

LED T8 TUBE LAMPS - GLASS SERIES
PRODUCT SERIES DATASHEET



Glass LED T8 Tube Lamps



88Light Glass LED T8 Tube series is ideal for Home, Commercial and Public Lighting. 100% retrofit with more than 100Lumen per watt efficiency Epistar chips provides a high anti-static resistance and unique brightness distribution.

Applications:



Restaurant



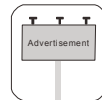
Office



Residence



Living Room



Advertising



Hotel



School



Railway Station

PRODUCT FEATURES

- Glass Tube, light weight and more safer when touched.
- Milk Glass Tube, the light is uniform like traditional glass tube.
- High efficiency, save more energy than traditional fluorescent tube.
- Large input of voltage from AC90-265V, quick start without delay.
- Low light decay to keep good maintains.
- Good light without UV, IR to avoid harmful to human eyes.
- Low heat emit to the environment.
- WW 3000K, NW 4000K and CW 6500K options.
- It can light up to 50,000 hours (based on 14 hours daily usage).
- CE for EMC and LVD approved and RoHS compliant.
- Double side connection, single side bridged or non-bridged options upon request.



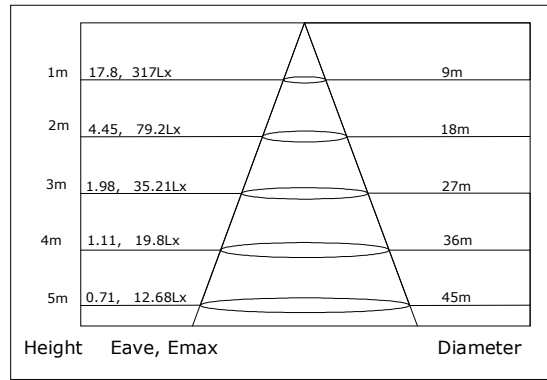
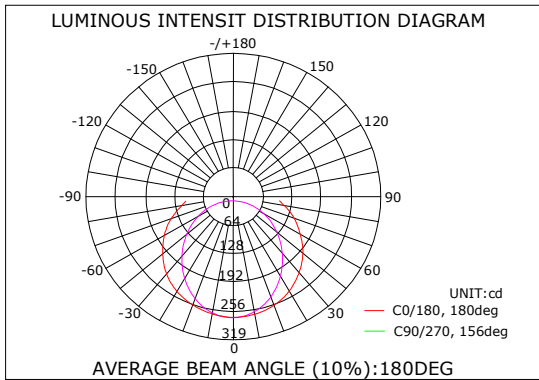
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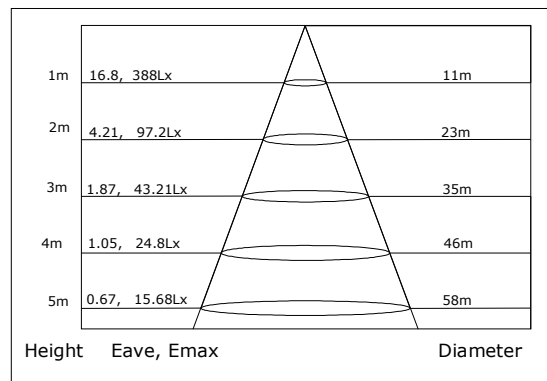
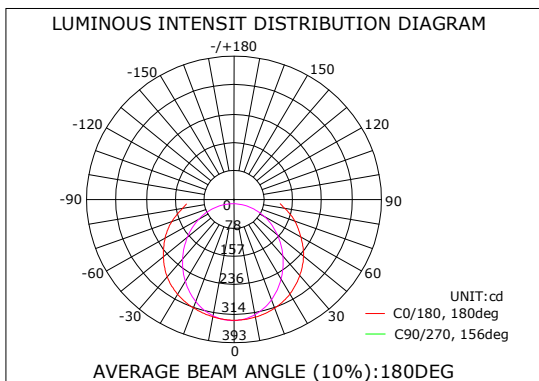
ILLUMINANCE DIAGRAM

Product Luminance:

