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## Composition



No.	Component Name
1	T5 Tube
2	Cover with the size as T8 (Diameter 26mm) or T10 (Diameter 32mm)
3	Self-Ballast
4	Copper pin



**Dismantled**



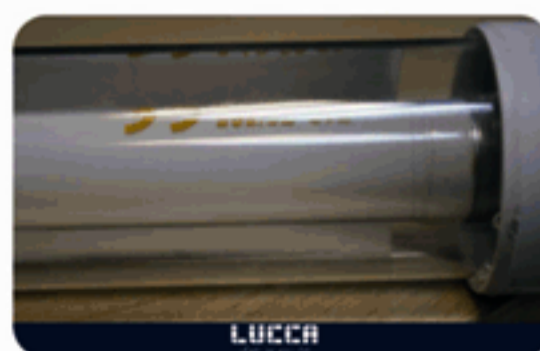
**Dismantled**



**Commutative T5 Tube**

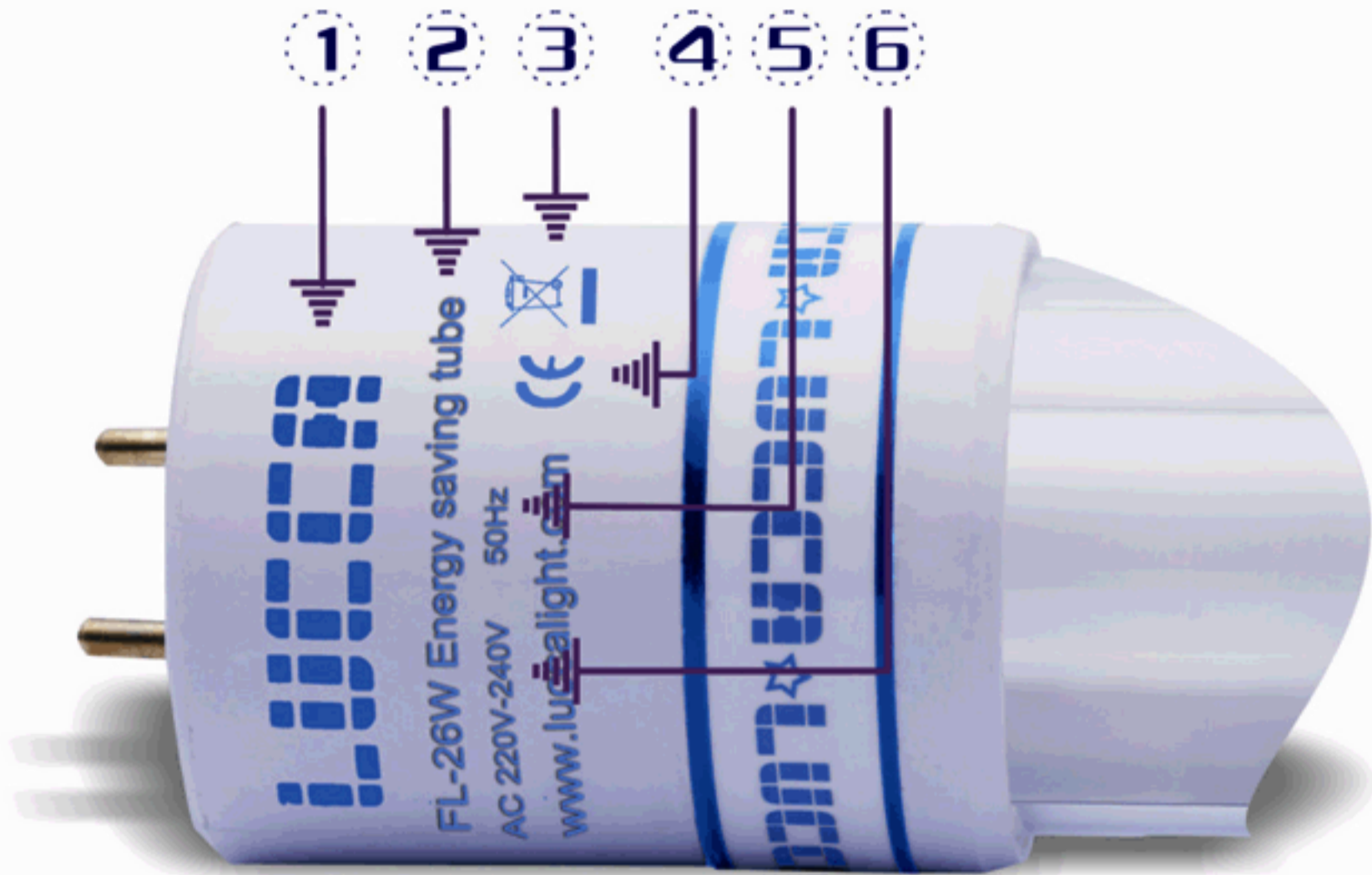


**cooling hole**



**Build-in Reflector**





No.	Silk Screen Information
1	Brand Name
2	Product description & Power
3	WEEE mark
4	CE mark
5	Voltage Frequency
6	Voltage

