Up-shine® Lighting

Technical Application Guide for UP SHINE LED Tube Light

UP-T812W900-O

Introduction

LED Glass Tube is the most practical and economical energy saving design compared to aluminum & PC tube or complete plastic LED tube T8. These glass tubes distribute light in 180° wide beam angle without dark area and provide high lumen output while achieving efficacies over 100 lumens per watt.

It has translucent crystal appearance, smooth and moist texture, enjoyable experience. High thermal conductivity glass ensures low temperature during operating, which brings reliable and stable product performance throughout lifetime.

- Up to 70% energy saving compared to halogen lamp
- Long lifetime of 40,000 hours
- 180° beam angle
- 900mm length
- CCT: 3000K 4000K 5000K 5700K
- No UV/IR light
- Environment friendly, without Mercury or any other hazardous substances

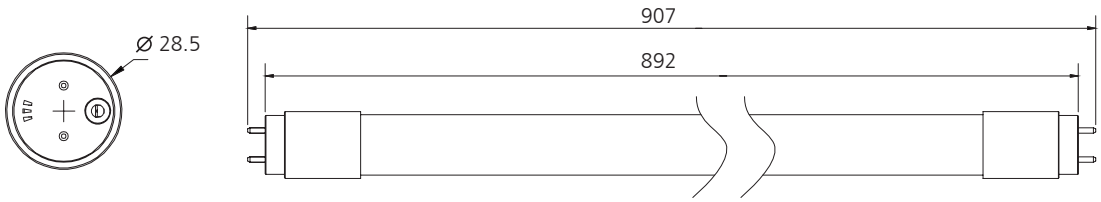
Application notes

- IP20 for indoor use only
- Professional electrician for installation only
- Switch off before installation
- Do not touch when in use
- Keep away from hot steam and corrosive gas

Certificates

CE RoHS

Product Information



Technical Specifications

Model	Voltage	Power	Power Factor	Lumen (±5%)	Beam angle	CCT	Lifespan	CRI	Dimmable	Dimension
UP-T812W900-O	AC100-240V	12W	≥0.9	1050	180°	3000K	40000h	≥80	No	L907*W28.5*H28.5mm
UP-T812W900-O	AC100-240V	12W	≥0.9	1150	180°	4000K	40000h	≥80	No	L907*W28.5*H28.5mm
UP-T812W900-O	AC100-240V	12W	≥0.9	1180	180°	5000K	40000h	≥80	No	L907*W28.5*H28.5mm
UP-T812W900-O	AC100-240V	12W	≥0.9	1200	180°	5700K	40000h	≥80	No	L907*W28.5*H28.5mm

Driver data Sheet

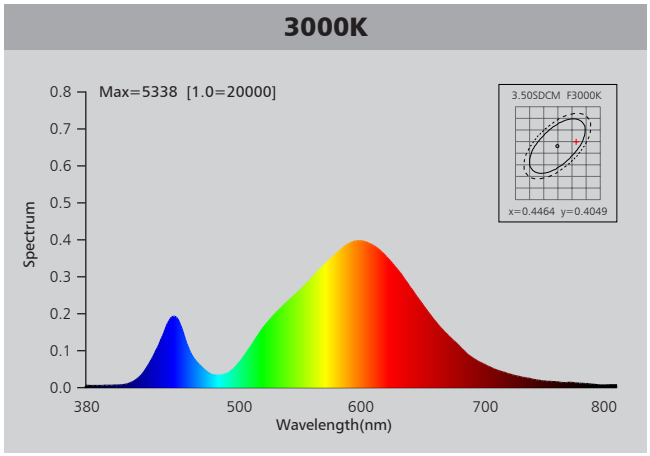
Driver data	Non-dim
Input rated Voltage	AC100-240V
Frequency	50/60Hz
Input Voltage	AC85-265V
Efficiency	≥88%
Total load Wattage	12W±1W
Power Factor	≥0.9
Rated input current	≤0.14A
Full load output Voltage	DC60-72V
Rated output current	150mA
Output current range	150mA±5%
Power tolerance	±5%
Current output tolerance	±5%
Short circuit protection	PASS
Over voltage protection	PASS
Over temperature protection	PASS
Withstand voltage	AC3750V

