



Shenzhen Lite Science Electronics Co., Ltd.

Email: sales@litescienceec.com

Web: www.litescience.com

USER MANUAL

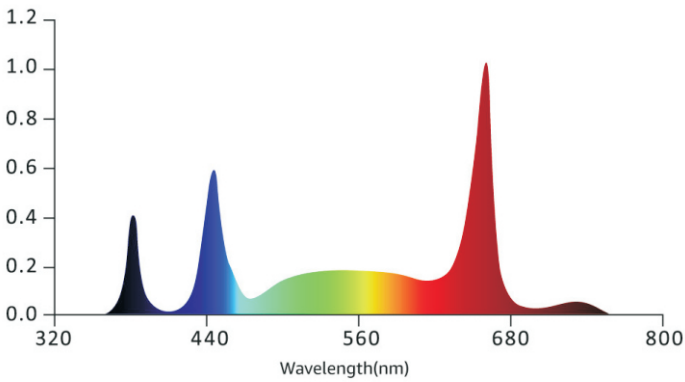
HELENOR SMART 510W



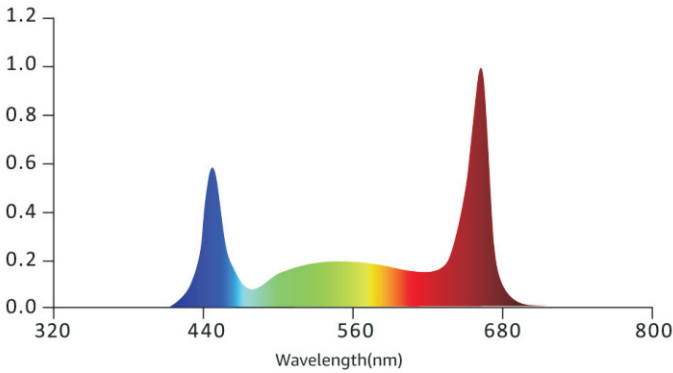
CHARACTERISTICS

- IP65 waterproof
- Adjustable Spectrum
- Knob dimming + RJ port dimming 0%~100%
- 4 separate channels that can be dimmed independently
- Fast installation
- 3 year warranty

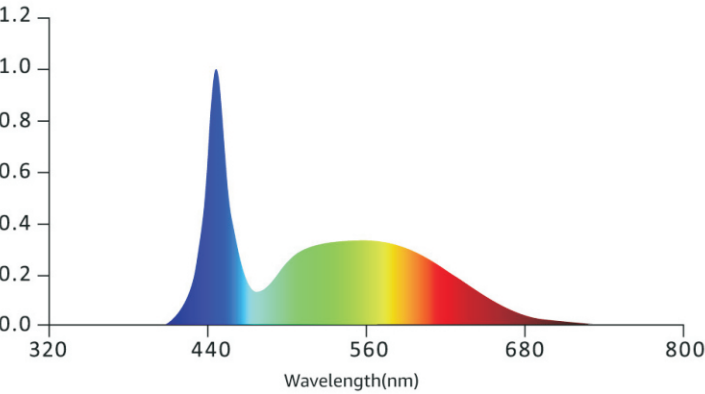
SPECTRUM EXAMPLES



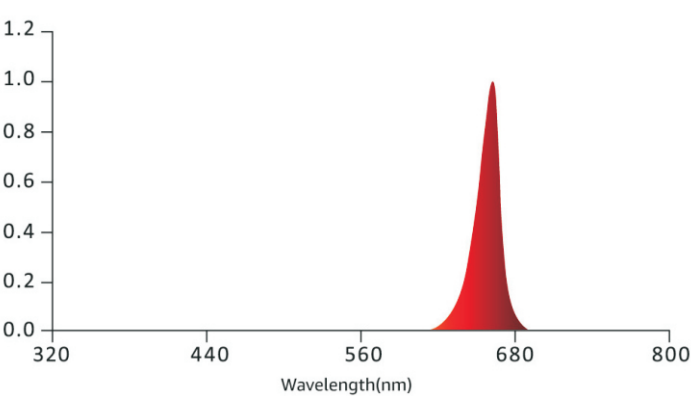
Chanel 1: 300W (White 6500K)	100% ON
Chanel 2: 150W (Deep Red 660nm)	100% ON
Chanel 3: 35W (UVA 385nm)	100% ON
Chanel 4: 25W (Far-Red 730nm)	100% ON



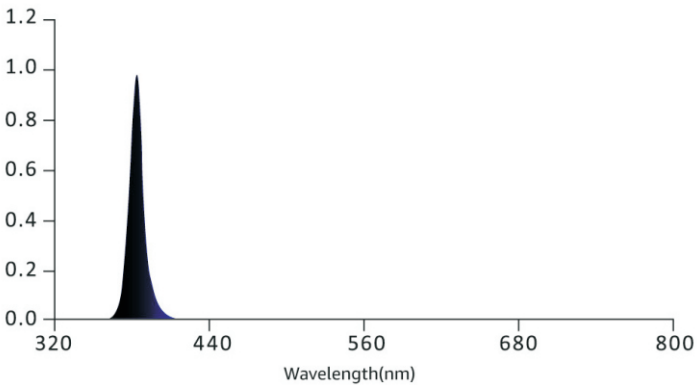
Chanel 1: 300W (White 6500K)	100% ON
Chanel 2: 150W (Deep Red 660nm)	100% ON
Chanel 3: 35W (UVA 385nm)	0% OFF
Chanel 4: 25W (Far-Red 730nm)	0% OFF



