



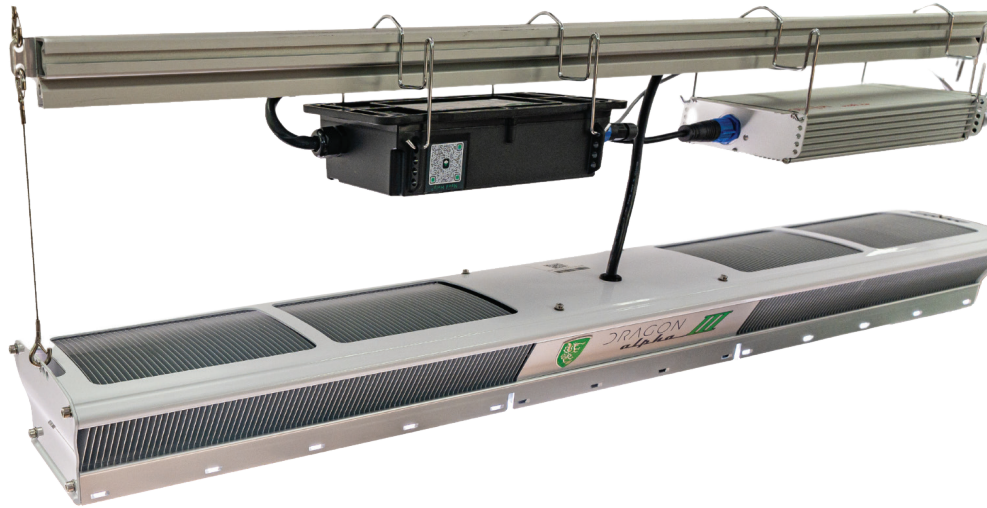
# DRAGON *alpha III*

SCYNCELED

Welcome to the next evolution of our flagship fixture **DRAGON *alpha III***. Our latest generation of *alpha III* fixture not only offers the same quality and control you've come to expect and love from Scynce LED, but we've stepped up our game to further enhance your experience.

The first feature to note is the passively cooled heatsink, which reduces power consumption in your facility. Next is an optimized optical footprint, offering a more even light distribution across your canopy. We've also redesigned our power daisy-chain system, you can now plug the next light into the previous light making it very simple to optimize your facility power layout, and reduce the cost of your electrical system installation.

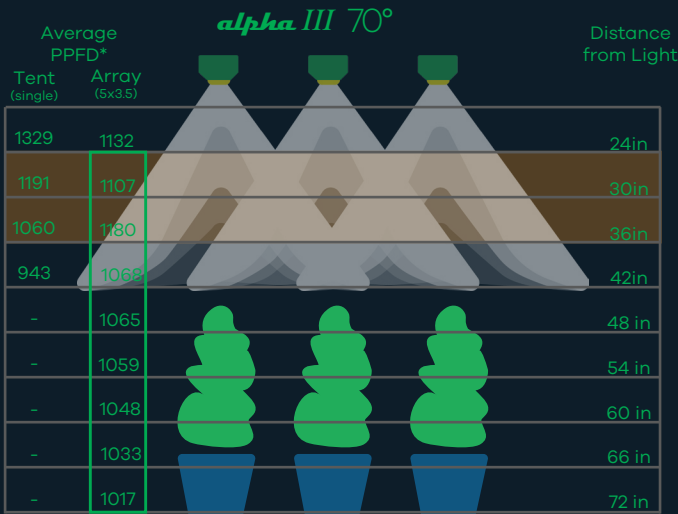
We've not only thought about light features and setup, we've also added features to make the *alpha III* more serviceable and easier to troubleshoot. By moving the power supply and controller offboard and making the system easily hot-swappable, your facility will have less down time when the unforeseeable happens.