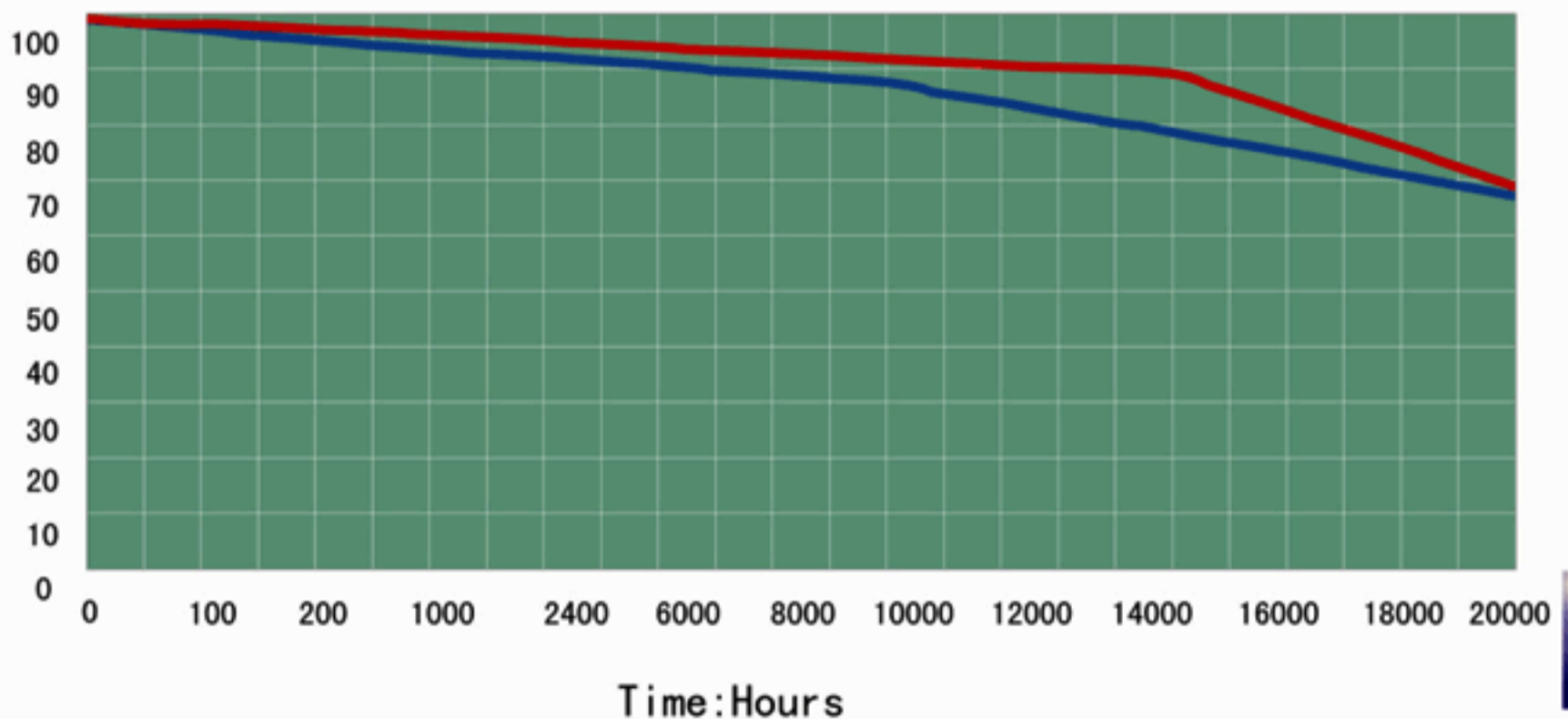
## Performance of Product

1. Work Voltage Range	220-240v			
2. Nominal and rated lamp luminous flux	95lm/w			
3. 100hr later, power rates	±2%			
4. Colour Rendering Index (Ra) of the lamp	Ra:85			
See the Lumens depreciation Graph				
6. Rated lamp Survival Factor	See the Lumens depreciation Graph			
7. Mercury content of inner tube	3mg--5mg			
Colour temperature of the lamp	2700K	3000K	4000K	6500K
8. Ambient temperature at which the lamp was designed it luminous flux.	25±5°C			