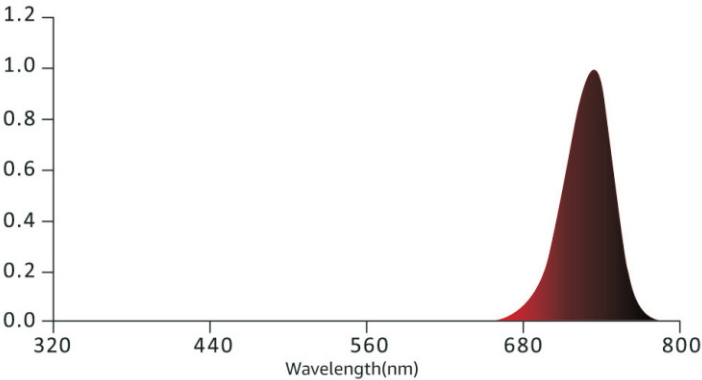
Chanel 1: 300W (White 6500K)	100% ON
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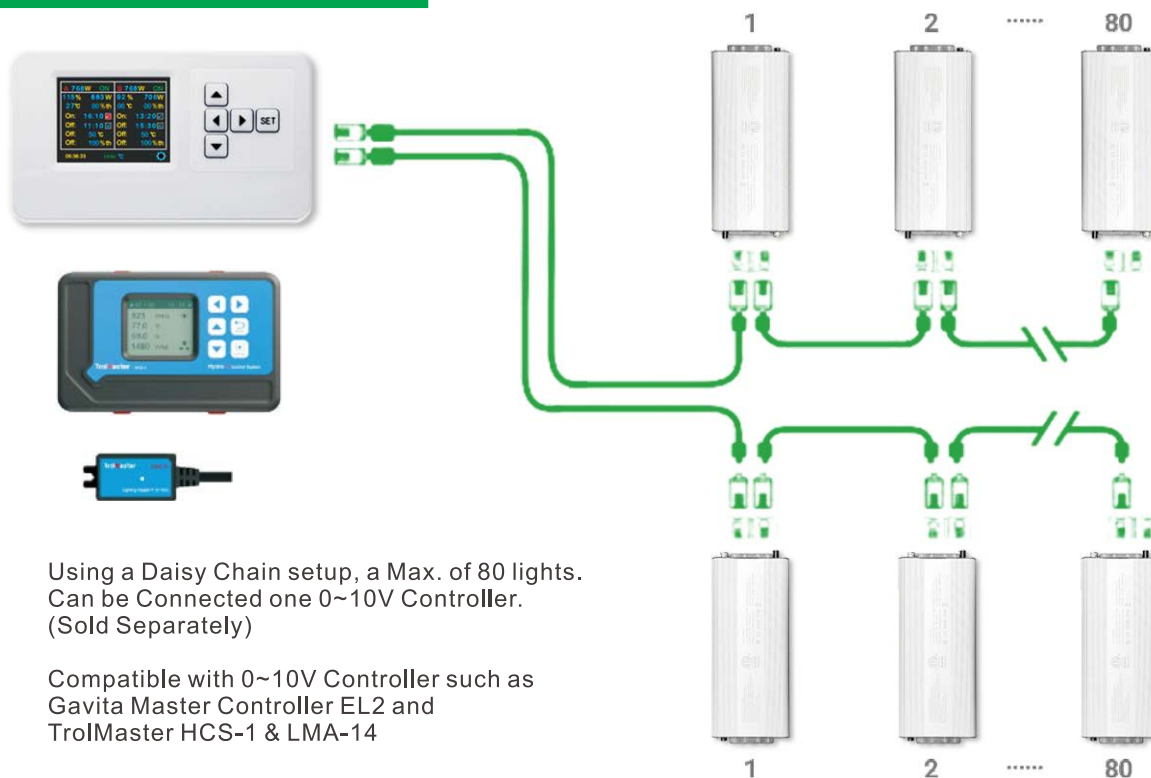
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LIGHT DISTRIBUTION

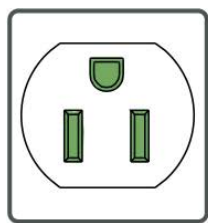
Measurements taken in a 1.2m x 1.2m culture chamber.

