

2100 μmol NATRALOX[®]

“The Most Advanced Mogul Style Lamp On The Market”

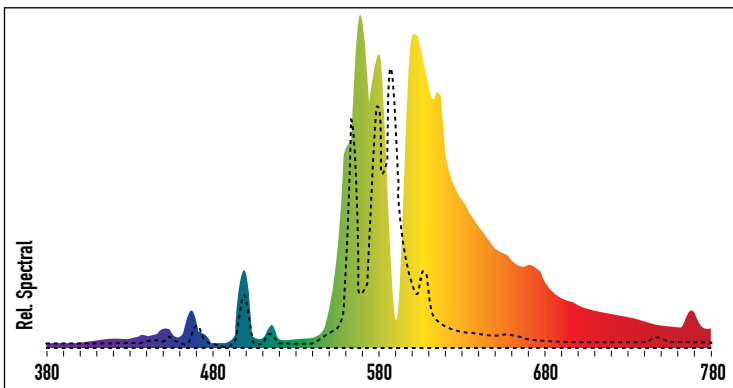
The Narva Super HPS enables fast plant growth in all development phases and first-class yields. The particularly high luminous efficacy due to the NARVA super arc tube technology ensures a large blue fraction in the emissions spectrum and an effective PAR output during the whole life of the lamp. The Narva Super HPS surpasses the competition with its output up to 2100 μmol . This lamp is the only 2100 μmol mogul base lamp available on the market. Features a DE lamp arc tube and it is compatible with all HPS ballasts. Made in Germany.



Code: 100065



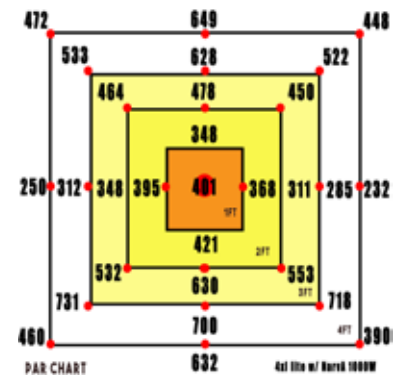
Better Light – Optimized Spectrum



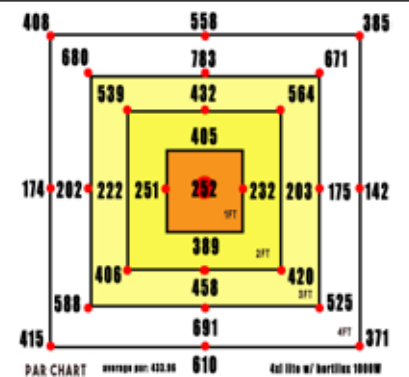
- Significantly wider spectrum compared to the standard products
- High blue content for strong plant growth
- Optimized red light range to support photosynthesis and fructification
- Optimized for highest PAR performance up to 2100 $\mu\text{mol/s}$

Lamp Comparison

PAR chart
NARVA



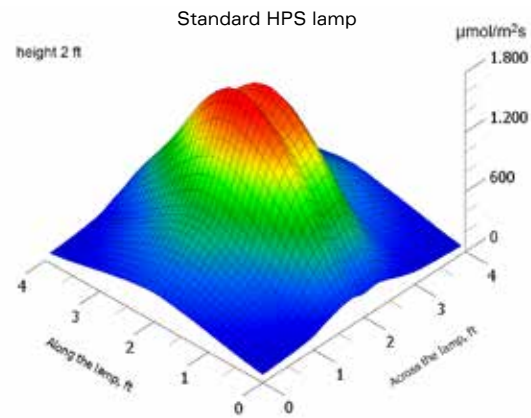
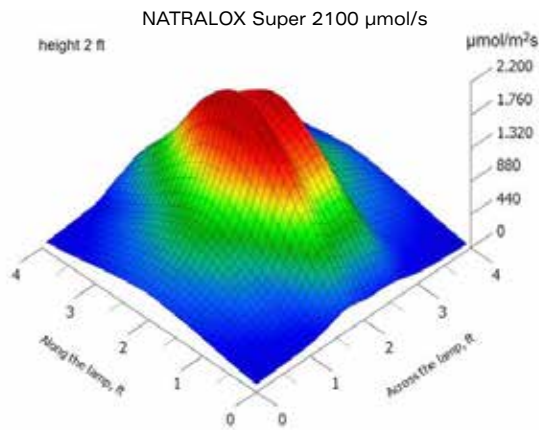
PAR chart
HORTILUX



Test made with Silverstar 4XL reflector above the canopy

More Light and Excellent Light Distribution

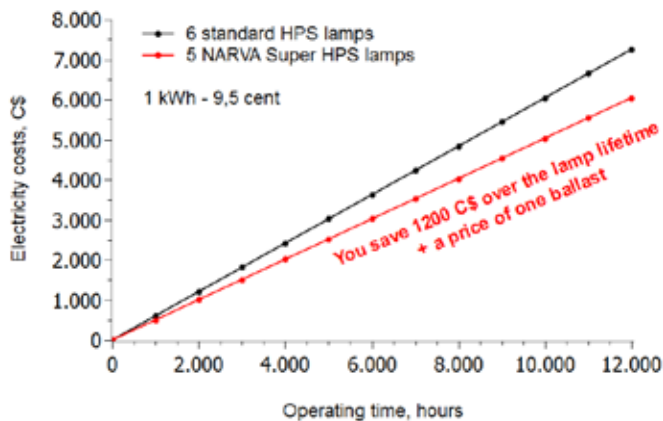
Following diagrams of measurements made by independent laboratory show that Natralox covers areas up to 2100 μmol . The standard product does not reach values above 1750 μmol . The values of the Natralox can also make it an inexpensive alternative to double ended lamps.



Higher Yields And Higher Profits

- With up to 2 $\mu\text{mol/s/W}$ the lamp offers a very high photosynthetic efficiency.
- More fruits on larger and healthier plants by optimization of the light spectrum.
- Increased efficiency of the lamp leads to lower energy consumption.
- Stable PAR values over the entire lifetime.
- No expensive changeover to a double ended system.

5 NARVA Super are so bright as 6 standard lamps



Technical Characteristics

PERFORMANCE DATA

Ballast (ANSI)	S52
Lifetime to 5% failure and 90% photon flux	12 000 h
Photon flux PAR PPF (100 h)	2100 $\mu\text{mol/s}$
Correlated colour temperature (CDT)	2000 K
Chromaticity coordinates	$x=0,531$ $y=0,421$
Colour rendering index (CRI)	< 40
Run-up time	5 min
Reignition time (bare lamp)	2 min
Burning position	Any
Ignition voltage for electronic ballasts	3.5 - 5 kV
Ignition voltage for magnetic ballasts	4 - 5 kV
Maximal cable length:	From ballast to lamp should not exceed 4 meters

PHYSICAL DATA

Base designation	Mogul screw (E39)
Bulb type	Clear/T65
Bulb diameter	2.6 in (65 mm)
Max. overall length (MOL)	14.00 in (355 mm)
Light centre length (LCL)	9.05+0.2 in (230+5 mm)
Permitted base edge temperature (max.)	410°F (210°C)
Permitted outer bulb temperature (max.)	752°F (400°C)
Luminaire type	Open
Mercury content	44 mg
Weight	10.58 oz (300 g)

ELECTRICAL DATA

Lamp wattage (nominal value)	1000 W
Lamp voltage	210 V - 275 V
Lamp operating current	5.3 A