

LNLED®

OPTIMAL PERFORMANCE LED GROW LIGHTS



640W
SERIES

Dimmable Function

Higher Efficiency

No Fan Zero Noise

Sunlike Spectrum



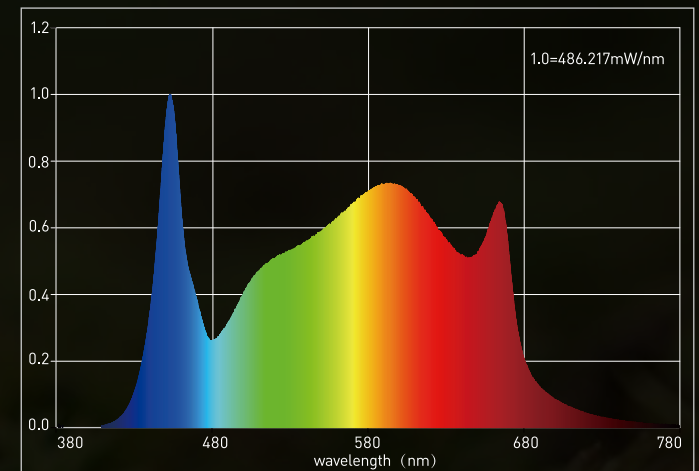
HIGH EFFICIENCY

2.7 $\mu\text{mol}/\text{J}$
NEW SMD LEDs

1730 $\mu\text{mol}/\text{s}$
HIGH PPF, UNIFORM OUTPUT

640W
ACTUAL POWER

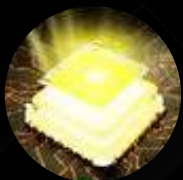
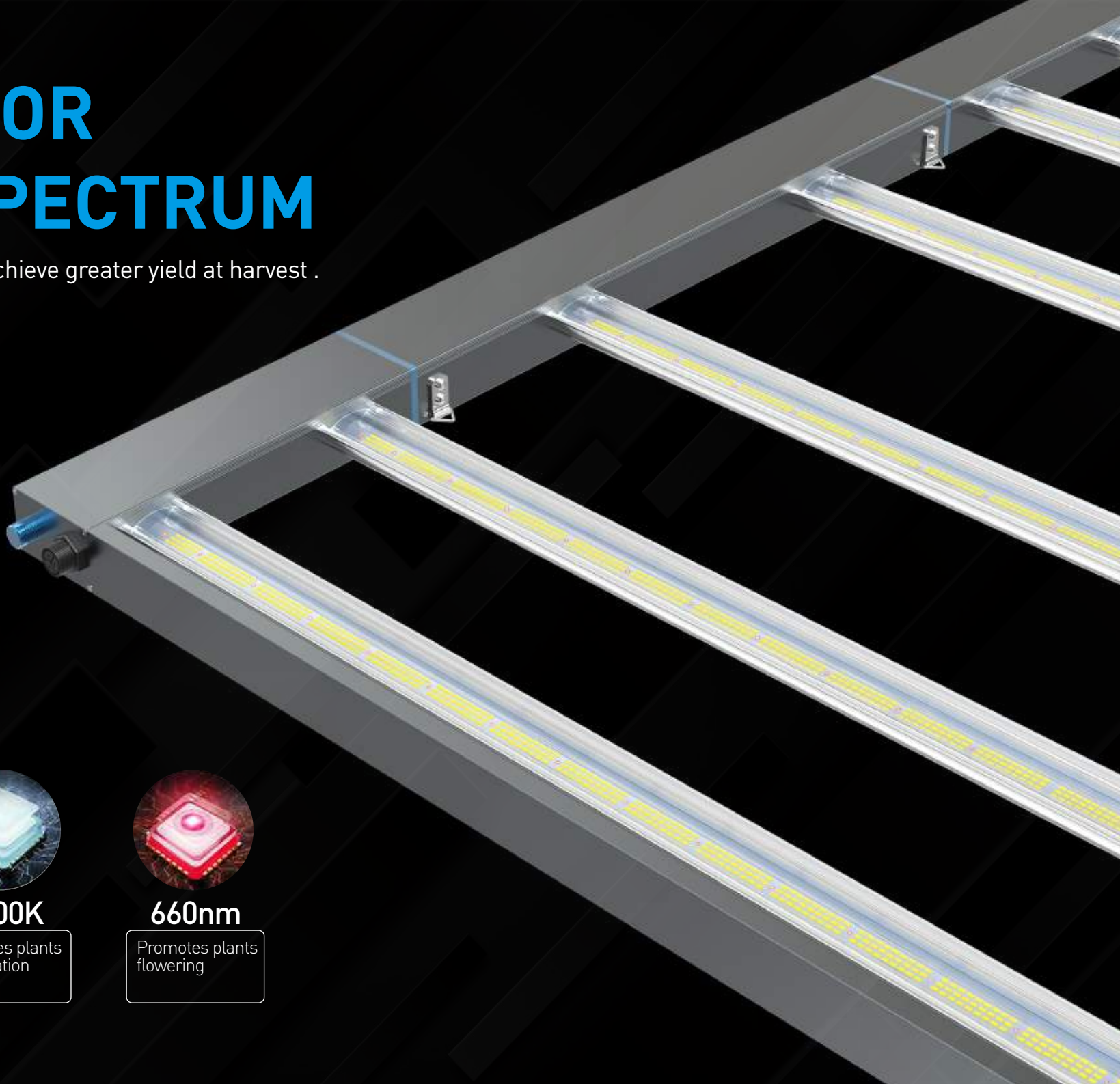
5 years
Trusted Warranty



OPTIMAL FULL SPECTRUM

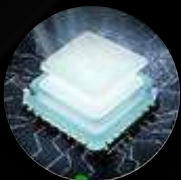
SUPERIOR FULL SPECTRUM

High energy efficiency Achieve greater yield at harvest .



