200w LED BAR
LUX-200-277-80

USER MANUAL

BEFORE YOU PROCEED

Make sure to register your products by visiting **www.luxxlighting.com/warranty** or by scanning the QR code. Registering for warranty ensures faster service on any future unseen circumstances and keeps you connected on updates.

Thank you for being a part of the Luxx Lighting family. This manual will guide you through the usage and installation process of the Luxx Lighting 200w LED Bar. Please read and understand this manual in its entirety before using the product. Only use this product as specified within the manual.

PRODUCT DESCRIPTION

The 200w LED Bar is a breakthrough product for indoor and greenhouse cultivation. The modular design and form factor enables getting just the right amount of light distributed properly across the canopy. Use between 1 to 5 200w LED Bars to get your targeted PPFD depending on your footprint. With the use of our Bar Bracket, each 200w LED Bar can be deployed in an array to provide the targeted light levels. At just 200w, the low power level allows for building up the PPFD at the canopy in 200w increments so you don't have to pay for more light than you need, while the bars are dimmable to enable getting just the right amount of light. Working together the 200w LED Bars provide high intensity, uniform light to the canopy. The modular design of the 200w LED Bar and Bar Bracket allows for specific spacing and placement over the canopy and quick and easy installation. The slim and linear form factor of the 200w LED Bar also enables their use in greenhouses. Single or pairs of 200w LED Bars can be deployed along greenhouse structural elements to minimize cast shadows across your canopy during the day while providing maximum efficacy and light supplementation.

80R SPECTRUM

The 80R spectrum provides a full spectrum with maximum red photon content. The red content is efficiently generated by state of the art LEDs and is the most effective portion of the spectrum for plant growth and yield. The blue-green balance supports healthy plant morphology and enables an improved working environment and improved visual inspection for growers. This spectrum has been tested extensively for full scale indoor plant production and has consistently resulted in the fastest growth of healthy, high-yield plants.

WARNING

The 80R spectrum was designed specifically for use in the vegetative phase of growth. Do not use this spectrum for flowering. While this spectrum has demonstrated higher yield and higher THC for flower grown using it, there will be some bleaching on the tips during the flowering phase.
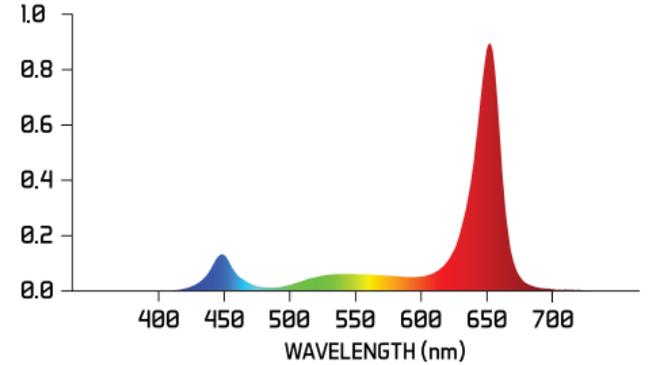
200W LED BAR CONFIGURATIONS

200w   400w   600w   800w   1000w

CONTENTS

• 1/4" Hex Head Bolts (2 PCS) • Eyelet Bolts (2 PCS) • Eyelet Bolt Nuts (2 PCS) • Wing Nuts (2 PCS) • Washers (2 PCS) • Unistrut Wire Hangers (2 PCS) • Instruction Manual

PRODUCT SPECIFICATIONS

Technical Specs	
Input Power	200W
Min Power Factor	>0.95
Rated Mains Voltage	200V - 277V
Voltage Range	200V - 305V
Mains Frequency	50/60Hz
THD	<10%
Thermal Management	Passive
Dimming	40% to 100% - EXT/OFF If using our NX-1, only dimmable down to 50%.
Power Cord	Selection Required: 10' 240v or 10' 277v power cord options available.

Input Voltage	Input Current
208V	0.96A
220V	0.90A
240V	0.83A
277V	0.72A

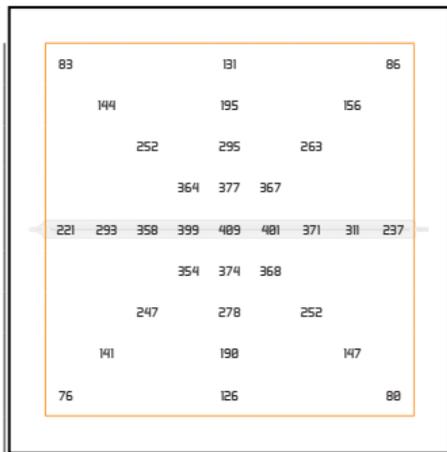| Size & Weight		
Length	1240mm	49"
Width	60mm	2.36"
Height	72mm	2.83"
Weight	3.26kg	7.20 lbs

