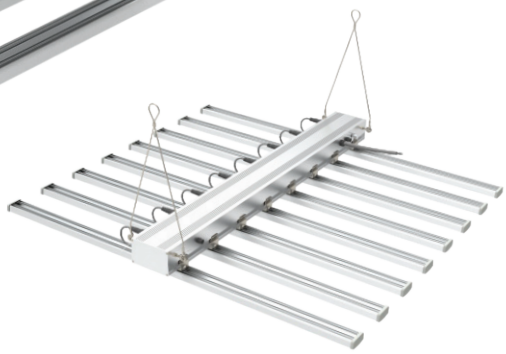
Cosmic Series

LED GROW LIGHTS

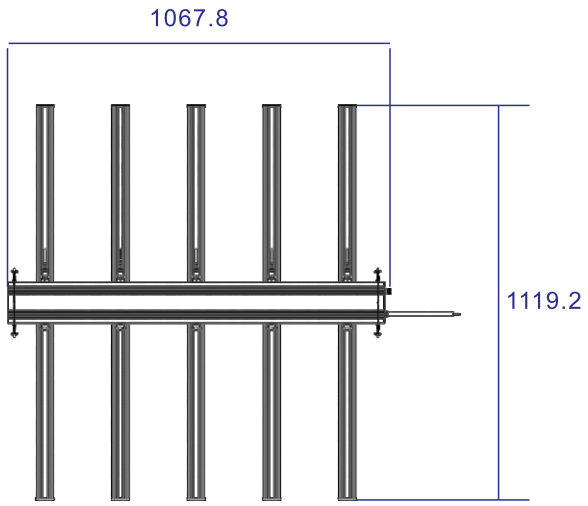
Spec Sheets



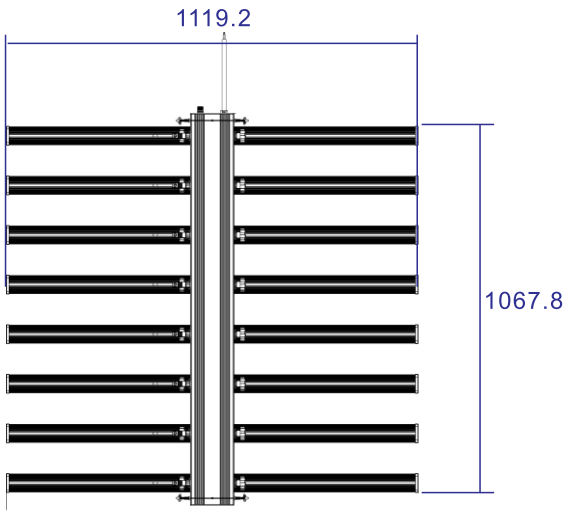
Product Description

- Replaces HPS light with 40% less power
- Excellent par value 2.3 μmol/J
- Professional light source--Lumileds and Osram
- Led driver mounted outside, easy to be cooled down
- Spectrum can be customized,perfect for propagation, veg and bloom
- Suitable for vegetables,flowers and fruits growing
- Working temperature:-20℃~ +40℃
- IP level:IP54
- Dimmable by knob:0%-25%-50%-75%-100%

