



# HELENOR H6 HELENOR X6



**POWERED BY**



**OSRAM**



**LITE SCIENCE®**

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# HELENOR

Designed for commercial grow of medical plants

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## HELENOR LED GROW LIGHT

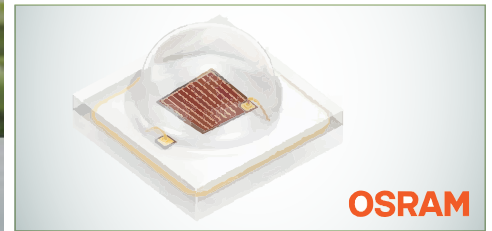
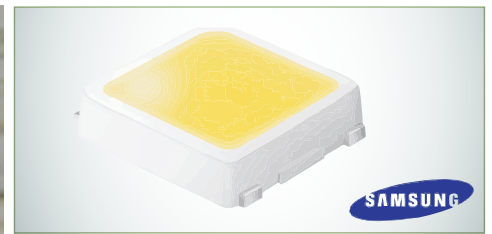
- Efficacy up to 2.85  $\mu\text{mol}/\text{J}$
- SAMSUNG LM301B/LM301H , OSRAM 660nm
- MEAN WELL LED driver
- Knob dimming+RJ port dimming 0%- 100%
- Folding design for fast and easy installation
- High Yield: more than 2 grams per watt
- 5~7 years warranty

### Technical Specifications

Fixture	HELENOR H6 480W		HELENOR X6 480W
	Input Voltage +/- 10%	120 Volts	240 Volts
Max. Input Current	4.1 Amps	2.15 Amps	1.9 Amps
Power Factor	0.99	0.95	0.95
Max. Wattage +/- 3%	480 Watts	480 Watts	480 Watts
Qty. of Light Bars	6 Bars	6 Bars	6 Bars
Light Output PPF	1264~1347 $\mu\text{mol}/\text{s}$	1264~1347 $\mu\text{mol}/\text{s}$	1264~1347 $\mu\text{mol}/\text{s}$

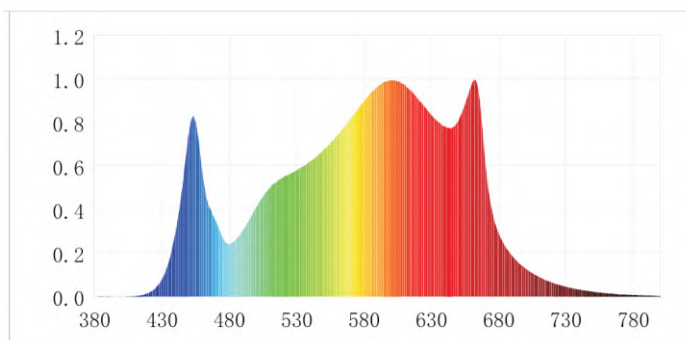
Fixture	HELENOR H6 640W		HELENOR X6 640W
	Input Voltage +/- 10%	120 Volts	240 Volts
Max. Input Current	5.45 Amps	2.9 Amps	2.5 Amps
Power Factor	0.99	0.95	0.95
Max. Wattage +/- 3%	640 Watts	640 Watts	640 Watts
Qty. of Light Bars	6 Bars	6 Bars	6 Bars
Light Output PPF	1695~1824 $\mu\text{mol}/\text{s}$	1695~1824 $\mu\text{mol}/\text{s}$	1695~1824 $\mu\text{mol}/\text{s}$

## Details



LED Driver	MEAN WELL	Surge Protection	4KV
Dimming	Knob + RJ port	LED Configuration	3000K+4000K & 660nm
Dimming	0%-100%	LED Brand	SAMSUNG & OSRAM
Power Cord Length	6' (1.8 M)	Efficacy	2.63~2.85 $\mu\text{mol}/\text{J}$
IP Rate	IP 65	Mounting Height	>6" (Above Canopy)
Max. Ambient Temp.	95°F (35°C)	Warranty	5~7 years

## Full Spectrum



Wavelength Range	PPF Proportion
< 400nm	0 %
400-500nm	13.62 %
500-600nm	39.33 %
600-700nm	44.34 %
700-800nm	2.71 %

## Coverage Footprint

HELENOR H6 480W

HELENOR X6 480W

Vegetative stage: 4' X 4' ( 1.2m\*1.2m) to 6' X 6' (1.8m \* 1.8m)