ETL
c   us
LISTED
Intertek

DAISY CHAINING THE 200W LED BAR

The chart shows the maximum amount of 200w LED Bars that can be daisy chained together based on the voltage of your electrical system.
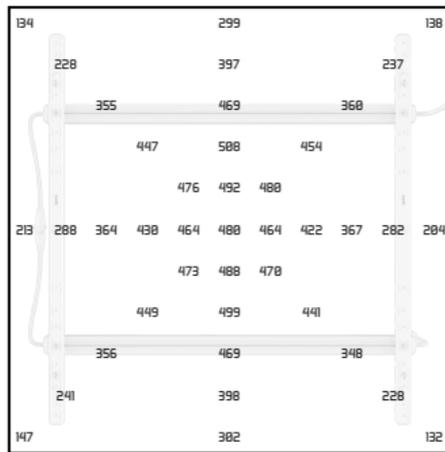
Voltage	Daisy Chain Quantity
208V	15
220V	16
240V	17
277V	20

PPFD FOOTPRINTS

1 BAR | 200W | AVG PPFD: 252
4' FOOTPRINT | TESTED AT 24"

83	131	86
144	195	156
252	295	263
364	377	367
221 293 358 399	409 481 371 311	237
354	374	368
247	278	252
141	198	147
76	126	80

2 BAR | 400W | AVG PPFD: 363
5' FOOTPRINT | TESTED AT 24"

134	299	138
228	397	237
355	469	360
447	508	454
476	492	480
213 288 364 430	464 480 464 422	367 282 204
473	488	470
449	499	441
356	469	348
241	398	228
147	302	132

3 BAR | 600W | AVG PPFD: 537
5' FOOTPRINT | TESTED AT 24"

216	495	227
344	586	353
504	666	514
618	704	622
713	735	711
321 439 567 660	714 738 724 651	570 438 314
702	729	707
625	697	621
494	647	583
344	575	346
212	477	200
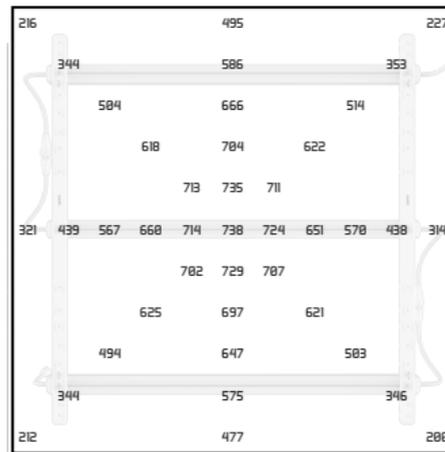
4 BAR | 800W | AVG PPFD: 725
5' FOOTPRINT | TESTED AT 24"

284	650	291
464	776	453
668	883	661
860	964	855
967	994	966
434 594 759 907	974 1005 972 891	756 578 406
970	985	958
860	952	848
683	885	657
470	779	451
301	654	282
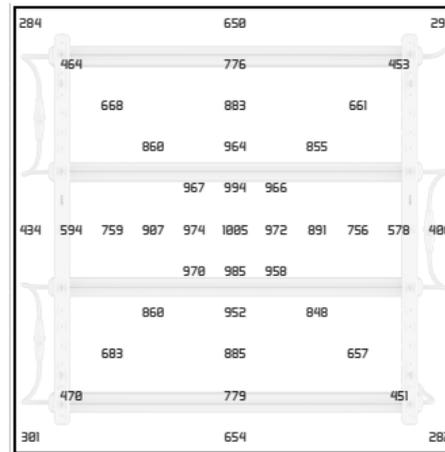
INSTALLATION

WARNING! READ THE FOLLOWING INSTRUCTIONS CAREFULLY BEFORE USING OR WORKING WITH THE 200W LED BAR.

• The 200w LED Bar contains a glass lens over the LEDs. Please handle with care.
• Always gently place the 200w LED Bar on a clean, soft surface to avoid damaging the glass.
• In order to mount your 200w LED Bar properly, start by identifying a suitable support structure that you can mount your 200w LED Bar to.
• Common support structures include pallet racks, trusses, structural channels, Unistrut, and rolling tables.
• The user is responsible for correct and safe installation and usage.
• Please have two or more experienced, certified service personnel mount and install this device, in accordance with the applicable local laws and regulations.
• Best practices are to have a licensed electrician install your 200w LED Bar.
• Ensure the existing electrical system can support the voltage and current requirements of the 200w LED Bar.
• When daisy chaining the 200w LED Bars together, make sure that you're not attempting to connect more than the maximum amount of 200w LED Bars based on the voltage that your power cable and electrical system are rated for. Read the product specifications to see the maximum amount of 200w LED Bars that can be daisy chained together.

