

# LED Tube



### Features

- Energy Saving
- High Efficacy
- Eco-friendly (No hazardous substances)
- Fully compatible with existing fluorescent lamp fittings

### Applications

- Offices, Educational facilities
- Retail, Parking lot lighting

### Replacements

- FL 20W → POSCO LED 12W
- FL 32 ~ 40W → POSCO LED 18/ 24W
- FL 110W → POSCO LED 48/ 60W



Save up to  
**57%**



## LED Tube

Trusted Professional in LED Lighting



Cost-efficiency



Eco-friendliness



Lightweight



Improved Productivity

### Energy Saving

Offers up to **50%** energy saving over existing fluorescent lamps

### Eco-friendly Lighting

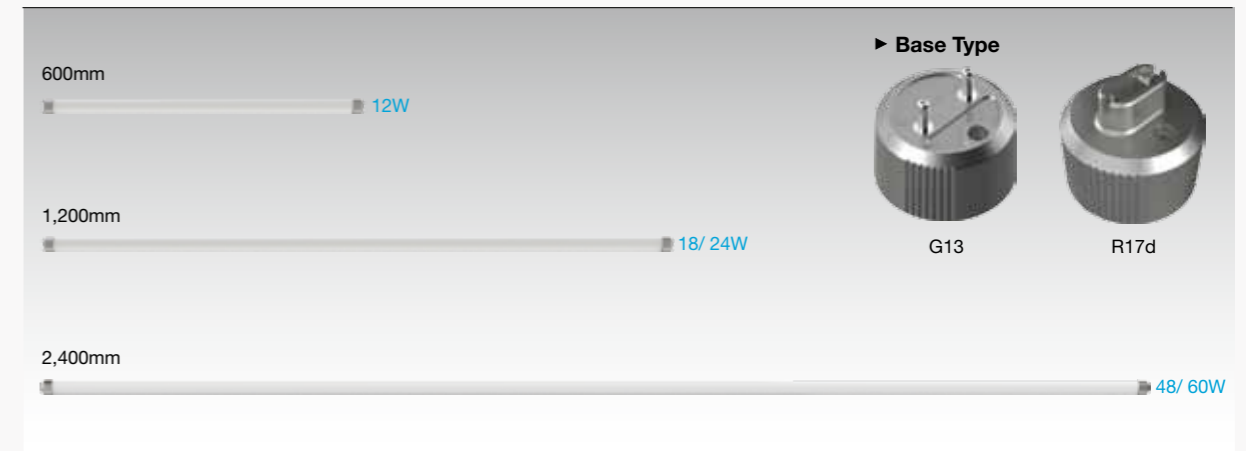
Reduces **50%** CO<sub>2</sub> Emissions compared to existing fluorescent lamps and contains no mercury.

### Long Lifetime

Long life up to **40,000** hours reduces maintenance costs by extending re-lamp cycle.

### Compatibility with Existing Lamp Fittings

Compatibility with existing fluorescent lamp fittings enables easy installation and reduces installation costs.



### Specifications

Product Code	Base	Watts (W)	Vin (V AC)	CCT (K)	CRI (Ra)	Lumens (lm)	Beam Angles (deg.)	Weight (g)	Dimensions (D)x(L)mm	Life time (hrs)
ITBUG13EN1ED0	G13	12	100 ~ 240	4,000	78 ↑	900	150	160	∅ 25.5 x 580	40,000
ITBUG13EN3ED0	G13	12	100 ~ 240	5,000	78 ↑	950	150	160	∅ 25.5 x 580	40,000
ITBUG26EN3EDA	G13	18	100 ~ 240	5,000	78 ↑	2,000	150	300	∅ 25.5 x 1,198	40,000
ITBUG26EN1ED0	G13	24	100 ~ 240	4,000	78 ↑	2,000	150	300	∅ 25.5 x 1,198	40,000
ITBUG26EN3ED0	G13	24	100 ~ 240	5,000	78 ↑	2,100	150	300	∅ 25.5 x 1,198	40,000
ITBVR50EN1ED0	R17d	48	100 ~ 240	4,000	78 ↑	4,100	150	700	∅ 29 x 2,368	40,000
		60	100 ~ 240	4,000	78 ↑	5,300	150	700	∅ 29 x 2,368	40,000
ITBVR50EN3ED0	R17d	48	100 ~ 240	5,000	78 ↑	4,400	150	700	∅ 29 x 2,368	40,000
		60	100 ~ 240	5,000	78 ↑	5,300	150	700	∅ 29 x 2,368	40,000