3000K

Boosts plants
flowering and
increased yields



5000K

Promotes plants
germination

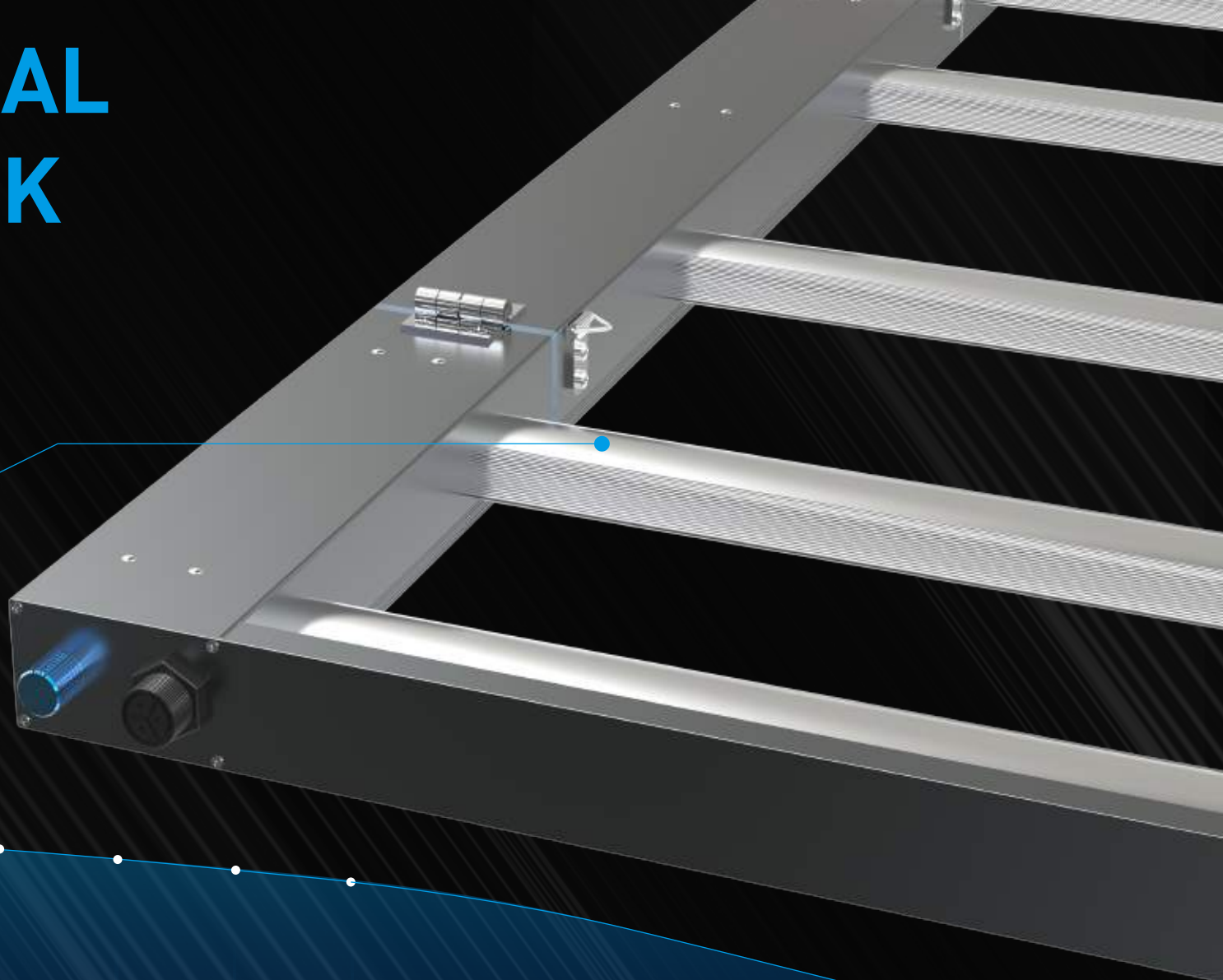
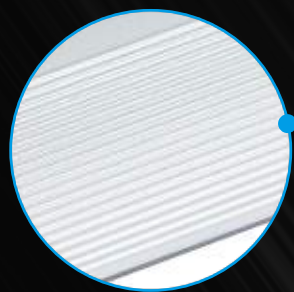