Flowering stage: 4' X 4' ( 1.2m\*1.2m) to 5' X 5' (1.5m \* 1.5m)

HELENOR H6 640W

HELENOR X6 640W

Vegetative stage: 4' X 4' ( 1.2m\*1.2m) to 7' X 7' (2.1m \* 2.1m)

Flowering stage: 4' X 4' ( 1.2m\*1.2m) to 5' X 5' (1.5m \* 1.5m)

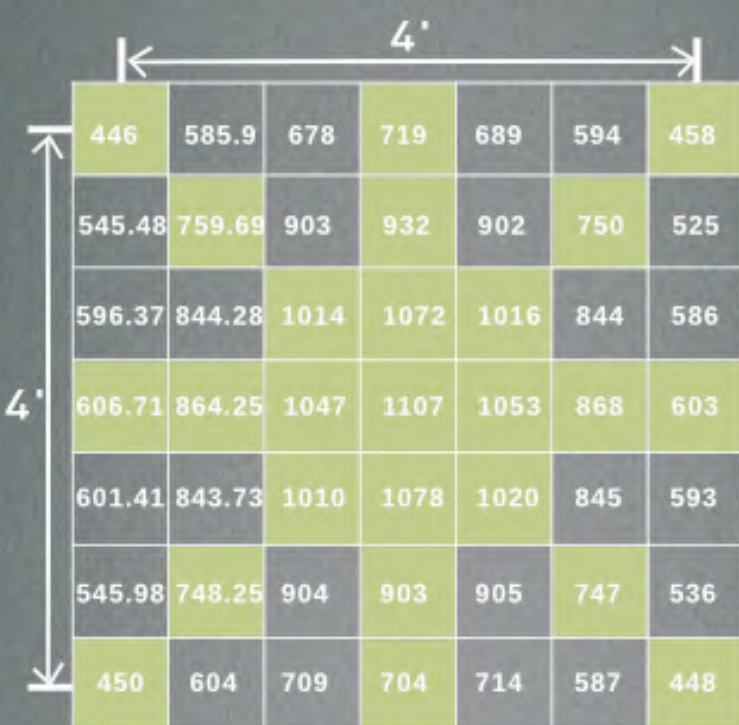
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Height : 12" (30.48mm)  
 Covering Area : 4' X 4' (1.2mX1.2m)  
 Ave. PPFd: 845  $\mu\text{mol}/\text{m}^2/\text{s}$

# HELENOR 640W

Tested in Grow Tent with Reflective Materials



Height : 18" (45.72mm)  
 Covering Area : 4' X 4' (1.2mX1.2m)  
 Ave. PPFd: 759  $\mu\text{mol}/\text{m}^2/\text{s}$



Height : 24" (60.96mm)  
 Covering Area : 4' X 4' (1.2mX1.2m)  
 Ave. PPFd: 693  $\mu\text{mol}/\text{m}^2/\text{s}$



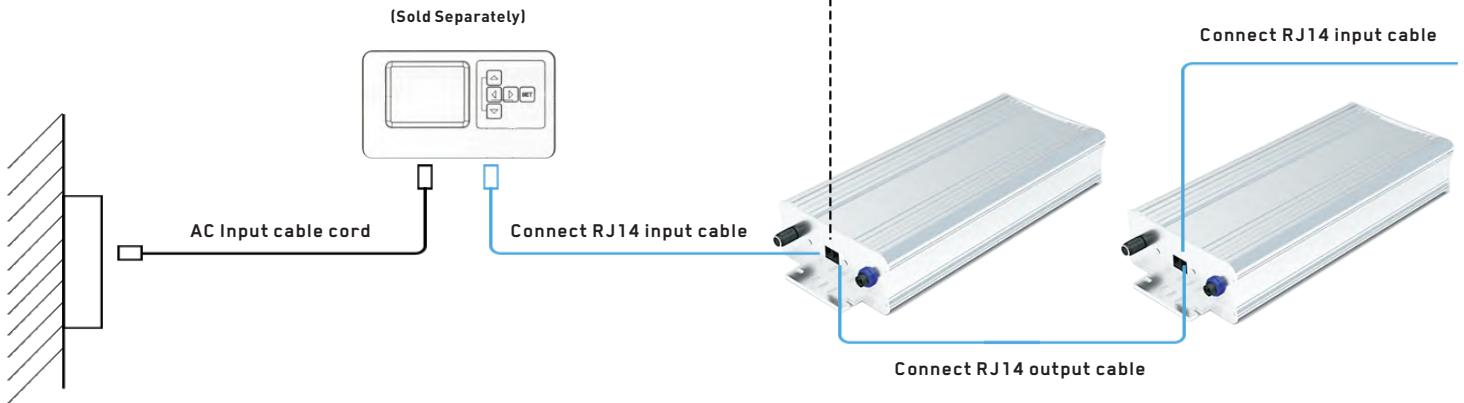
Height : 48" (121.92mm)  
 Covering Area : 4' X 4' (1.2mX1.2m)  
 Ave. PPFd: 536  $\mu\text{mol}/\text{m}^2/\text{s}$

