

HELENOR MINI 320W



POWERED BY



OSRAM



LITE SCIENCE®

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HELENOR MINI

Designed for growing medical plants
in tent with size:
3'X 3' (0.9m * 0.9m)
4'X 4' (1.2m * 1.2m)

HELENOR MINI

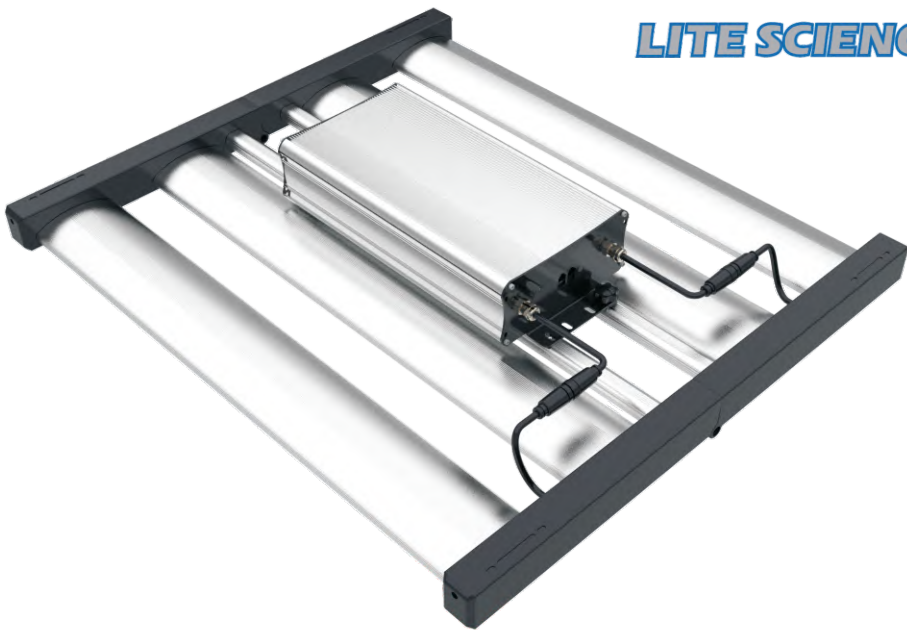
- Efficacy up to 2.85 $\mu\text{mol}/\text{J}$ (Optional)
- SAMSUNG LM301B LM301H , OSRAM 660nm
- MEAN WELL LED driver
- Knob dimming+RJ port dimming 0%-100%
- High Yield: more than 2 grams per watt
- Fast installation
- 3~5 years warranty

Technical Specifications

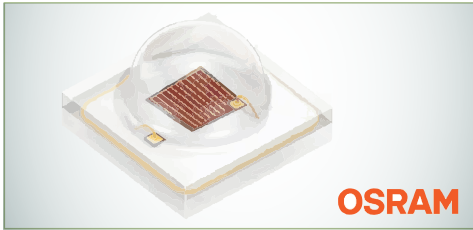
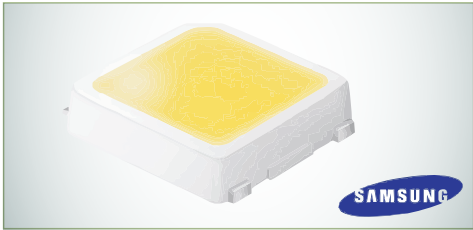
Fixture	HELENOR MINI 320W		
Input Voltage +/- 10%	120 Volts	240 Volts	277 Volts
Max. Input Current	2.7 Amps	1.45 Amps	1.3 Amps
Power Factor	0.99	0.95	0.95
Max. Wattage +/- 3%	320 Watts	320 Watts	320 Watts
Qty. of Light Bars	4 Bars	4 Bars	4 Bars
Light Output PPF	816-896 $\mu\text{mol}/\text{s}$	816-896 $\mu\text{mol}/\text{s}$	816-896 $\mu\text{mol}/\text{s}$

LED Driver	MEAN WELL	Surge Protection	4KV
LED Brand	SAMSUNG & OSRAM	LED Configuration	3000K+4000K & 660nm
Dimming	Knob + RJ port	Efficacy	2.55-2.85 $\mu\text{mol}/\text{J}$
Dimming	0%-100%	Power Cord Length	6' (1.8 M)
IP Rate	IP 65	Max. Ambient Temp.	95°F (35°C)
Warranty	3~5 Years	Mounting Height	>6" (Above Canopy)