660nm

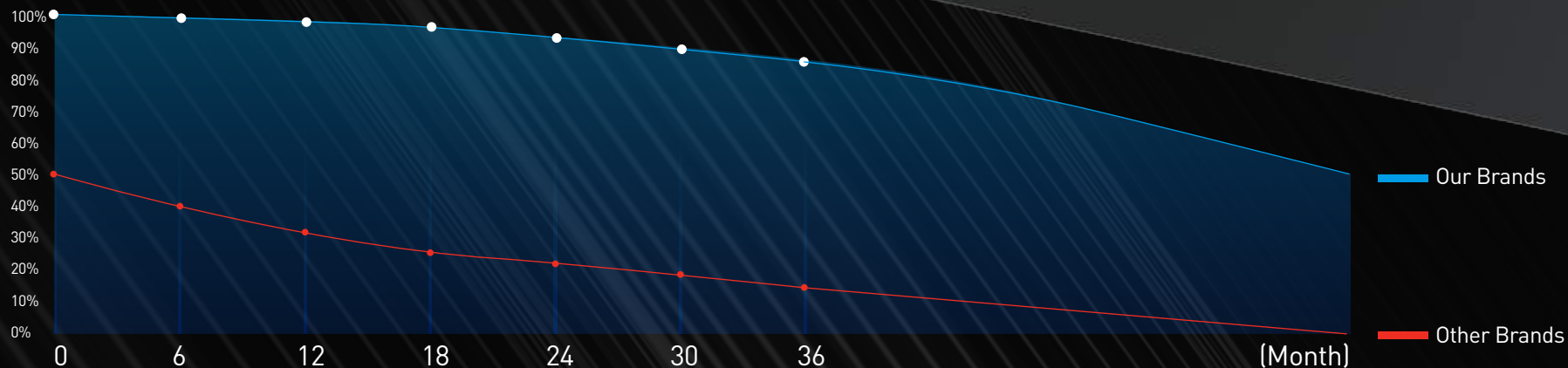
Promotes plants
flowering

THICK REAL HEAT SINK

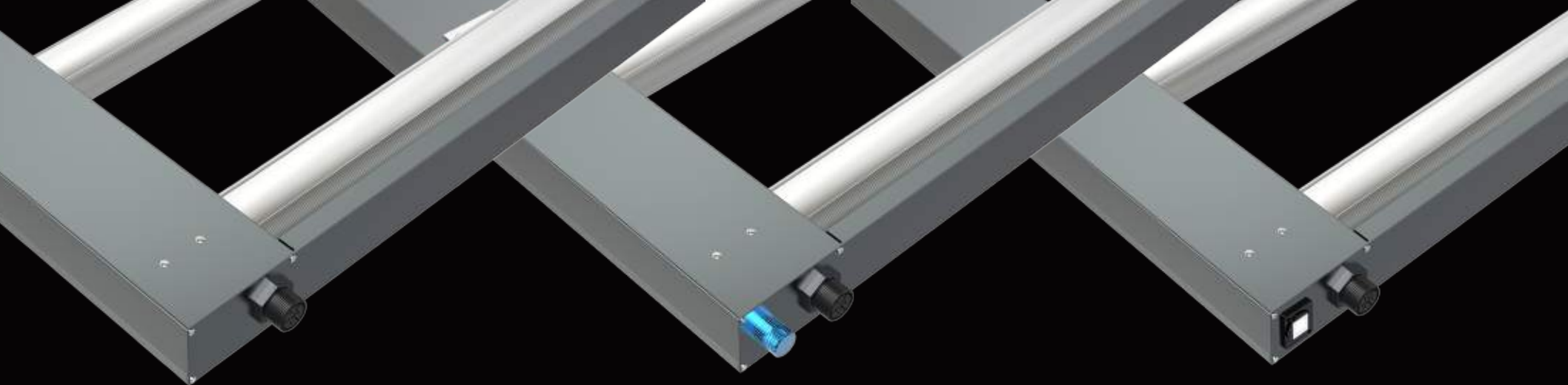
25% Cooler



Light Decays



The higher the temperature, the faster the light decays.
The faster the light decays, the lower the yield produces.



LNGL-640W-ND



MEAN WELL
Driver



APT ELECTRONICS
LEDs



No DIMMING

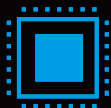
Accessory



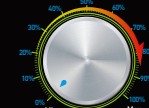
LNGL-640W-CX



MEAN WELL
Driver



APT ELECTRONICS
LEDs



KNOB DIMMING
0-10V

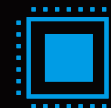
Accessory



LNGL-640W-CXW



MEAN WELL
Driver



APT ELECTRONICS
LEDs



APP DIMMING
Network Control

Accessory



PPF	1730±50umol/s	Vegetative Coverage at 30"	6 x 8ft
Actual Power	640W ± 5%	Flowering Coverage at 12"	4 x 6 ft
Efficacy	2.7 umol/J	Use for	All growth stages
Total Harmonic Distortion	< 15%	Procut Dimensions	122x 125x 4.8cm
AC Input	AC100-240V / 277V	Item Weight	14.2K(NW) / 15.5KGS(GW)
Frequency	50/60Hz	HID Replacement	1000W HPS/MH