HELENOR SMART 510W Height: 12" (30.48cm) Average PPFD: 687 $\mu\text{mol}/\text{m}^2/\text{s}$ 47.24" (120cm) 47.24" (120cm) <table><tr><td>178</td><td>241</td><td>273</td><td>299</td><td>272</td><td>243</td><td>175</td></tr><tr><td>296</td><td>549</td><td>709</td><td>725</td><td>700</td><td>540</td><td>290</td></tr><tr><td>445</td><td>1021</td><td>1394</td><td>1363</td><td>1379</td><td>1015</td><td>438</td></tr><tr><td>510</td><td>1175</td><td>1646</td><td>1625</td><td>1634</td><td>1160</td><td>507</td></tr><tr><td>464</td><td>1035</td><td>1407</td><td>1436</td><td>1371</td><td>1014</td><td>453</td></tr><tr><td>308</td><td>567</td><td>732</td><td>739</td><td>720</td><td>557</td><td>303</td></tr><tr><td>187</td><td>254</td><td>301</td><td>304</td><td>288</td><td>252</td><td>183</td></tr></table> Covering Area: 4'X4' (1.2m*1.2m) Remarks: Tested in 5' X 5' (1.5m*1.5m) grow tent.	178	241	273	299	272	243	175	296	549	709	725	700	540	290	445	1021	1394	1363	1379	1015	438	510	1175	1646	1625	1634	1160	507	464	1035	1407	1436	1371	1014	453	308	567	732	739	720	557	303	187	254	301	304	288	252	183	HELENOR SMART 510W Height: 18" (45.72cm) Average PPFD: 604 $\mu\text{mol}/\text{m}^2/\text{s}$ 47.24" (120cm) 47.24" (120cm) <table><tr><td>271</td><td>320</td><td>372</td><td>393</td><td>366</td><td>315</td><td>268</td></tr><tr><td>377</td><td>530</td><td>657</td><td>683</td><td>659</td><td>536</td><td>371</td></tr><tr><td>491</td><td>774</td><td>986</td><td>1026</td><td>988</td><td>766</td><td>496</td></tr><tr><td>554</td><td>869</td><td>1114</td><td>1169</td><td>1109</td><td>846</td><td>548</td></tr><tr><td>509</td><td>782</td><td>982</td><td>1035</td><td>980</td><td>773</td><td>498</td></tr><tr><td>394</td><td>532</td><td>658</td><td>703</td><td>654</td><td>519</td><td>390</td></tr><tr><td>269</td><td>311</td><td>393</td><td>411</td><td>394</td><td>307</td><td>266</td></tr></table> Covering Area: 4'X4' (1.2m*1.2m) Remarks: Tested in 5' X 5' (1.5m*1.5m) grow tent.	271	320	372	393	366	315	268	377	530	657	683	659	536	371	491	774	986	1026	988	766	496	554	869	1114	1169	1109	846	548	509	782	982	1035	980	773	498	394	532	658	703	654	519	390	269	311	393	411	394	307	266	HELENOR SMART 510W Height: 24" (60.96cm) Average PPFD: 536 $\mu\text{mol}/\text{m}^2/\text{s}$ 47.24" (120cm) 47.24" (120cm) <table><tr><td>315</td><td>363</td><td>402</td><td>402</td><td>388</td><td>355</td><td>312</td></tr><tr><td>409</td><td>488</td><td>568</td><td>591</td><td>564</td><td>486</td><td>413</td></tr><tr><td>498</td><td>629</td><td>748</td><td>773</td><td>736</td><td>631</td><td>494</td></tr><tr><td>530</td><td>685</td><td>831</td><td>868</td><td>819</td><td>683</td><td>531</td></tr><tr><td>497</td><td>646</td><td>755</td><td>796</td><td>744</td><td>640</td><td>488</td></tr><tr><td>422</td><td>495</td><td>577</td><td>606</td><td>574</td><td>490</td><td>417</td></tr><tr><td>318</td><td>360</td><td>411</td><td>412</td><td>411</td><td>358</td><td>314</td></tr></table> Covering Area: 4'X4' (1.2m*1.2m) Remarks: Tested in 5' X 5' (1.5m*1.5m) grow tent.	315	363	402	402	388	355	312	409	488	568	591	564	486	413	498	629	748	773	736	631	494	530	685	831	868	819	683	531	497	646	755	796	744	640	488	422	495	577	606	574	490	417	318	360	411	412	411	358	314
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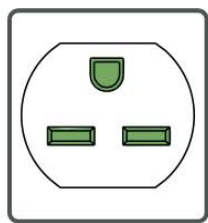
DIMMING FUNCTION AND RJ PORT