Dimension



400W



600W

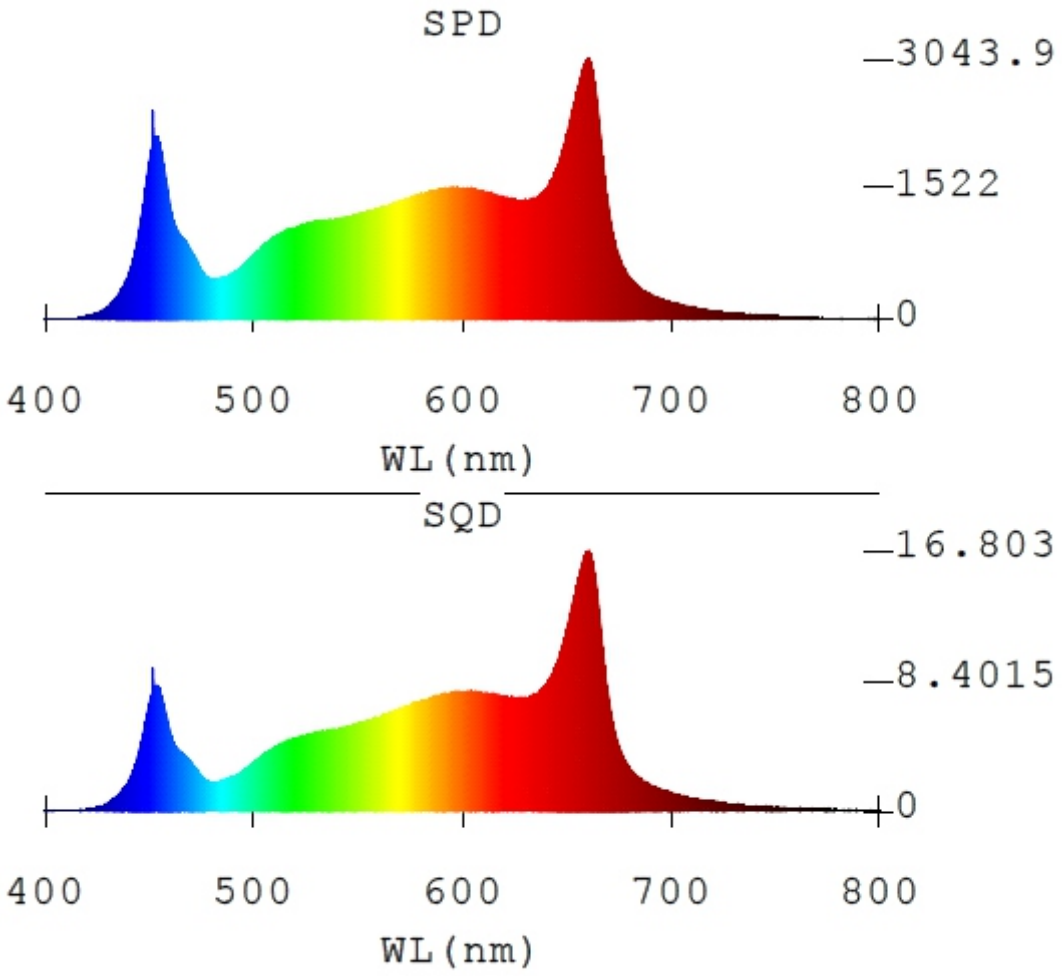
Application

Suitable for Horticultural Lighting

Performance Summary

Model	LFHL400I0WRK01	LFHL600C0WRK01	LFHL600I0WRK03
Power Consumption (Incl. driver)	400W	600W	600W
Input Voltage	100-277V		347V
Input Current	Max 4.21A @100 Vac	Max 6.32A @100 Vac	Max 1.82A @347 Vac
Input Frequency	50/60Hz		
Power Factor	>=0.95		
Spectrum	Full Spectrum		
PPF(μ mol/s)	920	1380	1380
Efficacy(μ mol/J)	2.3	2.3	2.3
Dimming	0%-25%-50%-75%-100%		
Operating Temperature	-4-104℉(-20-40℃)		
Storage Temperature	-13-122℉(-25-50℃)		
Dimensions(L x W x H)	1119*1068*107mm		
Weight	14kg	18kg	18kg
L90 Rating	> 54,000 hrs		
CSA Certification	CSA LTR No. B-006-2018, UL Outline of Investigation 8800-2018		
Location Rating	Damp		
Warranty	5 year pro-rated		
Connect Way	Wire Input		
Mounting Height	>30cm Above Canopy		

Spectrum selected



Full Spectrum:

Through a lot of tests, we find full spectrum is the most suitable and beneficial to the whole growing cycle of plants, including growing, flowering and fruiting period. The spectrum is made of white and red light, which matches very well with the necessary spectrum that plants need for photosynthesis.

LM-80 Report Of OSRAM

IES TM-21-11 Projection **160522W4**

Appendix B:
Lumen Maintenance Projection (IES TM-21-11)

For information only!