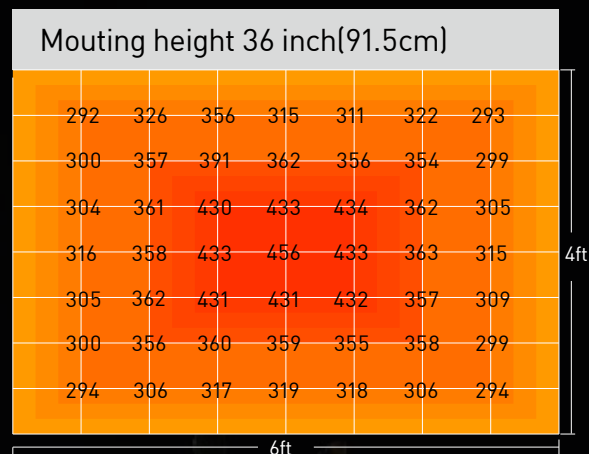
	20ft GP	40ft GP	40ft HQ
Container size	20ft x 8ft x8.5ft (H)	40ft x 8ft x8.5ft (H)	40ft x 8ft x9.5ft (H)
Container volume	32.44m³	65m³	75m³
Product Carton size	130 x 11.5x 68.5cm / 51.2 x4.52 x 27 inches		
Packing Quantity	240pcs Max	485pcs Max	600pcs Max
Total weight	3720kg	7517.5kg	9300kg
Volume of products	30.7m³	62.75m³	72.9m³

RECOMMENDED INSTALLATION HEIGHT

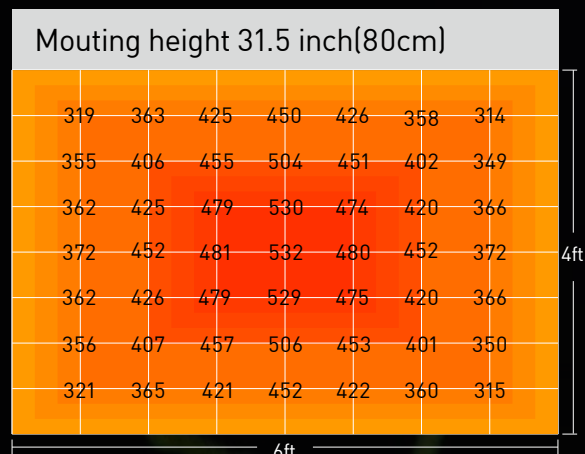


Marijuana Growth				
Planting period	Propagation/ Cutting	Vegetative Growth	Veg-to-Flower Transition	Flower-to-Stock Transition
Planting Time	14 Days	21 Days Min	3-7 Days	8-10 Weeks
PPFD Requirements	150-200 ($\mu\text{mol}/\text{m}^2/\text{s}$)	From 200 to 450 ($\mu\text{mol}/\text{m}^2/\text{s}$)	From 500 to 800 ($\mu\text{mol}/\text{m}^2/\text{s}$)	700-800 ($\mu\text{mol}/\text{m}^2/\text{s}$)
Distance between plant top to lamp (Single lamp)	100cm	From 100 to 40cm	From 40 to 20cm	20cm
Distance between plant top to lamp (Multiple lamps)	120cm	From 120 to 60cm	From 60 to 30cm	30cm

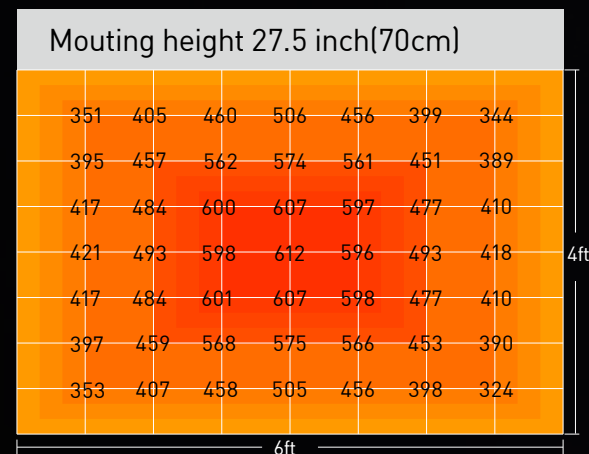
SINGLE LIGHT PPFD MAP



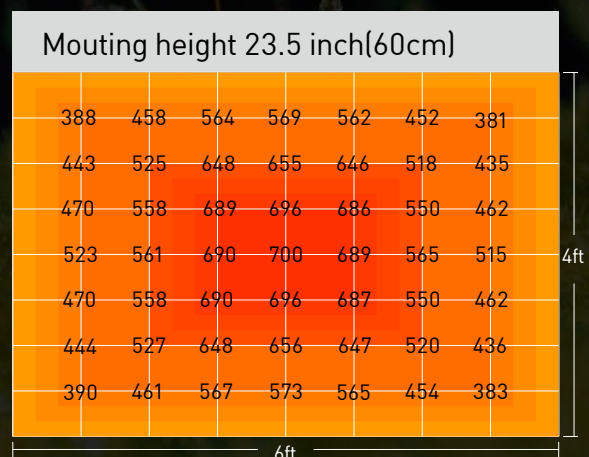
Average PPFD: 326 μ mol/m²/s
Middle PPFD: 456 μ mol/m²/s



