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# GLOBAL
## DISTRIBUTION

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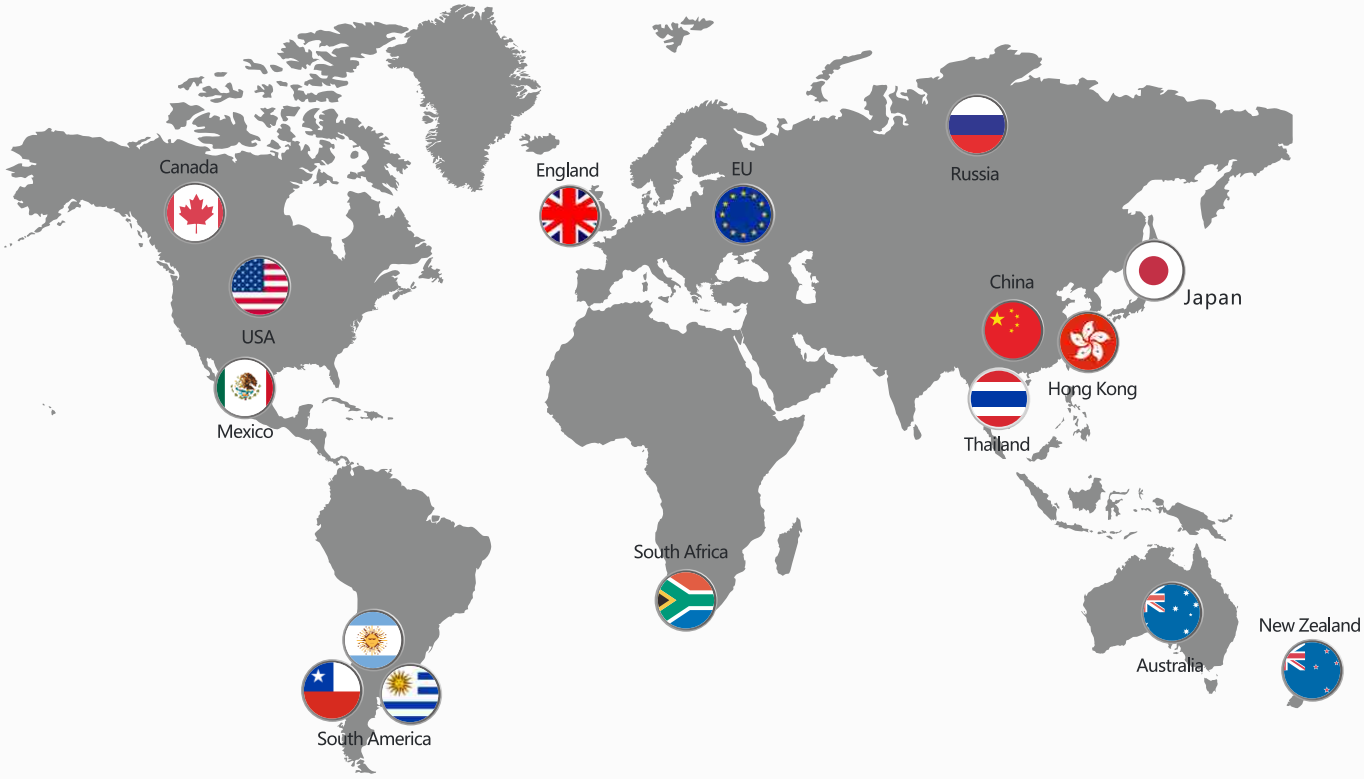


The Nanolux Technology team brings over 40 years of experience in the Hydroponic and horticultural industry.
Offering you the best in lighting technology for every application.

# PRODUCT CATALOGUE

## 01
## LED


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| ZX Series | 04 |
| EX Series | 05 |
| PAD Series | 06 |
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01

# LED's


- SN Series 03
- ZX Series 04
- EX Series 05
- PAD Series 06
- TOP Series 07
- PGF 18 09

## The Nanolux SN PRO Series comes with different spectrum combinations (UV & IR) users can individually select throughout the different stages of plant growth.

