

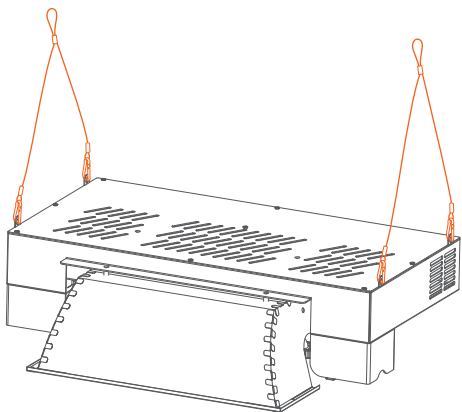
? SUITABLE LAMPS

The Nanolux DE 1000W and 600W ballasts are designed and tested to drive Double Ended High Pressure Sodium or Metal Halide (HPS & MH) lamps. Using regular 1000W and 600W HPS/MH lamps can cause damage to your ballast and lamp.

FIXTURE HANGING

Fixture hanging equipment included with unit for necessary mounting.

1. Attach the ring bolt to the reflector support frame.
2. Hang the fixture in the desired location.



! 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 suitable 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**.

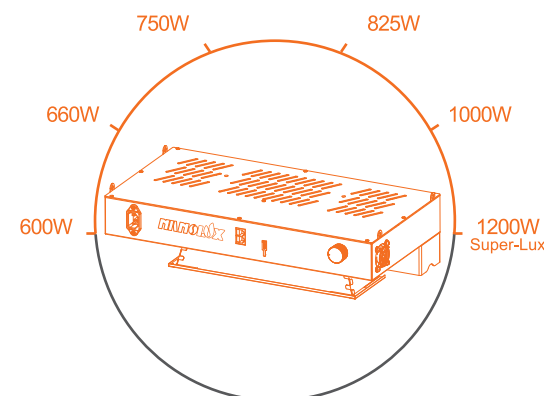
For more information about Nanolux product please visit nanoluxtech.com

OPERATING MANUAL

DIGITAL ELECTRONIC BALLAST

**SUPER DE 1000W/600W
DOUBLE ENDED FIXTURE**

NCCS APP & SMART LIGHTING
CONTROLLER COMPATIBLE



ADJUSTABLE
POWER+
SOFT DIM



PATENTED PRODUCTS, COUNTERFEITING NOT ALLOWED.

Designed by NANOLUX in California
Made in China

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

PLEASE READ THESE INSTRUCTIONS FIRST BEFORE INSTALLATION

Congratulations on the purchase of your new Nanolux DE FIXTURE 1000W and 600W luminaire. We have done everything to insure a long life and safe operations, but the installations and use of the ballast is the responsibility of the user. Incorrect use or installations can lead to failure and damage to the ballast. Damage to the luminaire and electronic circuitry as a result of incorrect installations and use revokes your warranty. Read this manual carefully before installing your luminaire.

TECHNICAL SPECIFICATIONS

Model	1000W	600W
Input Voltage	120V-208V-240V	
Output Voltage	200V-300V	70V-150V
Input Frequency	50/60Hz	50/60Hz
Output Power	1200W Max	660W Max
Power Factor	≥0.99	≥0.99
Crest Factor	≤1.7	≤1.7
THD	≤10%	≤10%
Dimming	600W-660W-750W-825W-1000W ~1200W(Super-Lux)	300W-450W-600W ~660W(Super-Lux)
Strike Lamp	Double Ended Lamp	Double Ended Lamp
Protection Function	Over Temperature Protection; Over/Under Voltage Protection; Open/Short Circuit Protection;	
Size (L*W*H)	455*336*136mm 17.9*13.2*5.4inch	455*336*136mm 17.9*13.2*5.4inch
Weight	5.3 kgs 11.7 lbs	5.3 kgs 11.7 lbs

INSTALLATION COMPLY WITH LOCAL INSTALLATION REGULATIONS

These luminaires are suitable for a damp indoor location. 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 122°F. Exceeding the maximum environmental temperature will trigger over temperature protection, which will lead to shorter lifetime and decreased reliability.

DIMMING FUNCTIONS

DE Fixture 1000W and 600W are compatible with smart lighting controller and NCCS RTU.

Both of these works fine and users can select either SLC or RTU to turn off /on your luminaries automatically, but the problem is that users cannot have them both insert into the USB port of a ballast at the same time, only one unit will control the ballast.