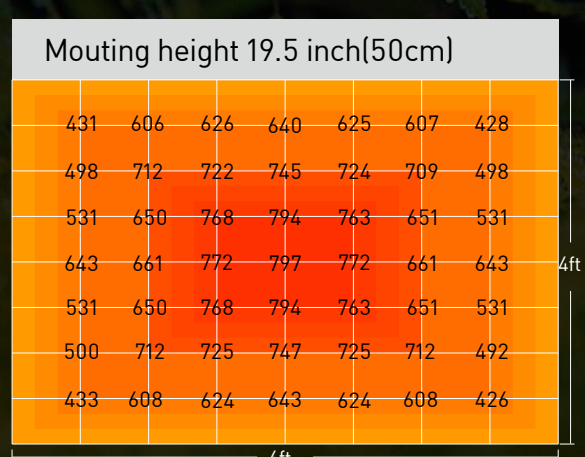
Average PPFD: 370 μ mol/m²/s
Middle PPFD: 532 μ mol/m²/s



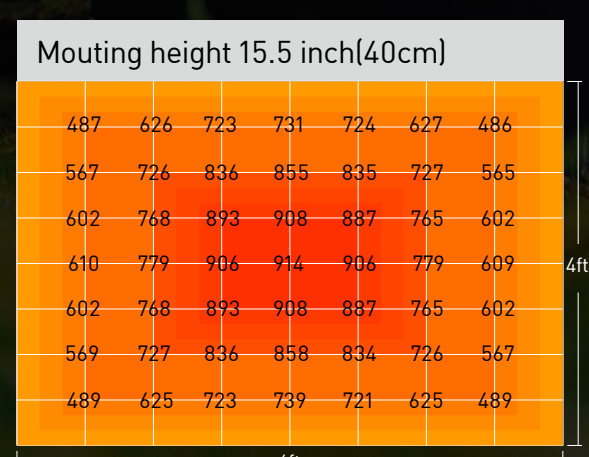
Average PPFD: 413 μ mol/m²/s
Middle PPFD: 612 μ mol/m²/s



Average PPFD: 464 μ mol/m²/s
Middle PPFD: 700 μ mol/m²/s



Average PPFD: 522 μ mol/m²/s
Middle PPFD: 797 μ mol/m²/s



Average PPFD: 586 μ mol/m²/s
Middle PPFD: 914 μ mol/m²/s

Multiple lights-5pcs PPFD map

Mouting height 36 inch(91.5cm)

456	465	472	472	474	473	472	471	473	471	472	474	471	472	473	472	456
515	524	524	524	524	524	525	526	525	526	525	524	524	524	524	524	515
518	531	531	531	531	531	531	531	531	531	531	531	531	531	531	531	518
518	532	551	540	540	551	540	540	551	540	540	551	540	540	551	532	518
518	531	531	531	531	531	531	531	531	531	531	531	531	531	531	531	518
515	524	526	524	525	526	525	524	526	525	524	526	524	525	526	524	515
456	465	472	472	474	473	472	471	473	471	472	474	471	472	473	472	456

Average PPFD: 461 μ mol/m²/s Middle PPFD: 551 μ mol/m²/s
It's 1.8 meters between center of Lamps.

Mouting height 23.5 inch(60cm)

610	618	623	618	617	623	617	618	623	617	618	623	617	616	623	617	609
665	679	683	679	680	683	680	679	683	679	680	683	679	680	683	679	665
679	725	732	731	730	732	730	730	732	731	732	732	731	730	732	725	679
680	731	759	746	745	759	745	747	759	746	745	759	746	745	759	731	680
678	725	732	731	730	732	730	730	732	731	732	732	731	730	732	725	678
665	524	526	524	525	526	525	524	526	525	524	526	524	525	526	524	665
610	618	623	618	617	623	617	618	623	617	618	623	617	616	623	617	609

Average PPFD: 573 μ mol/m²/s Middle PPFD: 759 μ mol/m²/s
It's 1.8 meters between center of Lamps.

Mouting height 31.5 inch(80cm)

512	528	531	525	525	531	525	525	531	525	525	531	525	525	532	522	515
523	582	583	586	584	586	584	584	586	584	584	586	584	584	586	582	523
524	607	609	607	607	609	607	607	609	607	607	609	607	607	609	607	524
524	609	614	608	609	614	608	609	614	608	609	614	608	609	614	608	524
523	607	609	607	607	609	607	607	609	607	607	609	607	607	609	607	523
524	582	583	586	584	586	584	584	586	584	584	586	584	584	586	582	524
512	528	531	525	525	531	525	525	531	525	525	531	525	525	532	522	515

Average PPFD: 495 μ mol/m²/s Middle PPFD: 614 μ mol/m²/s
It's 1.8 meters between center of Lamps.

Mouting height 19.5 inch(50cm)

676	682	683	681	681	683	681	681	683	681	681	683	681	681	683	681	676
759	763	766	764	764	766	764	764	766	764	764	766	764	764	766	763	759
765	829	833	829	829	833	829	829	833	829	829	833	829	829	833	829	765
766	833	854	836	837	854	836	836	854	836	836	854	836	836	854	836	766
765	829	833	829	829	833	829	829	833	829	829	833	829	829	833	829	765
759	763	766	764	764	766	764	764	766	764	764	766	764	764	766	763	759
676	682	683	681	681	683	681	681	683	681	681	683	681	681	683	681	676

Average PPFD: 617 μ mol/m²/s Middle PPFD: 854 μ mol/m²/s
It's 1.8 meters between center of Lamps.