UV facilitates photosynthesis, IR facilitates plant flowering

TVS chip enhances circuit protection, anti-static interference

| Product Model | LED SN830 Pro |
|---|---|
| Input Power | 830W |
| Light Bars | 8 bars |
| Efficiency | 2.9 μmol/J |
| Light Output PPF | 2410 μmol/s |
| Dimming | NCCS-RTU,NCCS-0-10V,Manual control |
| Input Voltage | AC 120V-277V |
| Mounting Height | 8"- 24"(20-60cm) |
| Power Factor | ≥0.97 |
| Total Harmonic Distortion | < 15% |
| Lifetime L90 | ≥50,000hrs |
| IP Rating | IP65 |
| Product Dimensions | 1135x1110x60mm |
| Product Weight | 10.2kg |
| Packing Dimensions | 1160x140x620mm |
| Gross Weight | 13.3kg |
| Loading Quantity | 20GP: 294 Cartons 40HQ: 692 Cartons |
| Warranty | 5 years |

Support 630W/720W/1000W customized

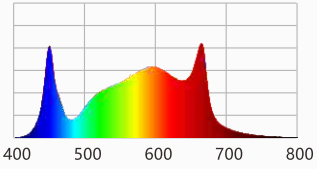
630W

720W/830W

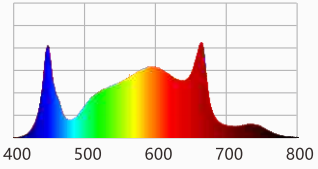
1000W

## SQD SPECTRA

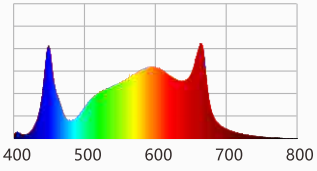
Full Spectrum GRAPH



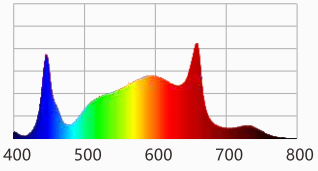

Full Spectrum + IR GRAPH




Full Spectrum + UV GRAPH




Full Spectrum + UV + IR GRAPH



The LEDzx features digital control buttons for smart digital dimming. Various dimming ranges of 105W, 210W, 315W, 420W, 525W, and 630W. The folding design facilitates transportation and saves on shipping and storage costs.

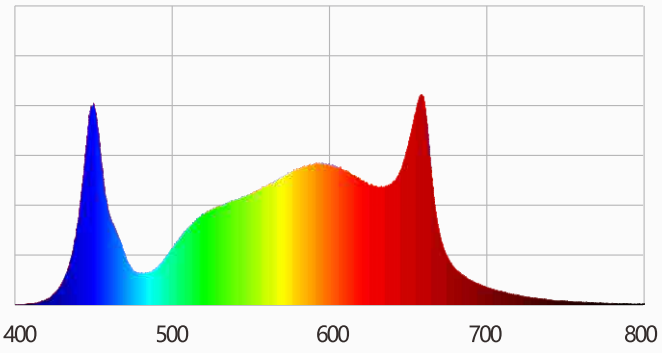
- NANOLUX basic LED model, unique button dimming design, more convenient and precise dimming

| Product Model | LEDzx F630 |
|---|---|
| Input Power | 630W |
| Light Bars | 6 bars |
| Efficiency | 2.7 μmol/J |
| Light Output PPF | 1700 μmol/s |
| Dimming | NCCS-RTU,NCCS-0-10V,Manual control |
| Input Voltage | AC 120V-277V/200V-480V |
| Mounting Height | 8"- 24"(20-60cm) |
| Power Factor | ≥0.97 |
| Total Harmonic Distortion | ≤ 15% |
| Lifetime L90 | ≥50,000hrs |
| IP Rating | IP65 |
| Product Dimensions | 1200x1150x60mm |
| Product Weight | 8.8kg |
| Packing Dimensions | 1215x590x95mm |
| Gross Weight | 11.9kg |
| Loading Quantity | 20GP: 325 Cartons<br>40HQ:780 Cartons |
| Warranty | 5 years |

Support 630W/720W/830W/1000W/1200W customized

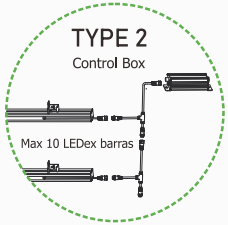
## SQD SPECTRA

Spectrum GRAPH



Nanolux has designed five different bars with five different specific light frequency outputs. Full white, Blue, Blue/Red, Red and UV. This allows the user to mix white light with specific frequencies to aid in vegetative and flower growth.