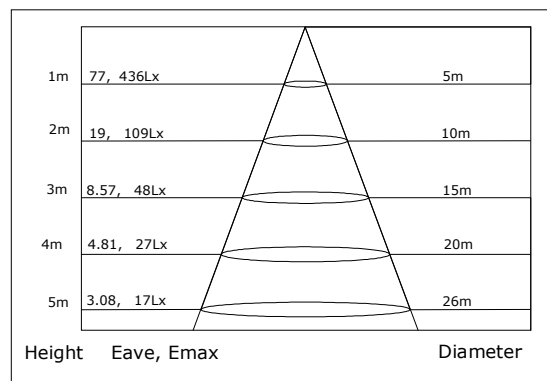
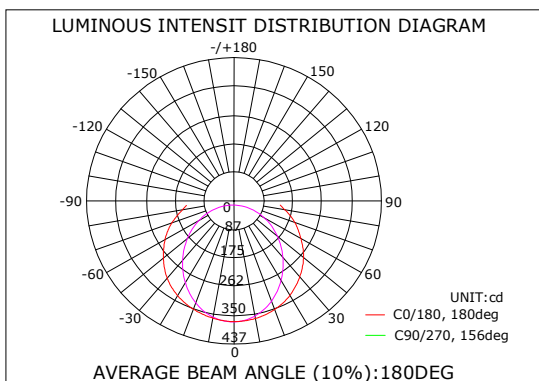
9 Watts



13 Watts



18 Watts



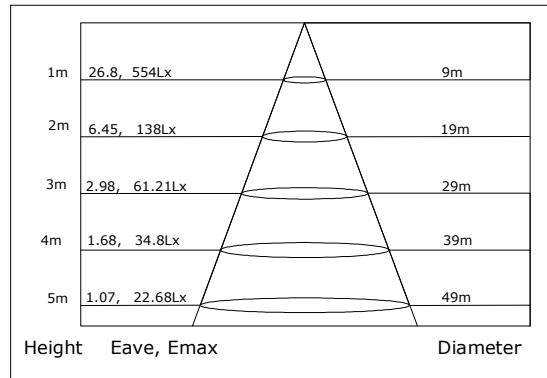
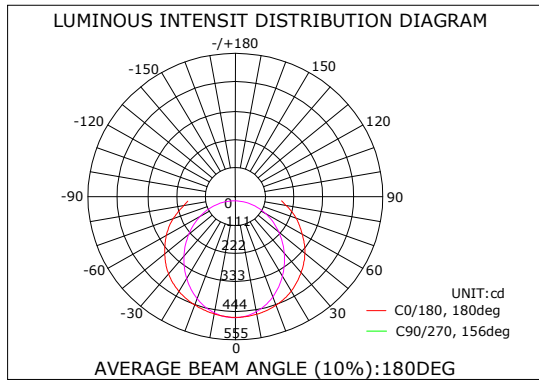
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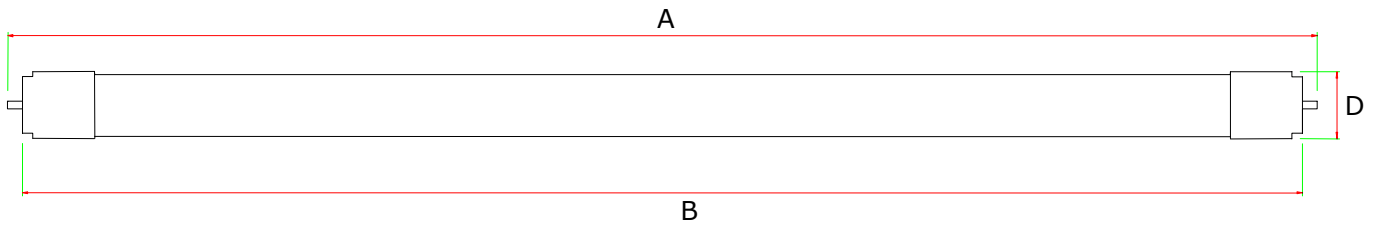
ILLUMINANCE DIAGRAM

Product Luminance:

22 Watts



PRODUCT DIAGRAM



Product Name	A [mm]	B [mm]	D [mm]
88L-LT-9W-60T8-FG	604	588	26
88L-LT-13W-90T8-FG	912	896	26
88L-LT-18W-120T8-FG	1212	1198	26
88L-LT-22W-150T8-FG	1513	1498	26

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TECHNICAL DATA

Electrical characteristics^{1, 2}:

Product Name	Operating Voltage [Vac]	Frequency [Hz]	Power [w]	Power Factor	LED Drive current [mA]	Base
88L-LT-9W-60T8-FG	90 ~ 265	50 / 60	9	>0.92	115mA	G13
88L-LT-13W-90T8-FG	90 ~ 265	50 / 60	13	>0.95	220mA	G13
88L-LT-18W-120T8-FG	90 ~ 265	50 / 60	18	>0.95	220mA	G13
88L-LT-22W-150T8-FG	90 ~ 265	50 / 60	22	>0.95	300mA	G13

Note1: Absolute ratings @ 25°C.

Note2: Operating Temperature -20~+45° C; Storage Temperature -30~+60° C.

Optical Characteristics^{1, 3}:

Part number	Color	Color Temp. [°K]	Luminescence ³ [lm]	CRI (Ra)	Beam Angle [°]
88L-LT-9W-60T8-FG-CW	Cold White	6000	990	>80	200
88L-LT-9W-60T8-FG-NW	Nature White	4000	900	>80	200
88L-LT-9W-60T8-FG-WW	Warm White	3000	900	>80	200
88L-LT-13W-90T8-FG-CW	Cold White	6000	1430	>80	200
88L-LT-13W-90T8-FG-NW	Nature White	4000	1300	>80	200
88L-LT-13W-90T8-FG-WW	Warm White	3000	1300	>80	200
88L-LT-18W-120T8-FG-CW	Cold White	6000	1980	>80	200
88L-LT-18W-120T8-FG-NW	Nature White	4000	1800	>80	200
88L-LT-18W-120T8-FG-WW	Warm White	3000	1800	>80	200
88L-LT-22W-150T8-FG-CW	Cold White	6000	2420	>80	200
88L-LT-22W-150T8-FG-NW	Nature White	4000	2200	>80	200
88L-LT-22W-150T8-FG-WW	Warm White	3000	2200	>80	200

Note 1: Absolute ratings @ 25°C.

Note 3: Tolerance of measurement of luminous intensity±6%.

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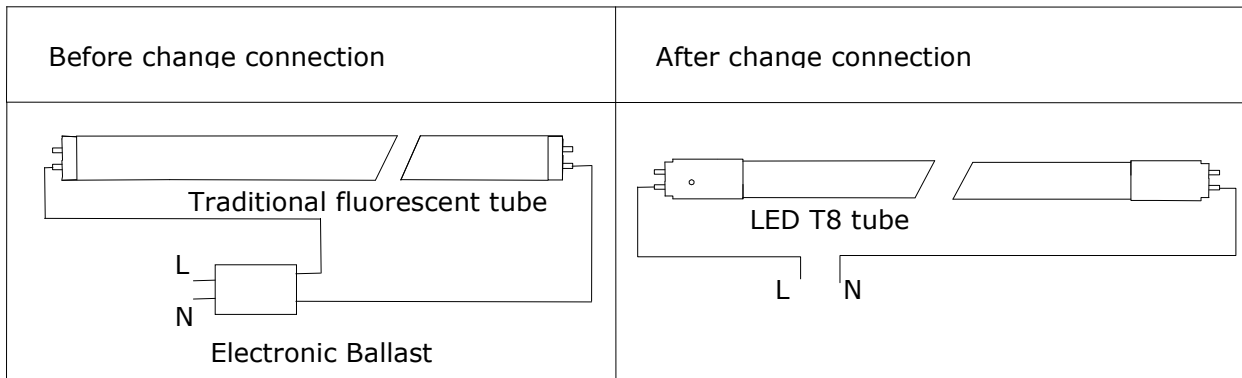


PRODUCT INSTALLATION [Standard LED tube with 2 sides connection]

Standard tube with double side connection, replacement when electronic ballast:

If lighting fixture's wire connection is Electronic ballast, installation as bellow:

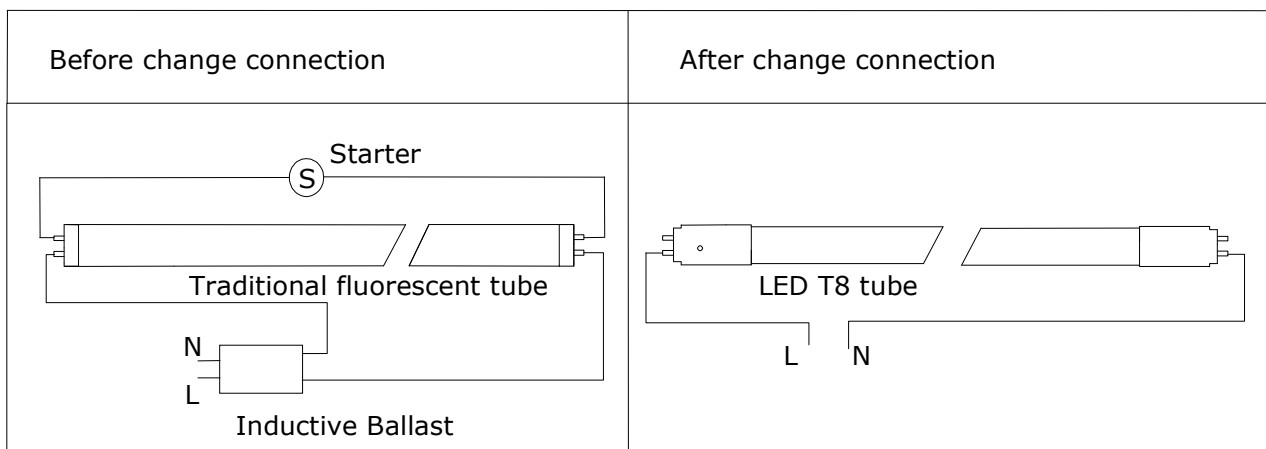
- Step 1. Remove the traditional fluorescent tube from the lighting fixture.
- Step 2. Take out the electronic ballast from the lighting fixture.
- Step 3. After take out the ballast, there will have two wires. One wire connects to right side and another wire connects to left side.
- Step 4. Install LED tube light into lighting fixture.



Standard tube with double side connection, replacement when inductive ballast:

If lighting fixture's wire connection is inductor ballast, installation as bellow:

- Step 1. Remove the traditional fluorescent tube from the lighting fixture.
- Step 2. Take out the starter and inductor ballast from the lighting fixture.
- Step 3. After take out the ballast, there will have two wires. One wire connects to right side and another wire connects to left side.
- Step 4. Install LED tube light into lighting fixture.



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PRODUCT INSTALLATION [**Optional** single side *NON-BRIDGED* LED tube]

Precaution: Switch off power before doing any works. Confirm if your LED tube is the non-bridged type, a bridged LED tube used in a fixture designed for NON-BRIDGED LED tubes have a risk of short circuit.

NON-BRIDGED LED tube replacement when Electronic ballast:

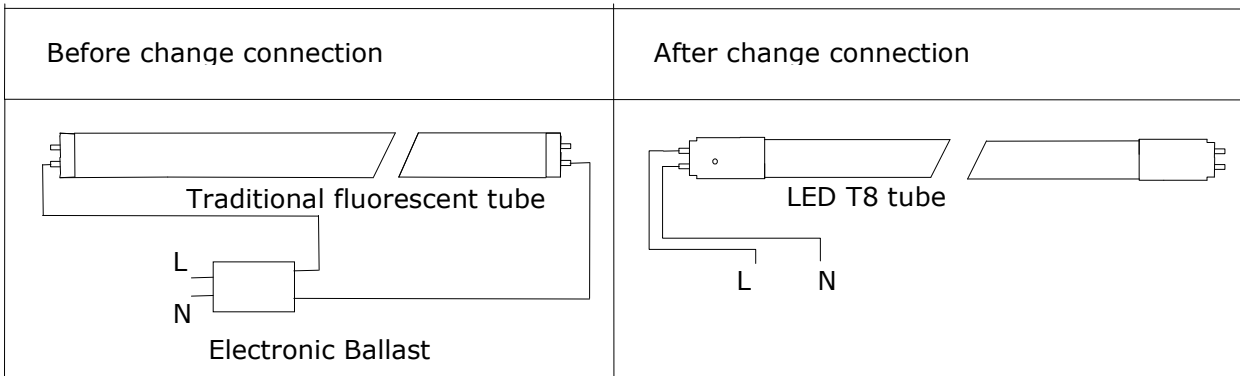
If lighting fixture's wire connection is electronic ballast, installation as bellow:

Step 1. Remove the traditional fluorescent tube from the lighting fixture.

