

! MAINTENANCE

There are no serviceable parts inside the luminaire. Opening the luminaire will void warranty. Keep housing clean from dust and dirt with a dry or damp cloth to ensure optimal cooling. When using a damp cloth disconnect from the power first. Check your electrical connections regularly.

WARRANTY

Nanolux Technology warrants the mechanical and electronic components of this product to be free of defects in material and workmanship if used under normal operating conditions for a period of three (3) years from the original date of purchase. If the product shows any defects within this period and that defect is not due to user error or improper use, Nanolux Technology shall, at its discretion, either replace or repair the product using suitably new or refurbished parts. For Nanolux DE HPS lamps and reflector the warranty period is one (1) year from the original date of purchase. In case Nanolux decides to replace the entire product, this limited warranty shall apply to the replacement ballast for the remaining initial warranty period, i.e. three (3) years from the date of purchase of the original product. For service return the ballast to your shop with the **original sales receipt**.

For more information about Nanolux product please visit nanoluxtech.com

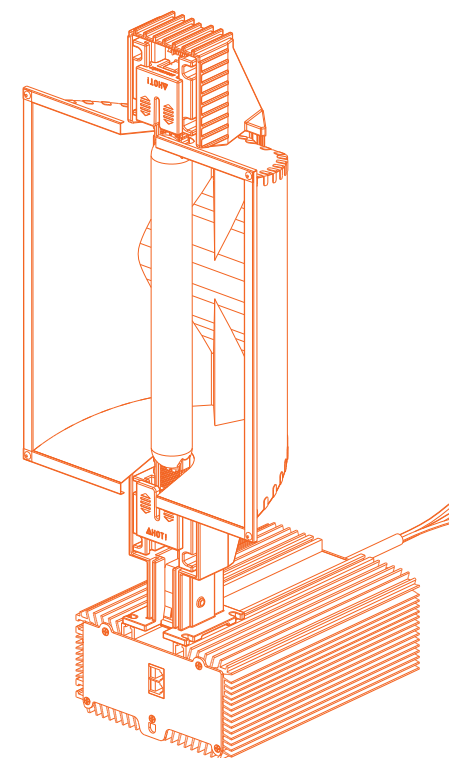
OPERATING MANUAL

DIGITAL ELECTRONIC BALLAST

SUPER DE 1000W

DOUBLE ENDED FIXTURE

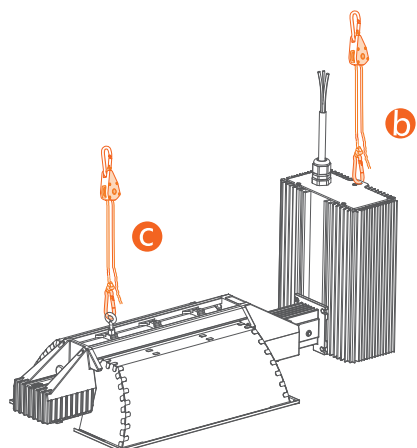
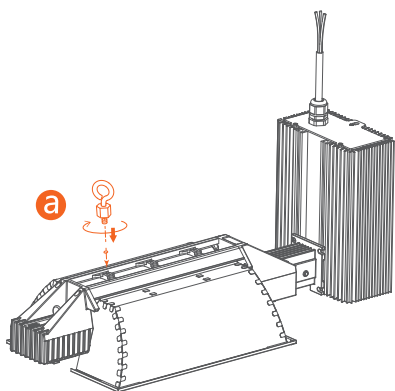
NCCS-0-10V



FIXTURE HANGING

Fixture hanging equipment included with unit for necessary mounting.

1. Attach the ring bolt to the reflector support frame (a).
2. Attach the carbiners on the steel wire hanger to ballast hanging holes (b).
3. Hang the fixture in the desired locations (c).



PATENTED PRODUCTS, COUNTERFEITING NOT ALLOWED.

Designed by NANOLUX in California
Made in China

NANOLUX ^{DE}
www.nanoluxtech.com
Illuminating Your Grow

BEFORE INSTALLATION, PLEASE READ THESE INSTRUCTIONS FIRST.