- Support single use and 110W ~ 2200W combination 120V-277V ultra wide range voltage suitable for use in various applications



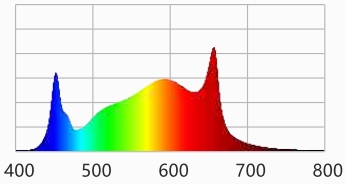

| Product Model | LEDex F110 |
|---|---|
| Input Voltage | AC120V/208V/240V/277V |
| Total UMOL Output | 299.8µmol/s |
| Efficiency | 2.70~2.75µmol/J |
| Spectrum | Full Spectrum White |
| Light Distribution Angle | 120° |

| Product Model | LEDex B110 | LEDex R/B110 |
|---|---|---|
| Input Voltage | AC120V/208V/240V/277V | |
| Total UMOL Output | 297.5µmol/s | 286.3µmol/s |
| Efficiency | 2.70~2.75µmol/J | 2.60-2.65µmol/J |
| Spectrum | Blue(450nm) | Red(660nm)/Blue(450nm) |
| Light Distribution Angle | 120° | |

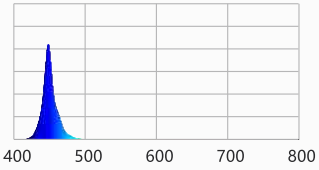
| Product Model | LEDex R/B110 | LEDex UV55 |
|---|---|---|
| Input Voltage | AC120V/208V/240V/277V | |
| Total UMOL Output | 269.5µmol/s | |
| Efficiency | 2.45~2.50µmol/J | 500mW/J |
| Spectrum | Red(660nm/730nm) | LED 55W UV Bar |
| Light Distribution Angle | 120° | |

## SQD SPECTRA

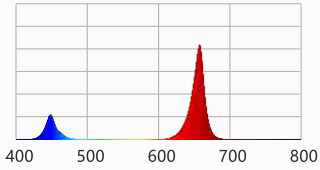
Spectrum White GRAPH



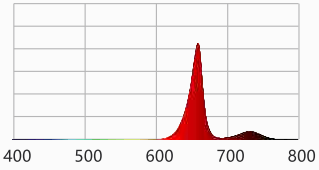

Spectrum Blue GRAPH



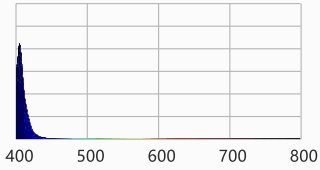

Spectrum Red & Blue GRAPH




Spectrum Red GRAPH




Spectrum UV GRAPH



# LED PAD Series

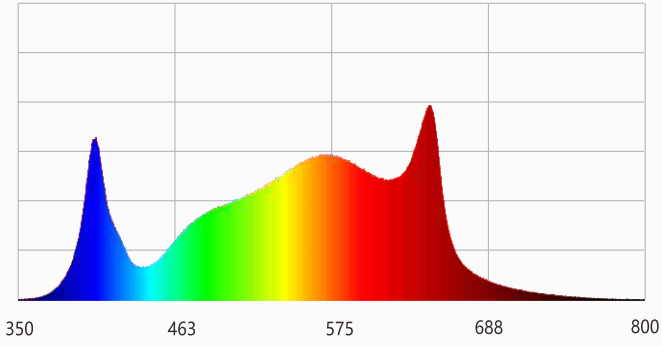
The Nanolux PAD series is a unique panel design that will eliminate light overflow. The PAD series comes in a 720W 2-fold design and a 1200W 4-fold design and operates at a low voltage rate of 56V. With a thickness of only 14mm and unique folding design, shipping costs are greatly reduced with the PAD series.

- Air sterilization by Osram UVC, Will help fight diseases and pest infestation and will aid in reduced pesticide use.
- Unique light board design, utilization rate of light sources increased by 14%, and the illumination uniformity as high as 95%

| Product Model | LED PAD720 | LED PAD1200 |
|---|---|---|
| Input Power | 720W | 1200W |
| Efficiency | 2.9 μmol/J | |
| Light Output PPF | 2090 μmol/s | 2900 μmol/s |
| Dimming | NCCS-RTU,NCCS-0-10V,Manual control | |
| Input Voltage | AC 120V-277V | |
| Input Frequency | 50/60Hz | |
| Mounting Height | 8"- 24"(20-60cm) | |
| Power Factor | ≥0.97 | |
| Total Harmonic Distortion | < 15% | |
| Lifetime L90 | ≥50,000hrs | |
| IP Rating | IP65 | |
| Product Dimensions | 1120x1106x48mm | 2200x1140x48mm |
| Product Weight | 11.7kg | 19.1kg |
| Packing Dimensions | 1160x640x130mm | 1190x663x215mm |
| Gross Weight | 15.2kg | 26.4kg |
| Loading Quantity | 20GP: 306 Cartons<br>40HQ: 684 Cartons | 20GP: 163 Cartons<br>40HQ: 390 Cartons |
| Warranty | 5 years | |