Mouting height 27.5 inch(70cm)

556	563	564	564	563	564	563	564	563	564	563	564	563	564	563	564	556
617	631	635	631	631	635	632	632	635	631	631	635	631	631	635	631	615
623	677	679	677	677	679	677	677	679	677	677	679	677	677	679	677	674
625	679	682	678	679	682	678	679	682	678	679	682	608	609	682	608	675
624	677	677	677	677	677	677	677	607	677	677	678	677	677	679	677	674
619	631	635	631	631	635	632	632	635	631	631	635	631	631	635	631	618
556	564	563	565	565	563	565	565	563	565	565	563	565	564	562	570	

Average PPFD: 532 μ mol/m²/s Middle PPFD: 682 μ mol/m²/s
It's 1.8 meters between center of Lamps.

Mouting height 15.5 inch(40cm)

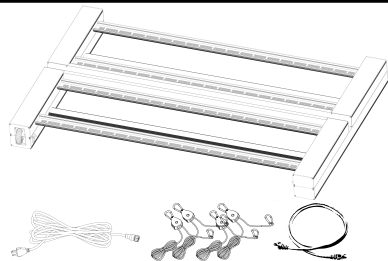
779	782	783	784	783	784	783	783	784	784	784	783	783	783	782	782	779
837	854	875	855	855	875	855	855	875	855	855	875	855	855	875	854	852
852	936	943	936	936	943	936	936	943	936	936	943	936	936	943	936	674
854	943	970	951	951	970	951	951	970	951	951	970	951	951	970	943	675
853	936	943	936	936	943	936	936	943	936	936	943	936	936	943	936	674
838	853	875	853	853	875	853	855	875	855	855	875	855	854	875	854	851
779	782	783	784	783	784	783	783	784	784	784	783	783	783	782	782	779

Average PPFD: 665 μ mol/m²/s Middle PPFD: 970 μ mol/m²/s
It's 1.8 meters between center of Lamps.

Lighting Requirements for Cannabis

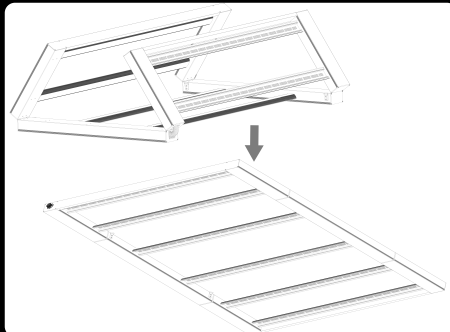
	 Propagation & Cutting 14 Days	 Vegetative Growth 21+ Days Depending on strategy	 Veg-to-Flower Transition 3-7 Days	 Flower 8-10 Weeks Including transition and depending on cultivar	 Stock Plants (mothers) Slow Growth	 Stock Plants (mothers) Rapid Growth
Avg. Light Intensity Measured in $\mu\text{mol m}^{-2}\text{s}^{-1}$	150-200	200 Increasing gradually to 450-550 over 21 days	450-550 Increasing to 700-800	700 - 800	350-450	500-600
Photoperiod Hours of light	18	18	12	12	18	18
Ambient Room Temp. (Day) $^{\circ}\text{F} ^{\circ}\text{C}$	70-72 $^{\circ}\text{F}$ 21-23 $^{\circ}\text{C}$	80-85 $^{\circ}\text{F}$ 26-29 $^{\circ}\text{C}$	80-85 $^{\circ}\text{F}$ 26-29 $^{\circ}\text{C}$	80-85 $^{\circ}\text{F}$ 26-29 $^{\circ}\text{C}$	70-75 $^{\circ}\text{F}$ 21-24 $^{\circ}\text{C}$	80-85 $^{\circ}\text{F}$ 26-29 $^{\circ}\text{C}$
Ambient Room Temp. (Night) $^{\circ}\text{F} ^{\circ}\text{C}$	60-70 $^{\circ}\text{F}$ 16-21 $^{\circ}\text{C}$	70-75 $^{\circ}\text{F}$ 21-24 $^{\circ}\text{C}$	70-75 $^{\circ}\text{F}$ 21-24 $^{\circ}\text{C}$	70-75 $^{\circ}\text{F}$ 21-24 $^{\circ}\text{C}$	65-70 $^{\circ}\text{F}$ 18-21 $^{\circ}\text{C}$	70-75 $^{\circ}\text{F}$ 21-24 $^{\circ}\text{C}$
Ambient Relative Humidity (Day) (RH)	100% until root-ed within 4-7 days, then vent to 80%	75-80% (early) 55-67% (mid/late veg)	55-67%	55-67% (early) 50-62% (mid/late flower)	50-60%	55-67%
Ambient Relative Humidity (Night) (RH)	Same as daytime, see "Propagation" section below for more information	75-80% (early) 55-67% (mid/late veg)	55-67%	55-67% (early) 42-57% (mid/late flower)	50-60%	55-67%
Vapor Pressure Deficit (Day) (Measured in kPA)	0	0.67-1.00 (early) 1.11-1.80 (late)	1.11-1.80	1.11-1.80 (early) 1.28-2.00 (late)	1.00-1.49	1.11-1.80
Vapor Pressure Deficit (Night) (Measured in kPA)	0	0.50-0.75 (day) 0.82-1.34 (night)	0.82-1.34	0.50-0.75 (day) 0.82-1.34 (night)	0.83-1.24	0.82-1.34
CO₂ Enrichment (Measured in ppm)	-	1200-1500	1200-1500	1200-1500	0	1200-1500