200W LED BAR POWER CORD

The power cord for the 200w LED Bar integrates both power and 0-10v dimming signal through fully shielded cabling and a single 5-pin IP67 rated connector. The 200w LED Bar features input and output cables that allow you to supply power and dimming signal by daisy chaining 15x to 20x 200w LED Bars together based on the voltage of your electrical system. If you're using our NX-1 Controller, you can control up to 100x 200w LED Bars per channel with the use of RJ14 splitters and interconnect cables (1 of each included with each power cord).

Power   RJ14   Twist Lock

CONNECTING UP TO 200x 200W LED BARS

How to connect the 200w LED Bar to our NX-1 Controller:

- Slide the switch on the bottom of the 200w LED Bar to the EXT/OFF position in order to receive a signal from the NX-1 Controller.
- Plug the RJ14 connector coming out of the power cord into the single connector end of a RJ14 splitter.
- Plug the RJ9 end of a controller cable (included with the NX-1 Controller) into the RJ9 main port of the NX-1 Controller.
- If a two room setup is used or if more than 100x 200w LED Bars have to be connected, plug a second controller cable in the RJ9 aux port.
- Plug the RJ14 end of the controller cable(s) into the dual connector end of the RJ14 splitter.
- Plug either end of an interconnect cable into the other dual connector end of the RJ14 splitter.
- Plug the other end of the interconnect cable into the dual connector end of the following RJ14 splitter.
- Repeat this process to connect up to 100x 200w LED Bars on the RJ9 aux port.
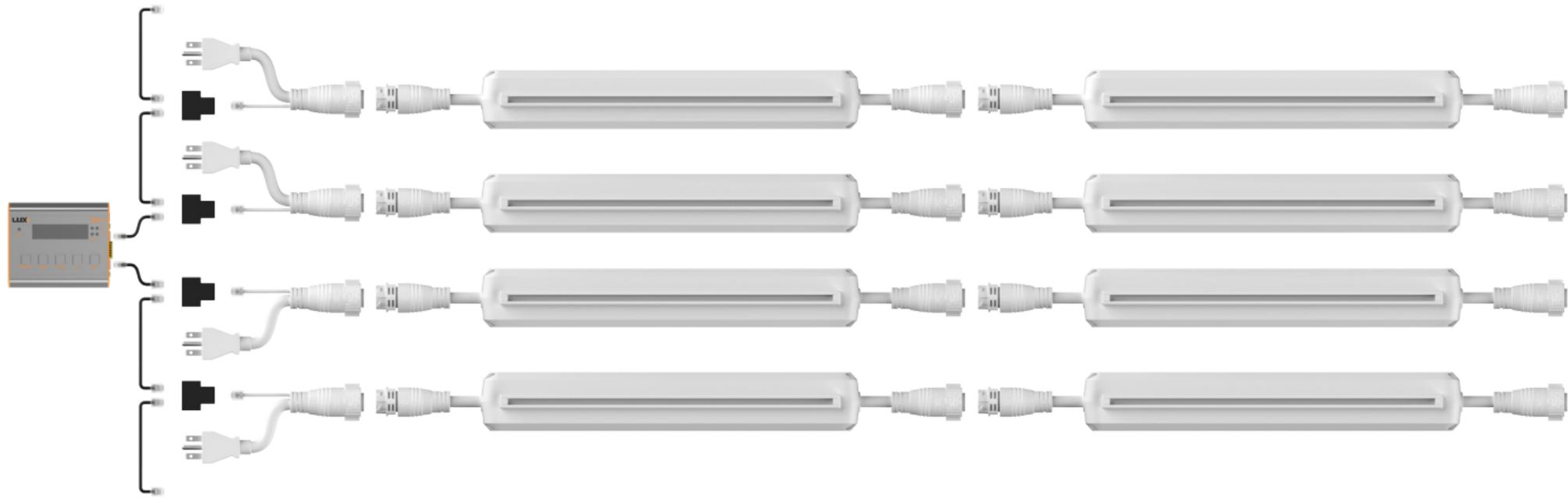
HOW TO DAISY CHAIN THE 200W LED BAR