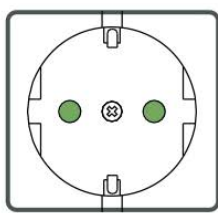
PLUG OPTIONS



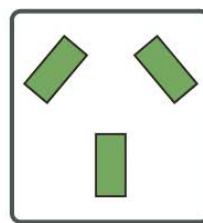
TYPE-US 120V



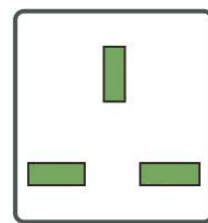
TYPE-US 240V



TYPE-EU 220V



TYPE-AU 240V

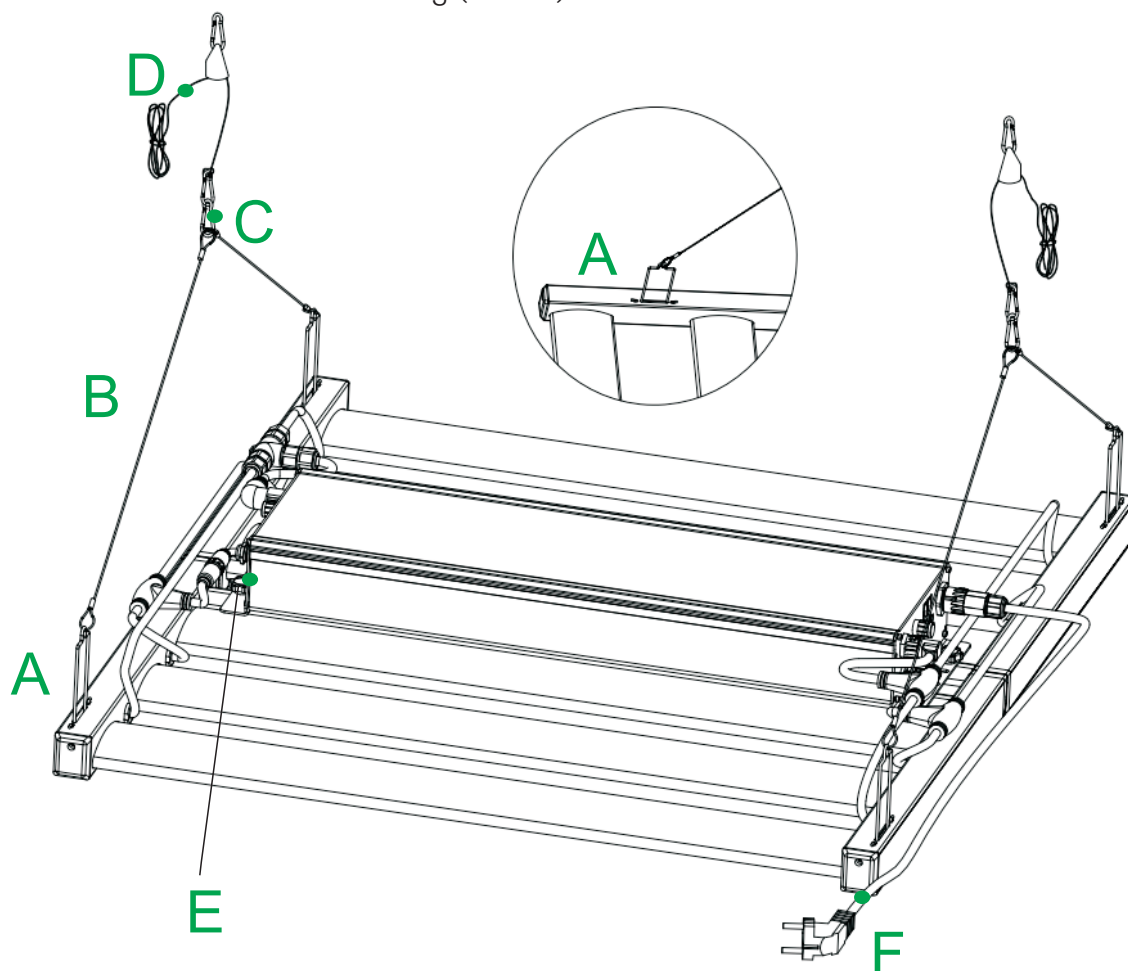


TYPE-UK 220V

ACCESSORIES CONTENTS

Accessories included:

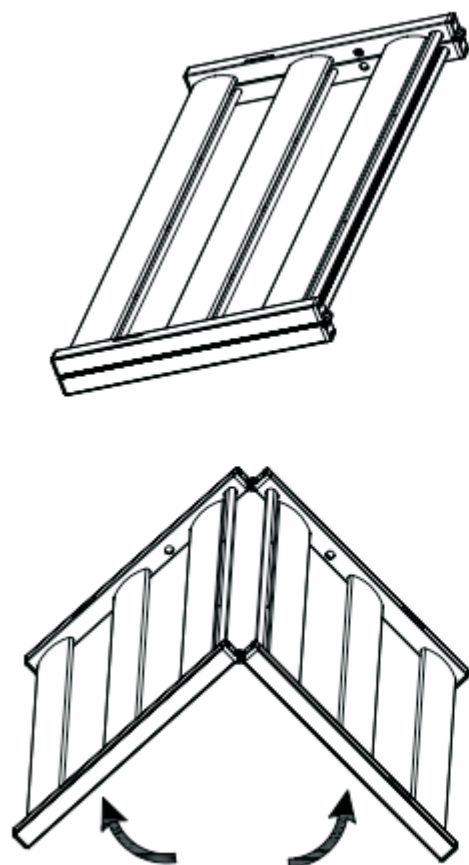
- A: Mounting Clips (4 pcs)
- B: 17.72" (45cm) Stainless Steel Ropes (4 pcs)
- C: Carabiner Hooks (2 pcs)
- D: Adjustable Ratchet Hangers (2 units)
- E: Knob Screws for fixing LED driver box (4 pcs)
- F: AC Power Cord 240Vac Plug (1 Unit)