# Knob Dimming+RJ Port dimming 0%-100%



## RJ PORT (WIRE INTRODUCTION)

Group control with external controller like Gavita EI2, Troll Master, etc.



## Control signal input and output

Controller (RJ14 6P4C)						
	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5	PIN 6
	N/A	Dim +	Dim -	Dim -	Dim +	N/A
Fixture (INPUT) Side (RJ14 6P4C)						
	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5	PIN 6
	N/A	Dim +	Dim -	Dim -	Dim +	N/A
Fixture (OUTPUT) Side (RJ14 6P4C)						
	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5	PIN 6
	N/A	Dim +	Dim -	Dim -	Dim +	N/A

## Customized Laser Engraving



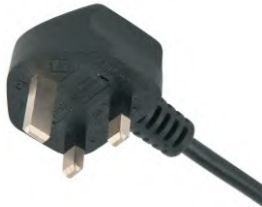
## Options of Plug



USA & Canada & Japan



Europe



UK



Australia

## Indoor Application

Vertical Racks



Open Space



Grow Tent

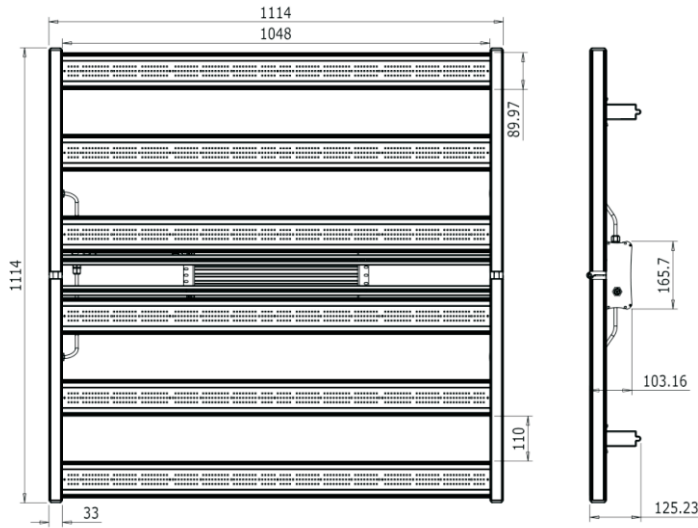


## Grow Tent Reference (Helenor H6 640W)

Applicable Stage	Vegetative & flowering
Yield	> 1,280 grams
Yield ( 1000W HPS )	800 grams to 900 grams
CO <sub>2</sub> Concentration	800 - 1500 ppm
Harvesting	11.5 weeks

Stage	Above Canopy	Dimming
Early Veg.	48" (122cm)	25 %
Late Veg.	48" (122cm)	50 %
Early Flower	24" - 30" (60-75cm)	50 %
Mid. Flower	18" - 24" (45-60cm)	75 - 100 %
Late Flower	6" - 18" (15-45cm)	100 %

## Dimension & Weight



Fixture Dimension:  
1114mm X 1114mm X 103mm  
(43.86" X 43.86" X 4.06")

Fixture Net Weight:  
12.8 kgs ( 28.16 lbs) Including Driver box

## Package

### 1 Unit

Luminaire		Driver Box (480W)	
Carton Size	118cm X 64cm X 15cm 46.46" X 25.2" X 5.9"	Carton Size	55cm X 34cm X 18cm 21.65" X 13.39" X 7.09"
Weight	11.5 kgs	Weight	5 kgs
Qty. / Ctn.	1 piece	Qty. / Ctn.	1 piece

