

LNLED®

OPTIMAL PERFORMANCE LED GROW LIGHTS



850W
SERIES

Dimmable Function

Higher Efficiency

No Fan Zero Noise

Sunlike Spectrum



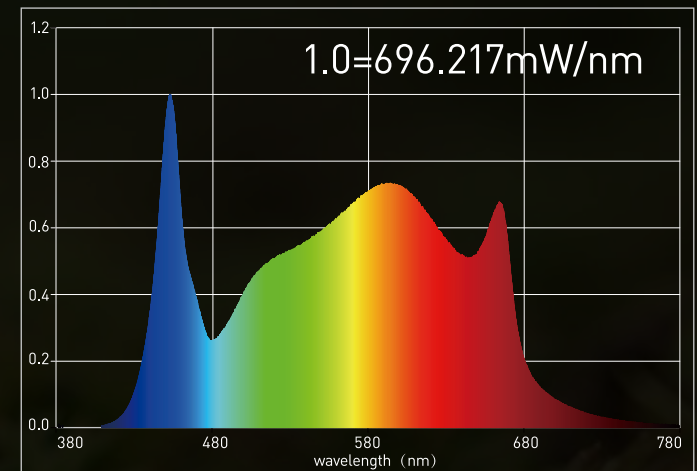
HIGH EFFICIENCY

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

2300 $\mu\text{mol}/\text{s}$
HIGH PPF, UNIFORM OUTPUT

850W
ACTUAL POWER

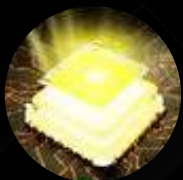
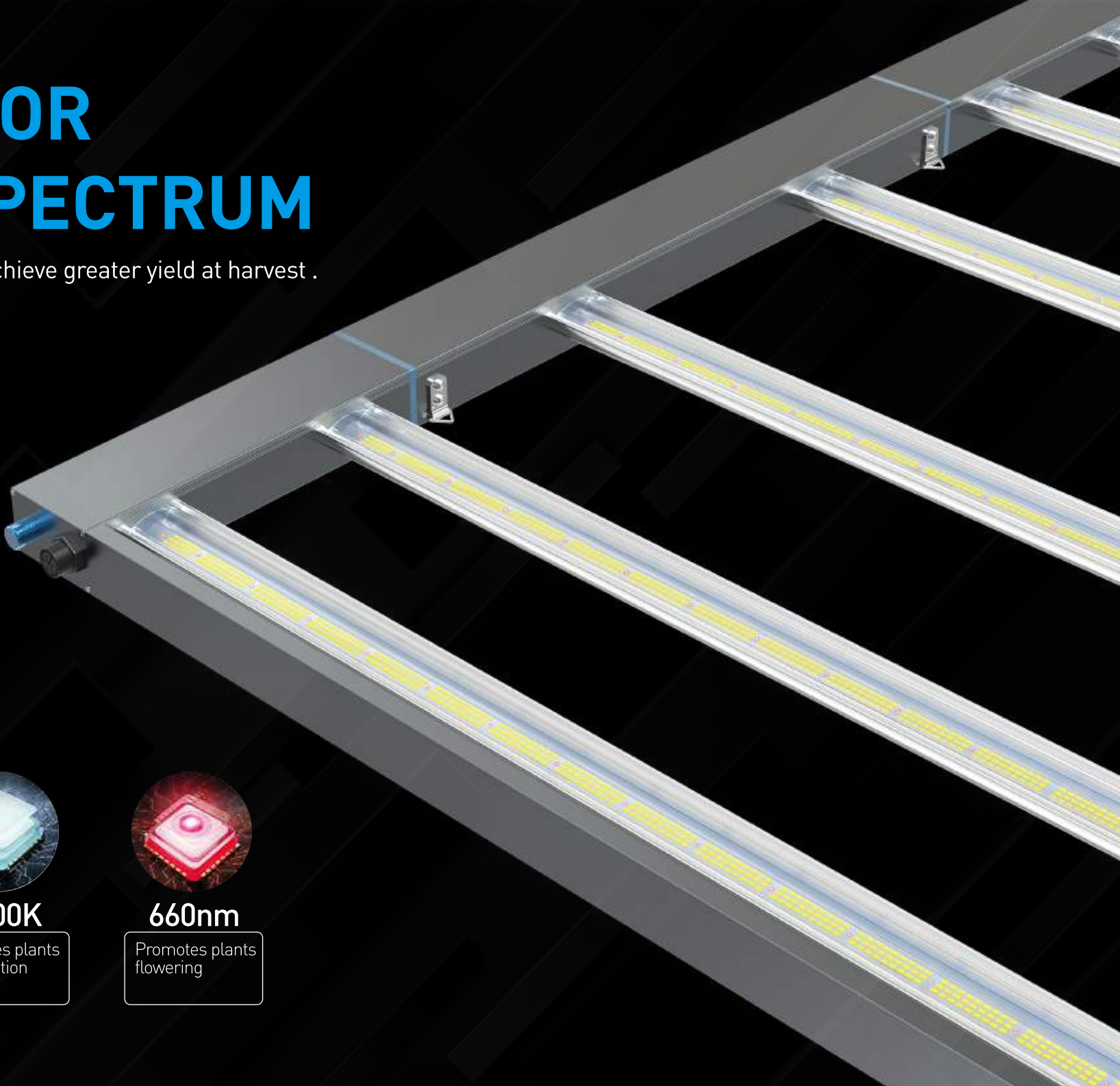
5 years
Trusted Warranty