SAFETY WARNINGS

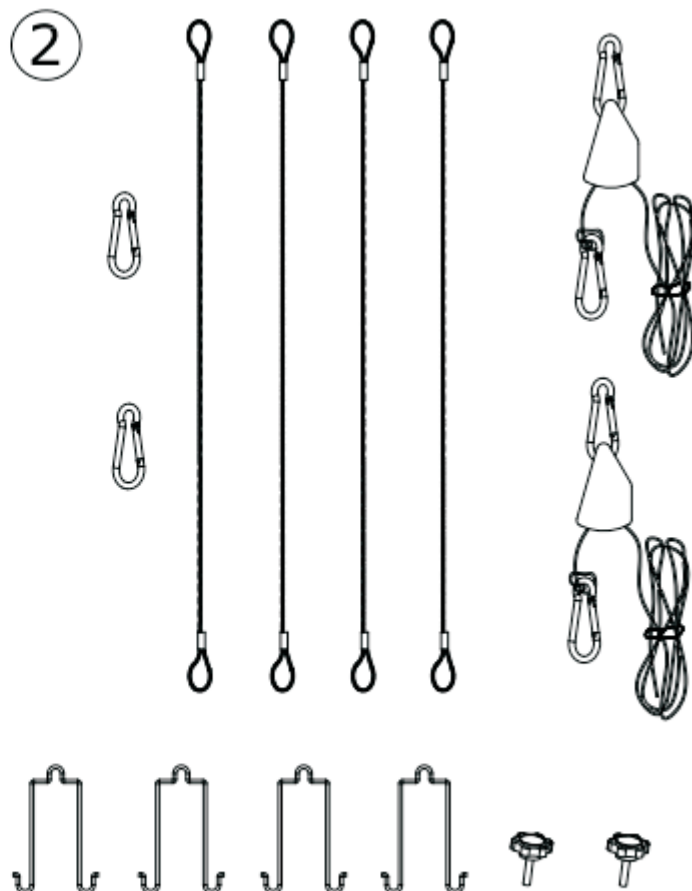
- Warning!** The installer is responsible for correct and safe installation.
- Warning!** Do not connect or disconnect the fixture with the driver box while under load.
- Warning!** Mount the system to something that can hold the weight of the LED fixture.
- Warning!** Do not touch the leds to avoid damage.
- Warning!** Switch off the mains power before installation.

1



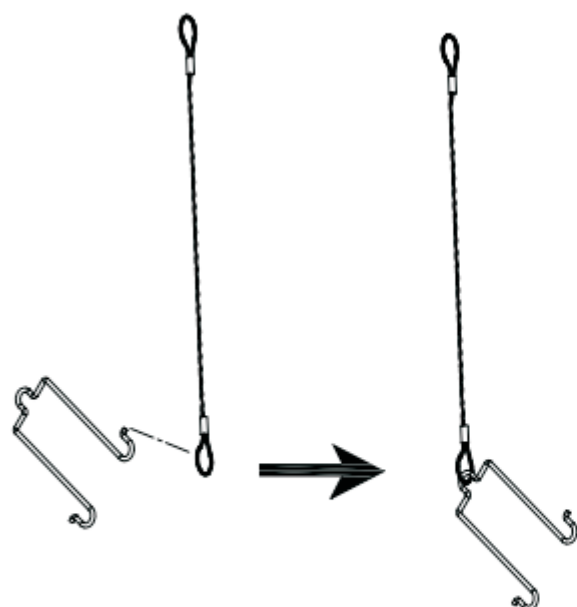
Unfold the LED fixture.

2



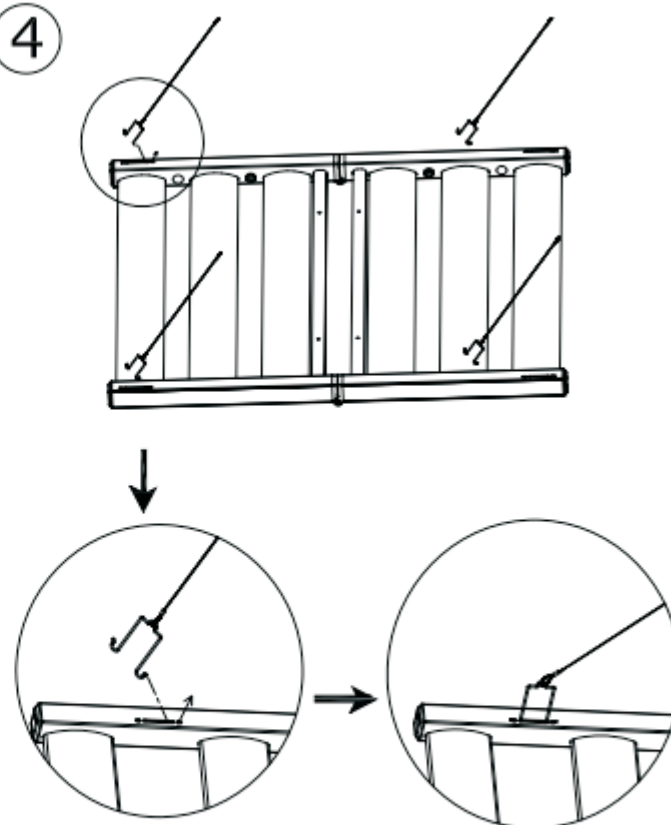
Take out the accessories from bags.