Luminaire		Driver Box (640W)	
Carton Size	118cm X 64cm X 15cm 46.46" X 25.2" X 5.9"	Carton Size	55cm X 34cm X 18cm 21.65" X 13.39" X 7.09"
Weight	11.5 kgs	Weight	6 kgs
Qty. / Ctn.	1 piece	Qty. / Ctn.	1 piece

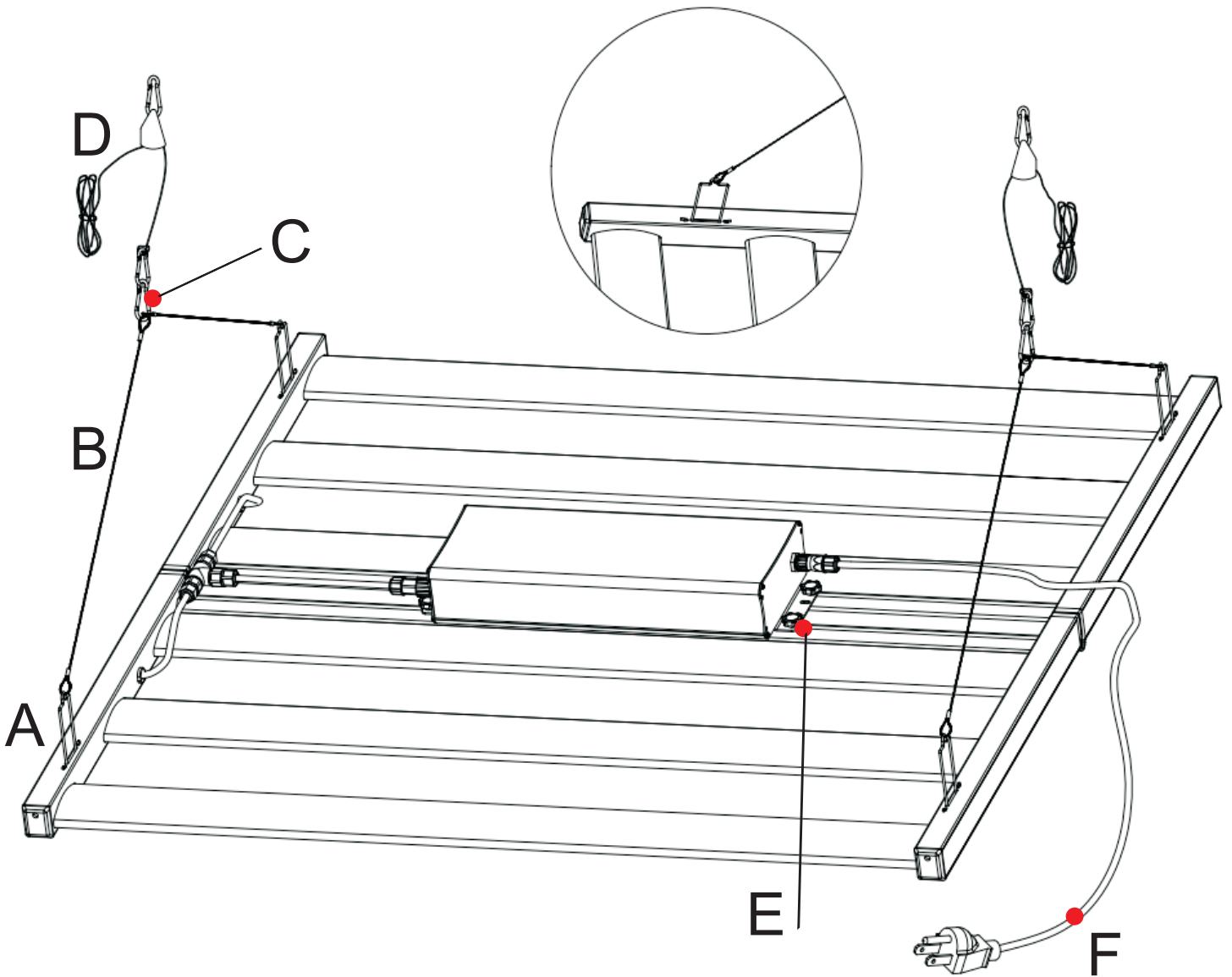
### 2 Unit

Luminaire		Driver Box (480W)	
Carton Size	118cm X 64cm X 25cm 46.46" X 25.2" X 9.84"	Carton Size	55cm X 53cm X 18cm 21.65" X 20.87" X 7.09"
Weight	21.5 kgs	Weight	10.5 kgs
Qty. / Ctn.	2 pieces	Qty. / Ctn.	2 pieces