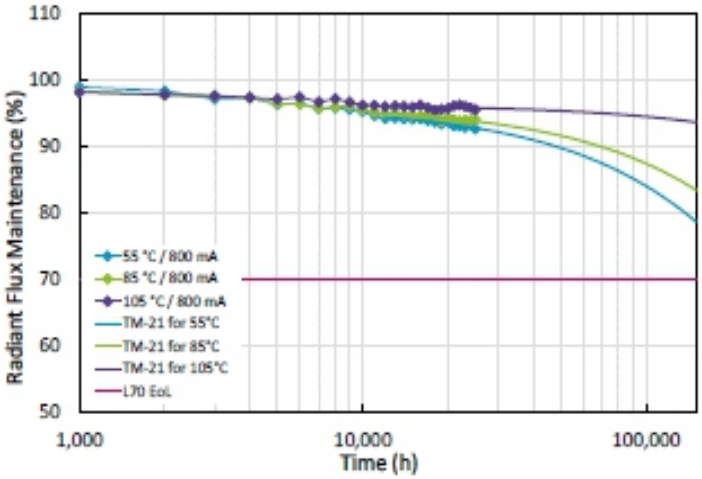
1. General Information

Description of LED light source tested	OSLON® SSL LH CPDP
Sample size per temperature	24
LED drive current used in the test	800 mA
Current per die	800 mA
Test duration	25,000 hours
Test duration used for projection	12,000 hours to 25,000 hours

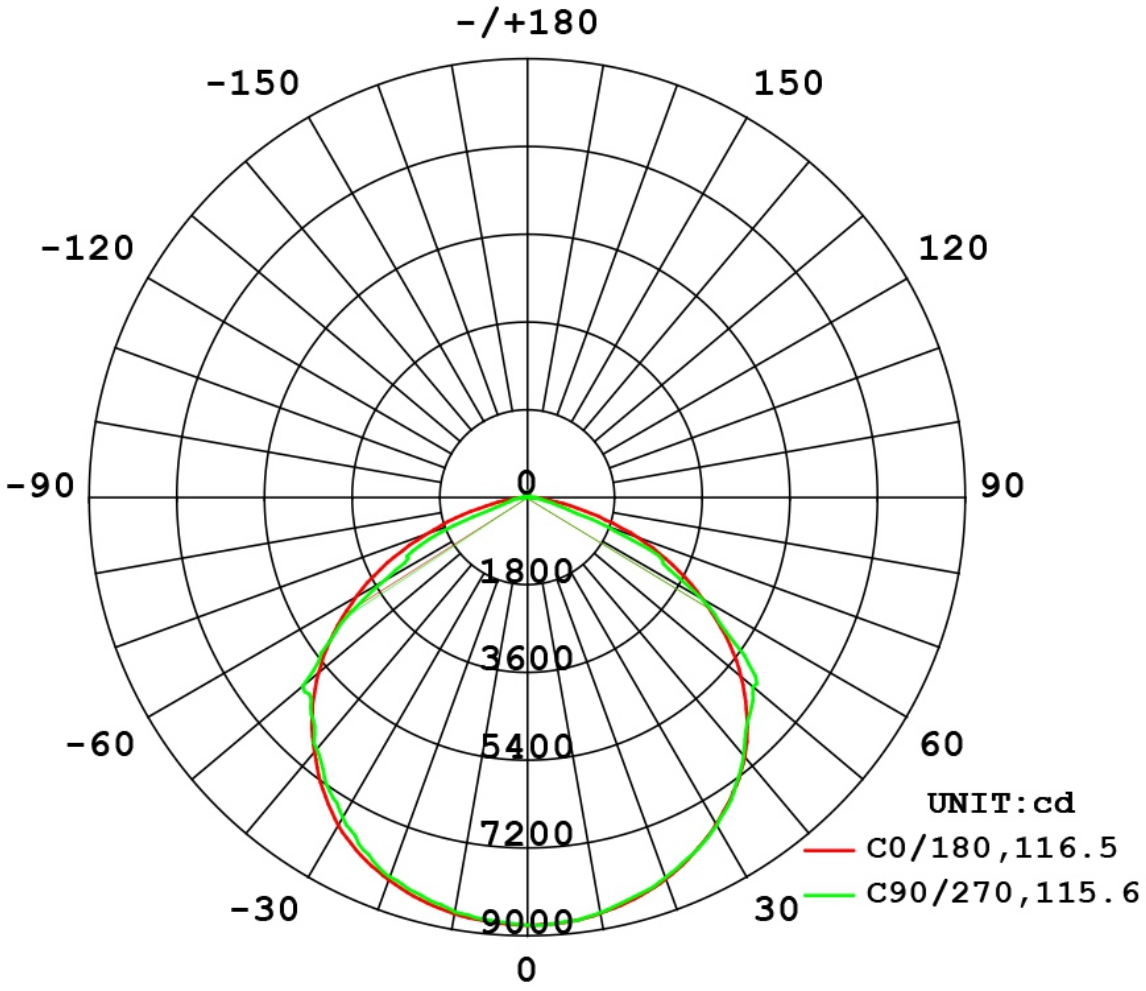
2. Projection Data

	I	II	III
Case temperature(solder point)	TS= 55 °C	TS= 85 °C	TS= 105 °C
α	1.316E-06	9.345E-07	1.805E-07
B	9.586E-01	9.597E-01	9.617E-01
Reported L70	>150,000 hours	> 150,000 hours	> 150,000 hours