There are multiple ways to configure our 200w LED Bar and Bar Bracket when daisy chaining them together.
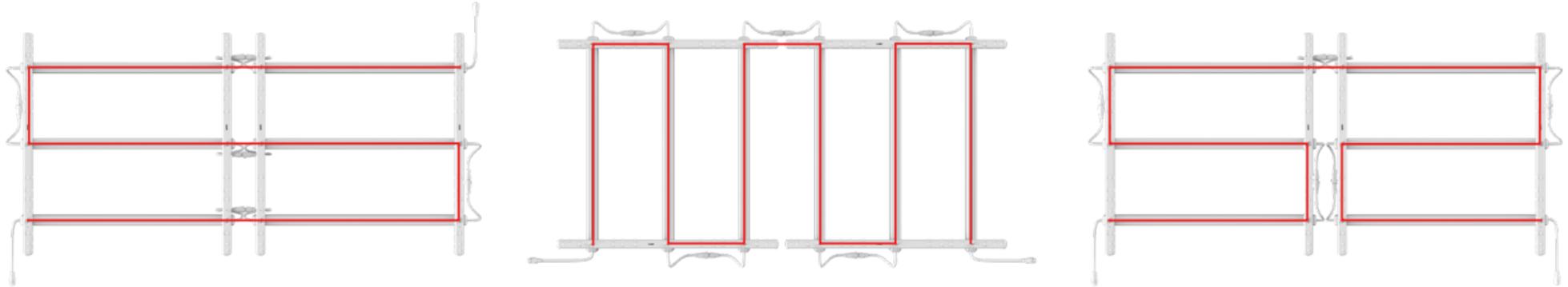
MOUNTING METHODS

There are four ways to mount the 200w LED Bar system:

Wire hangers to Unistrut

Direct mounting to Unistrut

Rope Ratchets

Bar Bracket

WIRE HANGERS TO UNISTRUT

1. Place the wire hangers over your Unistrut. Lift the 200w LED Bar into the Unistrut.

2. Put the ends of the wire hanger into the holes on the bottom of the 200w LED Bar.

DIRECT MOUNTING TO UNISTRUT

1. Remove the cap on the end of the slot. Insert two 1/4" hex bolts that are at least 2.25" long (not included) into the slot.

2. Space the hex bolts towards the end of the LED. Lift the 200w LED Bar up until the bolts go through the slots on top of the Unistrut.

3. Install a fender washer and 1/4" wing nut on the hex bolt to secure the 200w LED Bar to the Unistrut.

ROPE RATCHETS

1. Remove the cap on the end of the slot. Screw the eyelet bolt into the hex nut and insert it into the slot.
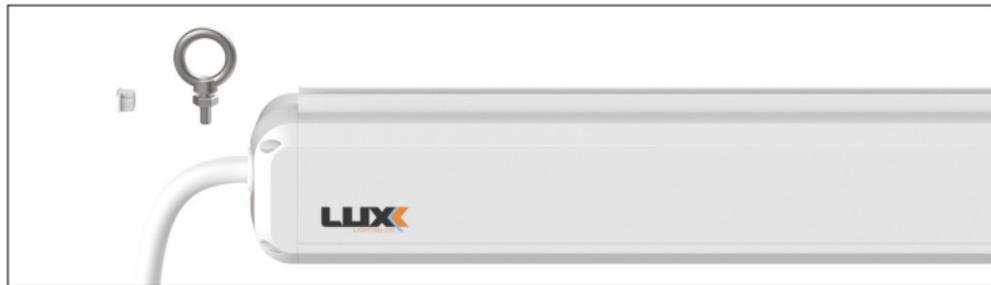
2. Position each eyelet bolt towards the ends of the 200w LED Bar. Tighten down the eyelet bolt to secure it in place.

BAR BRACKET

The Bar Bracket (not included with 200w LED BAR) was designed to configure 2, 3, 4 or 5 200w LED Bars together to create a complete modular system capable of covering both a 4' wide and 5' wide footprint. The Bar Bracket features 17 notches that are used to properly space 200w LED Bars together to create a 400w, 600w, 800w or 1000w system. The multiple notches along the bottom of the bracket are positioned to achieve optimal light distribution for each configuration that you can achieve with the 200w LED Bar.

BAR BRACKET INSTALLATION TIPS

• Determine how many power cords you will need based on how many 200w LED Bars you can daisy chain together. This is determined by the power cable you select that is rated for your electrical systems voltage.

• Plan out how you want to daisy chain your 200w LED Bars in your room to determine where the power cables need to go.

• You can daisy chain each 200w LED Bar left to right or you can go up and down along your room.

• Use the Unistrut cleat included with the Bar Bracket to give you clearance around Unistrut splice plates and hardware. The Unistrut cleat also helps keep each Bar Bracket perpendicular to the Unistrut.

• Zip tie extra cable to the Bar Bracket after installation is complete.