3

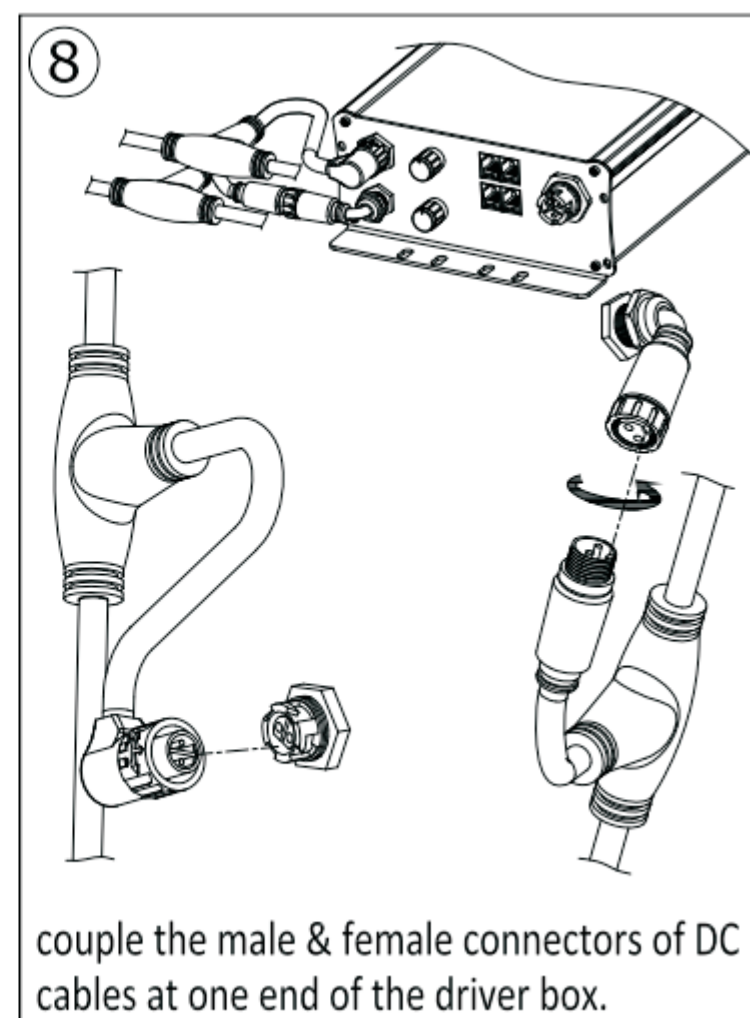
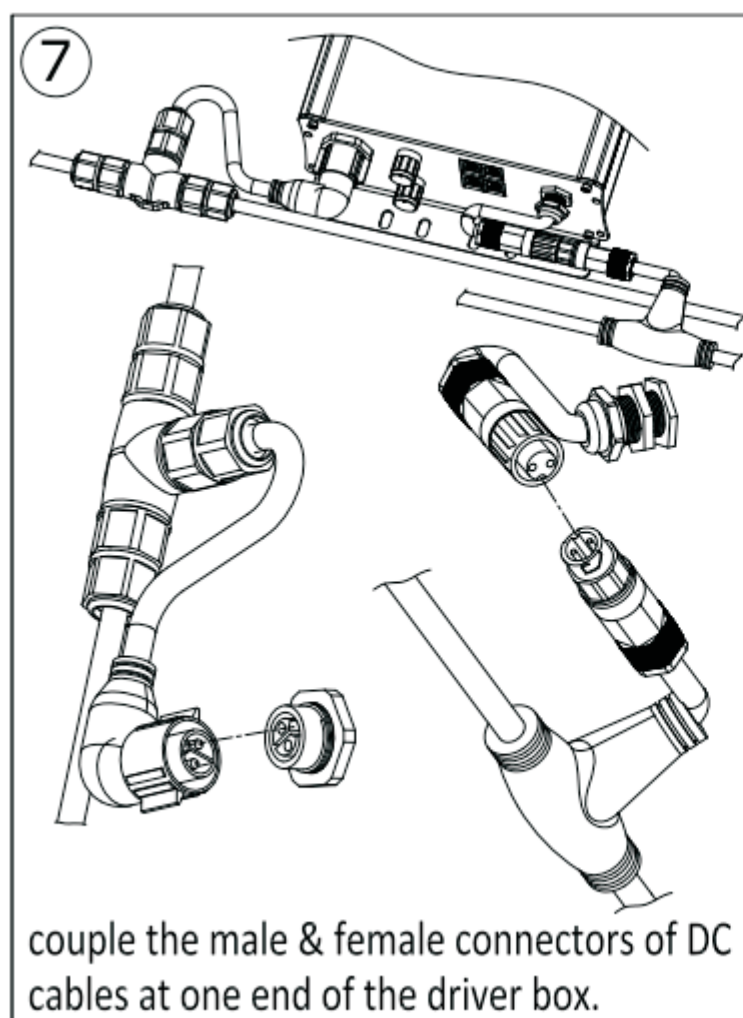
