

PLEASE READ THESE INSTRUCTIONS FIRST BEFORE INSTALLATION

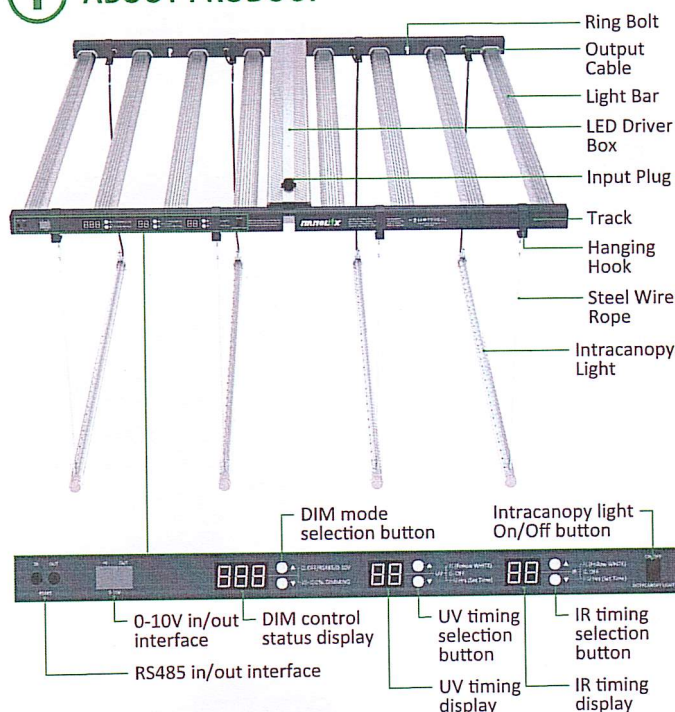
Welcome to purchase and use this new Nanolux LED luminaire. We have done everything to ensure a product of long lifespan and safe operation, but the installation and use of the product is at the responsibility of the user. Incorrect use or installation can lead to failure and damage to the luminaire. Damage to the luminaire or electronic circuitry as a result of incorrect installation or use will revoke your warranty. Read this manual carefully before installing your luminaire.

TECHNICAL SPECIFICATIONS

Model	LED SN860 Pro
Input Voltage	AC120-277V
Input Frequency	50/60Hz
Input Power	860W
Efficacy	2.9μmol/J (up) & Each bar 3.6μmol/J (down)
Light Output PPF	2500μmol/s (up) & Each bar 72μmol/s (down)
Spectrum	WHITE+UV+IR Spectrum (up) & Red+Blue (down)
Dimension	44.7x43.7x2.4inch/1135x1110x60mm (up) 45.7x1.1x1.1inch/1160x28x28mm (down)
Weight	23.1lbs/10.5kgs (up) & Each bar 0.75lbs/0.34kgs (down)
Dimming	Manual DIM 30%-100%, RS485/0-10V compatible
Light Distribution	120° (up) & 360° (down)
Lifetime L90	>50,000hrs

*Subject to change without notice, Tolerance ±10%.
Optional 2-4 intracavity lights for matching use.

ABOUT PRODUCT



UV Timing Switch Function	
Display	Local mode or Remote mode
FL	UV follows white output
0	UV off
1-12	UV off in 1-12 hours

IR Timing Switch Function	
Display	Local mode or Remote mode
FL	IR follows white output
0	IR off
1-12	IR off in 1-12 hours

DIM Function			
Display	Function Description	Product Output Function	Remote Output Function
0	Power off/ RS485/ 0-10V	The fixture is off when no RS485/0-10V dimming signal connects	When RS485/0-10V dimming signal is connected, the output is according to the dimming signal setting value
30	30% brightness	Create 30% brightness	/
40	40% brightness	Create 40% brightness	
50	50% brightness	Create 50% brightness	
60	60% brightness	Create 60% brightness	
70	70% brightness	Create 70% brightness	
80	80% brightness	Create 80% brightness	
90	90% brightness	Create 90% brightness	
100	100% brightness	Create 100% brightness	

Button Function Instructions:

1. DIM mode selection button function

▲ is to add, ▼ is to subtract, includes 0, 30, 40, 50, 60, 70, 80, 90, 100. Press button to add or subtract, cycle switching. When pressing button over 2 seconds, the mode will add or subtract each 0.3 seconds accordingly.