## T5 ENERGY SAVING LAMP LUMENS DEPRECIATION AND LIFE GRAPH

Time (Hr)	0	100	200	1000	2400	6000	8000	10000	12000	14000	16000	18000	20000
Lumens depreciation (%)	100	100	98	97	95	93	91	88	85	82	78	74	70
Lamp survival factor (%)	100	100	100	99	98	97	96	95	93	90	85	78	70

percent



— Lamp survival curve — lumens depreciation curve





## Parameter of the Lamp

Model No.	Tube Type	Length	Parameter	Packing	Cap material (T8/T10)
FL-12W	T5 in T8/T10	600mm/2'	Watts:12W Power Factor: >0.95 T.H.D. :<15% Color Temperature:3000/6500/8000 Luminous (LM/W) :95Lm/W CRI : Ra:85 Average Life: 20,000hrs Current:57mA	Carton size: 60*21*17 cm, 20pcs per carton	Glass
					Polycarbonate
FL-22W	T5 in T8/T10	1200mm/4'	Watts:22W Power Factor: >0.95 T.H.D. :<15% Color Temperature:3000/6500/8000 Luminous (LM/W) :95Lm/W CRI : Ra:85 Average Life: 20,000hrs Current:105mA	Carton size: 124*21*17 cm, 20pcs per carton	Glass
					Polycarbonate
FL-26W	T5 in T8/T10	1200mm/4'	Watts:26W Power Factor: >0.95 T.H.D. :<15% Color Temperature:3000/6500/8000 Luminous (LM/W) :95Lm/W CRI : Ra:85 Average Life: 20,000hrs Current:124mA	Carton size: 124*21*17 cm, 20pcs per carton	Glass
					Polycarbonate
FL-32W	T5 in T8/T10	1500mm/5'	Watts:32W Power Factor: >0.95 T.H.D. :<15% Color Temperature:3000/6500/8000 Luminous (LM/W) :95Lm/W CRI : Ra:85 Average Life: 20,000hrs Current:143mA	Carton size: 156*21*17 cm, 20pcs per carton	Glass
					Polycarbonate
FL-36W	T5 in T8/T10	1500mm/5'	Watts:36W Power Factor: >0.95 T.H.D. :<15% Color Temperature:3000/6500/8000 Luminous (LM/W) :95Lm/W CRI : Ra:85 Average Life: 20,000hrs Current:163mA	Carton size: 156*21*17 cm, 20pcs per carton	Glass
					Polycarbonate

## Lamp Advantage

ETIT is designed Mainly for the replacement market to retrofit fluorescent tube from Traditional T8 tube to T5 tube by introducing "Tube in Tube" technology with built in high efficiency T5 tubes system inside the limited space. As tested and inspected by CLPE, high efficiency means high power factor more than 96, Total harmonic distortion less than 15%, total saving of power consumption can be up to 50%, long life time as compared with common type T8 tube. All the existing T8 lamp fixture has still been used but it takes all the advantage generated from T5 tube

ETIT has introduced with the latest technology of T5 high wattage fluorescent lamps and electronic ballast system inside the limited space. Since the electronic ballast is the high frequency unit (30,000 Hz to 50,000 Hz), the tube will have no sound and flicker when starting up the lamps. However, for the traditional T8 or T9 fluorescent lamps, they have to operate with the traditional magnetic ballast and starter, it's working frequency is only 50 Hz or 60 Hz, which will cause flicker of lamp. A flickering lamp will influence man's mood, attention and vision. A no-flicker fluorescent lamp will provide man a quiet, comfortable and healthy lighting environment

## Easy to replace

CLPE known that it is a trend to replace the existing T8 tube from T5 tube in China. All government new projects, high performance electronic ballast with T5 tubes must be used and the existing government utilities project is now also retrofitting the old T8 tube to T5 tubes. Retrofitting by using ETIT have much advantages concerned: • Replacement of F series to the traditional T8 Tube is so simple; it's similar to the replacement method of Traditional fluorescent tubes. No Labour and No Re-wiring cost. It's can be direct plugged in to the existing fixture of T8 lamps. • No need to install additional electronic ballast.No modification to the existing lamps fixture.Due to no labour cost involved in the retrofitting project, total investment can be returned less than 6-9 months