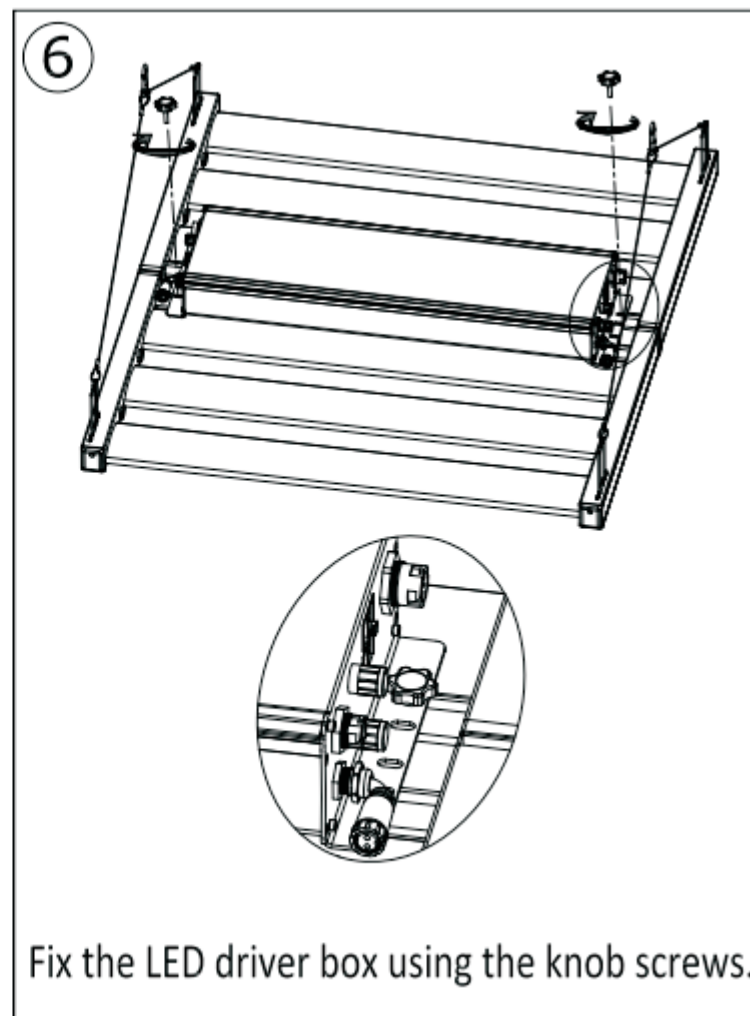
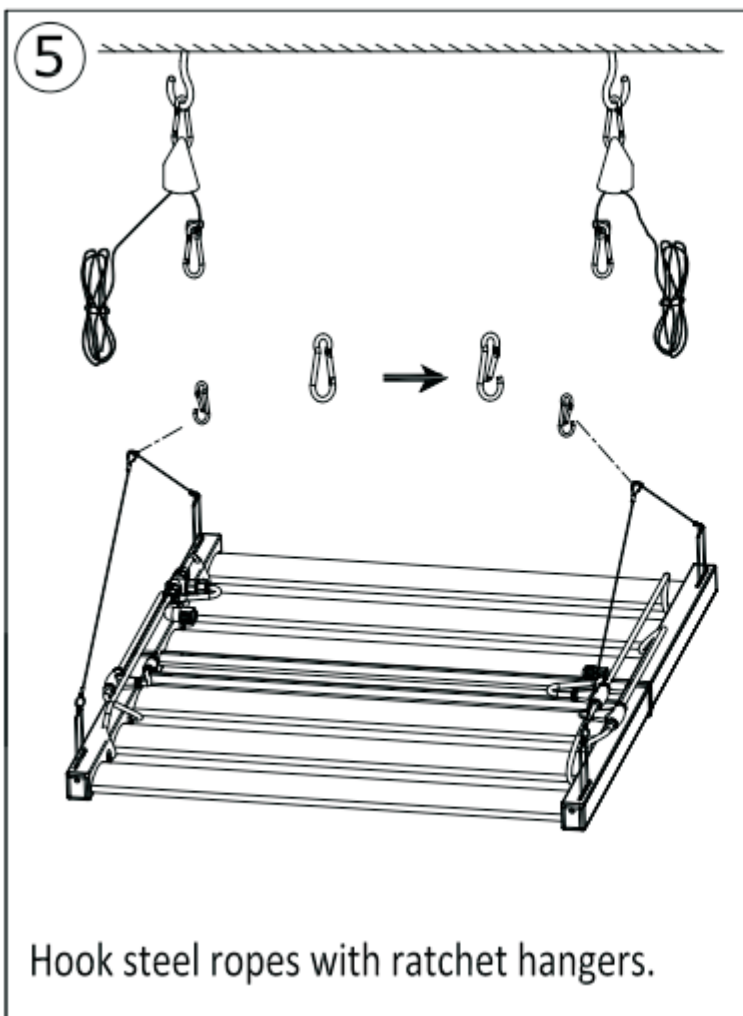