1) 0 stands for RS485/0-10V/OFF function

When there is an external control signal (RS485/0-10V), DIM dimming ratio will be dimmed according to the external control signal. DIM mode is displayed as 0 whether the external control signal is set to off or output. When no external control signal (RS485/0-10V) is connected, the fixture will shutdown itself. If no operation is performed, the DIM mode display changes to OFF after 3 seconds.

2) The numbers 30 to 100 indicate the fixture DIM dimming ratio. The dimming is carried out according to the fixture DIM dimming ratio, with no responding to external control.

2. UV timing selection button function

▲ is to add, ▼ is to subtract, timing options include 0, 1, 2, 3, 4, 5...12, FL (Follow White). Press button to add or subtract time, cycle switching. When pressing button over 2 seconds, the mode will add or subtract each 0.3 seconds accordingly.

1) When UV timing display shows FL, it indicates local/remote control mode. UV diode follow white diode, UV diode is on when white diode is on, UV diode is off when white diode is off.

2) When UV timing display shows 0, it means local/remote mode: UV off.

3) When UV timing display shows 1-12, it means local/remote mode: UV diode will be turned off after turning on 1~12 hours. UV timing time in hours, in the 24H cycle the longest timing is 12 hours. When the DIM dimming ratio is not 0, the UV diode will start timing according to the setting. After the time is up, the UV diode will be turned off. Every 24H, the UV diode will re-light according to the set UV timing hours. If you want to change the UV timing reference, please first set the UV to 0, and then reset the UV timing time. When the DIM dimming ratio is 0, the timing will stop.

3. IR timing selection button function

▲ is to add, ▼ is to subtract, timing options include 0, 1, 2, 3, 4, 5...12, FL (Follow White). Press button to add or subtract time, cycle switching. When pressing button over 2 seconds, the mode will add or subtract each 0.3 seconds accordingly.

1) When IR timing display shows FL, it indicates local/remote control mode. IR diode follow white diode, IR diode is on when white diode is on, IR diode is off when white diode is off.

2) When IR timing display shows 0, it means local/remote mode: IR off.

3) When IR timing display shows 1-12, it means local/remote mode: IR diode will be turned off after turning on 1~12 hours.

IR timing time in hours, in the 24H cycle the longest timing is 12 hours. When the DIM dimming ratio is not 0, the IR diode will start timing according to the setting. After the time is up, the IR diode will be turned off. Every 24h, the IR diode will re-light according to the set IR timing hours. If you want to change the IR timing reference, please first set the IR to 0, and then reset the IR timing time. When the DIM dimming ratio is 0, the timing will stop.

(For example, applicable to UV and IR: after power-on, DIM mode is set to 30, UV is set to 3H, and power-on time is calculated as the starting point for timing. Normally, the UV will be off after 3H. If the user sets the UV timing to 1H after lighting on 2H, then UV diode will be off immediately, if setting UV to 4H, then it will be off after another 2H lighting. If the user wants to start timing 5H from the current lighting time, just set the UV timing to 0 and then to 5.)

LED Display Screensaver Function:

1. Turn off the LED display

When DIM mode selects 0.

- 1) There is an external control signal (RS485/0-10V) connected, When it changes from ON to OFF, if the LED display turn on, all LED display will be OFF after 5 seconds. When the external control signal changes from OFF to ON, the LED display will light up for 5 minutes, and then the LED display will go out.
- 2) When there is no external control signal (RS485/0-10V) connected and there is no button operation, all the LED display will go out after 5 seconds.

When DIM mode does not select 0 (means local mode).

If no button operation, all the LED display will go out after 5 minutes.

2. Wake up the LED display

When there is a button operation, or the external control signal is changed from off to other option, the LED display will wake up.