Luminaire		Driver Box (640W)	
Carton Size	118cm X 64cm X 25cm 46.46" X 25.2" X 9.84"	Carton Size	55cm X 53cm X 18cm 21.65" X 20.87" X 7.09"
Weight	21.5 kgs	Weight	12.5kgs
Qty. / Ctn.	2 pieces	Qty. / Ctn.	2 pieces

## Accessories Contacts

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A: Mounting Clips (4 pcs)

B: 21.26" (54cm) Stainless Steel Ropes (4 pcs)

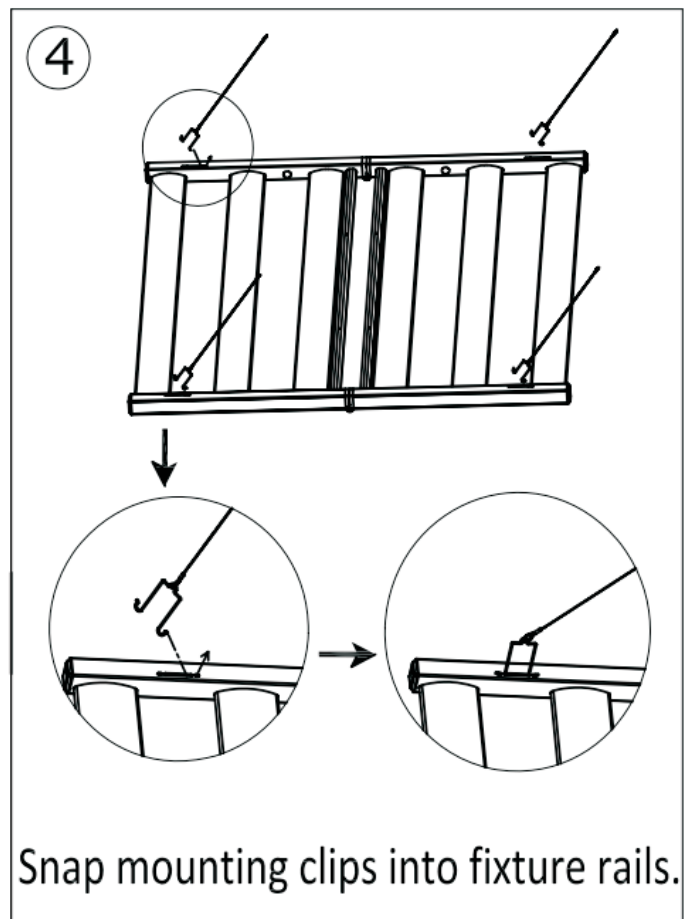
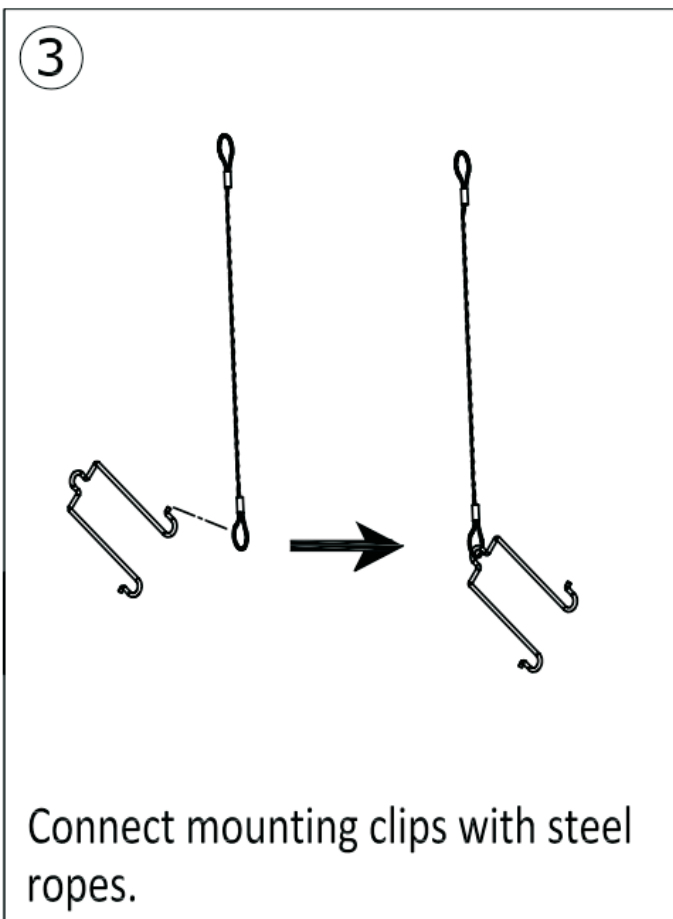
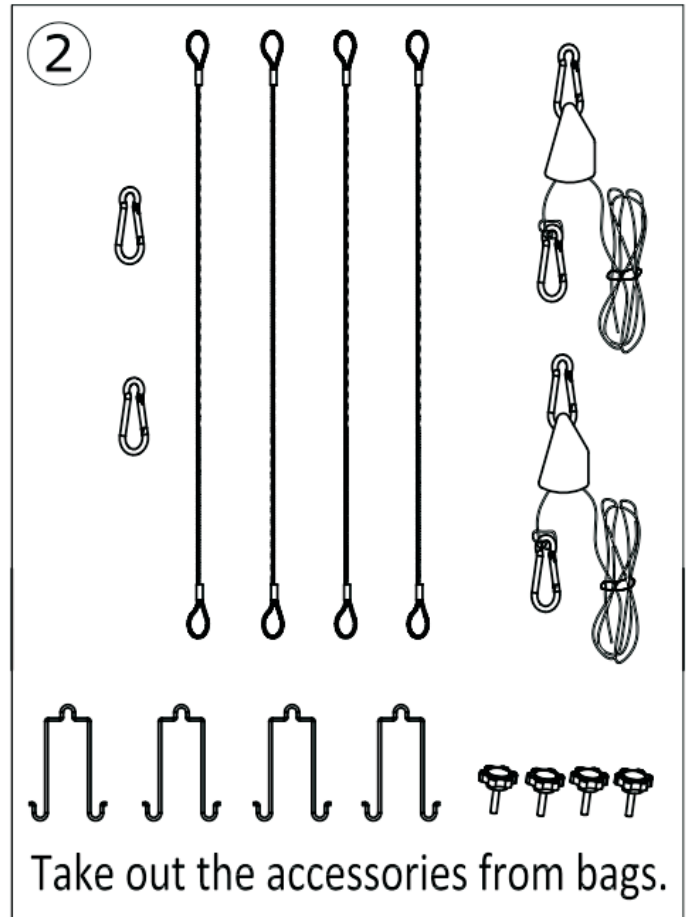
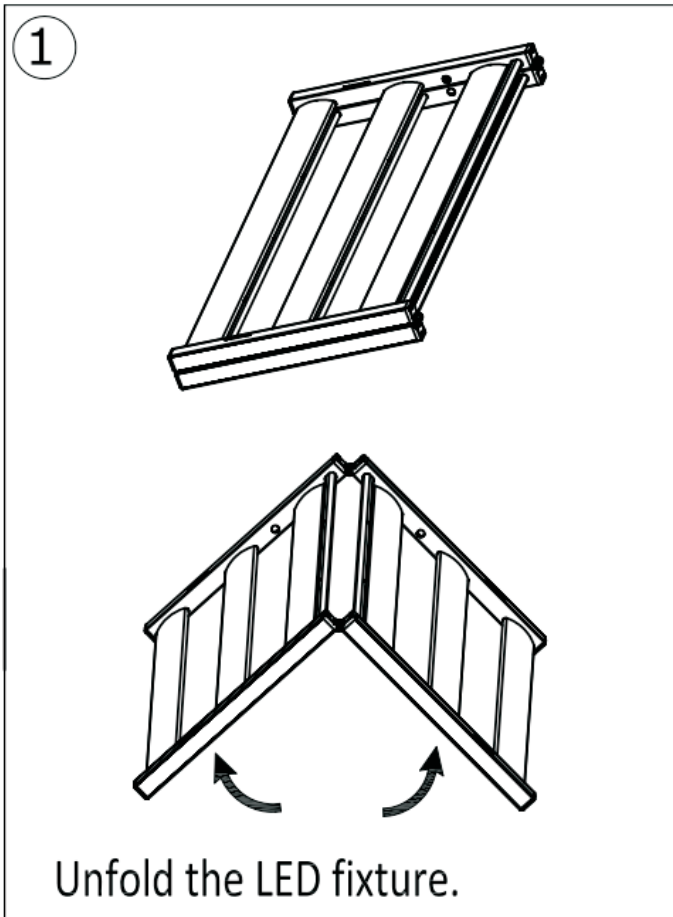
C: Mounting Hooks (2 pcs)