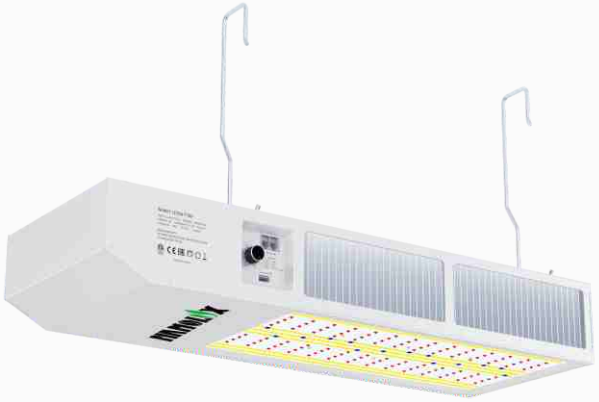
## SQD SPECTRA

Full Spectrum GRAPH



The Nanolux F760 is similar in size to that of a traditional HID fixture and can be a 1:1 replacement in that space. The efficiency of the LED 760W is equivalent to a HID 1000W fixture.

- standby power consumption reduced by 80%

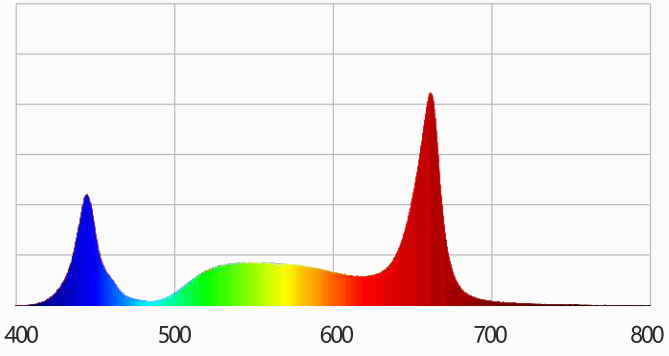


| Product Model | LED TB F760 |
|---|---|
| Input Power | 760W |
| Efficiency | 2.9 μmol/J |
| Light Output PPF | 2210 μmol/s |
| Dimming | NCCS RTU,0-10V Control Manual |
| Input Voltage | AC 120V-277V/200V-480V |
| Mounting Height | >30" (80cm) above canopy |
| Power Factor | ≥0.97 |
| Total Harmonic Distortion | < 15% |
| Lifetime L90 | ≥50,000hrs |
| IP Rating | IP65 |
| Product Dimensions | 700x245x100mm |
| Product Weight | 12.2kg |
| Packing Dimensions | 745x330x150mm |
| Gross Weight | 14.5kg |
| Loading Quantity | 20GP: 640 Cartons 40HQ: 1650 Cartons |
| Warranty | 5 years |

Support 1200W customized

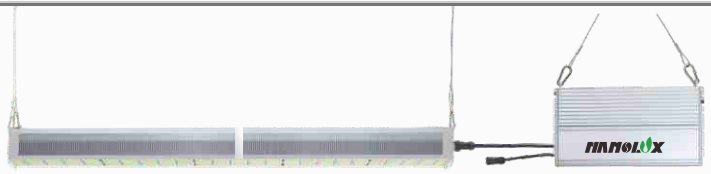
## SQD SPECTRA

Spectrum GRAPH



## Nanolux LED Top lighting linear 630W is the best solution for full- cycle top lighting, which will not block the sunlight for plants in the greenhouse, maximizing PPF from sunlight. Now two or more spectrums are available to choose from.

- Two different spectrums optional, applicable for indoor&greenhouse working environment
- New pattern design, reduce shielded area of sunlight in the greenhouse