Fixture Compatibility

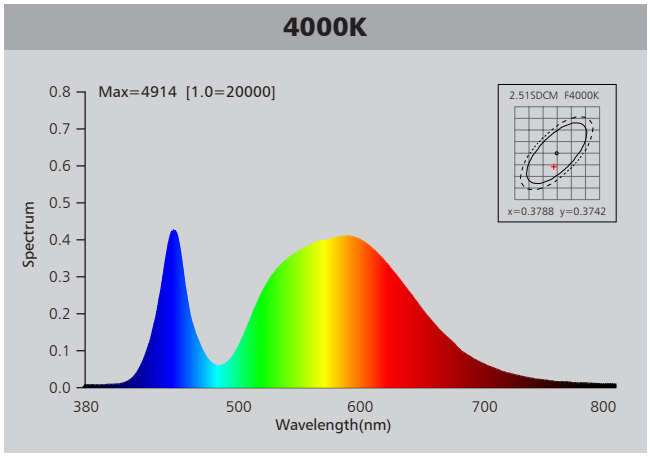
Rated Wattage	Electrical Classification	Ingress Protection	Operating Temp	Operating Humidity	Storage Temp
12W	II	IP20	-20°C~45°C	0~90%	-20°C~65°C

Spectral Distribution

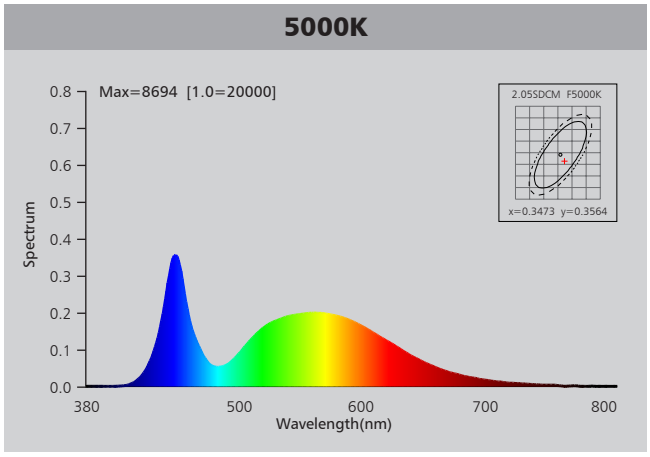
3000K



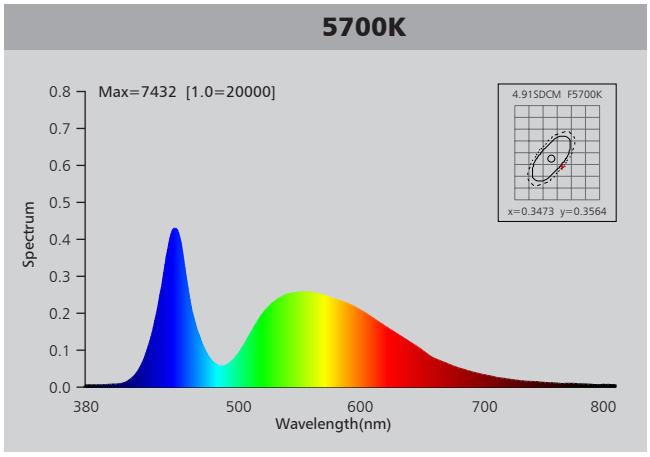
4000K



5000K

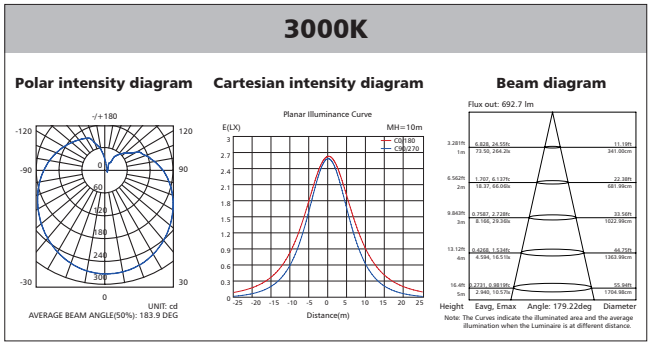


5700K

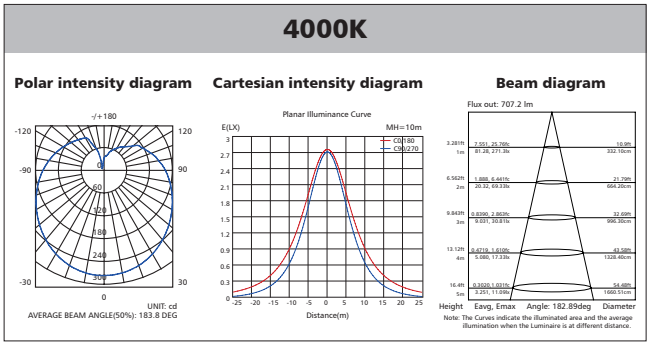


Photometric Diagram