MOUNTING THE 200W LED BAR TO THE BAR BRACKET

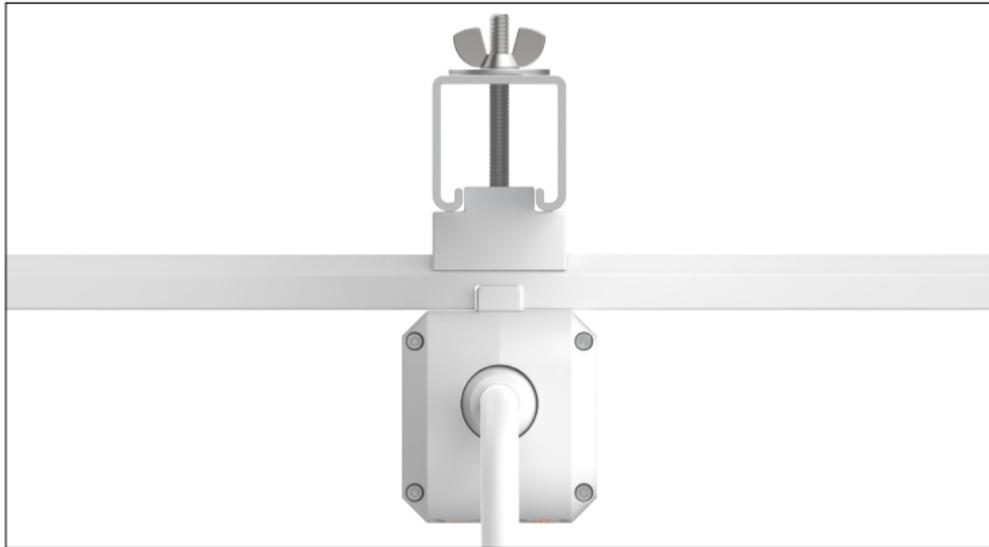1. Remove the cap on the end of the slot. Insert the two included 1/4" hex bolts into the slots.

2. Lift the 200w LED Bar and hex bolts up through the appropriate notch and hole in the Bar Bracket. Tighten down the wing nut to secure it in place.
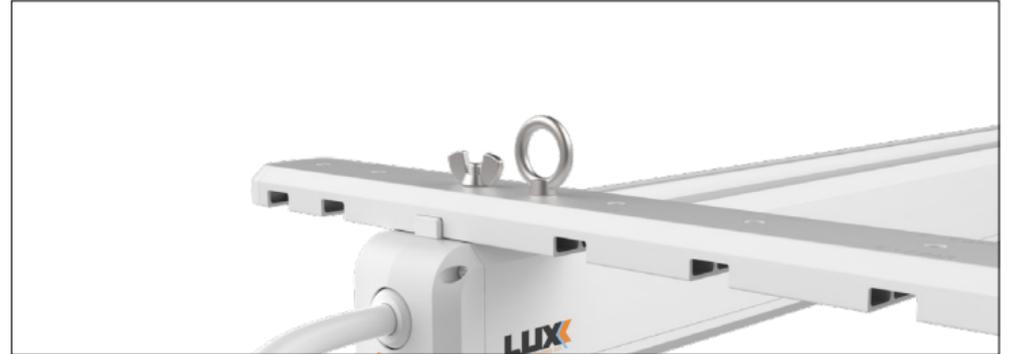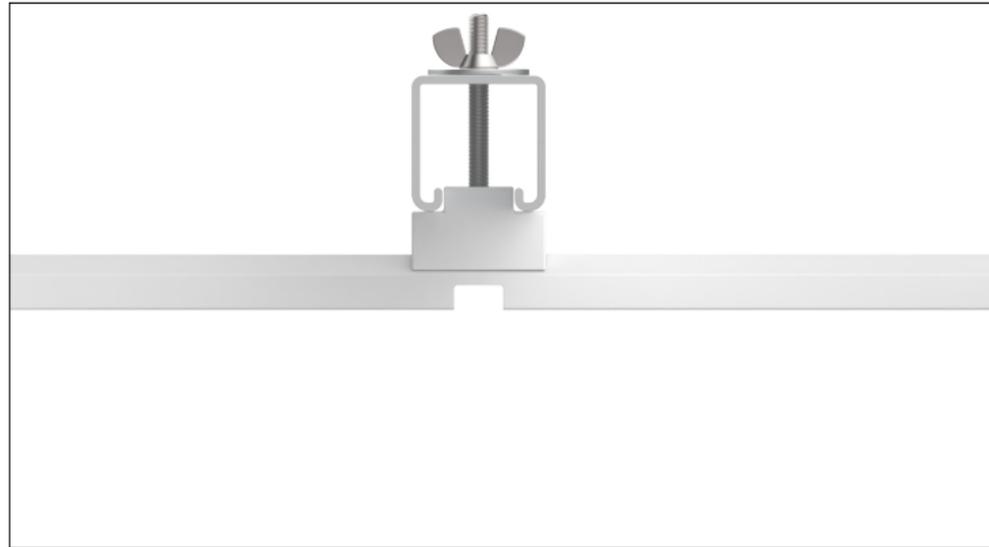
MOUNTING THE BAR BRACKET TO UNISTRUT