OPTIMAL FULL SPECTRUM

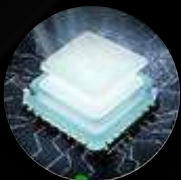
SUPERIOR FULL SPECTRUM

High energy efficiency Achieve greater yield at harvest .



3000K

Boosts plants
flowering and
increased yields



5000K

Promotes plants
germination

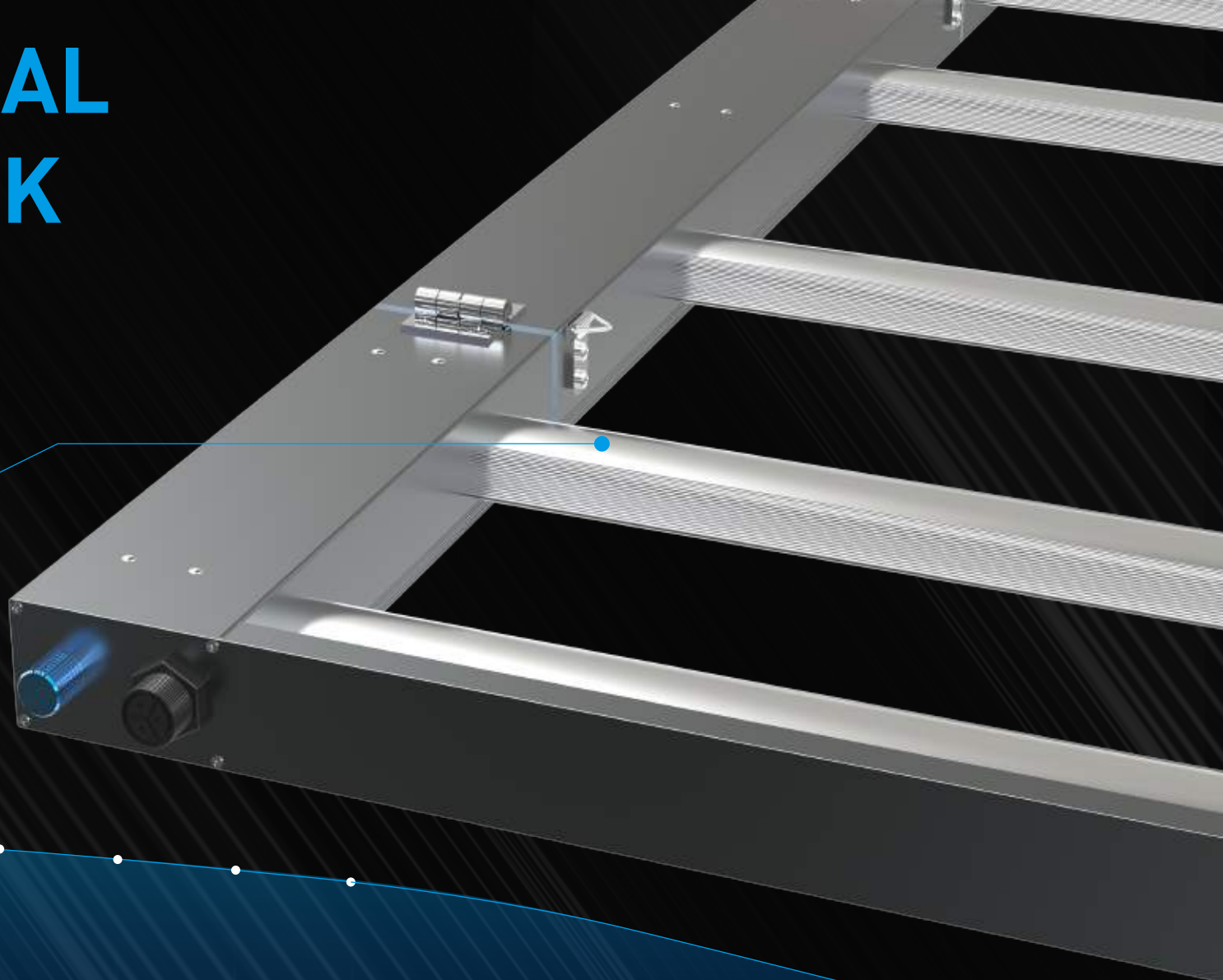
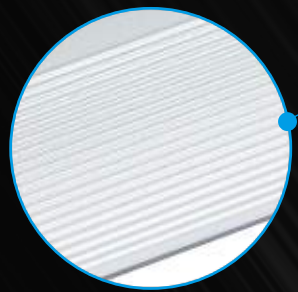