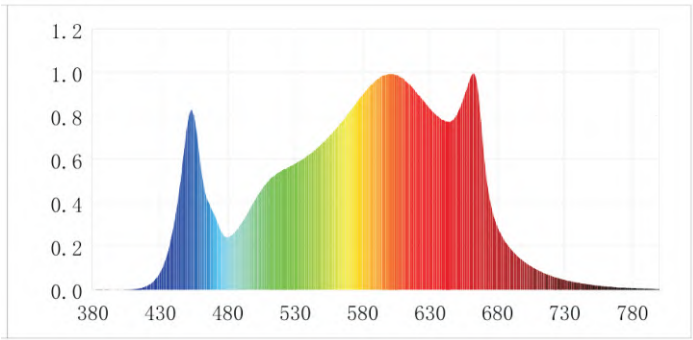
Details



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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 MINI 320W

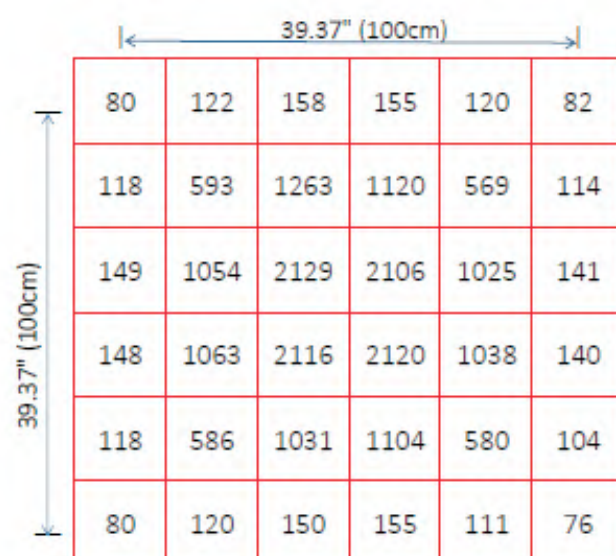
Vegetative stage: 3' X 3' (0.9m*0.9m) to 5' X 5' (1.5m * 1.5m)

Flowering stage: 3' X 3' (0.9m*0.9m) to 4' X 4' (1.2m * 1.2m)

HELENOR MINI 320W PPE 2.61

Height: 6" (15.24cm)

Average PPFD: 609 $\mu\text{mol}/\text{m}^2/\text{s}$



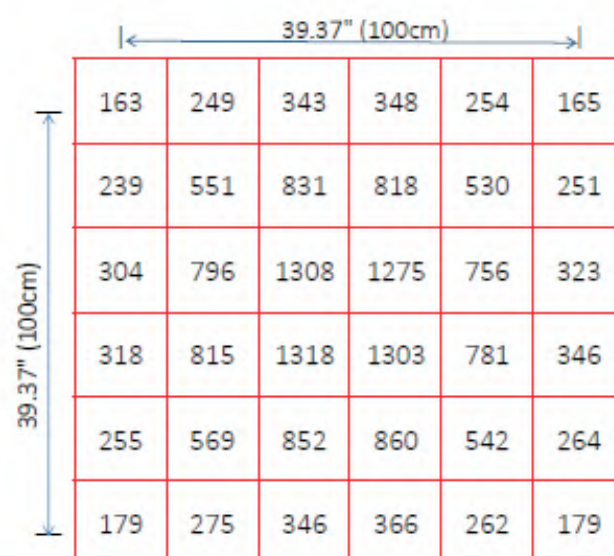
Remarks: tested in a 4' X 4' (1.2m*1.2m) grow tent.