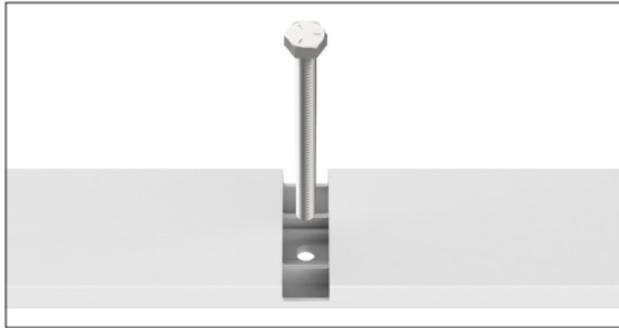1. If you're running a 600w or 1000w system, mount the Bar Bracket through the middle 200w LED Bar.

2. If you're running a 400w or 800w system, the Bar Bracket is mounted to Unistrut on its own without a middle 200w LED Bar.
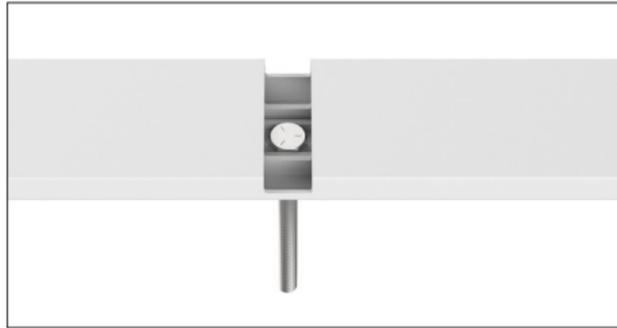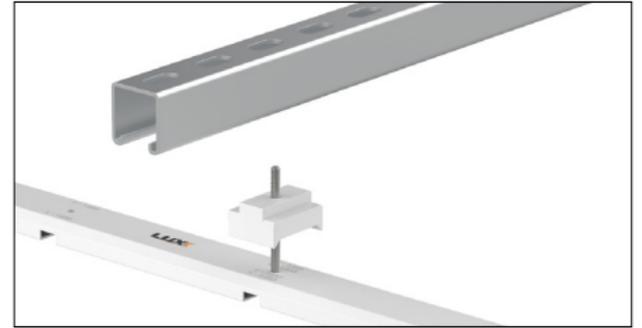
MOUNTING A 400W OR 800W SYSTEM

4. Start by inserting the 1/4" x 3.5" hex bolt through the bottom of the Bar Bracket.
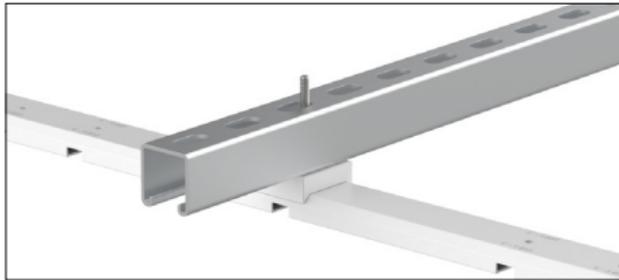

2. Make sure the hex bolt is seated between the two small vertical ribs in the Bar Bracket.
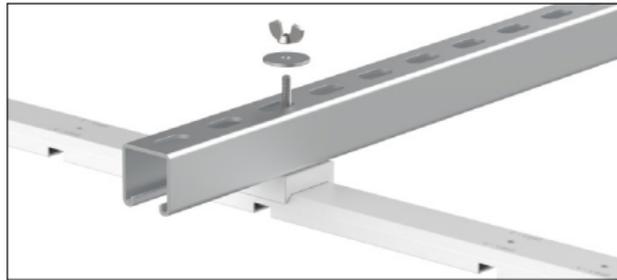

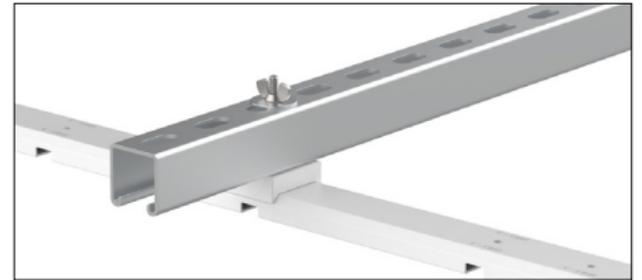3. Insert the Unistrut cleat over the hex bolt.