Step 2. Take out the electronic ballast from the lighting fixture.

Step 3. After take out the ballast, there will have two wires. Both wires connect to the indicated SINGLE side it cold be label indicated, different color than white or longer cap with clip; one cable goes to N and the other to the L.

Step 4. Install LED tube light into lighting fixture.



NON-BRIDGED LED tube replacement when inductive ballast:

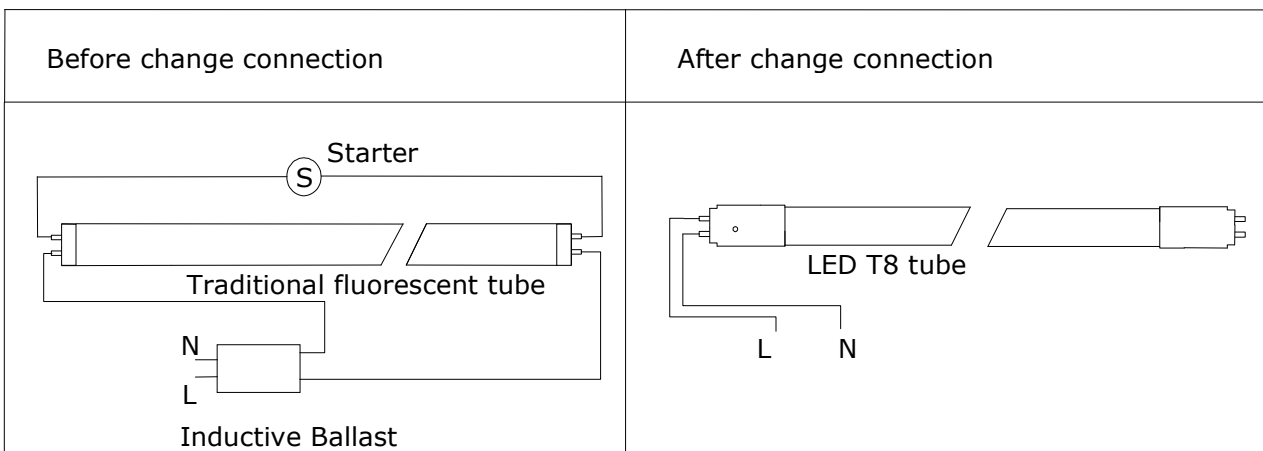
If lighting fixture's wire connection is inductor ballast, installation as bellow:

Step 1. Remove the traditional fluorescent tube from the lighting fixture.

Step 2. Take out the starter and inductor ballast from the lighting fixture.

Step 3. After take out the ballast, there will have two wires. Both wires connect to the indicated SINGLE side it cold be label indicated, different color than white or longer cap with clip; one cable goes to N and the other to the L.

Step 4. Install LED tube light into lighting fixture.

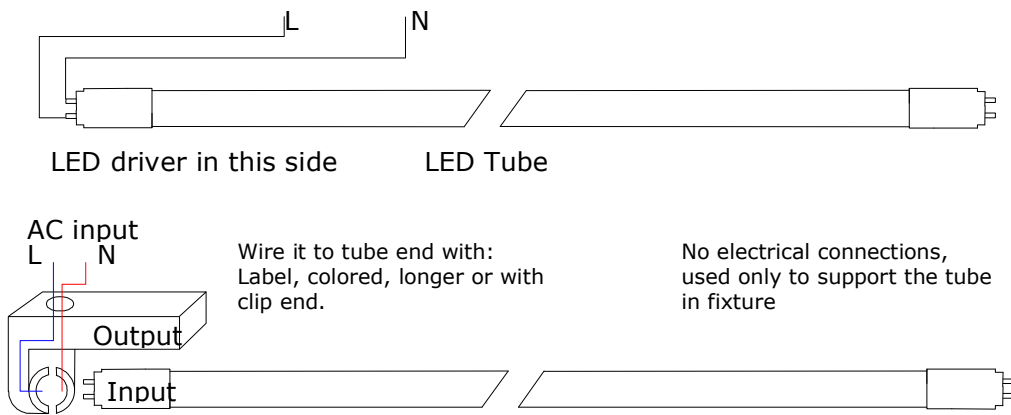


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PRODUCT INSTALLATION [**Optional** single side *NON-BRIDGED* LED tube]

ONE SINGLE SIDE NON-BRIDGED TUBE CONNECTION



Please note or add a warning label after the product has been installed to indicate the type of single side connection LED tube that can be used. This data sheet connection diagram shows only the non-bridged single side tube option, for bridged tubes please consult 88Light.

