.]