INSTALLATION

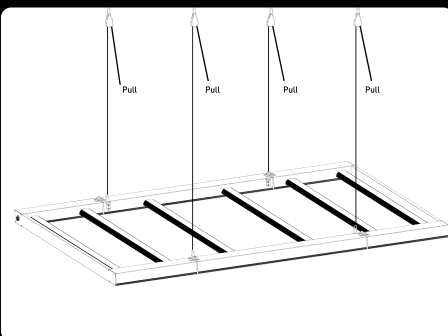


2m power plug wire (1PCS)
Adjustable hook (4PCS)
2m network cable(Only LNGL-640W-CXW have)

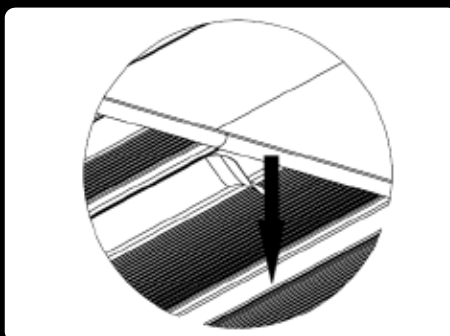
1 Take out lamps and accessories from the box



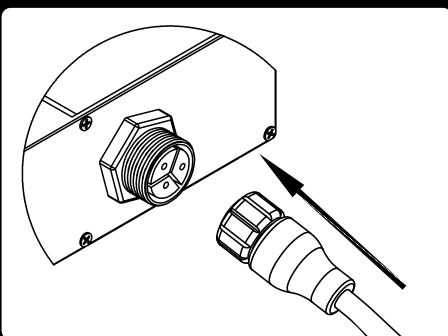
2 Unfold and level the lamp.



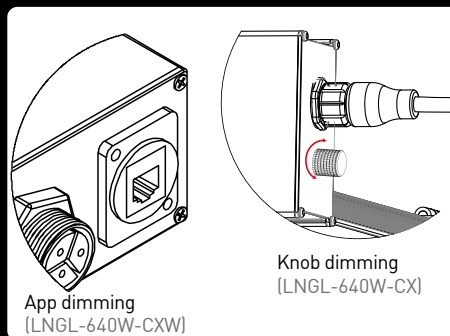
3 Fix the hook to the top of the shed and connect to the grow lamp to make it suspend well



4 Tear off protective film.



5 Connect to the power supply.



6 Dimming, if necessary.

WARRANTY TERMS

1. We offer 5 years warranty for our FX Series LED grow lights purchased against manufacturing defects from the date of purchase. If you need any warranty assistance, please contact us as soon as possible.

2. The warranty does not cover damage due to high moisture levels, water, power surges, improper hanging or mounting, incorrectly use, dust build-up, or user modifications.

3. If your light has any quality issue within 30 days, please kindly contact us. We will email you a prepaid return label if the lights need to be returned to our warranty center. You can choose:



Replacement. Please send the light back to our warranty center. A new replacement will be shipped to you for free as soon as we receive the defective light.



Money-Back. Please send the light back to our warranty center. You will get your money back as soon as we receive the defective light.



Repairing. We can send the part immediately if it is missing part or accessory issue. Or you also can choose to return the light. We will send the light back to you after fixing it. It will not cost any repair charge — all for free.

4. Repairing. If any light has any quality issue over 30 days after delivery, please kindly contact us to get a satisfactory solution. We can send the part free of charge immediately if it is missing part or accessory issue. Or you also can choose to return the light with the provided prepaid shipping label. We will send the light back to you after fixing it — all for free.

5. If a light was not covered under warranty, we might still be able to perform warranty service. However, that is at our discretion, and repair may bear a cost that will be assessed before repairing the light.

Our company reserves the interpretation right of this warranty structure. If you have any questions about our warranty policy, please kindly contact us.

CONTROLLER INTRODUCTION

(LNGL-640W-CXW OPTIONAL)



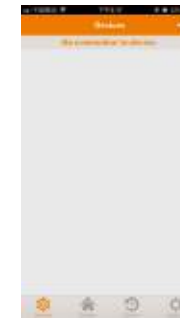
Product features

- No need for a switchboard.
- Easy and safe installation (low voltage device).
- Protected against short circuit.
- Double temperature safety feature.
- Control up to 100 lamps.
- Show output as W or %.
- Auto shutdown at temperature setting.
- APP Smart control of lamps.

Connect mobile phone with controller



1.Download "SmartMesh" from App store or Google Play.



2.Turn on Bluetooth on Phone,click "+" and scan QR code on the back of Master Controller.Then click "Next".



On setting ID page, there is ID's QR code to scan.(See page 5)



3.Click "PL Controller".



4. After the mobile phone successfully connects to the controller, the "no connect to device" prompt on the top will disappear.