630W

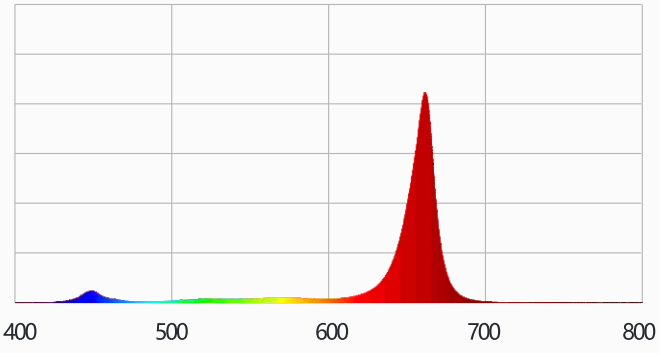
315W

| Product Model | LED TB F630 |
|---|---|
| Input Power | 630W |
| Efficiency | 2.9 μmol/J |
| Light Output PPF | 1800 μmol/s |
| Dimming | OFF/NCCS/0-10V compatible,20%-100% |
| Input Voltage | AC 120V-277V/200V-480V |
| Mounting Height | >30" (80cm) above canopy |
| Operating Temperature | 0°C~35°C |
| Operating Humidity | 0~95% |
| Power Factor | ≥0.97 |
| Total Harmonic Distortion | < 15% |
| Lifetime L90 | ≥50,000hrs |
| IP Rating | IP65 |
| Product Dimensions | 1180x100x80mm |
| Product Weight | 6.5kg |
| Packing Dimensions | 1225x225x105mm/2PCS |
| Gross Weight | 14.1kg |
| Loading Quantity | 20GP:1300Cartons 40HQ:3420Cartons |
| Warranty | 5 years |

Support 315W customized

## SQD SPECTRA

Spectrum GRAPH



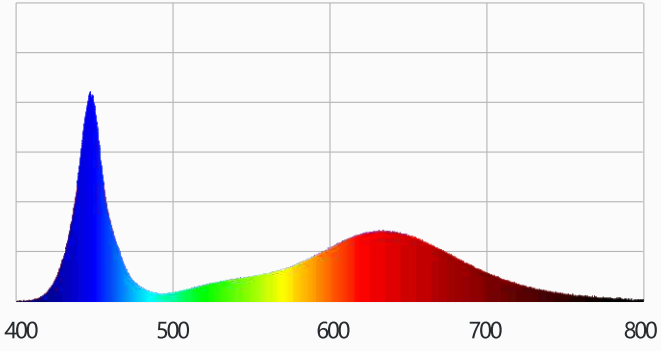
## The Nanolux 18w Clone LED (Twin Pack) is the perfect replacement for a T5 fluorescent light fixture. Nanolux's LED Clone bars deliver a superior spectrum that is specially tailored to promote quicker rooting and overall plant health.

- Each 18W (0.15A on 120V) daisy chain, up to 25 bars on 3.75A circuit
- Verified red and blue spectrum is applicable for vertical planting and use of seedlings

| Product Model | LED T8 BAR |
|---|---|
| Input Power | 18W |
| Efficiency | 2.2 μmol/J |
| Light Output PPF | 40 μmol/s |
| Dimming | NO |
| Input Voltage | AC 120V-277V |
| Operating Temperature | 0°C~35°C |
| Power Factor | ≥0.97 |
| Total Harmonic Distortion | < 15% |
| Lifetime L90 | ≥50,000hrs |
| IP Rating | IP65 |
| Product Dimensions | 1195x32x32mm |
| Product Weight | 0.35kg |
| Packing Dimensions | 1280x275x200mm/12 PCS |
| Gross Weight | 5.8kg |
| Loading Quantity | 20GP: 374 Cartons 40HQ: 912 Cartons |
| Warranty | 3 years |

## SQD SPECTRA

Spectrum GRAPH



02

# HID


- SUMMIT Series 11
- OG 1000W 13
- LAMPS 14

# SUMMIT Series

The Summit Series ballast can operate a range of lamp styles and wattages with the correct lamp voltage, operation frequency and strike voltage. The Summit Series fixture can operate all dual end HPS, MH and CMH lamps from 600W to 1000W. That's a total of 14 different lamps. The Summit Series also operates between 208 – 277 volts allowing the fixture to be in any commercial voltage application.

| Product Model | Summit 1000W | |
|---|---|---|
| Input Power | 1000W | |
| Light Output PPF | 2100 μmol/s | |
| Input Voltage | AC 208V/240V/277V | |
| Output Voltage | 90V-280V | |
| Bulb | DE | |
| Dimming | CMH630W\CMH1000W:75%-100%,<br>**NOTE if you use this lamp and selecl Suoer-Lux,<br>it will default back to 100%;<br>HPS/MH 600W/1000W:50%-100%,Super-Lux=110%. | |
| Input Frequency (Hz) | 50/60 | |
| Input Power | CMH630W: 473W-630W | CMH1000W: 750W-1000W |
| | HPS/MH600W: 300W-660W | HPS/MH1000W: 500W-1100W |
| Power Factor | ≥0.97 | |
| Max Current Draw | CMH630W: 3.2A | CMH1000W: 5.1A |
| | HPS/MH600W: 3.4A | HPS/MH1000W: 5.6A |
| Strike Lamp | NanoluxDEHPS/MH600W/1000W,CMH630W/1000WLamp | |
| Protection Function | Over Temperature Protection; Under Voltage Protection;<br>Open/Short Circuit Protection | |
| Warranty | Free replacement within 3 years for ballast | |