## LIGHT DELIVERY

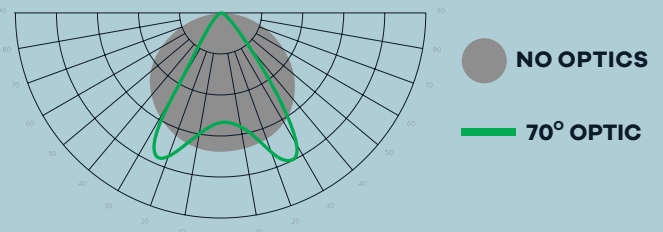
Our patented optics allow plants to see equal light intensity and evenly distributed light from all angles. Meaning that the canopy is fully immersed in light from above and from the sides, pushing light deeper into the canopy. This even distribution of light prevents hot/burned spots, and portions of the canopy from growing at inconsistent rates. This results in a larger growing surface with even more plant density below the canopy surface.

## AVERAGE PPF/D AT DISTANCE



□ Recommended growing zone (height) ■ Recommended hanging height  
\*PPFD data is collected using an Apogee SQ-618-SS in a dark room with Lighting Fixture set to full power flower spectrum for array data and in a highly reflective tent for the tent data.

## LIGHT DISTRIBUTION CURVE



## SOLUTIONS TO FIT YOUR GROWING NEEDS



TENT



GREEN HOUSE



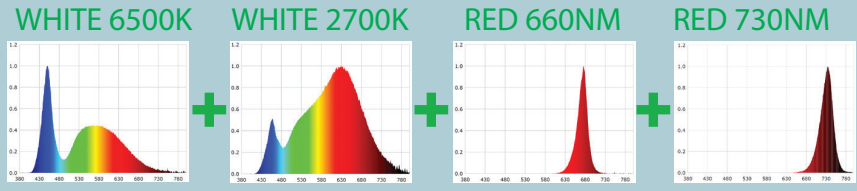
SINGLE-LEVEL

The *alpha III* is the choice of craftsmen who need an all-in-one solution for high-output, small footprint, indoor warehouses, highbays or greenhouses.

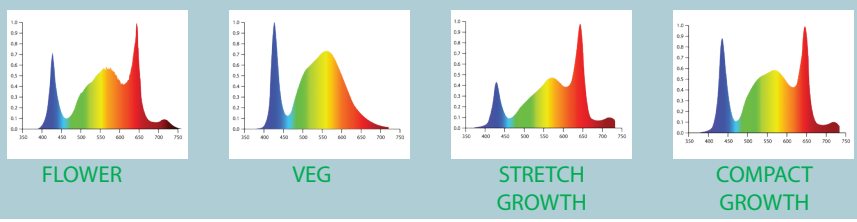
# FULL POWER SPECTRUM TUNING



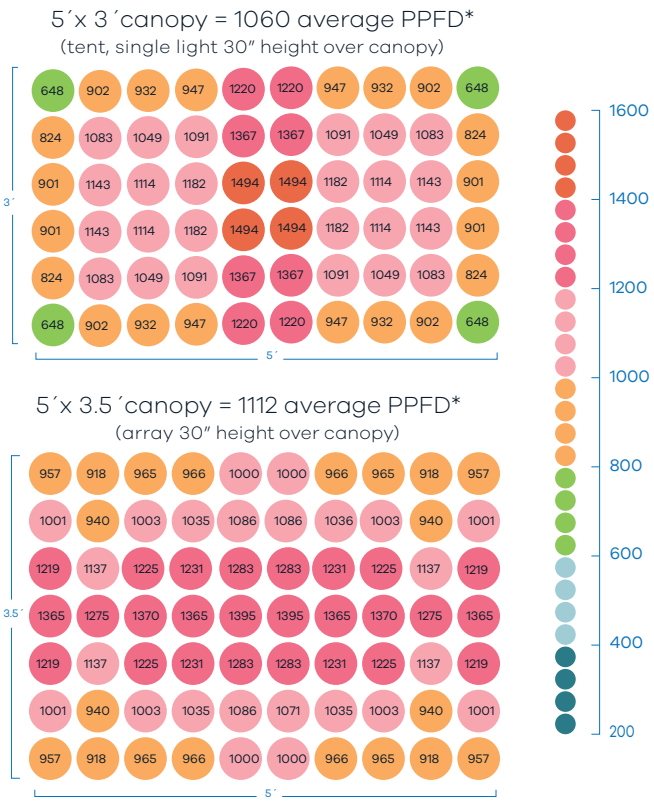
The *alpha III* fixture delivers full control over the spectrum without any loss of power. With  $\pm 1,000$  PPFD of any spectrum between 2700k and 6500k (warm to cool), you control what type of white light gets delivered to your plants. The red/far-red channel provides over 600 PPFD of energy that can be evenly split between 660nm or 730nm or completely turned off. The *alpha III* fixture produces 1,200 PPFD of on-the-fly customizable plant growing photonic power.