3. Graphic chart



IES

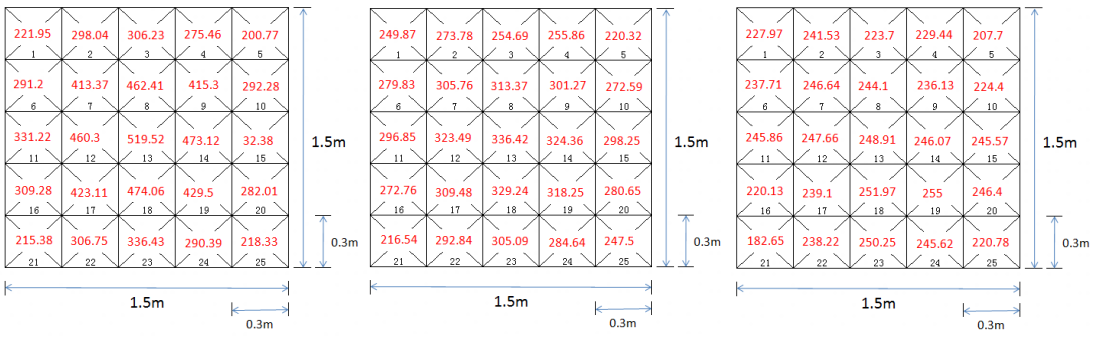


AVERAGE BEAM ANGLE(50%):116.0 DEG

Photon Flux Distribuon

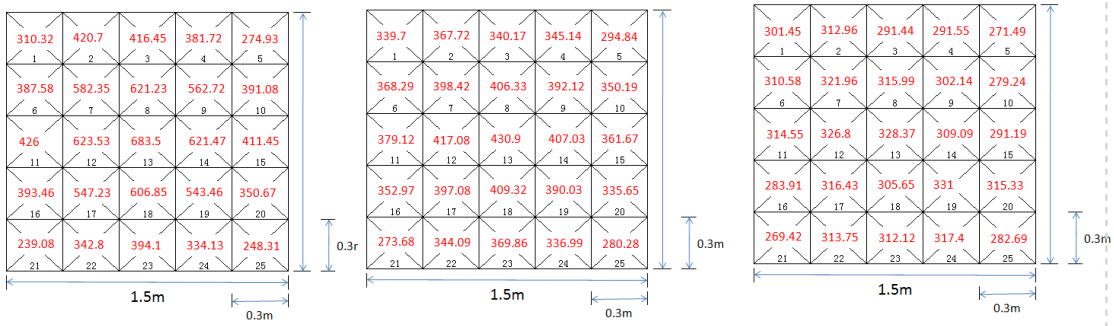
Measured with fixture centrally hanging at height on a 4.9'x4.9' grow area.