Testing Date: 2020-06-06

HELENOR MINI 320W PPE 2.61

Height: 12" (30.48cm)

Average PPFD: 537 $\mu\text{mol}/\text{m}^2/\text{s}$



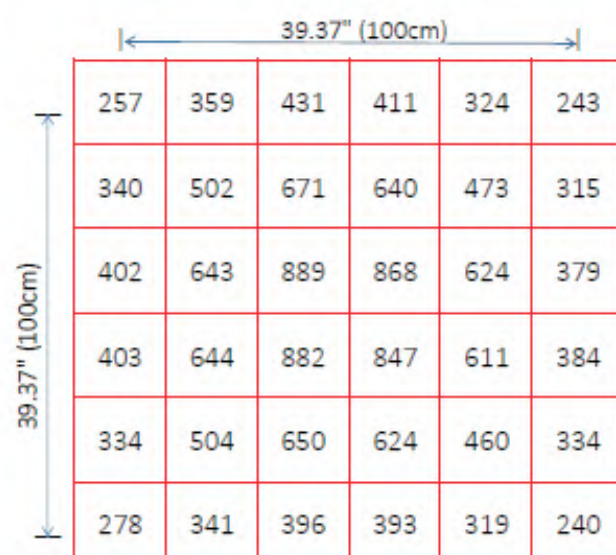
Remarks: tested in a 4' X 4' (1.2m*1.2m) grow tent.

Testing Date: 2020-06-06

HELENOR MINI 320W PPE 2.61

Height: 18" (45.72cm)

Average PPFD: 484 $\mu\text{mol}/\text{m}^2/\text{s}$



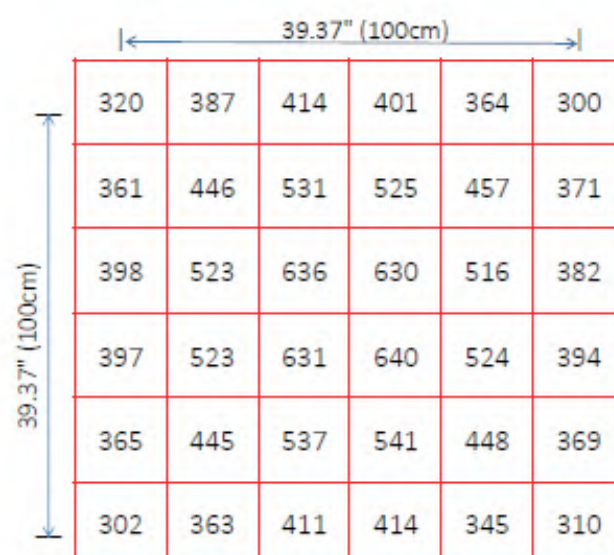
Remarks: tested in a 4' X 4' (1.2m*1.2m) grow tent.

Testing Date: 2020-06-06

HELENOR MINI 320W PPE 2.61

Height: 24" (60.96cm)

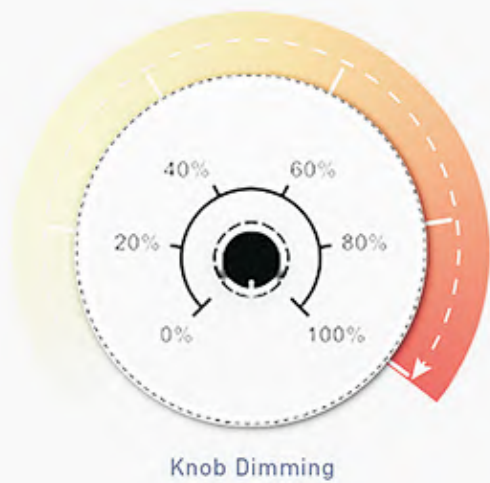
Average PPFD: 442 $\mu\text{mol}/\text{m}^2/\text{s}$



Remarks: tested in a 4' X 4' (1.2m*1.2m) grow tent.