**FULL SPECTRUM OF YOUR CHOICE - YOU PICK!**  
 Don't see your spectrum? Don't worry, you can create it!



# PAR MAP OF *alpha III* 70° OPTIC



# COEFFICIENT OF UTILIZATION

The *alpha III* patented optics are designed to optimize the fixture's Coefficient of Utilization (CU). This technology shapes the light distribution, ensuring more light reaches the target—the plant—where it is most beneficial. The data presented, derived from an *alpha III* (with and without an optic), illustrates the advantages of incorporating the *alpha III* optic.

Recorded Height 24"

Canopy Size	W/ Optic	W/out Optic
4 x 4	0.73	0.54
4 x 9	0.72	0.57
4 x 16	0.78	0.62
8 x 9	0.80	0.70
16 x 16	0.91	0.85

# DRAGON *alpha III* SPECS

- POWER:** 650 watts    **WARRANTY:** 5 years,  
 For details visit us @(<https://scynceled.com/product-warranty/>)
- INPUT VOLTAGE:** 120 - 240V or 277 - 480V
- AMPS:** 120V-5.4 / 240V-2.7 / 277V-2.3 / 480V-1.4
- POWER FACTOR:** >95    **CABLE MGMT:** Yes
- DIMENSIONS:** 43.5" x 7" x 4"    **WEIGHT:** 18 lbs. (Fixture)  
 2 lbs. (Controller)  
 4 lbs. (Power Supply)
- WATERPROOF SEALING:** IP66 Rating (entire light fixture)
- THERMAL MANAGEMENT:** Active thermal protection monitoring
- MAX AMBIENT TEMP:** 30° C
- INTENDED USE:** Indoor, Non Stacked, Sole Source, Toplight and Greenhouse, Supplemental
- CERTIFICATIONS / TESTING:** UL, CSA, CE, FCC, RoHS, DLC  
 UL1598, UL8750, UL8800, CSA C22.2 NO. 250.0-08, CSA C22.2 NO. 250.13
- P/N:** DRAGON ALPHA III (52840)

- TUNABILITY:** 4 color channels with full power spectrum tuning
- SPECTRUM:** white (2700k and 6500k) and red (660 and 730nm)
- SECONDARY OPTICS:** Linear 70° (height over canopy is 24" to 72" )
- CONTROL:** Wired control of spectrum, intensity, scheduling & dim-to-off. Light-to-light communication is a proprietary wired connection using IP rated push-lock connectors.
- CHANNEL POWER:** White = 650 watts    Red = 120 watts
- EFFICACY (PPE):** 2.52  $\mu\text{mol/j}$  @ 120V input  
 2.56  $\mu\text{mol/j}$  @ 277V input
- PHOTOSYNTHETIC PHOTON FLUX (PPF):** 1691  $\mu\text{mol/s}$
- PPFD (@ 30in array):** up to 1,112  $\mu\text{mol/m}^2/\text{s}$  over a 5'x3.5' (37 watts/sf)
- PPFD (high DLI):** up to 1,492  $\mu\text{mol/m}^2/\text{s}$  over a 4.5'x2.75' (52 watts/sf)  
 For higher PPFD (1200-2000) requirements contact the Scynce design team ([sales@scynce.ag](mailto:sales@scynce.ag))
- MAX COVERAGE AREA:** Flower = 5'x3.5' Veg/Mother = 6'x5'  
 For supplemental Veg and Mother room design, contact the Scynce design team ([sales@scynce.ag](mailto:sales@scynce.ag))

\* PPFD values are measured using an Apogee sensor with lights arrayed at 5' x 3.5'. Note that PPFD values can change due to several conditions. Please contact Scynce for best results ([sales@scynce.ag](mailto:sales@scynce.ag))