400W PPFD Distribution 2.3umol/J



19.68''/500mm Height　　39.37''/1000mm Height　　59''/1500mm Height

600W PPFD Distribution 2.3umol/J

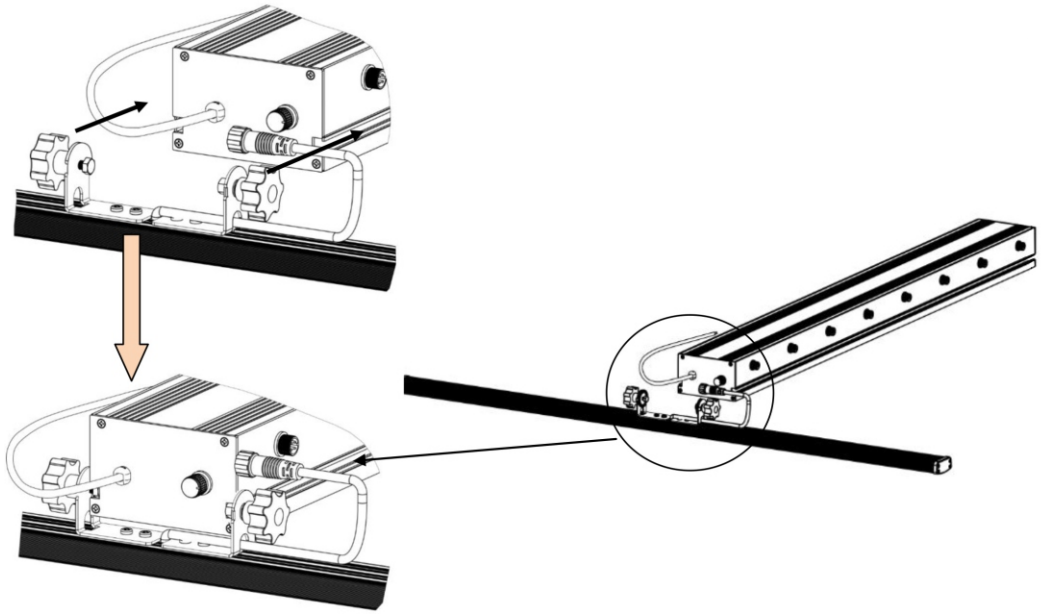


19.68''/500mm Height　　39.37''/1000mm Height　　59''/1500mm Height

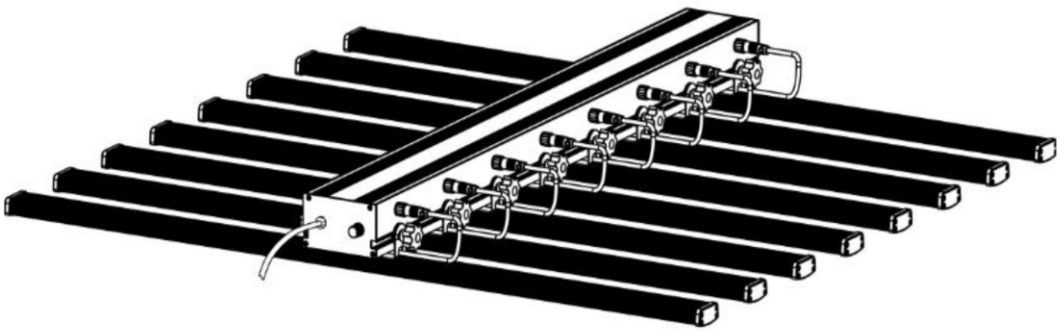
Installation

1.Fixture Installion (Product appearance depends on goods)

1.1Put the hex bolt inside the LED strip into the guide.

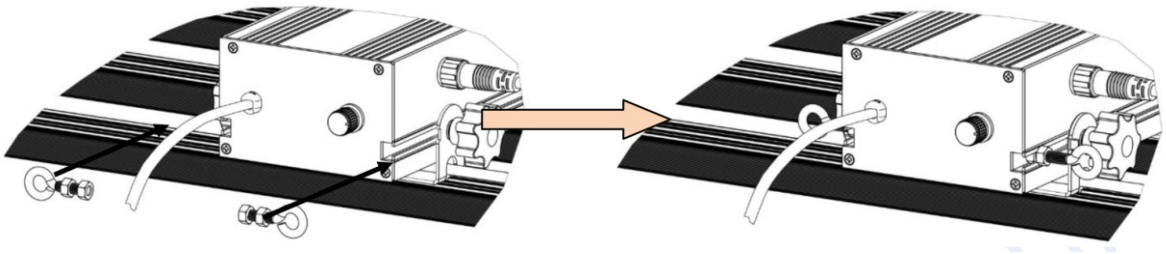


1.2 The lamp strip is aligned with the face plate male pin plug on the housing one by one.then,the female pin on the lamp strip is locked with the male pin plug on the housing one by one .Finally,tighten the hand screw nutto fix the lamp strip.