Testing Date: 2020-06-06

Knob Dimming+RJ Port dimming 0%-100%

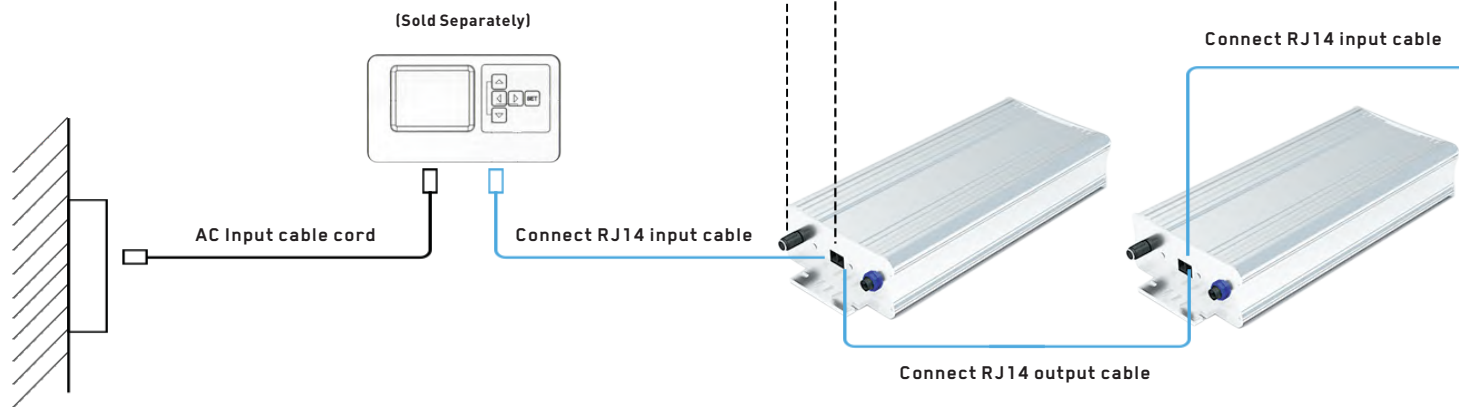


CONTROL TYPE

Knob dimming + RJ14 port(wire dimming)
Smooth stepless no flashing knob dimming

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	

Product Pictures

HELENOR MINI 320W

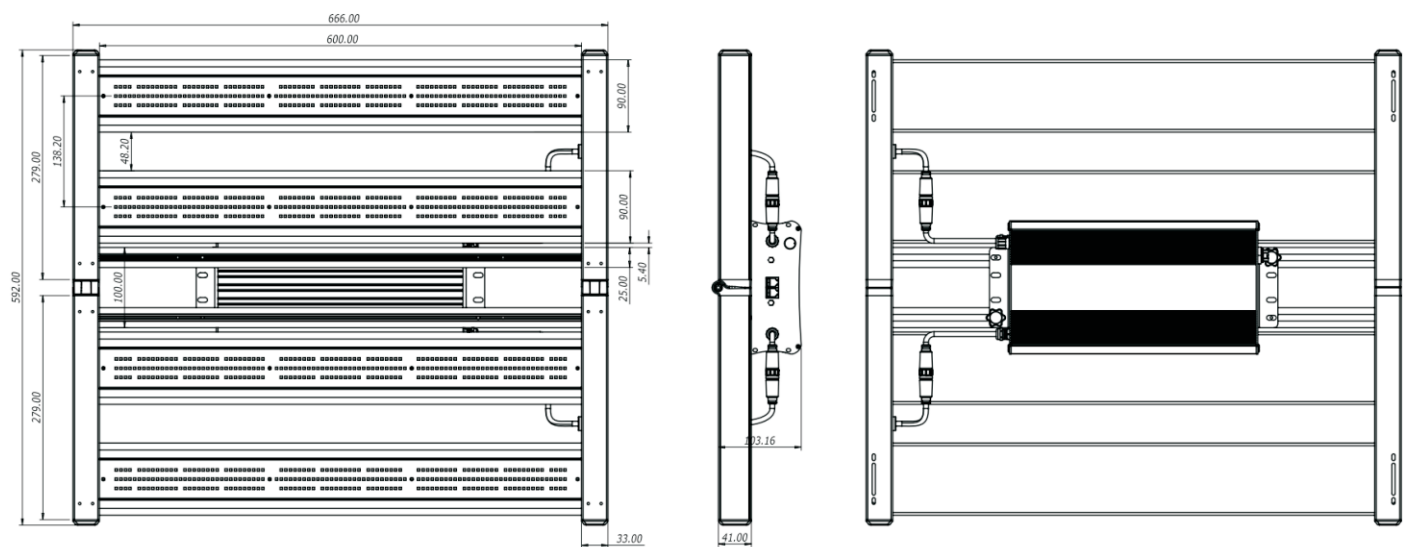


Options of Plug



Dimension & Weight

HELENOR MINI 320W



Fixture Dimension:
666mm X 592mm X 103mm
26.22" X 23.3" X 4.06"