Recommended fixture caution label:



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PRODUCT INSTALLATION [**Optional** single side *BRIDGED* LED tube]

Precaution: Switch off power before doing any works. Confirm if the tube is the bridged type, non-bridged single side LED Tubes will not work in a fixture designed for bridged LED tubes.

BRIDGED LED tube replacement when Electronic ballast:

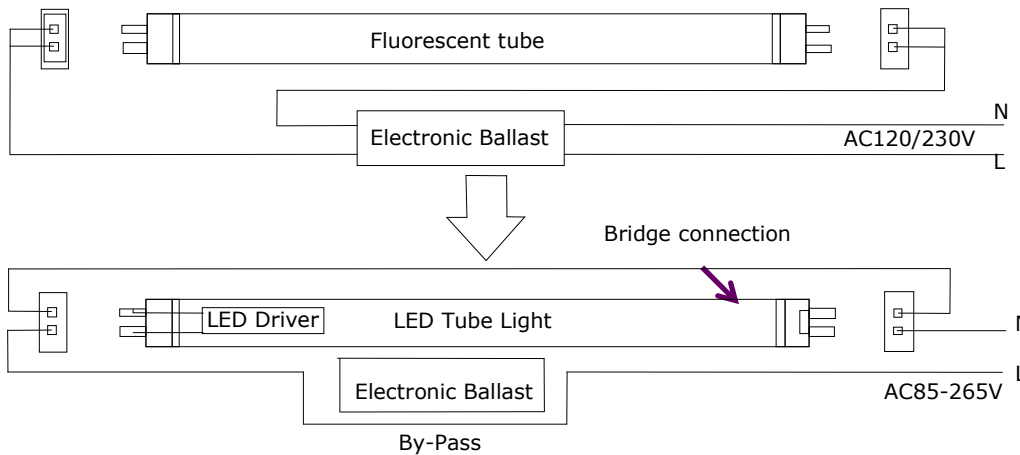
If lighting fixture's wire connection is electronic ballast, installation as bellow:

Step 1. Remove the traditional fluorescent tube from the lighting fixture.

Step 2. Take out the electronic ballast from the lighting fixture.

Step 3. After take out the ballast, there will have two wires. Both wires connect to the indicated SINGLE side it cold be label indicated, different color than white or longer cap with clip; one cable goes to N and the other to the L.

Step 4. Install LED tube light into lighting fixture.



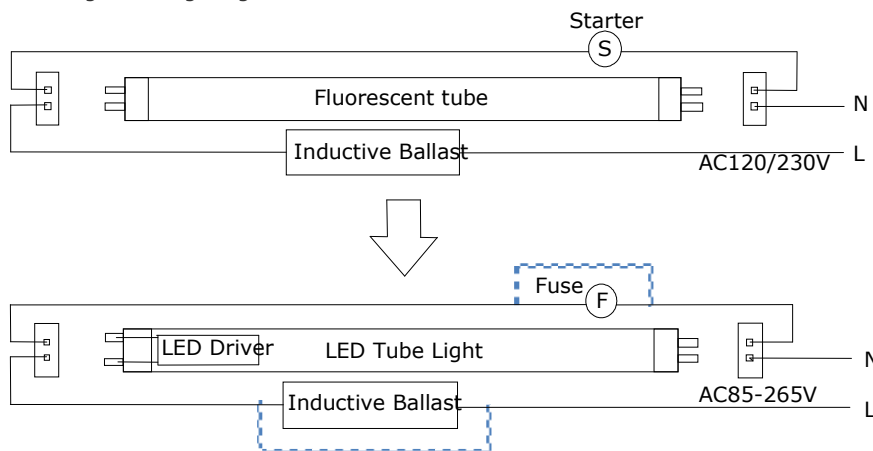
BRIDGED LED tube replacement when inductive ballast:

If lighting fixture's wire connection is inductor ballast, installation as bellow:

Step 1. Remove the traditional fluorescent tube from the lighting fixture.