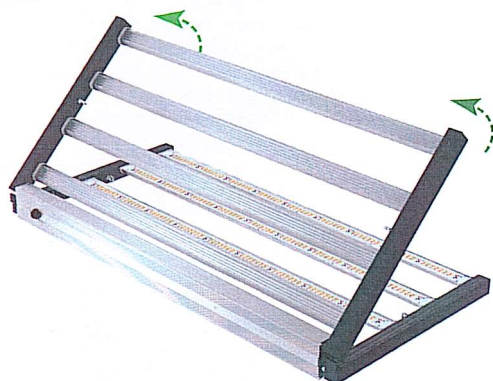


ASSEMBLY INSTRUCTIONS

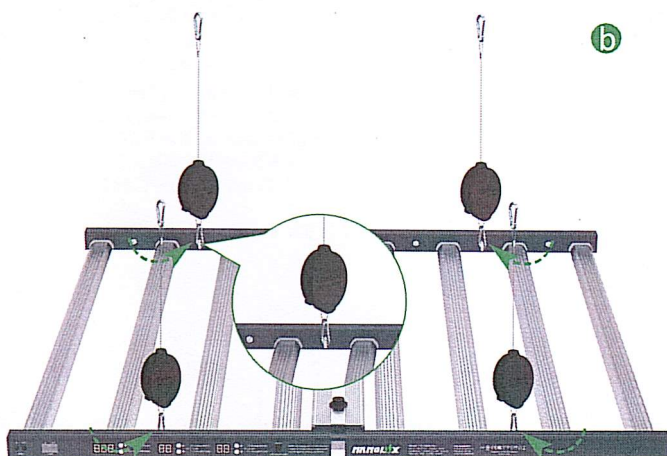
It is recommended that you keep a mounting height of 8"-24" (20cm-60cm) above canopy for optimal light efficiency and uniformity. Growers should regularly monitor the temperature at the canopy level to ensure the height of the fixture is appropriate, as canopy temperature and ambient room temperature can differ.

Fixture Hanging:

1. First take the folding fixture out of the packing.
2. Unfold the fixture track (Fig.a) and place it on a sturdy and flat surface with the diode array facing downward (Fig.b).
3. Attach the carabiners from the YO-Ratchets to the ring bolts (Fig.b).
4. Hang the top fixture in the required location, and make sure the hanging is level.