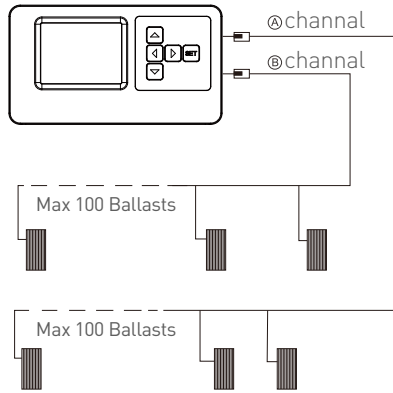


5. Setting Done, then click "SAVE".

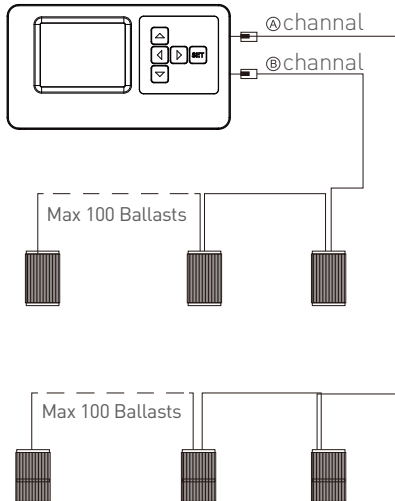


6.Done.

Introduction to product connection



Connecting the controller to complete ballasts	
1	Switch the rotary knob on all ballasts to "EXT".
2	Plug the RJ14 end of the provided controller cable into the RJ14 main port of the controller
3	Plug the RJ14 end of the controller cable(s) into the input of a RJ14 splitter. Use an Interconnect cable to connect one output of the RJ14 splitter to the RJ14 port the ballasts
4	Use an interconnect cable to connect one output of the RJ14 splitter to the input of the following RJ14 splitter
5	Repeat this process to connect up to 100 pcs ballasts

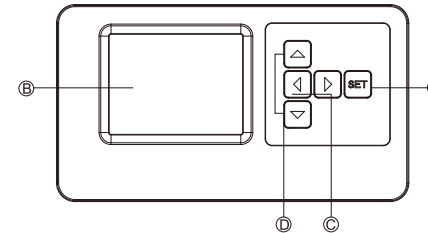
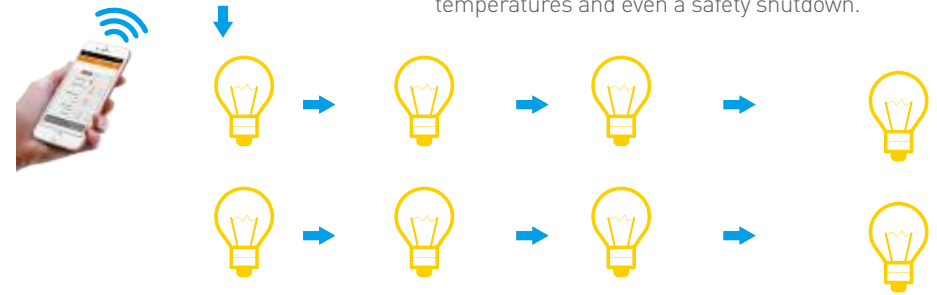


Connecting the controller to complete ballasts	
1	Switch the rotary knob on all ballasts to "EXT".
2	Plug the RJ14 end of the provided controller cable into the RJ14 main port of the controller
3	Plug the RJ14 end of the controller cable(s) into one of the two RJ14 ports of the first ballast
4	Interconnect the remote ballast to the next ballast in line using an interconnect cable with RJ14 plugs Up to 100 pcs ballasts may be daisy chained this way

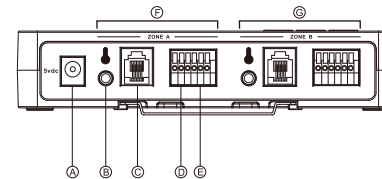
- 💡 Set output level from 0% to 115%.
- 🕒 Sunrise/Sunset Timing Setup.
- 📶 Temperature and Humidity Sensors with solid cable connection.
- 📱 APP Operation on the Phone to Master Controller via BlueTooth.



- ◆ These fixture can be controlled centrally by our Smart controller.
- ◆ This replaces the often cumbersome installation with contactors and clocks, adds safety features such as automatic dimming of your lights at high temperatures and even a safety shutdown.



CONTROLLERS		
A	key	Function
B	Set	To get cursor(long press)/Confirm (short press)
C	Display	Display status and controllermenu
D	Right/Left	Move cursor
E	Up/Down	Changer the Value



连接	
A	5V DC input
B	3.5mm Jack aux temperature sensor
C	RJ14 aux port for controlling up to 100 pcs ballasts
D	Relay switch controlled by temperature senor
E	Relay switch controlled by humidity
F	Zone A
G	Zone B, same functions as Zone A

Using steps



(1) Click Setting Icon on the Lower Right Conner .



★ Menu



★ 0-10V/PWN exchange



★ Sunrise/sunset settings:

1. Group A corresponds to Zone A, Group B corresponds to Zone B.
2. Click the "Active" button to start the sunrise/sunset function of the group, Click the "Disable" button to stop the sunrise/sunset function of the group.
3. The gradient time can be set from 0 to 60 minutes.



★ On setting ID page,there is ID's QR code to scan



★ Help Page



- Custom power : Custom power can be selected in the power settings on the main page.
- Percentage (Min): Set the minimum percentage of main page power.
- Percentage(Max): Set the maximum percentage of the main page power.



★ (2) Return back to home page , it is set successfully.



400
600
630
800
1000
315

— The Default Power

— User Custom Power

★ Notes : Above is the power setting or order, User Custom Power comes last,users can choose the corresponding power according to the needs.



Android



iOS