Congratulations on the purchase of your new Nanolux DE FIXTURE 1000W luminaire. We have done everything to ensure a long life and safe operation of your new product, but the installation and use of the ballast is at the responsibility of the user. Incorrect use or installation can lead to failure and damage to the ballast. Damage to the luminaire and electronic circuitry as a result of incorrect installation or use revokes your warranty. Read this manual carefully before installing your luminaire.

TECHNICAL SPECIFICATIONS

Model	1000W
Input Voltage	AC480V
Output Voltage	200V-300V
Input Frequency	50/60Hz
Output Power	MAX 1100W
Power Factor	≥0.97
Crest Factor	≤1.7
THD	≤10%
Dimming	NCCS-0-10V
Strike Lamp	Double Ended Lamp
Output Frequency	100KHz-200KHz
Protection Function	Over Temperature Protection; Under Voltage Protection; Open/Short Circuit Protection;
Size (L*W*H)	590*240*242 mm 23.2*9.4*9.5 inch
Weight	5.2 kgs 11.5 lbs

INSTALLATION
COMPLY WITH LOCAL INSTALLATION REGULATIONS

These luminaires are suitable for damp indoor locations. Do not install your luminaires in a wet environment or outdoors. Do not operate these luminaires close to combustible materials. The lamp and reflector will get hot during operation. Do not touch the reflector or lamp during or right after operation. Make sure the power cord does not touch any hot part of the luminaire. Make sure the lamp is clean and inserted correctly. A normal operating environment temperature should be below 35°C (95°F). Exceeding the maximum environmental temperature will stress electronic components, which will lead to shorter lifetime and decreased reliability.

NCCS-0-10V DIMMING

This model is compatible with NCCS-0-10V protocol control. Insert telephone wire into the jack of the NCCS-0-10V protocol control, and then Dimming function on the luminaire will be enabled.

- Maximum of 120 ballasts can be controlled.
- Simulate sunrise and sunset for dimming.
- Turn off the device automatically with time and temperature setting.

In & Out jacks included on the ballast allows for multifixtures connected in parallel.

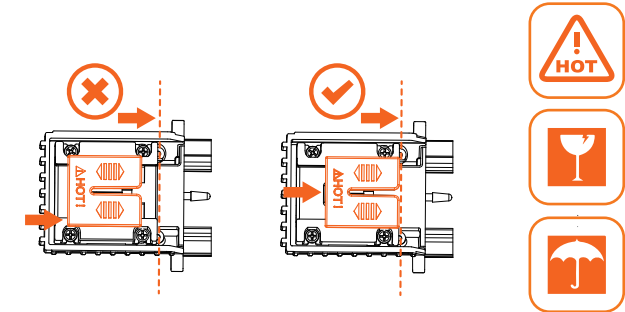
CAUTION: After installation, verify installation was a success by cycling the lights on/off a few times, by setting 'over temperature shut down' to a low value like 85°F, and rubbing the temperature probe with your fingers, tricking the NCCS-0-10V protocol control into an over temperature condition and shutting the lights off. Then leave the probe alone, and after recommended 10-15 minutes NCCS-0-10V protocol control should turn all the lights back on.

For detailed instructions, please refer to NCCS-0-10V protocol control operating manual.

LAMP REPLACEMENT AND HOT RESTRIKE

CAUTION:

- Always install the lamp before connecting your luminaire to mains.
- Allow lamp to cool 30 minutes before restarting (hot restrike).
- When changing the lamp always disconnect the luminaire from mains by removing the mains plug. Let the lamp and reflector cool down for 30 minutes before changing as they are very hot. When replacing a defect lamp without disconnecting mains the lamp will not start. Disconnecting the power will restart the ballast.
- DO NOT touch hot Ceramic socket.
- Make sure the DE lamp wires are correctly within the sockets copper wire clamps.
- Make sure to fully close the ceramic socket to the correct position and keep the socket clean to provide proper function.
- Fragile !! Be careful and do not exert excessive force while moving the ceramic slider on the ceramic socket connection.
- Keep away from water.