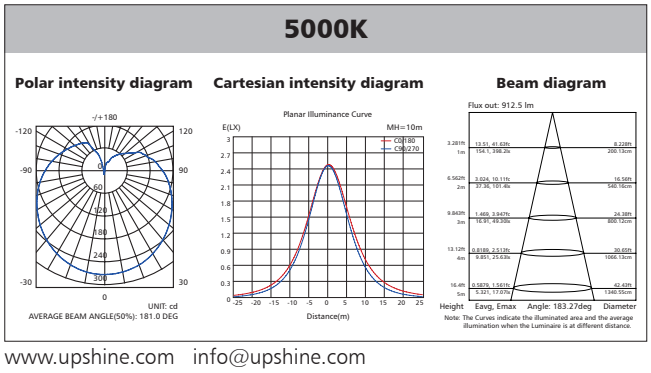
3000K



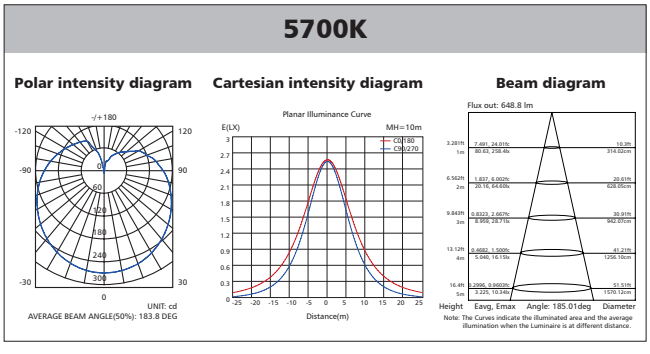
4000K



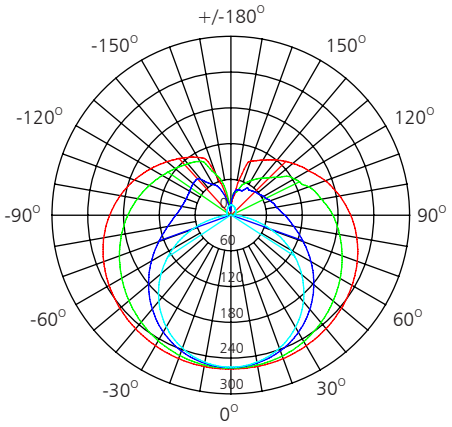
5000K



5700K



Polar Diagram Comparison

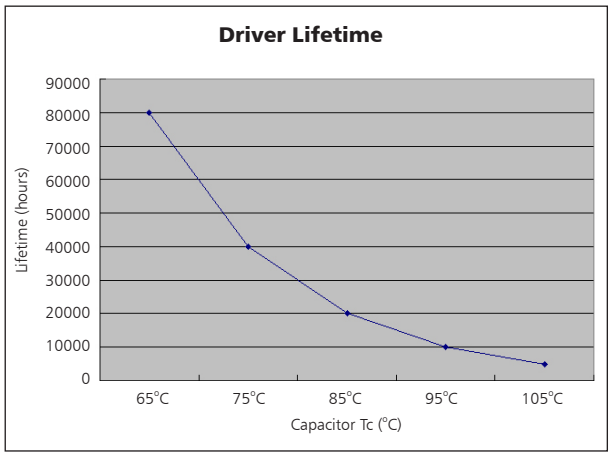


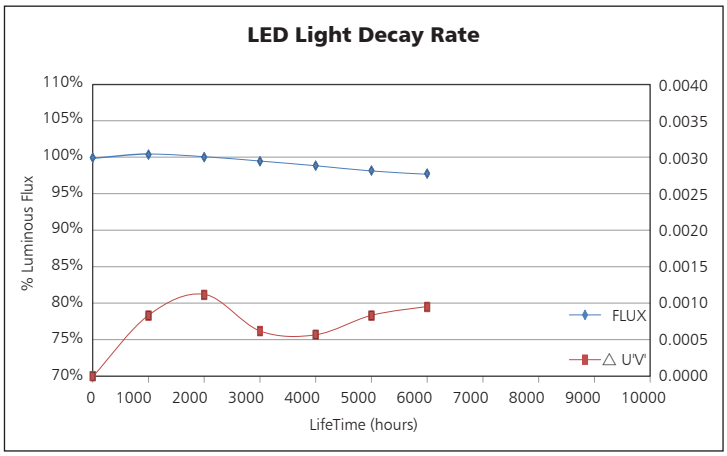
UNIT: cd

- C0/180, 272.0 deg
- C30/210, 240.3 deg
- C60/240, 141.1 deg
- C90/270, 113.8 deg

AVERAGE BEAM ANGLE (50%): 181.8DEG

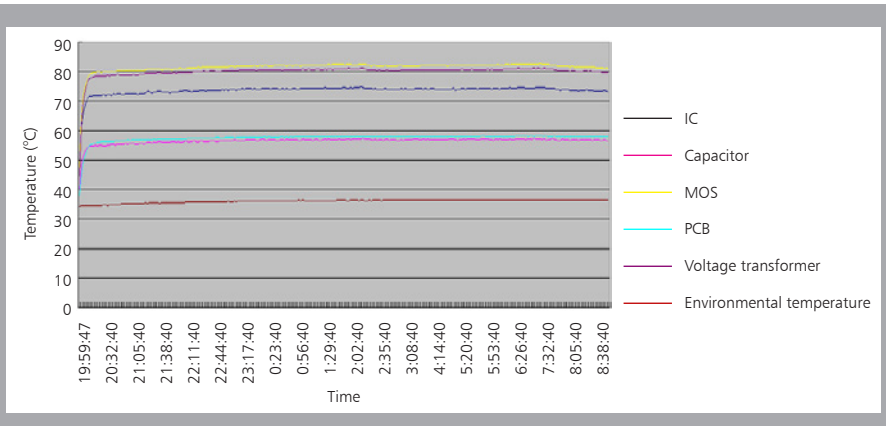
Driver lifetime & LED light decay rate





Temperature

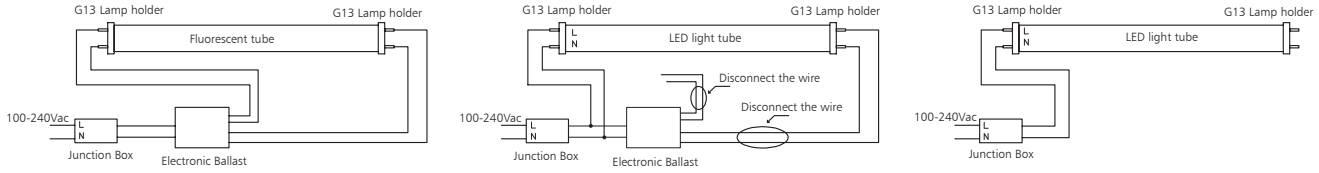
- The testing is operated at 25°C
- The lifetime of capacitor, minimum of 5,000 hours if operated at 105°C, will be doubled whenever the temperature drops 10°C.
- The highest withstand temperature of IC, MOS could be 120°C
- The highest withstand temperature of LED junction temperature is 150°C



The driver lifespan is based on capacitor working temperature.