a

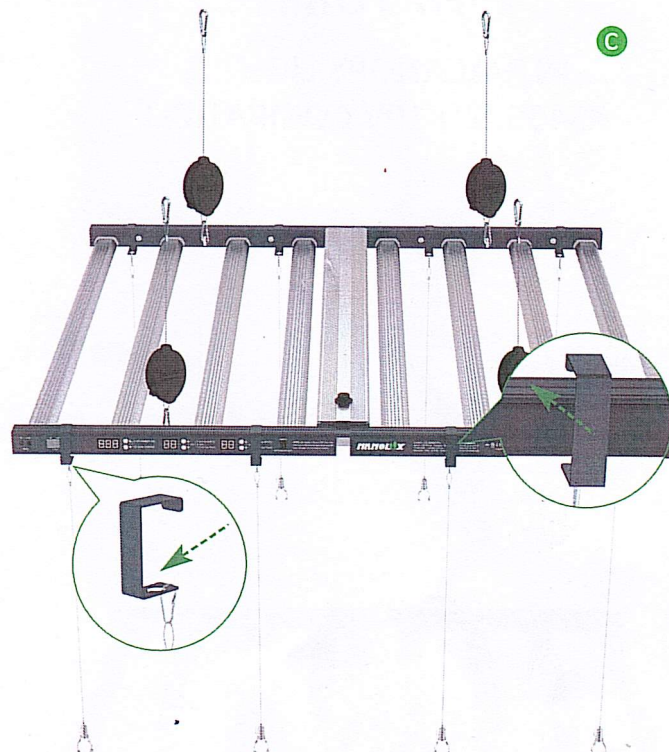


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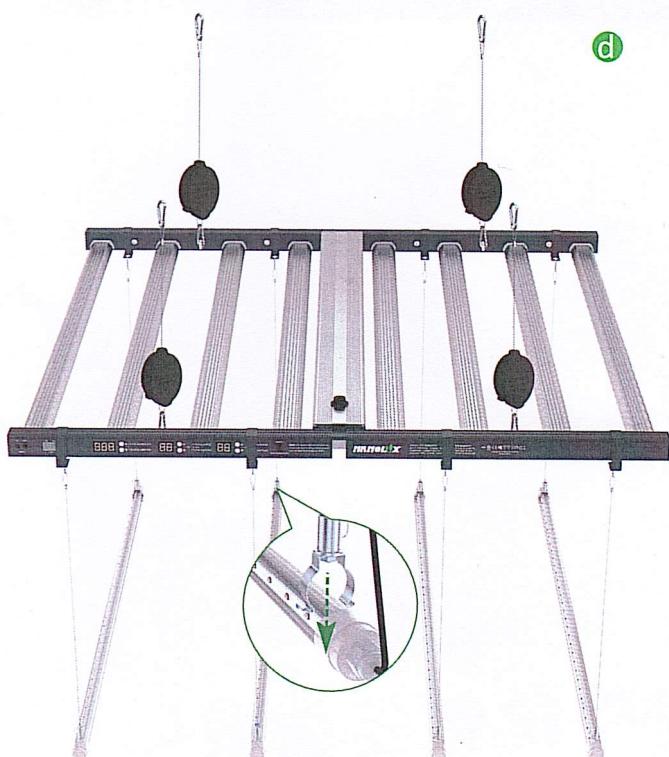
You can use up to 4 intracanopy lights meeting your overall desired PPFD to your canopy. It is recommended that you keep a mounting height of 4"-59" (10cm-150cm) above canopy for optimal light efficiency and uniformity. Growers should regularly monitor the temperature at the canopy level to ensure the height of the fixture is appropriate, as canopy temperature and ambient room temperature can differ.

Intracanopy Light Hanging (4 intracanopy lights for an example):

1. First take the intracanopy light out of the packing.
2. Attach the hanging hook to the steel wire rope, and then put all hanging hooks on the top fixture track in the required location (Fig.c).
3. Put all carabiners from the steel wire ropes on the both ends of the intracanopy lights (Fig.d).
4. Attach the intracanopy lights to the top fixture by inserting output cables (Fig.e), and make sure the below fixture hanging is level.



c

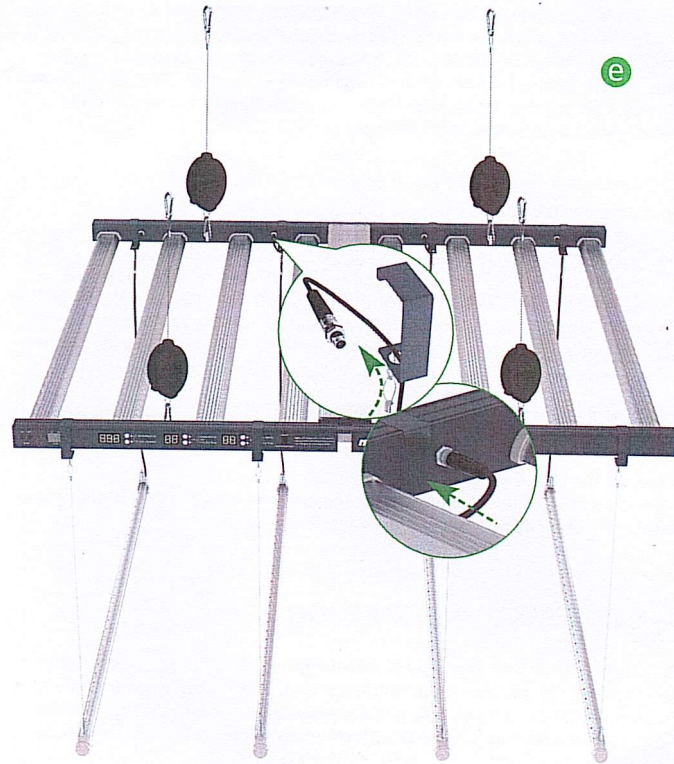
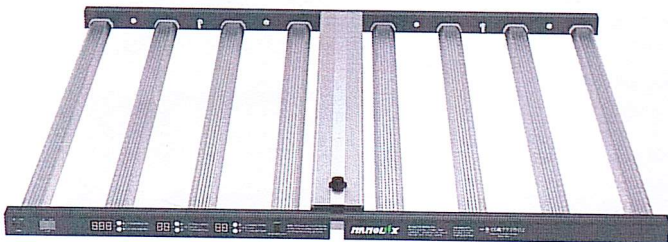