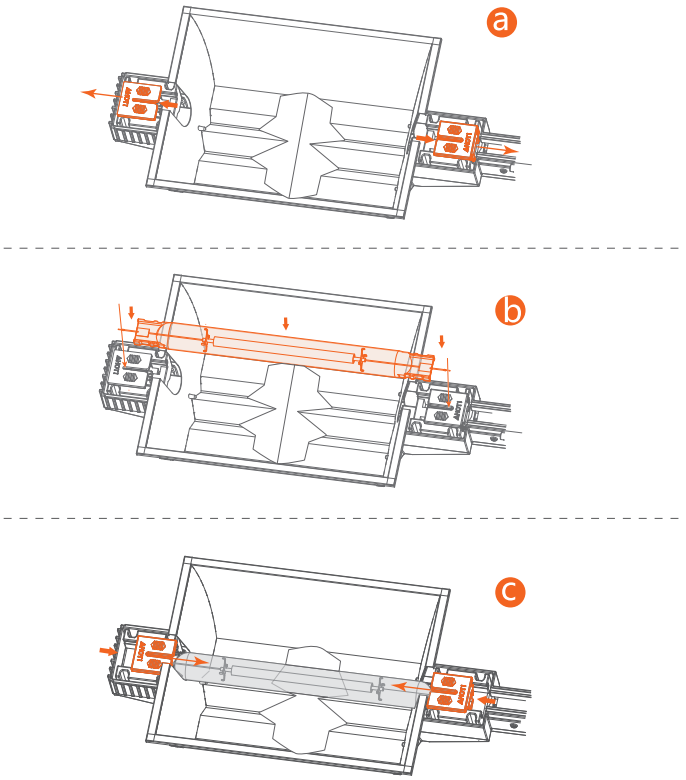


TO TAKE OUT A LAMP:

- DISCONNECT THE MAINS FIRST
- Open the lamp holders by sliding them outward. The lamp is held by a metal spring at each side. It is recommended to hold the lamp while opening the lamp holders to prevent the lamp from falling.

TO INSTALL A NEW LAMP:

- DISCONNECT FROM MAINS FIRST
- Make sure the lamp is clean, wear cotton gloves and clean the lamp after installation with a dry soft cloth. Never use detergents to clean a lamp, use pure alcohol or wipe clean with a dry clean soft cloth.
- Make sure the end wires are straight.
- Open the lamp holders by sliding them outward. Press the lamp in the fitting until the metal springs hold the lamp, with the glass vacuum seal pointed downward.
- Close the lamp holders by sliding them inward.
- Wipe the lamp with a clean soft cloth.
- Be sure not to touch the reflective material of the reflector with your bare hands.



NOTICE: Reflectors are made from a high grade pure aluminum, which will oxidize and degrade over time. This results in lower reflectivity and reduced efficiency, and over 10% light loss at the canopy. It is recommended that you mark the installation date on the outside of reflector with a permanent marker, and replace reflectors once a year.

SUITABLE LAMPS

The Nanolux Double Ended 1000W luminaires are designed and tested to drive HPS & MH Electronic lamps. Using Single Ended 1000W HPS & MH Electronic lamps can cause damage to your ballast and lamp.

REFLECTOR REPLACEMENT

The Nanolux DE fixture should be handled with care. If it is damaged or deformed you should replace it. We recommend to change the reflector every year for optimal results. Replacement reflectors are available through your Nanolux Technology reseller.

To replace the reflector, you must remove the lamp first as described above in how to install the lamp. Let the reflector cool down if it has been operating to prevent an injury. At the end of the reflector bracket, you will find a chrome knob. Pull the knob outward to release the pin holding the reflector in place (a-1). The reflector can then be pulled away from the ballast end of the bracket to remove it from the two pins holding it in place (a-2 & a-3). When inserting the new reflector, slide it into the two pins (a-2 & a-3) and then release the pin (a-1) to secure it in place.