## Environmental protection

Anyone who needs to use T5 tube with high efficient ballasts, they need to remove all the existing T8 old fixture, the old fixture of lamps become rubbish. However, by using F, all the existing fixtures can be remained and used. Just simple remove the T8 tubes and starter and replace with F T5 Tube, Saving of energy consumption can then be gained. The size of T5 tube is only 16mm. As the T5 tube is a miniature and slim tube, it needs the main raw materials, glass and phosphor, only 43.8% of T-8 tube. With less raw materials consumption and smaller size, T-5 tube can save space and cost in storage and transportation. Mercury inside the T5 tubes are much less than T8 tubes. Since, mercury can seriously pollute our environment, less mercury, less environment impact. Therefore, the T5 fluorescent lamps can reduce the pollution of environment.nd replace with F T5 Tube, Saving of energy consumption.

## Others Advantage

- 1.Energy saving.Can save up to 50% on the Power.
- 2.Long lifespan
- 3.Low temperature of 38 degrees C constant temperature control design
- 4.Cold start technology
- 5.low Luminous Decay, and high light efficiency
- 6.A number of patents and quality certification





## Working Conditions

### A. Power Requirements

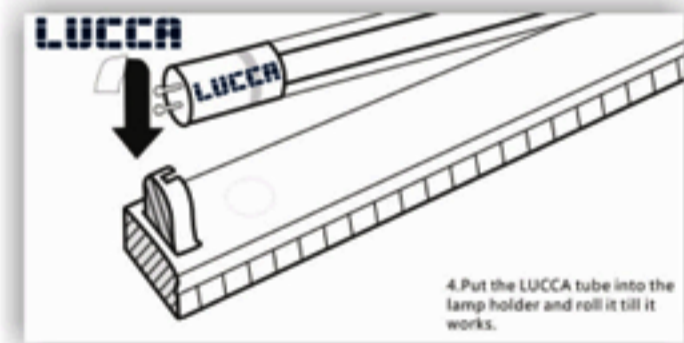
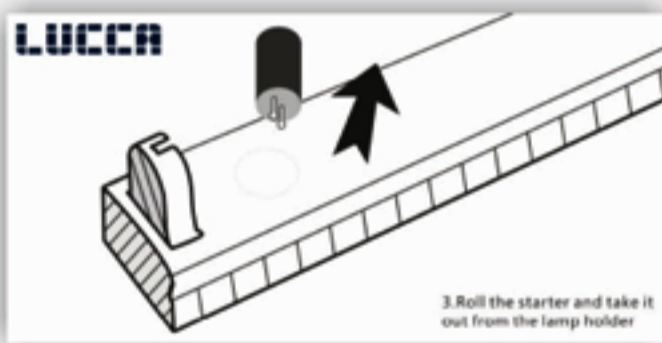
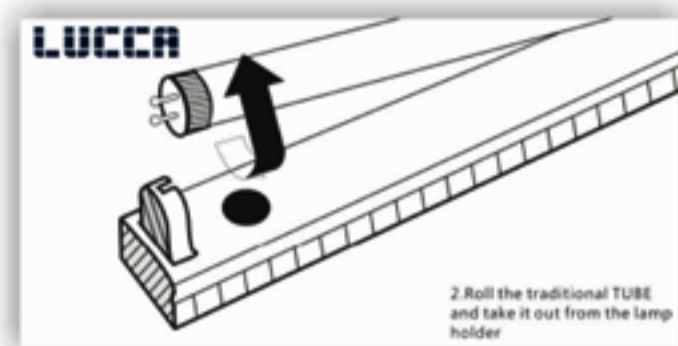
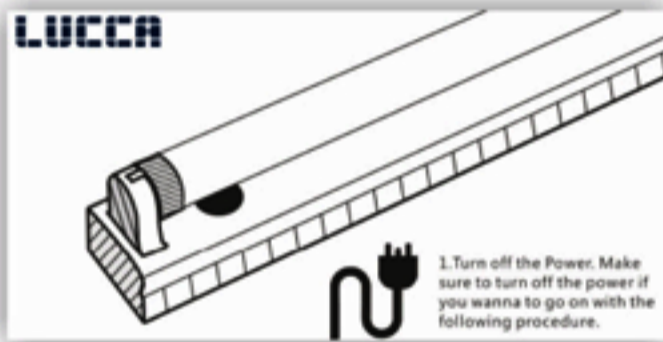
Voltage : 220-240V  
 Voltage Frequency: 50Hz  
 Power: 12W-36W each, depending on the number of fixed  
 Power Type: AC