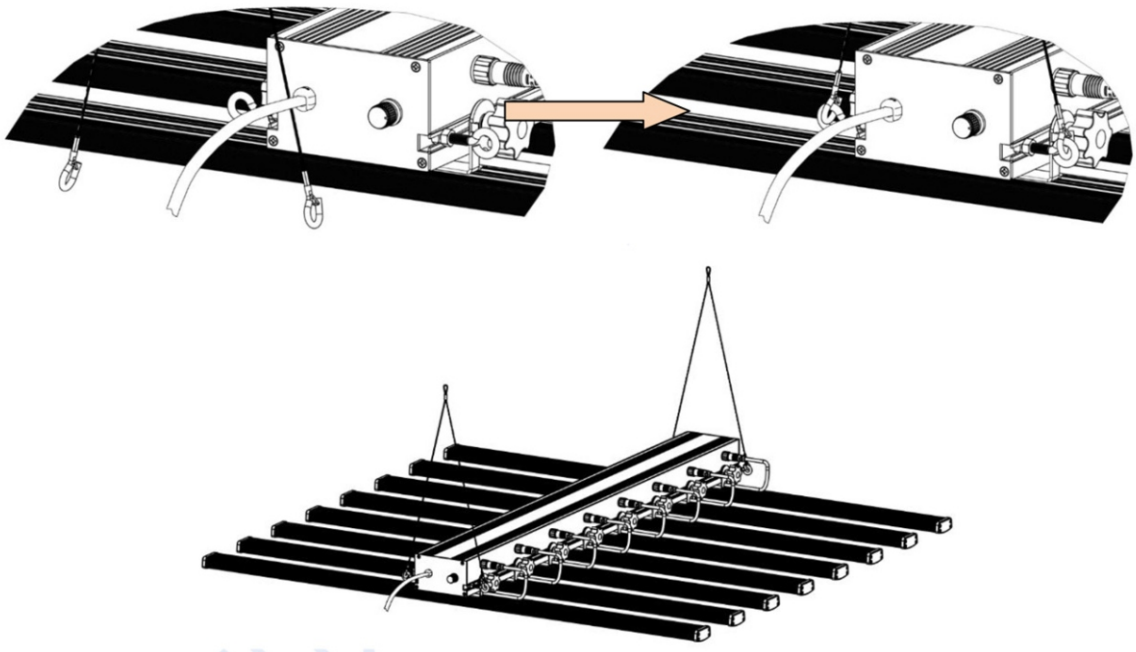


Installation

1.3 After the hook is introduced into the guide rail groove of the shell,tighten the hook until its opening is vertically downward,and then tighten the hexagon nut on the outside with a wrench for fixing

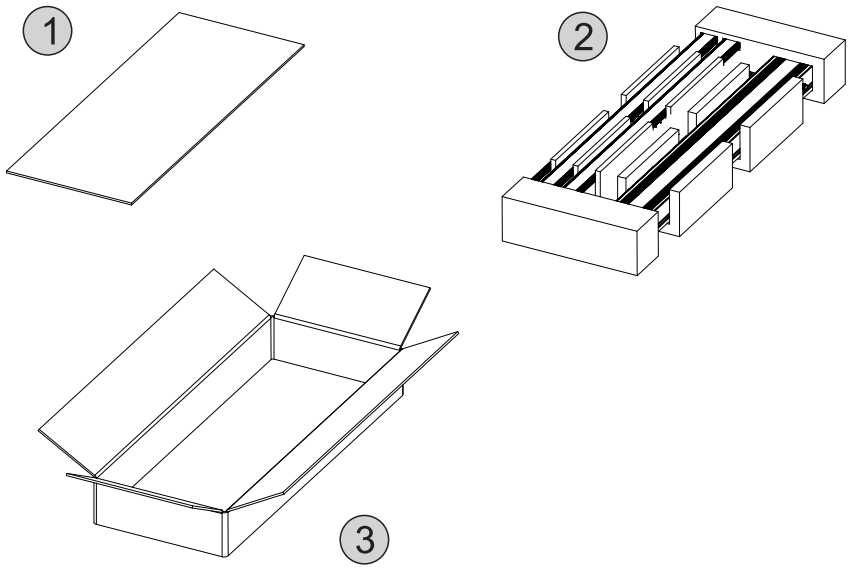


1.4 Insert the steel wire rope hook



Packing

Type	Carton Size(LxWxH)	G.W. per Carton	Quantity per Carton
LFHL400I0WRK01	1198*405*190mm	16 kg	1 PCS
LFHL600C0WRK01	1198*472*190mm	20.5 kg	1 PCS
LFHL600I0WRK03	1198*472*190mm	20.5 kg	1 PCS



Manufacturer Recommendation

1. Avoid direct contact with rain or snow
2. The product should be stored in a dry and well-ventilated warehouse with temperature of -25℃ to +50℃ and relative humidity no more than 85%
3. The product should be inspected and maintained at regular intervals (within 6 months).
4. Keep away from liquids to avoid damage
5. Periodically verify the stability of the hanging lamp and it supports to prevent injury
6. For best results, LED lighting fixtures must be installed and kept parallel with the ground.
7. Turn off the power supply before installation