660nm

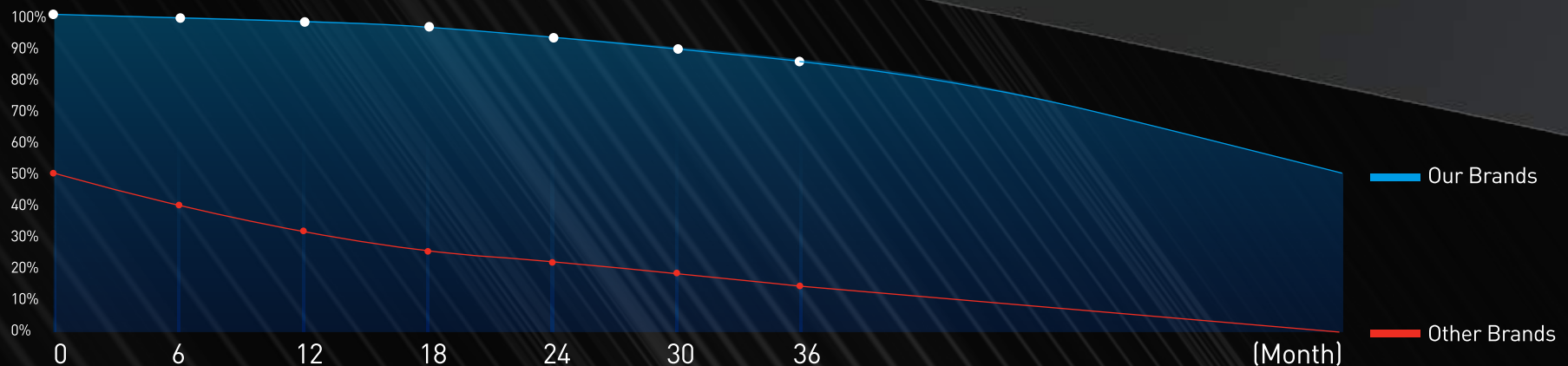
Promotes plants
flowering

THICK REAL HEAT SINK

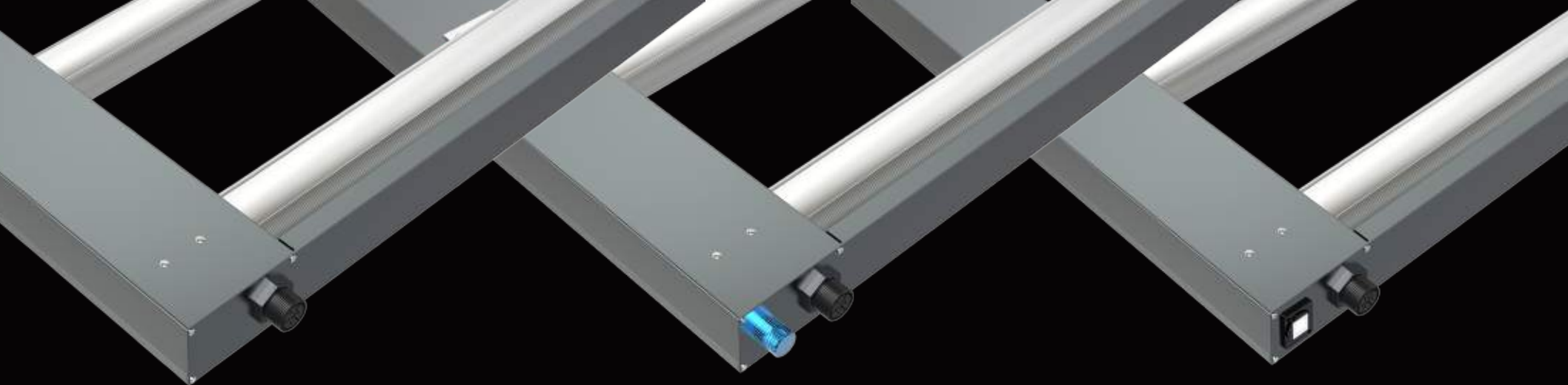
25% Cooler



Light Decays



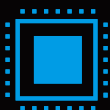
The higher the temperature, the faster the light decays.
The faster the light decays, the lower the yield produces.



LNGL-850W-ND



MEAN WELL
Driver



APT ELECTRONICS
LEDs



No DIMMING

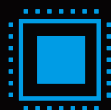
Accessory



LNGL-850W-CX



MEAN WELL
Driver



APT ELECTRONICS
LEDs



KNOB DIMMING
0-10V

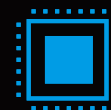
Accessory



LNGL-850W-CXW



MEAN WELL
Driver



APT ELECTRONICS
LEDs



APP DIMMING
Network Control