Connect mounting clips with steel ropes.

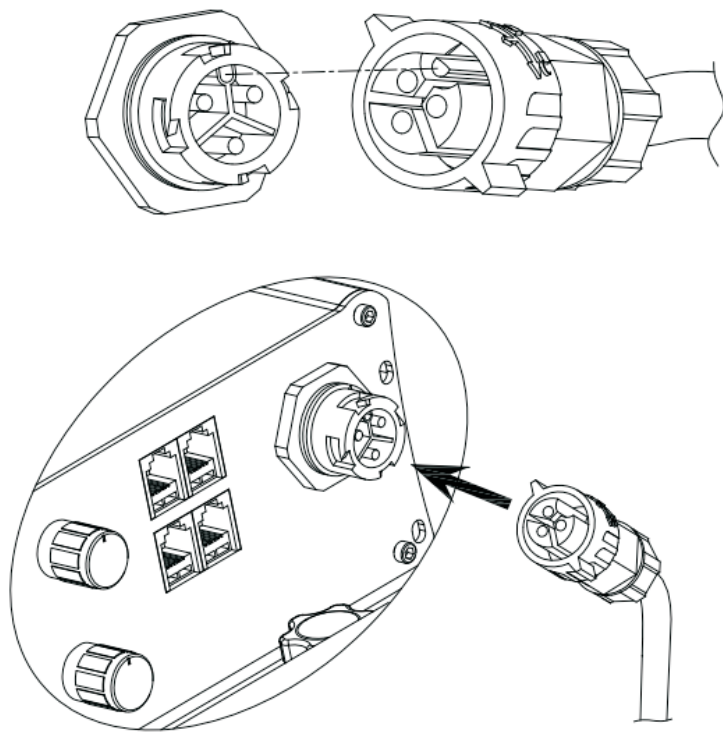
4



Snap mounting clips into fixture rails.

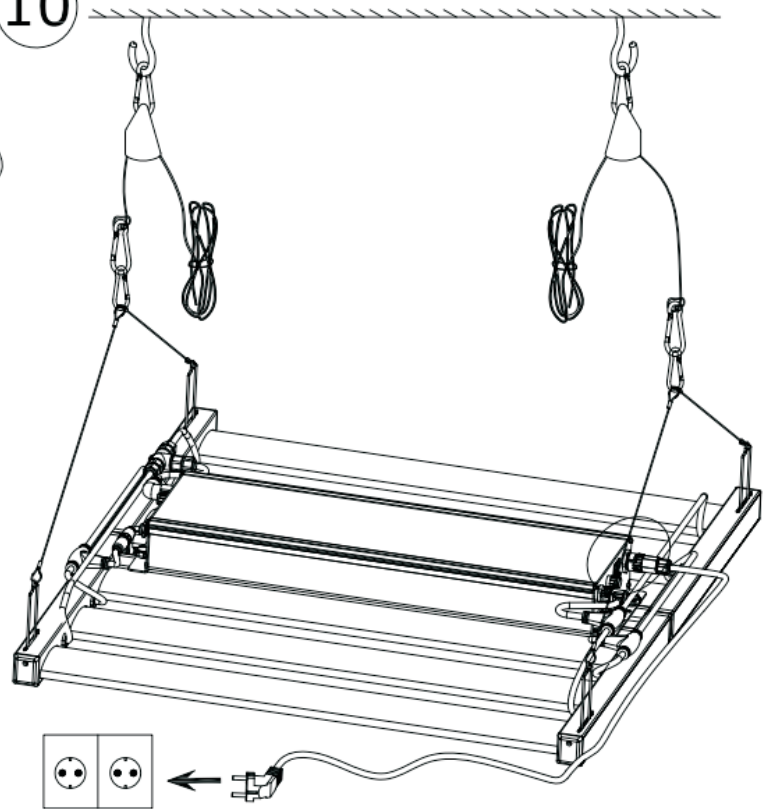


9



Follow the correct direction to connect the AC power cord with driver box.

10



Push the AC power plug into wall outlet.