Support 380V/400V HPS/MH customized

## SUMMIT LAMPS

DE-HPS 1000W

DE-HPS 600W

DE-MH 1000W 4K 6K

DE-MH 600W 4K 6K

DE-CMH 1000W 3K 4K

DE-CMH 630W 3K 4K

## Summit Ballast

## Arms

## Reflectors

## Bulbs

With a wide variety of reflectors and bulbs to choose from, you will be able to give your plants the spectrum of your choosing.

**Operates all DE & SE lamps between 600W & 1000W(HPS/MH/CMH)**

**4 lamps Selection functions**
**1000W HPS/MH**
**1000W CMH**
**630W CMH**
**600W HPS/MH**

**DE-HPS/MH/CMH ARM**

**OPTIMIZED CMH REFLECTOR**

**DE-SQUARE**

**OPEN EPAP STYLE**

**REF-OPTILUX**

**OTHERS COMING**

**DE-CMH 1000W-3K/4K**

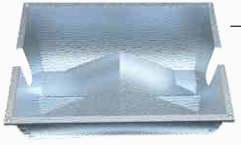
**DE-CMH 630W-3K/4K**

**DE-HPS 600/1000W-2K**

**DE-MH 600/1000W-4K/6K/10K**

**CMH315Wx2 ARM**

**OPTIMIZED CMH REFLECTOR**



**CMH 315W (x2)-3K/4K**

# DE OG Summit 1000W

The Nanolux DE OG Summit Series offers consumers a vast array of options when it comes to the type of lighting you can use on your plants. Unlike the standard DE 1000W, the OG DE1000W is fan-cooled and is also compatible with any industry DE MH, CMH or HPS lamp. 14 different lamps in total.

- Heat dissipation by fan, minimize indoor temperature
- Industrial-grade ceramic lamp holder replace plastic lamp holder
- Compatible with HPS/MH/CMH bulb at the same time

| Product Model | DE-OG |
|---|---|
| Input Power | 1000W |
| Light Output PPF | 2100 µmol/s |
| Input Voltage | AC 120-240V |
| Input Current (A) | 9.4-4.7 |
| Bulb | DE |
| Dimming | 315W/ EXT NCCS-RTU/0-10V |
| Power Factor | ≥0.99 |
| Total Harmonic Distortion | ≤10% |
| CF | ≤1.7 |
| Input Frequency (Hz) | 50/60 |
| Product Dimensions | 455x336x136mm |
| Product Weight | 5.3kg |
| Packing Dimensions | 542x378x420mm / 2PCS |
| Gross Weight | 13.3kg |
| Loading Quantity | 20GP: 285 Cartons 40HQ: 738 Cartons |
| Warranty | Free replacement within 3 years for ballast |

## OG SUMMIT LAMPS

DE-HPS 1000W

DE-HPS 600W

DE-MH 1000W 4K 6K

DE-MH 600W 4K 6K

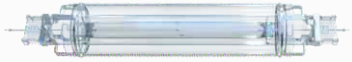
DE-CMH 1000W 3K 4K

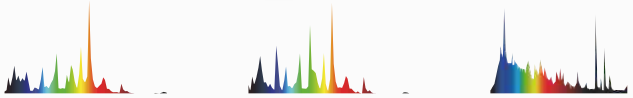
DE-CMH 630W 3K 4K

# LAMPS

Nanolux lamps are specifically designed for use in horticulture and every lamp is lab tested to ensure quality before being distributed to for use.