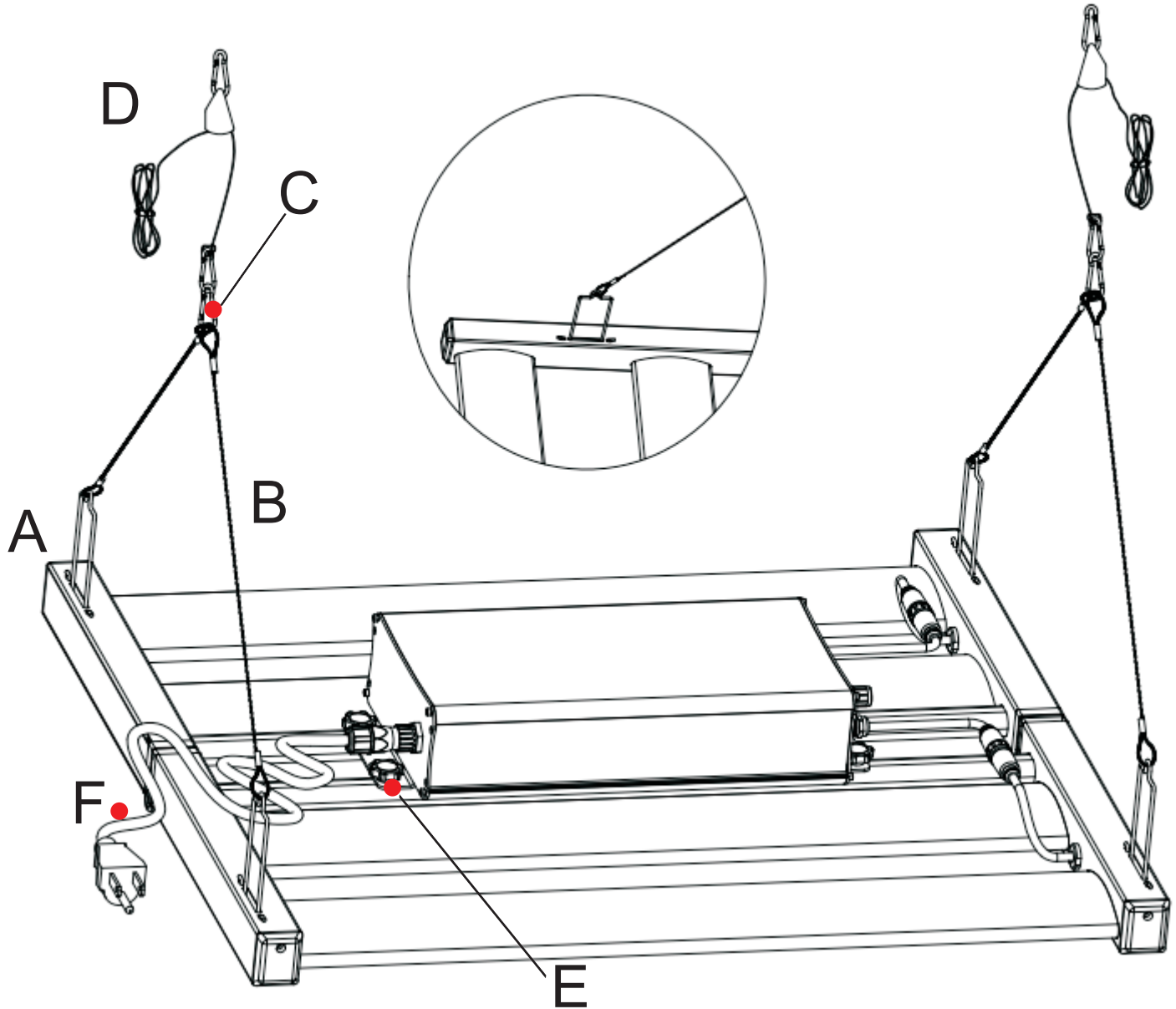
Package

HELENOR MINI 320W Luminaire + Driver Box	
Carton Size	73cm X 52cm X 15cm (28.74" X 20.47" X 5.91")
Weight	9.5 kgs
Qty. / Ctn.	1 set