4. Lift the Bar Bracket, hex bolt and Unistrut cleat up through the slot in the Unistrut.

5. Make sure the Unistrut cleat is seated properly between the gap in the bottom of the Unistrut.

6. Place the fender washer and wing nut over the hex bolt and tighten them down.

MOUNTING A 600W OR 1000W SYSTEM

1. Start by inserting the 1/4" x 3.5" hex bolt into the slot of the middle 200w LED Bar.

2. Insert the Unistrut cleat over the hex bolt.

3. Lift the 200w LED Bar, Bar Bracket, hex bolt and Unistrut cleat up through the slot in the Unistrut.

4. Make sure the Unistrut cleat is seated properly between the gap in the bottom of the Unistrut.

5. Place the fender washer and wing nut over the hex bolt and tighten them down.

MOUNTING THE BAR BRACKET WITH LANCE HANGERS

• Install 4 eyelets, one on each end of each Bar Bracket.
• Clip the carabiners onto the two opposing eyelets on each Bar Bracket.
• Allow an additional 8" from the top of Bar Bracket for the height of lance hangers.

Install eyelet bolt here

Install eyelet bolt here
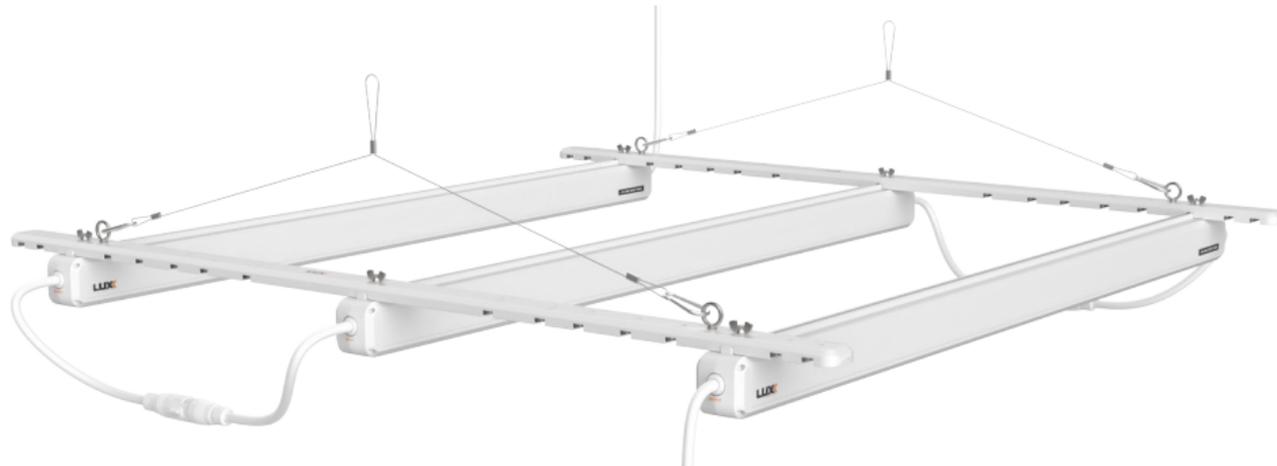
ENVIRONMENT

- The 200w LED Bar has an IP66 rating and is designed to be used in a high-humidity environment.
- Optimal ambient air temperature for this LED fixture is between 15°C-60° F / 26°C-80° F.
- The 200w LED Bar is NOT intended to be used outdoors and should not be directly exposed to water.

MAINTENANCE

- Clean with warm water and a microfiber cloth.
- Do not use detergents, abrasives or other aggressive substances.
- Please regularly check for dust or dirt buildup. Clean if necessary. Contamination may cause overheating and decreased performance.
- Regularly check the cable connections to ensure it is undamaged.

STORAGE AND DISPOSAL

- This fixture is to be stored at an ambient temperature of to 15°C-60° F / 26°C-80° F in a dry and clean environment.
- This product must not be disposed of as standard waste. It is to be collected or brought to a recycling center for proper disposal and environmental treatment.

5 YEAR WARRANTY

- Luxx Lighting warranties the mechanical and electronic components of the 200w LED Bar and guarantees the materials and workmanship free of defects, if used under normal operating conditions within a period of five (5)years from the purchase date.
- All returns and claims must be presented with the original proof of purchase.
- If you find that there are any defects with this product that relate to either the workmanship or the materials but are not due to improper use or user error, Luxx Lighting shall, at its discretion, either replace or repair the product using the appropriate new or reconditioned parts.
- In the case that Luxx Lighting decides to replace the entire product, the date of the limited warranty shall apply to the replacement from the date of the purchase of the initial product for five (5) years.
- We've performed a lifetime analysis test of our LED and guarantee that at 54,000 hours they will still produce 90% output.
- All returns must be registered at **www.luxxlighting.com/rma**

Luxx 200 LED Bar

STOP **IMPORTANT SAFETY INFORMATION. READ THIS INFORMATION AND FULL USER MANUAL CAREFULLY PRIOR TO INSTALLING THIS PRODUCT.**

Installation of the horticultural lighting structures described in this manual shall be performed by qualified personnel and are intended for installation subject to approval by the authority having jurisdiction. Follow all installation, operation and maintenance instructions in the complete user manual provided with this product.