## DE-MH 1000W 4K, 6K & 10K



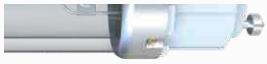


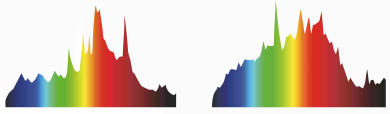
DE-MH 1000W 4K | DE-MH 1000W 6K | DE-MH 1000W 10K

## DE-MH 600W 4K & 6K

DE-MH 600W 4K | DE-MH 600W 6K

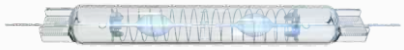
## DE-CMH 315W 3K & 4K

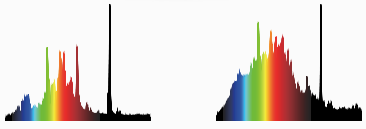




CMH 315 3K | CMH 315 4K

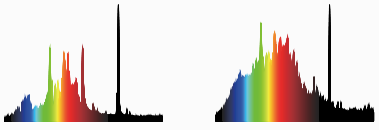
## DE-CMH 1000W 3K & 4K





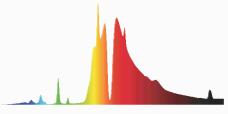
DE-CMH 1000W 3K | DE-CMH 1000W 4K

## DE-CMH 630W 3K & 4K



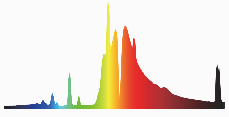
DE-CMH 630W 3K | DE-CMH 630W 4K

## SE-DE 400V 2100 µmol



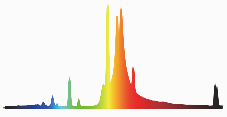
DE-400V 2100W

## DE-HPS 1000W 2K



DE-HPS 1000W 2K

## DE-HPS 600W 2K



DE-HPS 600W 2K

03

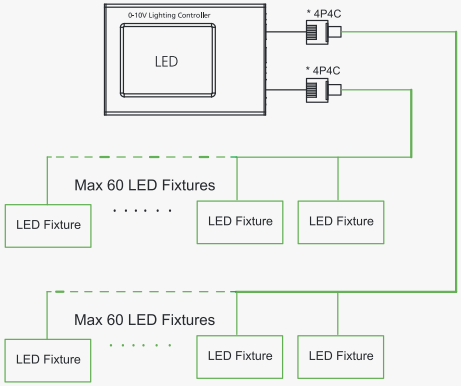
# ACCESSORIES

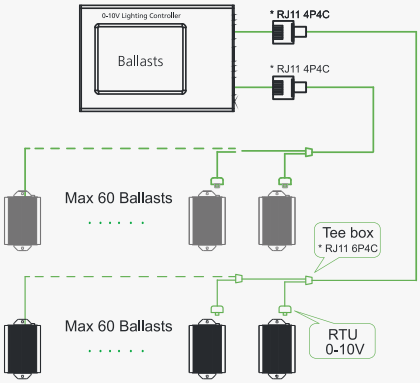

- SLC Controller 16
- DTU Controller 17

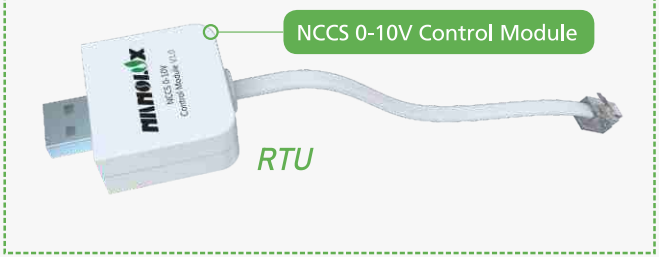
# SLC Controller

The Nanolux Smart Lighting Controller is designed to provide wired control to two lighting groups in a greenhouse. You can control up to 60 lights per group. This unit operates on a 24-hour time cycle and has the ability to simulate the sunrise and sunset cycle from 10-60 minutes.