Accessory



PPF	2300±50μmol/s	Vegetative Coverage at 30"	6 x 8ft
Actual Power	850W ± 5%	Flowering Coverage at 12"	4 x 6 ft
Efficacy	2.7 μmol/J	Use for	All growth stages
Total Harmonic Distortion	< 15%	Procut Dimensions	122x 125x 4.8cm
AC Input	AC100-240V / 277V	Item Weight	18.2KG (NW) / 19.5(GW)
Frequency	50/60Hz	HID Replacement	1800W 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	4680kg	9457.5kg	11700kg
Volume of products	30.7m³	62.75m³	72.9m³

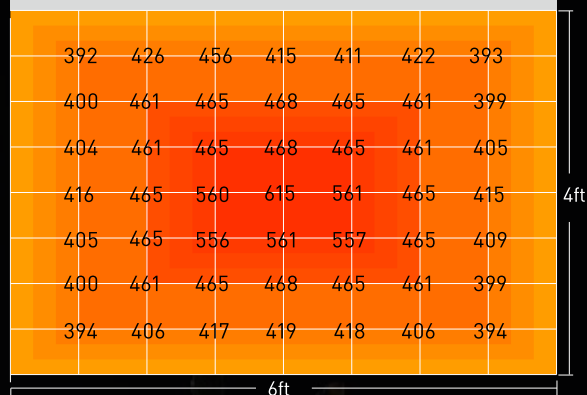
RECOMMENDED INSTALLATION HEIGHT



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

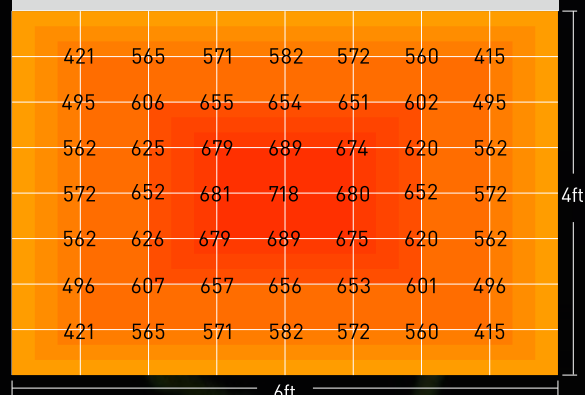
Mouting height 36 inch(91.5cm)