### B. environmental requirements

Operating temperature: -20 degrees -50 degrees  
 Relative Humidity: 10% -90%  
 For exposure or closed environments, need to fixed the lighthouse lamp

## Installation Procedure of The Lamp

The way to replace the traditional lamp: No need to replace or change the fixture, Just remove the starter and the traditional lamp, Then install LUCCALIGHT lamp directly. After that, the procedure is completed See the flow chart following:



## WARNING :

- All wires must not through electronic ballast.
- Two ends of the tube must be positive and negative, no matter which end.

## Warranty

### **Lucca Group Co.Ltd warrants that:**

All the products shall be manufactured and qualified under the enterprise production standards. Meanwhile, products shall have no quality or craft defects within the quality warranty period, and all the performance indexes shall meet the technical requirements. The warranty certificate applies to those that have quality problems caused by products' material or craft defects after factory product testing of Lucca Group Co.Ltd.

### **Warranty terms:**

The installation, adjustment and operation of the products shall be preceded by professionals in strict accordance with the instructions and technical requirements. The warranty terms won't be considered effective unless the product failure or defect arises during the normal use process. Moreover, the warranty terms won't apply to failures which are caused by misuse, abuse, accident, illegal maintenance or improper use of the products.

Lucca Group Co.Ltd just provides warranties such as maintenance, replacement and compensation of products. And the compensation limits only to product itself, excluding the energy-saving lamp tubes or any other relevant portions. The maximum liability of compensation confine to the value of product.

The compensation shall not be preceded unless the failure lamp tubes which are properly packaged and Product Failure Report is received. The number and time of uses shall be checked and confirmed by Lucca Group Co.Ltd.

The warranty terms are only available for the direct purchasers, and the transfer of warranty shall not be valid without the authorization of Lucca Group Co.Ltd.

Vendor shall be responsible for the costs caused by the transportation of the failure products back to Lucca Group Co.Ltd. However, Lucca Group Co.Ltd shall be responsible for the maintenance costs specified in warranty terms.

During the quality warranty period, the warranty certificate won't be effective unless the compensation requirements are issued within 15 days after the product failure emerges and accepted by Lucca Group Co.Ltd. If Lucca Group Co.Ltd agrees to refund the money or freely replace the products, the refunded or replaced products belong to Lucca Group Co.Ltd.

### **Quality warranty period**

The lamp tubes can be freely maintained, replaced or refunded within 16 months after the shipping date. The refunded products shall be provided quality verification report issued by local SGS testing institution, and vendor should be responsible for the report fee. If the quantity of replaced products is less than 2% of the total order quantity, the vendor can add those products to the next order of that purchaser; if the quantity of replaced products exceeds 2% of the total order quantity, the vendor should finish supplying those products before the next order of that purchaser.



# Conformity

**Manufacturer's Name** : LUCCA GROUP LIMITED  
**Manufacturer's Address** : 2907#Jianghe Building, No.31, Tianshou Road,  
Tianhe District, Guangzhou, China  
**Model No.** : FL-12W, FL-22W, FL-26W, FL-32W, FL-36W  
**Product name** : Energy saving tube

## Standard(s) to which Conformity is Declared as following:

EN60598-1:2008+A11:2009; EN60598-2-1:1989  
EN55015:2006+A1:2007+A2:2009; EN61547:1995+A1:2000;  
EN61000-3-2:2006; EN61000-3-3:2008

## Supplementary Information:

- 1) The product herewith complies with the requirements of EU Low Voltage Directive ( 2006/95/EC ) & EU EMC Directive 2004/108/EC and its amendments. The product was tested in a typical configuration
- 2) The product was tested in a typical configuration. For regulatory purpose, this product is assigned a Regulatory Model Number (RMN). This number should not be confused with the product name or number
- 3) Operation is subject to the following two conditions: (1) This device may not cause harmful interference (2) This device must accept interference received, including interference that may cause undesired operation

## For Regulatory Topics only, contact:

LUCCA GROUP LIMITED  
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