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OPERATING MANUAL

LED SN 860W PRO FIXTURE

INTRACANOPY LIGHT &
RS485 & 0-10V COMPATIBLE



ALWAYS COMPLY WITH LOCAL INSTALLATION REGULATIONS AND CODES

The fixture is suitable for indoor environments. Do not install your fixture in wet or outdoor environment. Do not operate the fixture close to combustible materials. The fixture will get hot during operation. Do not touch the fixture during or right after operation. Make sure the power cord does not touch any hot part of the fixture. Make sure the light bars are clean. The normal operating environment temperature should be below 104°F. Exceeding the maximum environmental temperature will stress electronic components, which will lead to shorter lifetime and decreased reliability.

DIMMING FUNCTION

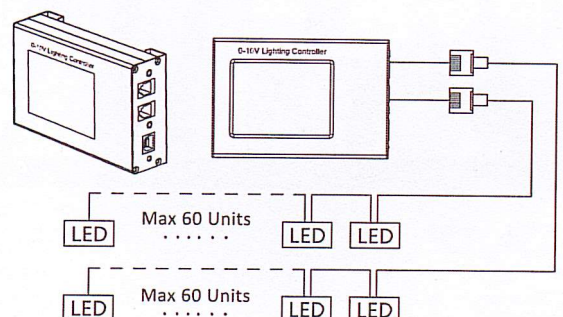
This model is compatible with 0-10V protocol. When using the function, please press the DIM mode selection button to show 0. Insert telephone wire into the 0-10V interface of the fixture and 0-10V Lighting Controller, and then dimming function on the fixture is enabled.

- Maximum of 120 units can be controlled by 0-10V Lighting Controller.
 - Simulate sunrise and sunset for dimming.
 - Turn off the device automatically following the setting time and temperature.
- 0-10V IN & OUT interfaces included on the fixture allows for multi-fixtures 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 0-10V Lighting Controller into an over temperature condition and shutting the lights off. Then leave the probe alone, and after recommended 10-15 minutes the 0-10V Lighting Controller should turn all the lights back on.

For detailed instructions, please refer to 0-10V Lighting Controller operating manual.



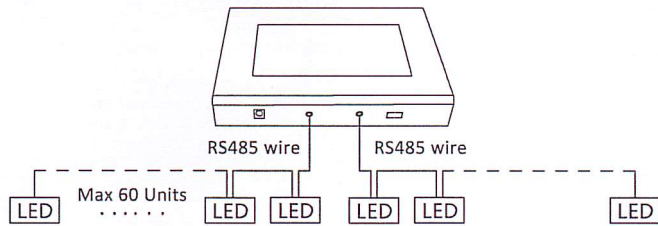
FIANOLUX

This model is compatible with RS485 protocol. When using the function, please press the DIM mode selection button to show 0. Insert RS485 communication wire into the RS485 interface of the fixture and MasterPro Controller, and then dimming function on the fixture is enabled.

- Maximum of 120 units can be controlled by MasterPro Controller.
- Simulate sunrise and sunset for dimming.
- Turn off the device automatically following the setting time and temperature.

RS485 IN & OUT interfaces included on the fixture allows for multi-fixtures connected in parallel.