Safety Warnings

- Warning!** Mounting and installation of the LED fixture must be done by certified service personnel, in accordance with the applicable local laws and regulations.
- Warning!** The installer is responsible for correct and safe installation.
- Warning!** Do not connect or disconnect the LED fixture under load.
- Warning!** Mount the system to something that can hold the weight of the LED fixture.
- Warning!** Do not touch the leds to avoid damaged.
- Warning!** Switch off the main power before installation.

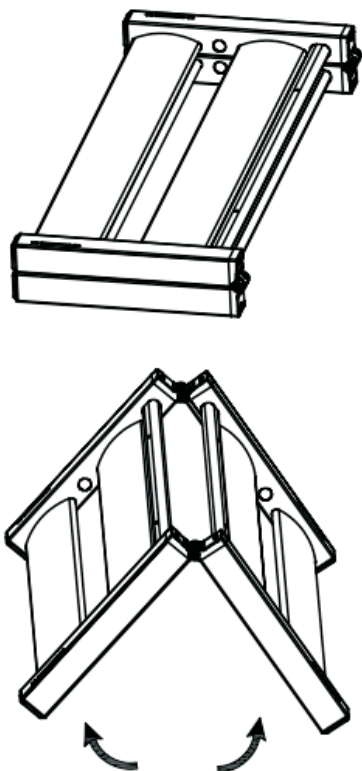
Accessories Contents



- A: Mounting Clips (4 pcs)
- B: 17.7" (45cm) 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)

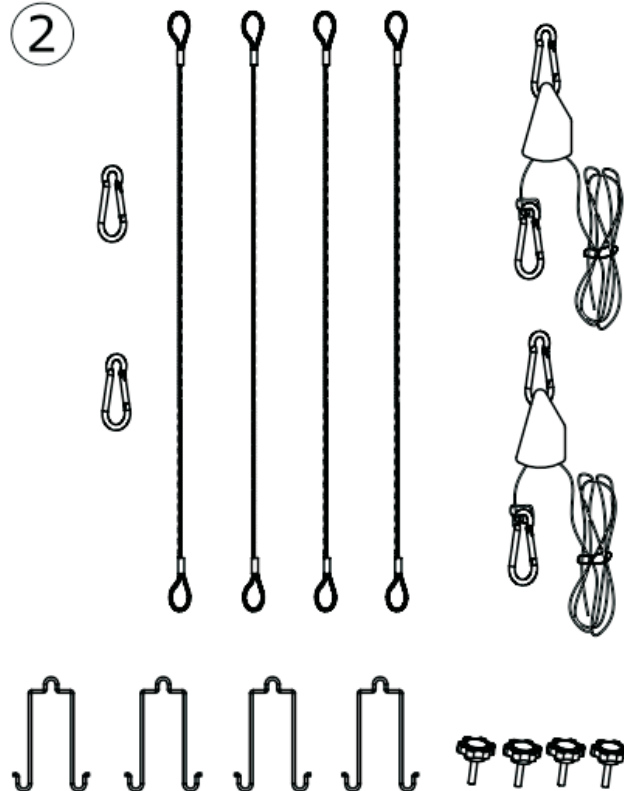
HELENOR MINI 320W Installation (1)

1



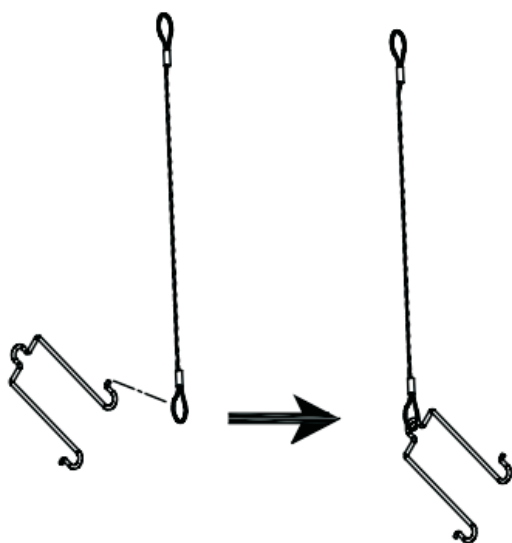
Unfold the LED fixture.