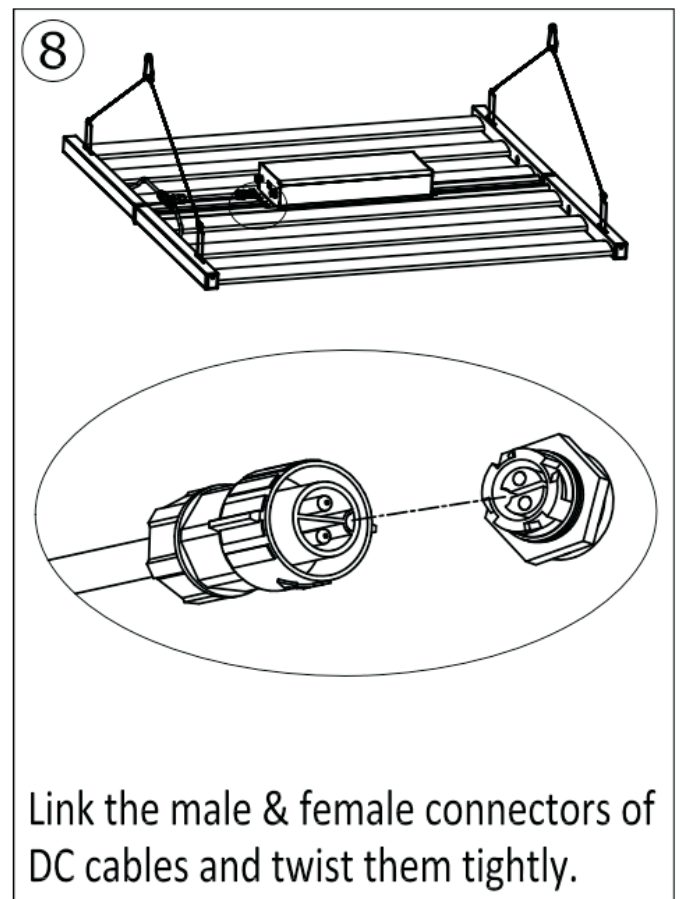
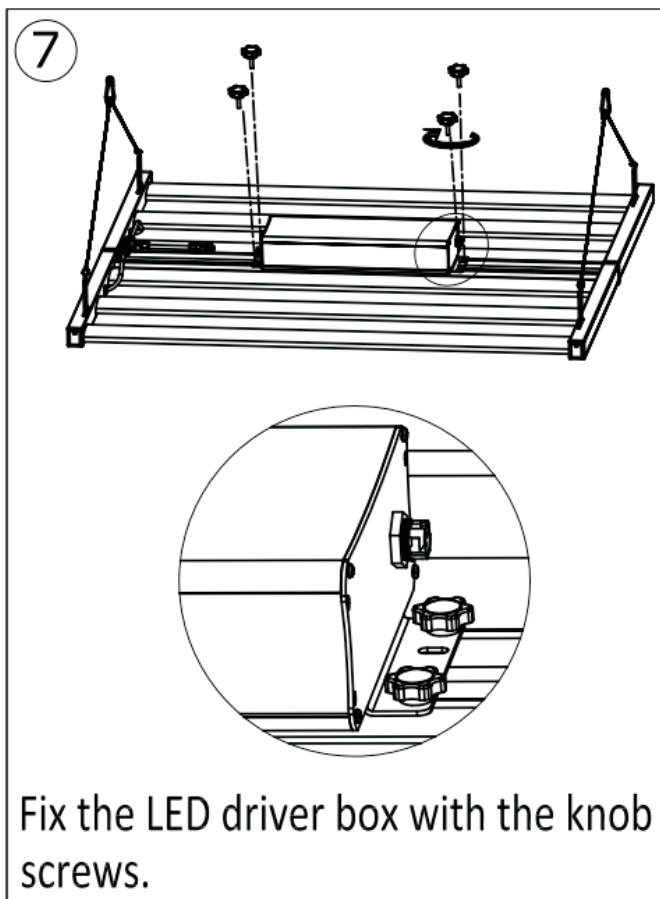
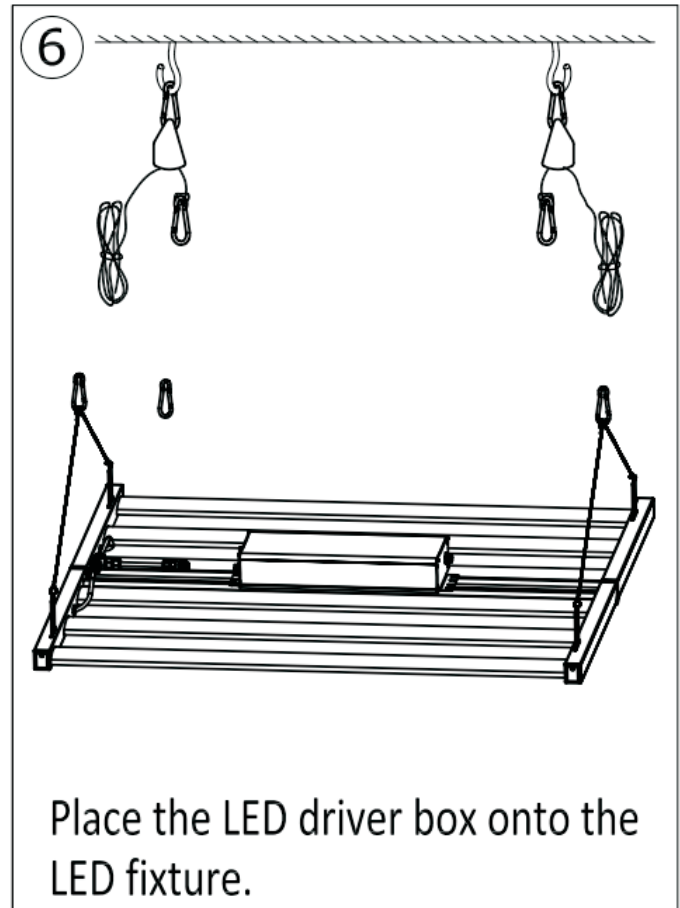
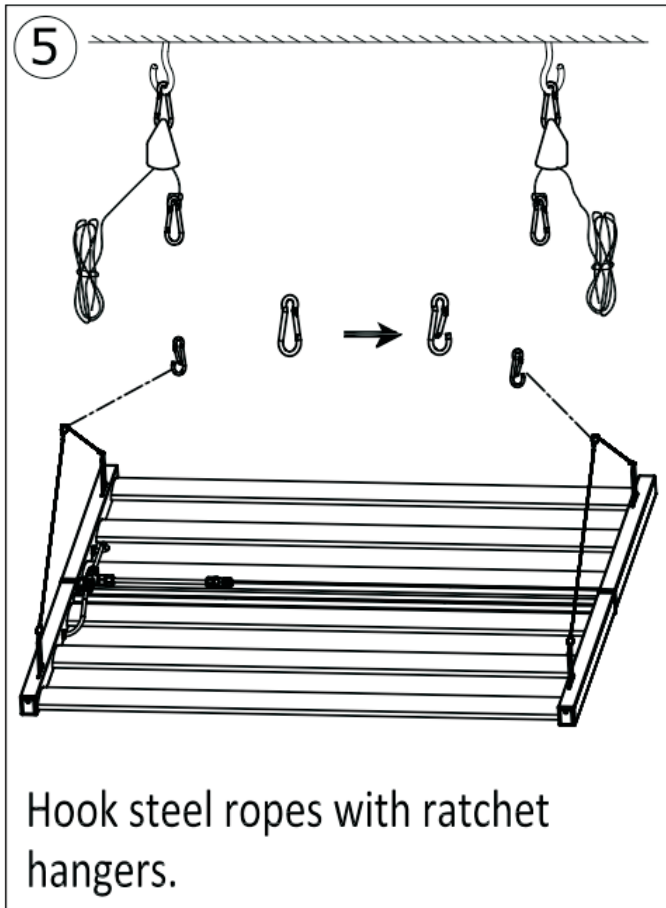
D: Adjustable Ratchet Hangers (2 pcs)

E: Konb screws for Fixing LED Driver Box (4 pcs)

F: AC Power Cord and Plug (1 pc)







## HELENOR H6 Installation (3)