Average PPFD: 440 μ mol/m²/s

Middle PPFD: 615 μ mol/m²/s

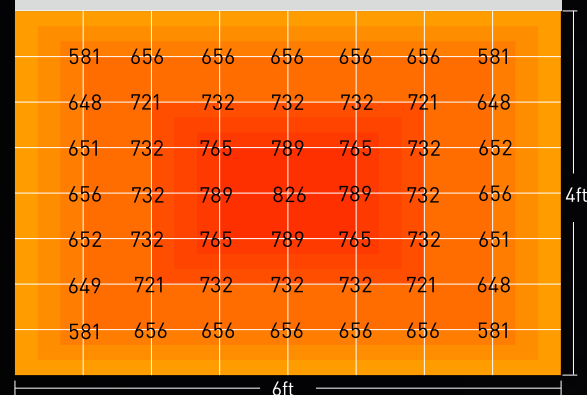
Mouting height 31.5 inch(80cm)



Average PPFD: 499 μ mol/m²/s

Middle PPFD: 718 μ mol/m²/s

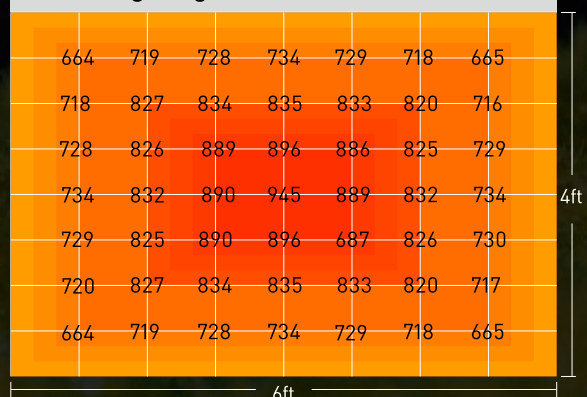
Mouting height 27.5 inch(70cm)



Average PPFD: 557 μ mol/m²/s

Middle PPFD: 826 μ mol/m²/s

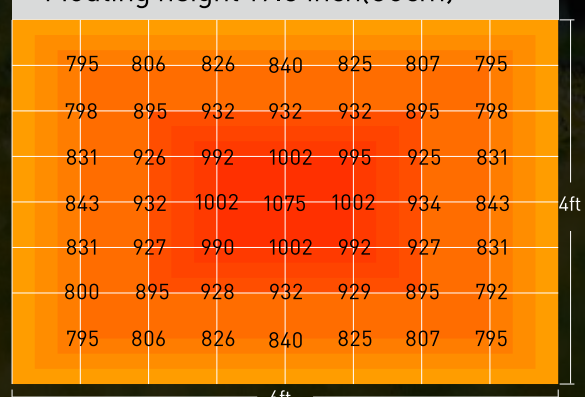
Mouting height 23.5 inch(60cm)



Average PPFD: 626 μ mol/m²/s

Middle PPFD: 945 μ mol/m²/s

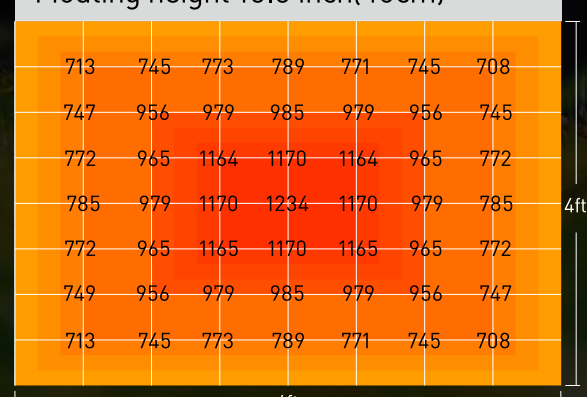
Mouting height 19.5 inch(50cm)



Average PPFD: 702 μ mol/m²/s

Middle PPFD: 1079 μ mol/m²/s

Mouting height 15.5 inch(40cm)



Average PPFD: 791 μ mol/m²/s

Middle PPFD: 1234 μ mol/m²/s

Multiple lights-5pcs PPFD map

Mouting height 36 inch(91.5cm)