- Room overheat protection
- LCD touchscreen



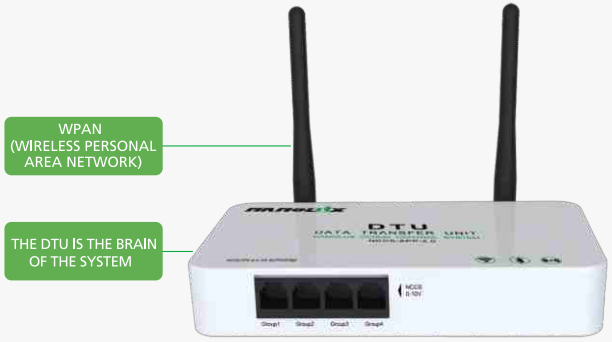


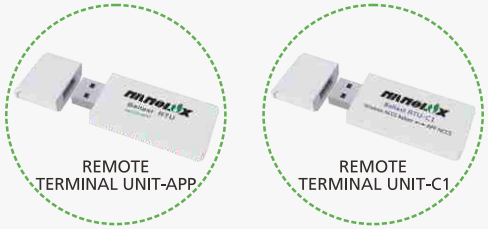



# DTU Controller

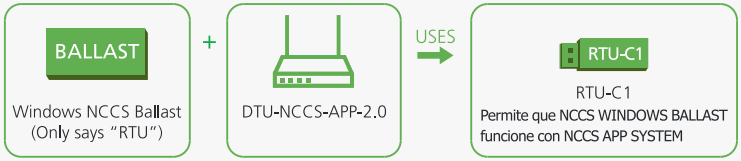
Control your grow room from anywhere in the world on your Smart Phone or Tablet. The first of its kind; the NCCS is an "all-in-one" application that will continually grow as your needs do. No longer do you have to constantly walk through the grow room and take readings from several different controllers. Simply open your phone APP to monitor or adjust settings depending on your plant's needs.

- Will control up to 120 fixtures, 60 fixtures per group
- Simulate 10-60 minutes of sunrise and sunset cycle
- Room overheat protection

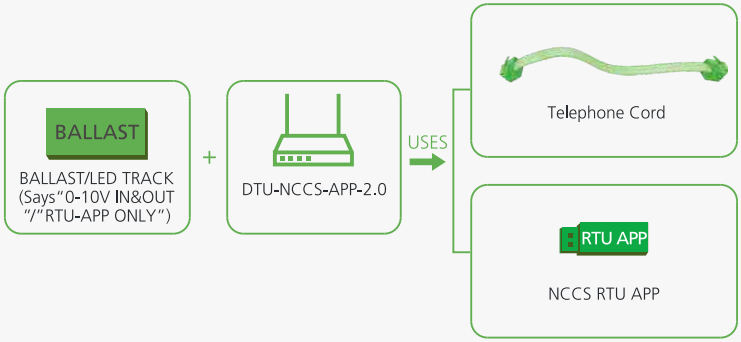


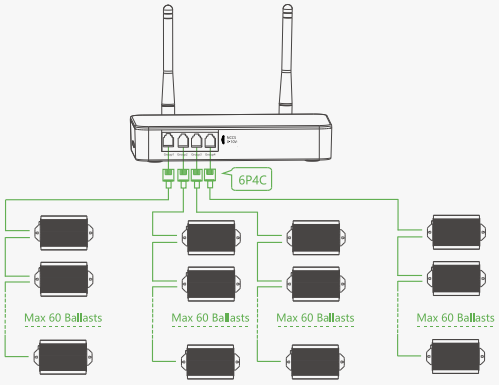




## Windows NCCS Ballast <> NCCS APP




## 0-10V Ballast/LED Track <> APP NCCS



# 04

# Feature Guide


- Application 19
- Comparison Chart 20

Location: USA
Item: Lettuce project

Location: Russia
Item: Cucumber Project

Location: Russia
Item: Lettuce project

Location: France
Item: Lettuce project

Location: Spain
Item: Tomato Project

Location: Italy
Item: Rose Bower Project

Location: China
Item: Rose project

Location: China
Item: Lettuce project

Location: China
Item: Ginger Lotus project

# Comparison Chart



| | LED SN Series | LED ZX Series | LED EX Series | LED PAD Series | LED TOP 760 | LED TOP 630 | LED PGF 18 |
|---|---|---|---|---|---|---|---|
| Wattage | 630W-1000W | 630W | 110W | 720W-1200W | 760W | 630W | 18W |
| Voltage | AC 120V-277V | AC 120V-277V | AC 120V-277V | AC 120V-277V | AC 120V-277V | AC 120V-277V | AC 120V-277V |
| Canopy Coverage - Single Fixture | 5x5 | 5x5 | 4x4 | 4x4 & 5x5 | 5x5 | 4x4 | 2x4 |
| Coverage w/ Multiple Fixtures | 5x5 | 5x5 | 5x5 | 4x4 & 5x5 | 5x5 | 4x4 | 2x4 |
| Cloning | | | | | | | ● |
| Vegetative | ● | ● | ● | ● | ● | ● | |
| Flowering | ● | ● | ● | ● | ● | ● | |
| Full Cycle | ● | ● | ● | ● | ● | ● | |
| High Bay | ● | ● | | ● | ● | ● | |
| Low Clearance | ● | ● | | | | | ● |
| Dimmable | ● | ● | ● | ● | ● | ● | |
| Greenhouse | | | ● | | ● | ● | |
| Tent | | | | | | | ● |
| Controllable | ● | ● | ● | ● | ● | ● | ● |
| Energy Savings | ● | ● | | | ● | ● | ● |