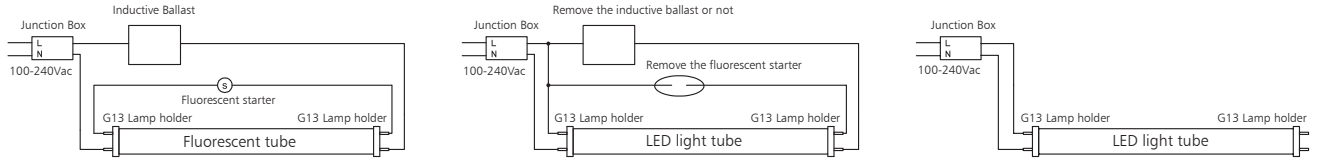
Installation

1. One end power tube, installation with Electronic Ballast



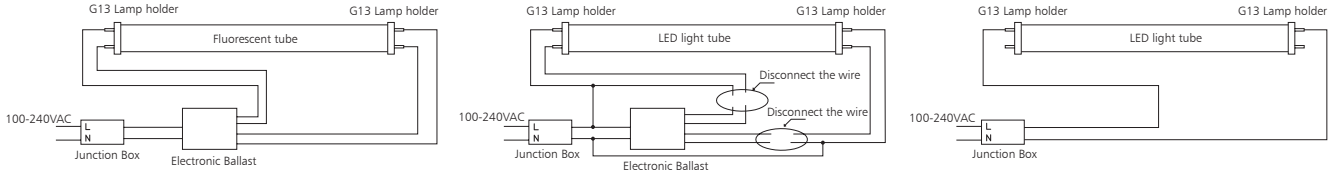
Step 1 Step 2 Step 3

2. One end power tube,installation with Inductive Ballast



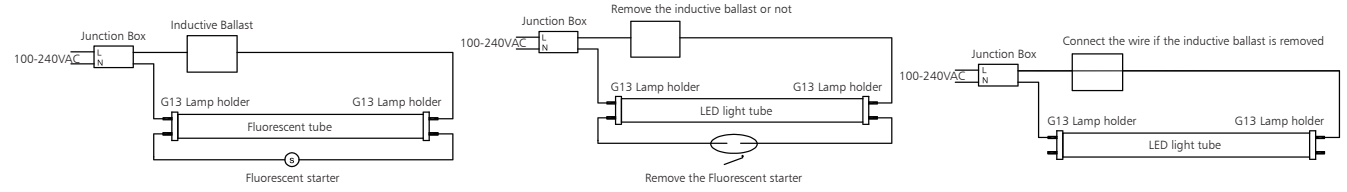
Step 1 Step 2 Step 3

3. Two end power tube, installation with Electronic Ballast



Step 1 Step 2 Step 3

4. Two end power tube, installation with Inductive Ballast

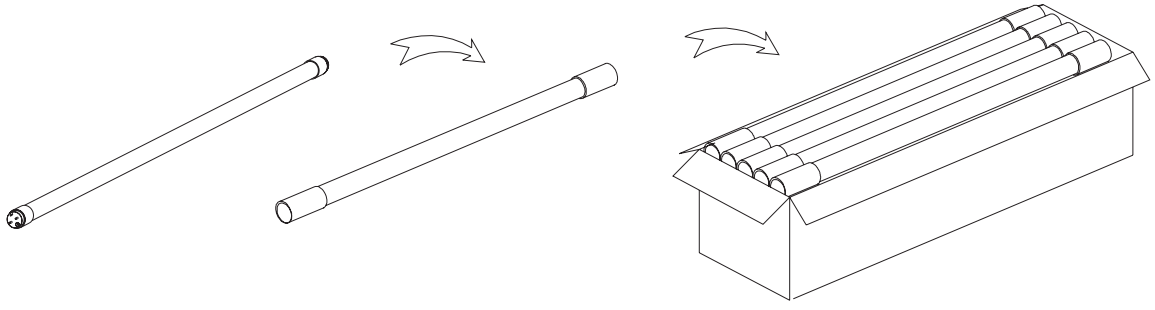


Step 1 Step 2 Step 3

Packaging Information

	SIZE(CM)	N.W/pc (KGS)	G.W.(KGS)	Q'TY(PCS)
Carton	99*21*21	0.25	10.4	25

	CTNS	Q'TY(PCS)	VOLUME(CBM)
20" standard container	620	15500	28
40" standard container	1240	31000	56



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