556	565	572	572	574	573	572	571	573	571	572	574	571	572	573	572	556
615	624	624	624	624	624	625	626	625	626	625	626	624	624	624	624	615
618	673	690	685	685	690	686	685	690	685	686	690	686	685	690	673	618
618	690	743	690	690	743	540	540	743	540	540	743	743	540	743	690	618
618	672	690	685	685	690	686	685	690	685	686	690	686	685	690	672	618
615	624	626	624	625	626	625	624	626	625	624	626	624	625	626	624	615
556	565	572	572	574	573	572	571	573	571	572	574	571	572	573	572	556

30ft

4ft

Average PPFD: 622 μ mol/m²/s Middle PPFD: 743 μ mol/m²/s
It's 1.8 meters between center of Lamps.

Mouting height 23.5 inch(60cm)

610	618	723	618	717	723	717	718	723	717	718	723	717	716	723	717	709
825	849	843	839	840	843	840	839	843	839	840	843	839	840	843	839	825
839	925	932	931	930	932	930	930	932	931	932	932	931	930	932	925	839
840	931	1025	946	945	1025	945	945	1025	945	945	1025	945	945	1025	932	840
838	925	932	931	930	732	930	930	932	931	932	932	931	930	932	925	838
825	849	843	839	840	843	840	839	843	839	840	843	839	840	843	839	825
710	718	723	718	717	723	717	718	723	717	718	723	717	716	723	717	709

30ft

4ft

Average PPFD: 773 μ mol/m²/s Middle PPFD: 1025 μ mol/m²/s
It's 1.8 meters between center of Lamps.

Mouting height 31.5 inch(80cm)

668	675	680	675	676	680	675	675	680	675	674	680	675	674	680	674	515
726	731	735	731	731	735	731	731	735	731	731	735	731	731	735	730	726
734	781	791	788	788	791	788	788	791	788	788	791	788	788	791	782	734
735	789	829	608	609	829	608	609	829	608	609	829	608	609	829	789	735
734	781	791	788	788	791	788	788	791	788	788	791	788	788	791	782	723
726	731	735	731	731	735	731	731	735	731	731	735	731	731	735	730	734
668	675	680	675	676	680	675	675	680	675	674	680	675	674	680	674	515

30ft

4ft

Average PPFD: 668 μ mol/m²/s Middle PPFD: 829 μ mol/m²/s
It's 1.8 meters between center of Lamps.

Mouting height 19.5 inch(50cm)

776	782	783	781	781	683	781	781	783	781	781	783	781	781	783	781	776
859	863	866	864	864	866	864	864	866	864	864	866	864	864	866	863	859
865	957	983	957	957	983	957	957	983	957	957	983	957	957	983	957	865
866	976	1153	983	983	1153	983	983	1153	983	983	1153	983	983	1153	976	866
865	957	983	957	957	983	957	957	983	957	957	983	957	957	983	957	865
859	863	866	864	864	866	864	864	866	864	864	866	864	864	866	863	859
776	782	783	781	781	783	781	781	783	781	781	783	781	781	783	781	776

30ft

4ft

Average PPFD: 833 μ mol/m²/s Middle PPFD: 1153 μ mol/m²/s
It's 1.8 meters between center of Lamps.

Mouting height 27.5 inch(70cm)

711	726	735	728	728	735	728	728	735	728	729	735	728	729	735	726	711
779	801	805	801	801	805	802	802	805	801	801	805	801	801	805	801	778
802	877	879	877	877	879	877	877	879	877	877	879	877	877	879	877	802
805	879	920	878	879	920	878	879	920	878	879	920	878	609	920	878	805
802	877	877	877	877	877	877	877	879	877	877	879	877	877	879	877	802
779	801	805	801	801	805	802	802	805	801	801	805	801	801	805	801	778
711	726	735	728	728	735	728	728	735	728	729	735	728	729	735	726	711

30ft

4ft

Average PPFD: 718 μ mol/m²/s Middle PPFD: 920 μ mol/m²/s
It's 1.8 meters between center of Lamps.