When using a NCCS RTU in the USB port of a Nanolux ballast, the Dimming function control dial on the ballast will be taken out of function.

RTU is removed from the ballast during operation OR the RTU loses communication with the DTU for any reason, the ballast will automatically turn off after 10 minutes. The ballast has to be unplugged from the power source and turned back on to reset. The ballast will then run in regular mode (no NCCS) or if a RTU is plugged in, it will operate in NCCS mode. If the ballast continues

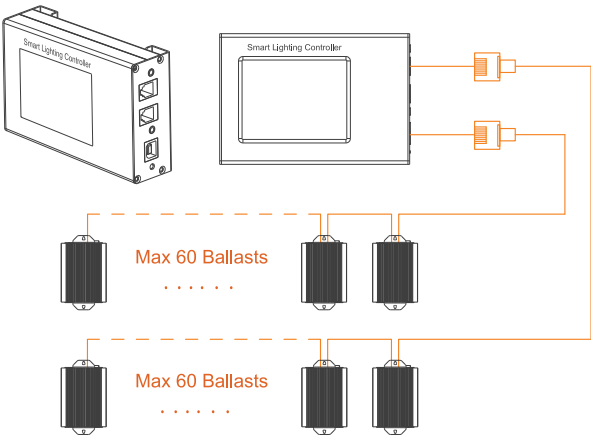
to turn off for any reason during operation with the RTU in NCCS mode, replace the RTU and confirm it is communicating with the DTU. For further NCCS APP customer support and tech support pages, visit www.nanoluxtech.com.

When applied with Smart Lighting Controller, the Dimming function will be enabled inserting 0-10V module into the USB port of a Nanolux ballast. If SLC is disturbed by errors, especially short-circuit, when powering in again, the ballast will turn back but SLC fails to control.

MORE ADVANTAGES FOR SMART LIGHTING CONTROLLER

- Operating more secure and easily with touch screen.
- Maxium of 120 ballasts can be controlled.
- Smart dimming has a function similar to sunlight.
- Turn off the device automatically with time and temperature setting.

This model is compatible with SLC controller. SLC controller is welcomed to use. For detailed instructions, please refer to SLC controller manual .



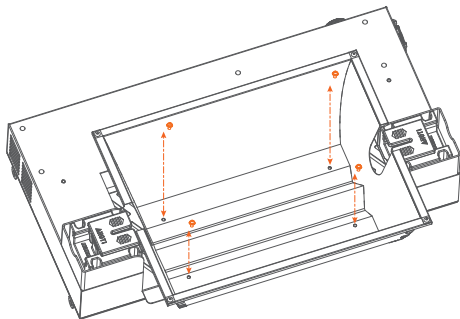
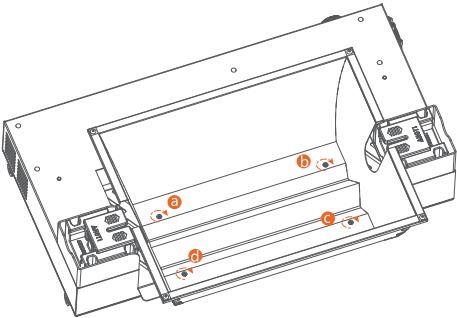
REFLECTOR REPLACEMENT

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.

- Please wears cotton gloves before your replacement.
- 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.

TO REPLACE REFLECTOR:

- At the reflective material of the reflector, you will find four screws (a, b, c, d), unscrew them at first.
- The reflector can then be pulled away from the ballast to remove it from the four screws holding it in place (a, b, c, d).
- When inserting the new reflector, put it into the four holes (a, b, c, d) and then tighten the screw to secure it in place.

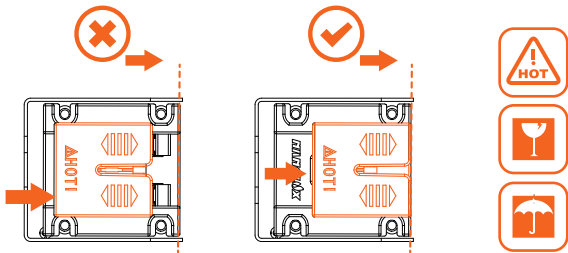


LAMP REPLACEMENT AND HOT RESTRIKE

CAUTION: [Warning symbols]

- 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 socket 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, though 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 whip 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.