

PROJECT NAME

CATALOG NO.

TYPE

DATE

NOTE

NITE GROWER PLASMA GROW LIGHT

NIT400 Series

DESCRIPTION

The Nite Grower utilizes Alphalite's proprietary Advanced Plasma Technology to deliver high intensity, enhanced color spectrum lighting for horticultural applications. The high-efficiency plasma light source dramatically improves upon high intensity discharge sources by offering energy savings, long life, superior color control, improved lumen maintenance, and better optical performance. The Nite Grower fuses cutting-edge plasma technology with precisionengineered, high quality manufacturing to produce a grow system suitable for the most state-of-the-art greenhouses and growing facilities.

APPLICATION

Greenhouse, Agriculture, Grow Operations, Warehouse, Plant and Tissue Growth.

SPECIFICATION FEATURES

Construction

High performance, cutting-edge die-cast magnesium resonator housing improves heat dissipation and reliability. Precisionengineered and manufactured optics to optimize light delivery to the working plane. Features advanced heat management for efficient power supply and driver operation. Convenient suspension mounting. Quality-manufactured die cast aluminum housing.

Electrical

Solid state driver with micro-processor technology delivers superior color performance and reduces color shift. Improved lumen maintenance versus traditional HID. Advanced dimming, monitoring, and communications capabilities.



NIT400

High Performance **Plasma Horticultural Grow Light**

400W Equivalent

Mounting

Comes standard equipped with V-hooks for mounting and cord.

Die formed, 95% reflectivity optical reflectors optimizes performance and light delivery. Single-point source mico-lamp allows for more precise control of optical distribution.

Warrantv

1-year limited warranty. See complete warranty terms for details.

Quick Ship Items

ORDERING INFORMATION

Sample Number: NIT400-2T/830

HID equivalent

NIT	400	2Т	8	30	(Blank)	Mounting Height	Coverage Area
Series	Wattage	Version Type	CRI	Nominal CCT	Distribution Type	3'	4' x 4'
NIT = Nite Grower	Equivalent	2T = Version 2T	8 = 85+ CRI	30 = 3000K	(Blank) = Special design	4'	5' x 5'
	400 = 400W			65 = 6500K	for Horticulture		



PERFORMANCE NIT400 Series

SUMMARY

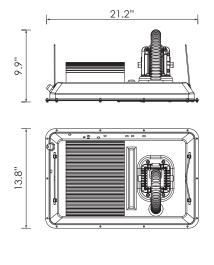
Input Voltage 120V-277V 50/60 Hz Input Frequency Input Power 235W Initial Lumen Output 12,560 lm (3000K) Power Factor > 0.95 THD (Max.) 20% Efficacy 53 LPW Controls/Dimming Comes standard with 0-10V and Tx-Rx Digital Control Dimming Range 20-100% CRI > 85 CCT 3000K 80 Lumen Maintenance (%) Source-PAR (umol/s) 280 Par-Ratio (red-to-blue) Rated Life (Avg. Hours) 30,000 hours

30 sec.

120 sec.

-40°C ~ +55°C

DIMENSIONS

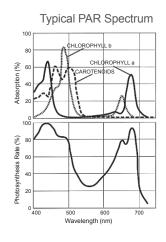


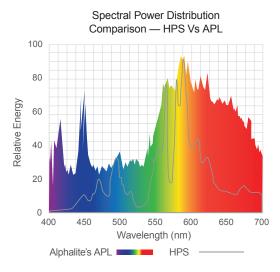
PHOTOMETRICS

Start-up Time

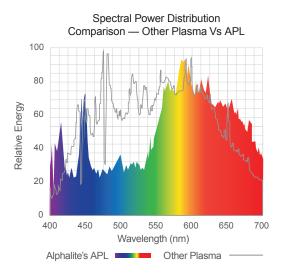
Hot Restrike Time

Operating Temp.





HPS Grow Light Spectrum Lacks a Large Portion of the Red and the Blue Spectrums Needed by Plants for Optimum Growth



Other Plasma Lamp Spectrum Lacks in the Red Spectrum Needed for Flowering Stage and Has Green Spectrum that is Mostly Reflected by the Plants.



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