Mouting height 15.5 inch(40cm)

879	882	883	884	883	884	883	883	884	884	884	883	883	883	882	882	879
937	954	975	955	955	975	955	955	975	955	955	975	955	955	975	954	937
953	1065	1190	1065	1065	1190	1065	1065	1190	1065	1065	1190	1065	1065	1190	1065	954
954	1190	1350	1190	1190	1350	1190	1190	1350	1190	1190	1350	1190	1190	1350	1190	955
953	1065	1190	1065	1065	1190	1065	1065	1190	1065	1065	1190	1065	1065	1190	1065	954
938	953	975	953	953	975	953	955	975	955	955	975	955	954	975	954	938
879	882	883	884	883	884	883	883	884	884	884	883	883	883	882	882	879

30ft

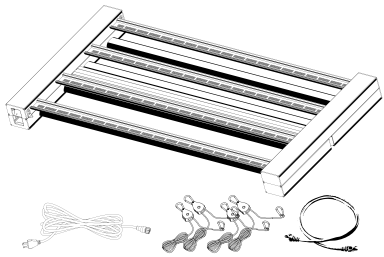
4ft

Average PPFD: 898 μ mol/m²/s Middle PPFD: 1350 μ mol/m²/s
It's 1.8 meters between center of Lamps.

Lighting Requirements for Cannabis

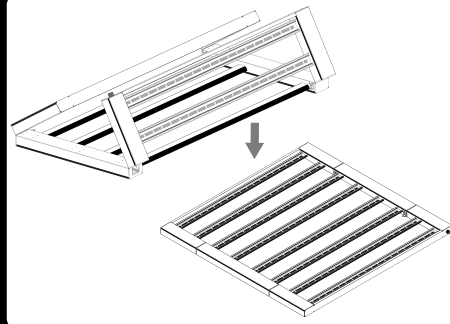
	 Propagation & Cutting 14 Days	 Vegetative Growth 21+ Days Depending on strategy	 Veg-to-Flower Transition 3-7 Days	 Flower 8-10 Weeks Including transition and depending on cultivar	 Stock Plants (mothers) Slow Growth	 Stock Plants (mothers) Rapid Growth
Avg. Light Intensity Measured in $\mu\text{mol m}^{-2}\text{s}^{-1}$	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) °F °C	70-72 °F 21-23 °C	80-85 °F 26-29 °C	80-85 °F 26-29 °C	80-85 °F 26-29 °C	70-75 °F 21-24 °C	80-85 °F 26-29 °C
Ambient Room Temp. (Night) °F °C	60-70 °F 16-21 °C	70-75 °F 21-24 °C	70-75 °F 21-24 °C	70-75 °F 21-24 °C	65-70 °F 18-21 °C	70-75 °F 21-24 °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

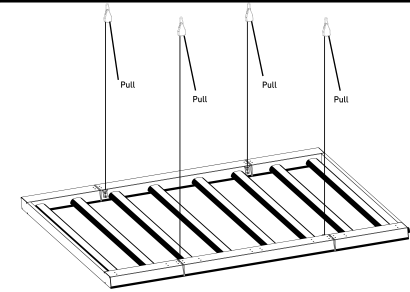


2m power plug wire (1PCS)
Adjustable hook (4PCS)
2m network cable(Only LNGL-640W-CXW have)

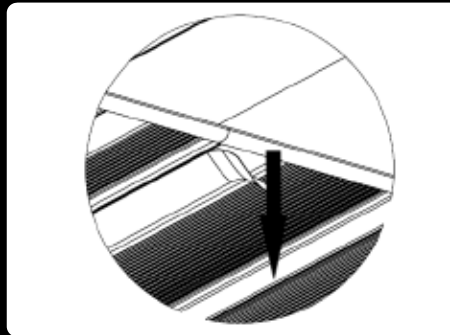
1 Take out lamps and accessories from the box



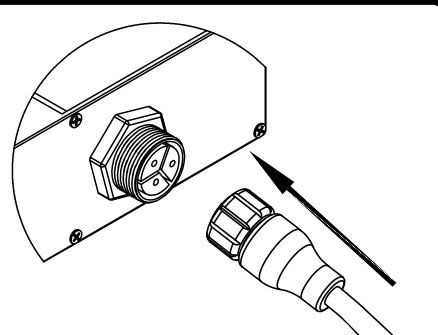
2 Unfold and level the lamp.