For detailed instructions, please refer to MasterPro Controller operating manual.



TROUBLE SHOOTING

Problem	Probable cause(s)	Possible fixes or corrective maintenance
One or more fixtures are completely off.	Disconnect from power source.	Make sure power is on and cables are plugged in.
Dimming failure	Broken cable or wire connecting controller to fixture or wire connecting fixture to fixture.	Repair or replace any damaged cables if necessary.
LED will not come on.	The power supply settings do not match with local AC voltage and frequency.	Disconnect fixture from the power supply. Check settings and correct if necessary.

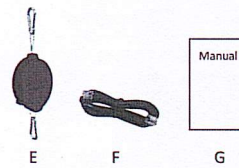
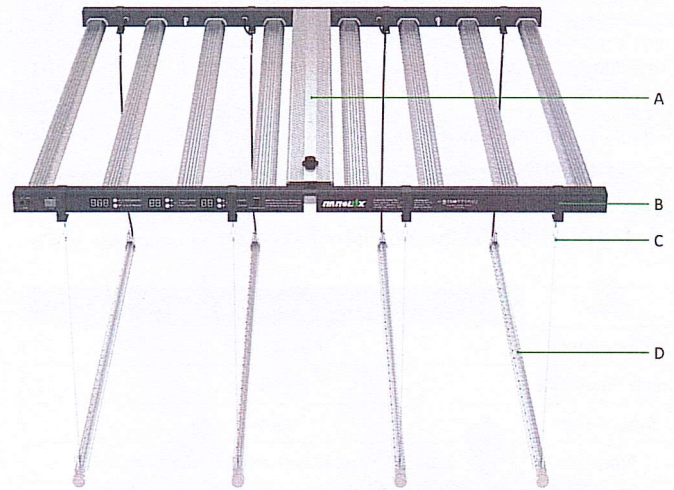
SCOPE OF USE AND MAINTENANCE

- Comply with local installation regulations.
- Store the fixture in a dry and clean environment, with an ambient temperature of -20°C ~ 65°C and ambient humidity of less than 90% RH. It is recommended that the fixture shall not stay unused for more than six months. If it has stayed unused for more than six months, please test to ensure fixture is functioning at 100%.
- Please keep products safe. Avoid mechanical pressure, excessive vibration and dropping the unit during the process of assembly to protect the light bar and track.
- Keep away from water, oil and organic solvent, or it will reduce the efficacy and have the potential risk of electric leakage.
- All equipment, devices and machines shall be effectively grounded.
- Regularly check and clean the dust from LED array.
 1. Disconnect from power supply before general care.
 2. Remove the dust from the light bar by using low-pressure compressed air.
 3. Clean the diode array with a soft cloth to prevent it from being scratched.
 4. Be sure not to touch the diode with your bare hands, even after the LED is disconnected from power supply.
- It is recommended that you contact a licensed electrician or an expert if any of the following happens:
 1. The cable or the plug has been damaged.
 2. The unit has been exposed to rain.
 3. Significant changes in the unit performance.
 4. Fixture or light bar dropped and corner of its enclosure got bent.
- There are no serviceable parts inside the fixture. Opening the fixture will void its warranty.

WARRANTY

Nanolux warrants manufacturing defects of this product if it is used under normal operating conditions for a period of five (5) years from the original date of purchase. If the product shows manufacturing defects within this period and that defect is not caused by user error or improper use, Nanolux shall, at its discretion, either replace or repair the product by using applicable new or refurbished parts. For any service, return the product to your shop along with the original sales receipt.

PRODUCT PACKING LIST



No.	Name	Quantity
A	Folding Fixture	1
B	Hanging Hook (Optional)	4/6/8
C	Steel Wire Rope (Optional)	4/6/8
D	Intracanopy Light (Optional)	2/3/4
E	YO-Ratchet	4
F	Telephone Wire	1
G	Operating Manual	1



IG: @nanolux_official



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PATENTED PRODUCTS, COUNTERFEITING NOT ALLOWED.
Designed by NANOLUX in California
Made in China