Step 2. Take out the starter and inductor ballast from the lighting fixture and by-pass it as shown by the dotted line, OR replace the starter with a FUSE as shown by the solid line.

Step 3. Install LED tube light into lighting fixture.



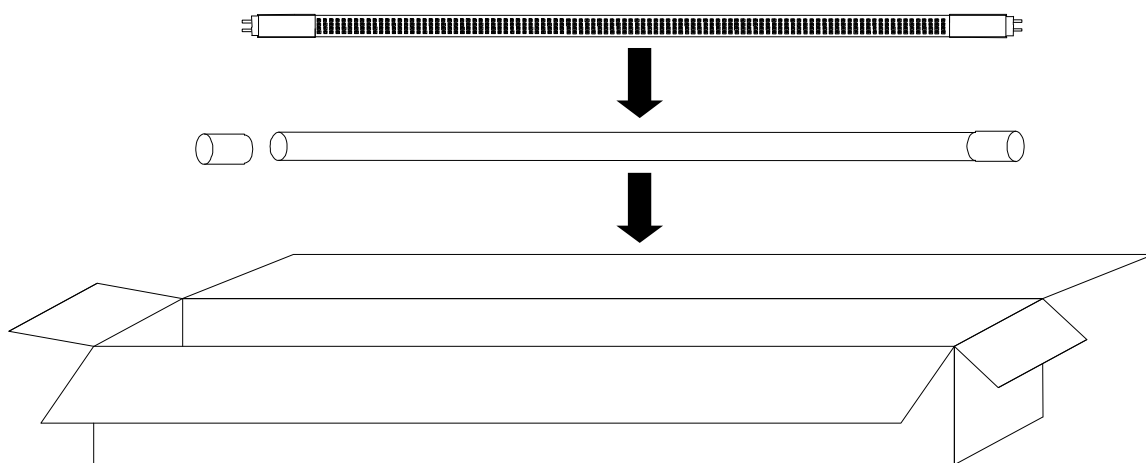
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SAFETY

1. **Always** consult a qualified, licensed electrician prior to the installation of this product.
2. **Always** ensure that all components are joined properly before they are installed.
3. LED tube and all of its components must not be subjected to mechanical stress.
4. If any doubt about the installation or use of this product, consult a competent electrician.
5. Don't use it if aluminum of the tube has any damage or distortion. Otherwise, the product or the installation might not be sufficiently safe!
6. 88Light T8 TUBE LAMPS FG Series, have 3 different options, one is **ONE SINGLE SIDE NON-BRIDGED** LED Tube, the other **ONE SINGLE SIDE BRIDGED** LED tube is the standard **TWO SIDE CONNECTION** LED Tube .please identify the connection type and side before starting the installation.
7. Switch off power of the mains supply or respectively of the connection lead before doing any works.
8. Assembly must not damage or destroy conducting paths.
9. Make sure that the product is mounted on a stable, even and tilt-fixed background.
10. Keep away from direct sunshine and high temperature.
11. LED products are continuously being improved upon in ever-shortening manufacturing cycles. LED color temperature (kelvin), lumen output, and product appearance can change from order to order. Please note that variation in color temperature (kelvin) is commonly +/- 250k and brightness (lumens) is +/- 10%.
12. Indoor use only.

PACKING:



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PACKING:

Product Name	Outer Carton Size (L×W×H)[cm]	Qty/Carton [pcs]	Gross Weight ⁴ [Kg]
88L-LT-9W-60T8-FG	65.5×22×23	25	6.6
88L-LT-13W-90T8-FG	95.5×22×23	25	10.5
88L-LT-18W-120T8-FG	125.5×22×23	25	12.6
88L-LT-22W-150T8-FG	155.5×22×23	25	15

Note4: The package information is only for reference.

OTHER 88Light PRODUCTS:

For more information about 88Light products, or to use our online energy saving calculation software please visit our website

www.88light.com

DISCLAIMER:

88Light reserves the right to modify the design of our products as part of the company's program of continuous improvement. 88Light cannot guarantee to match existing installed product for subsequent orders or replace the product exactly to match the product you are replacing in product appearance, color, or brightness. Specifications are subject to change without notice.