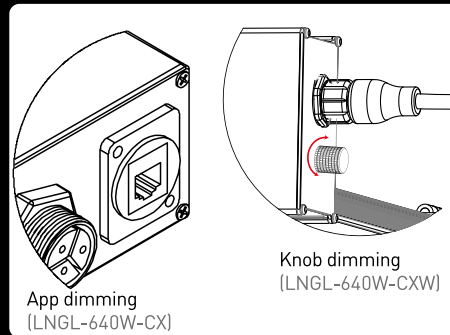
3 Fix the hook to the top of the shed and connect to the grow lamp to make it suspend well



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-850W-CXW OPTIONAL)



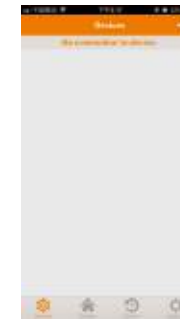
Product features

- 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.

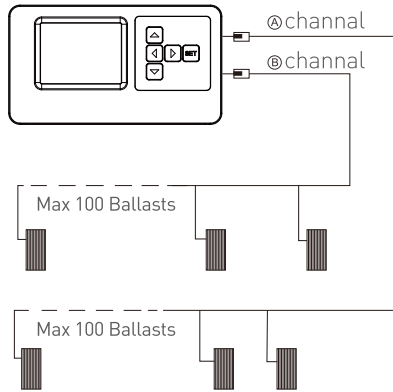


5. Setting Done, then click "SAVE".

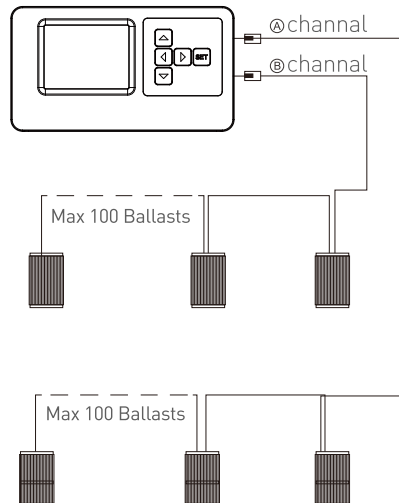


6.Done.

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

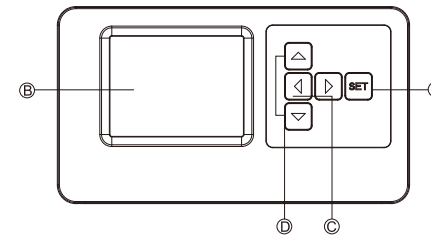
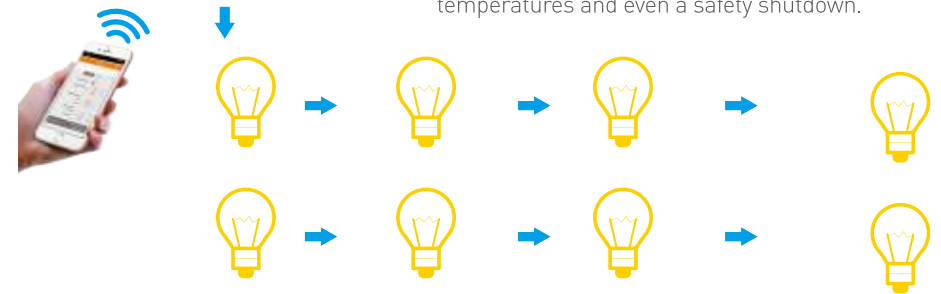


Connecting the controller to complete ballasts	
1	Switch the rotary knob on all ballasts to "EXT".
2	Plug the RJ14 end of the provided controller cable into the RJ14 main port of the controller
3	Plug the RJ14 end of the controller cable(s) into one of the two RJ14 ports of the first ballast
4	Interconnect 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

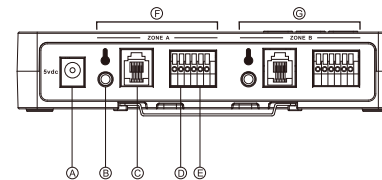
- Set output level from 0% to 115%.
- Sunrise/Sunset Timing Setup.
- Temperature and Humidity Sensors with solid cable connection.
- APP Operation on the Phone to Master Controller via BlueTooth.



- 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 sensor
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	— The Default Power
1000	
315	— 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