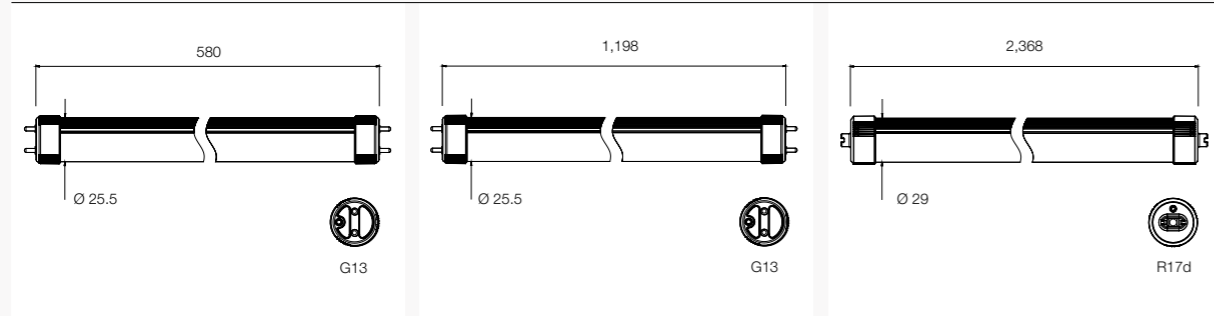
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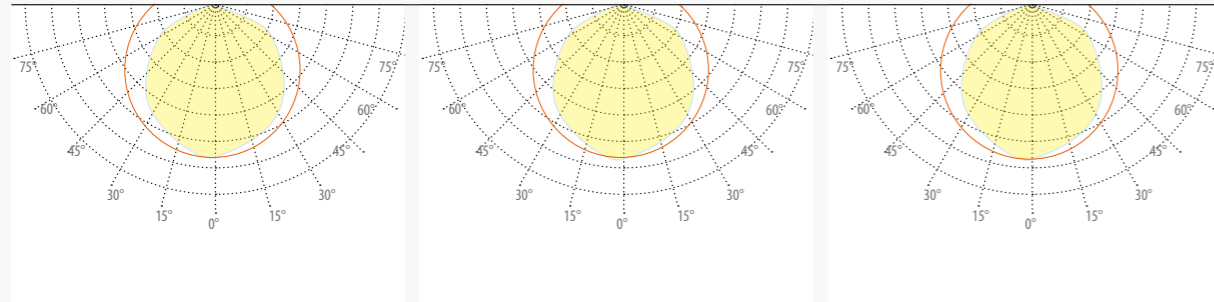
600mm 12W 1,200mm 18W 2,400mm 48W



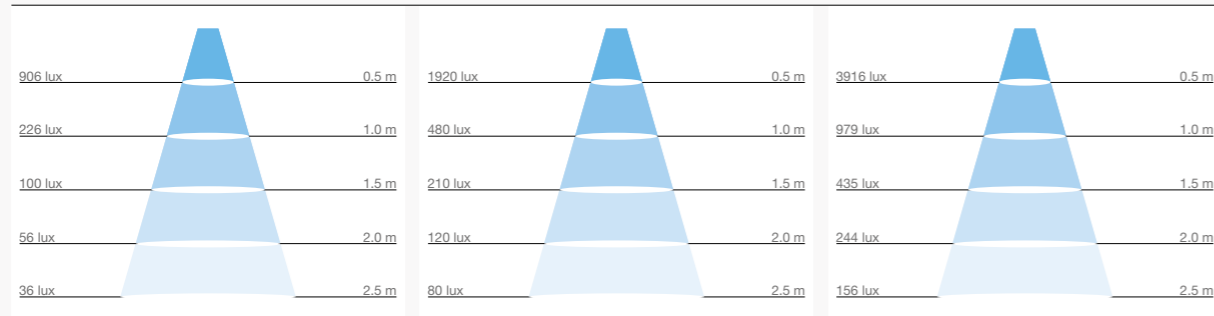
## Dimensional Drawing (mm)



## Light Distribution Curve



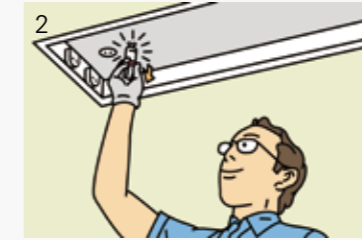
## Illuminance Chart



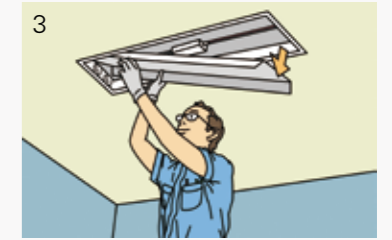
## LED Tube Installation Instructions



1 Detach existing fluorescent lamp. (Switch off the power before operation)



2 Remove the glow starter.



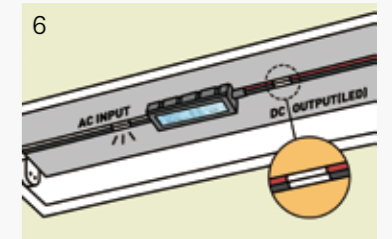
3 Dismantle lamp fixture to replace the ballast stabilizer.



4 Make sure the power is shut off to avoid electric shock, then cut the wires connected to the ballast.



5 Replace the removed ballast with the LED SMPS and connect the wires.



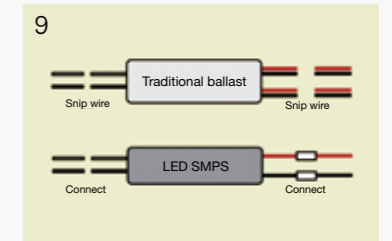
6 Make sure the wires has been connected firmly with crimp sleeves and fixed with binding bands to prevent fire.



7 Check if the LED SMPS has been connected correctly and reassemble the lamp fixture.



8 Attach the LED tube to the lamp fixture. LED tubes can be attached in either directions.



9 This is an example of a wire connection for LED SMPS: Connect wires with same color.

## CAUTIONS AND WARNINGS

- Disconnect power before installing, dismantling, or cleaning product. Risk of electrical shock.
- Do not drop, hit, scratch, or apply excessive force to this unit. Risk of injury.
- Observe lamp manufacturer's recommendations on lighting fixture type and wattage. Risk of overheating.
- Do not touch lamp with bare hands. Risk of burns.
- Do not expose the unit to water or moisture. Risk of electrical shock.
- Fully insert lamp into socket not to drop.
- Take away paper or cloth from lamp. Risk of fire.
- Avoid vibration or shock not to drop.
- Do not expose your eyes for too long to LED light. Risk of eyestrains or eye injuries.

## INSTALLATION GUIDE

- Before you install, read instructions completely and carefully.
- Make sure to remove the existing ballast or inverter.
- After changing the existing electrical connections into the ones for LED lights, do not install conventional fluorescent lamps or other LED tubes, except POSCO LED lamps.