2



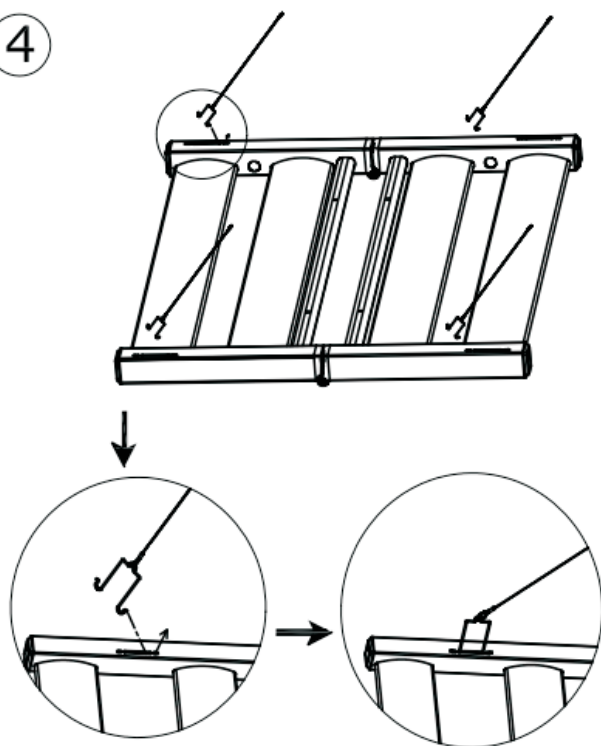
Take out the accessories from bags.

3



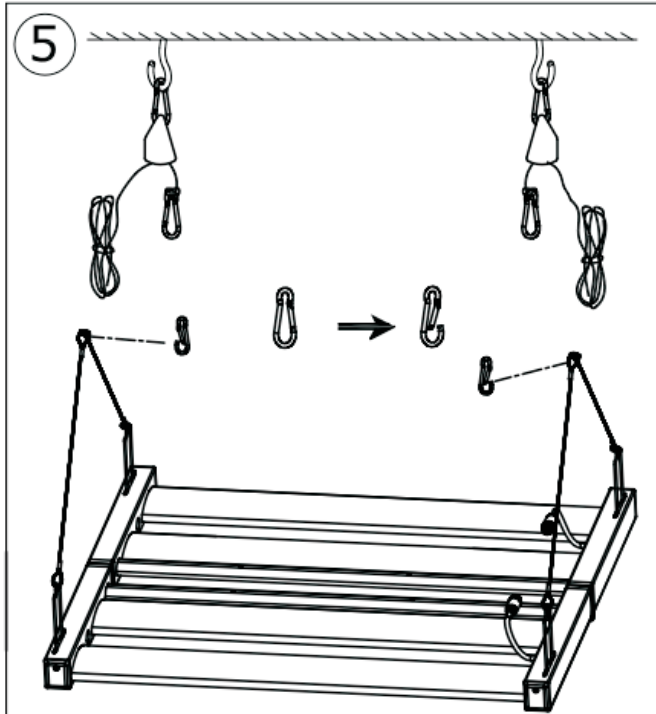
Connect mounting clips with steel ropes.