Please note that failure to follow directions related to installation, use and/or maintenance may result in serious injury, death, or property damage and will void the warranty, and the purchaser will be responsible for any and all repairs and/or damages incurred.

CAUTION - PROPRIETARY WIRING SYSTEM. Use Hawthorne/Luxx cord set model HGC906341 or HGC906342 only for connection from the luminaire power inlet to a standard junction box for power connection.

ATTENTION - SYSTÈME DE C BLAGE PROPRIÉTAIRE. Utilisez le jeu de cordons Hawthorne modèle HGC906341 ou HGC906342 uniquement pour la connexion de l'entrée d'alimentation du luminaire à une boîte de jonction standard pour la connexion électrique.

MAXIMUM DISTANCE BETWEEN UNITS TO BE INTERCONNECTED: 4 M
DISTANCE MAXIMALE ENTRE LES UNITÉS À INTERCONNECTER: 4 M

MAXIMUM UNITS TO BE INTERCONNECTED: See manual.
MAXIMUM D'UNITÉS À INTERCONNECTER: Voir le manuel.

Install with a minimum 15 cm distance between adjacent lighting equipment and between the lighting equipment and combustible materials such as walls, ceilings, movable partitions, and the like; and between lighting equipment and other heat generating equipment.

Environment
The product is intended to be used in greenhouses and climate rooms. NOT FOR INTRACANOPY USE. The product can be used in wet environments. The product may not be used outdoors. This luminaire is suitable for operation in an ambient temperature not exceeding 40°C. This should be the maximum sustained temperature of the installed environment (ambient temperature) that will ensure safe operation of the lighting equipment. To prevent sustained temperatures above a 40°C ambient a mechanical ventilation or cooling system is required to maintain the temperature within the growing space at or below 40°C when the luminaire is in operation.

Be sure cord sets or wiring harnesses:
1) Are not concealed or extended through a wall, floor, ceiling, or other parts of the building structure;
2) Are not located above a suspended ceiling or dropped ceiling;
3) Are not permanently affixed to the building structure;
4) Are routed so that they are not subject to strain and are protected from physical damage;
5) Are visible over their entire length; and
6) Are used within their rated ampacity as determined for the maximum temperature of the installed environment specified in the instructions.

Connecting the LED fixture to the mains
Warning! Make sure mains power is switched off.
Warning! Ensure the cord is not coiled and does not touch any hot surfaces.
Warning! Connect the cables according to local rules, safety regulations and electrical code.
Warning! Ensure external switching gear can cope with the inrush current of the LED fixture (see section 3.2). Always use a double-pole contactor suitable for switching a capacitive load. Never use household timers to switch the LED fixture!

Avertissement! Assurez-vous d'éteindre l'alimentation au conducteur principal.
Avertissement! Assurez-vous que le cordon n'est pas enroulé et qu'il n'est pas en contact avec des surfaces chaudes.
Avertissement! Branchez les câbles conformément aux règlements locaux, aux règlements de sécurité et au code de l'électricité
Avertissement! Assurez-vous que l'équipement de commutation externe peut soutenir l'appel de courant du dispositif à DEL (voir section 3.2). Toujours utiliser un contacteur bipolaire convenant à la commutation d'une charge capacitive. Ne jamais utiliser une minuterie maison pour commuter le dispositif à DEL!

Daisy Chaining

If daisy-chaining mains power for the Luxx 200W LED Pro, then it is recommended to use a suitable surge protector. Consult an electrician for the appropriate ratings and installation of the surge protectors.

Connect the appropriate cord set to the power inlet cord connector of the luminaire.

For 208-240Vac the cord set will be provided with a NEMA Type plug. Plug the power cord into the mains. Switch on mains power.

For 277Vac the cord set is provided with a 15 amp plug.

Wire	277 V
White	Neutral (N)
Black	Phase (L)
Green	Ground (⏚)

Photobiological safety assessment:
Risk Group 1

Évaluation de la sécurité photobiologique:
Groupe de risque 1

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTION – Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense

FOR COMPLETE INFORMATION REGARDING THIS PRODUCT, PLEASE REFER TO THE USER MANUAL.