4

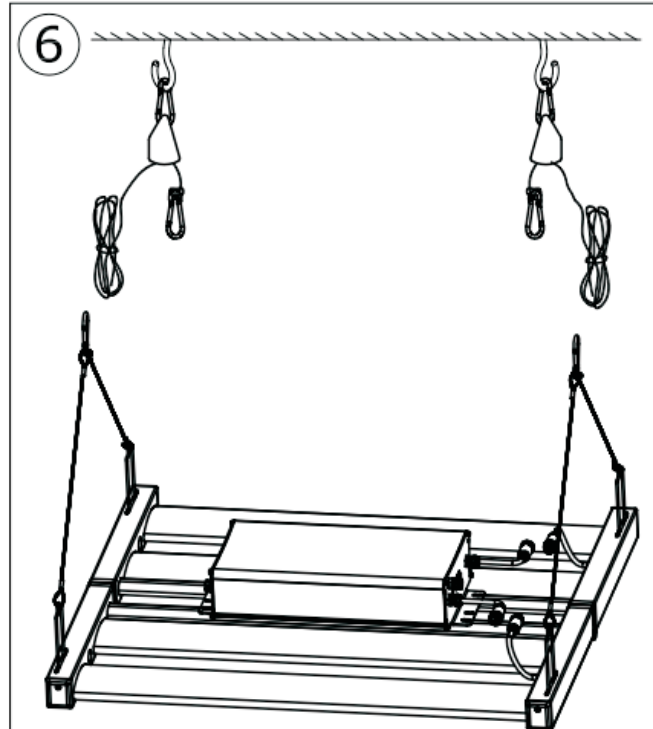


Snap mounting clips into fixture rails.

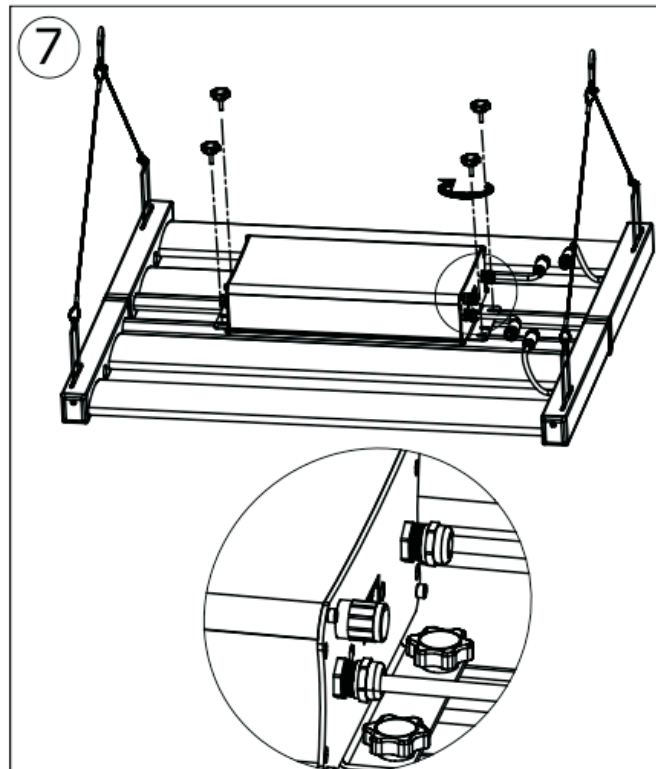
HELENOR MINI 320W Installation (2)



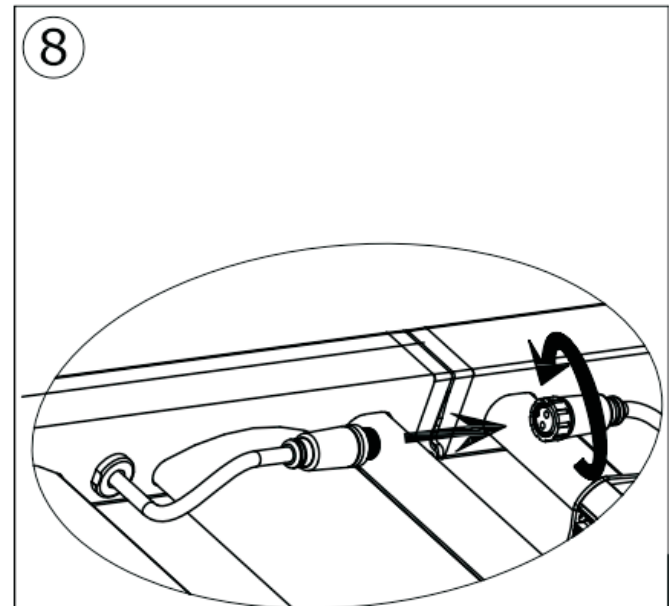
Hook steel ropes with ratchet hangers.



Place the LED driver box onto the LED fixture.



Fix the LED driver box with the knob screws.



Link the male & female connectors of DC cables and twist them tightly.

HELENOR MINI 320W Installation (3)

