

tubeBright™

L25i T5 LED Tubes

Ultra Thin, Ultra Bright!

lumenport™

Next generation solution to replace conventional fluorescent light. With a tube diameter of just 16mm (0.625 inch), they are special suitable for applications in low-profile fixtures, such as those used for cove lighting and illuminating display cases.

Compact Size

Compact size, with the same light output as comparable T8 lamps but up to 50 % smaller. They are rather suitable when using in confined space or rooms with lower ceilings. They distribute lumen output uniformly and achieve comfortable light effect.

High Reliability

tubeBright™ L25i are more reliable, as

- 1) they are made of high quality SMD LEDs, with low light decrease and good heat dissipation;
- 2) they are using specially designed aluminum housing with good heat dissipation, and have no heat buildup inside;
- 3) they are using specially designed loop circuit, one LED fail won't make the whole fluorescent light fail.

Higher Efficacy

tubeBright™ L25i are using high quality SMD LEDs, of high efficacy (typical 90lm/w).

They are well-suited for use anywhere, offices, galleries, shop windows, hotels, meeting rooms and especially low temperature areas, just like conventional fluorescent lights. Just choose tubeBright™ L25i for general illumination, task lighting, display lighting and back lighting.

CE Certified & UL Complied

tubeBright™ L25i are tested with listed standards and found in compliance with the council EMC directive 2004/108/EC and LVD directive 2006/95/EC.

The external power supplies used are CE and UL certified and class II listed, supplying 36VDC (max.), which complies to UL subjects 1598 & 8750.

Project Solutions



Recommended Applications

General illumination for homes, offices, restaurants, hotels, malls, buses, trains, warehouses, parking lots etc;

Task lighting for cabinets, cupboards etc in your homes, restaurants, and kitchens or any other places where accent lighting is required.

Retail display lighting for the articles in your stores and shops;

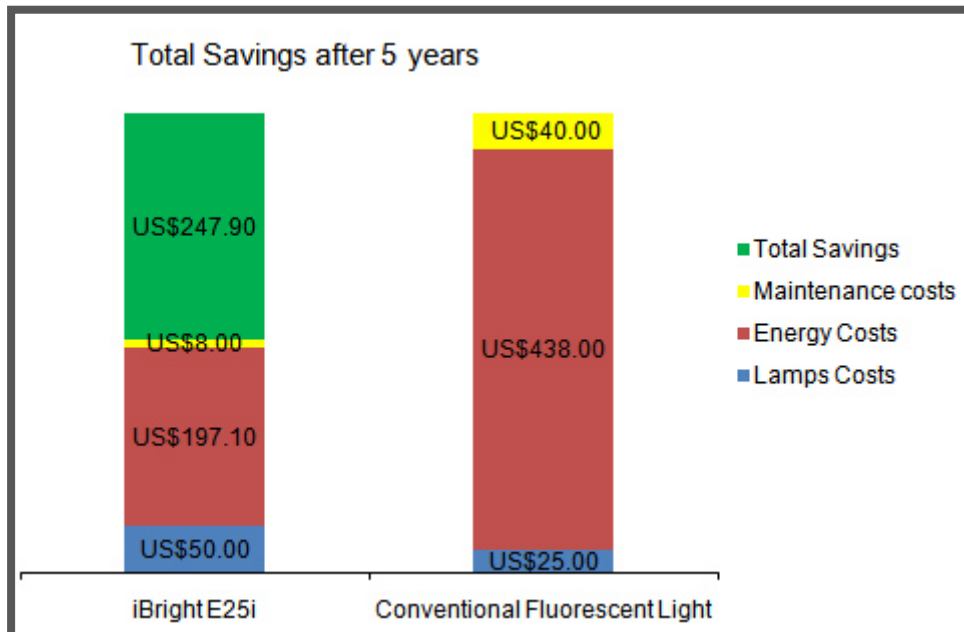
Back lighting for square billboards or advertisement boards.

	tubeBright L25i (1.2m)	Conventional Fluorescent Light
Lamp Power	18W	40W
Lamp Costs	US\$50	=5*5 =US\$25
Energy Costs for 5 years =Hours*Lamp Power*Electricity/1000	=5*365*24*18*0.25/1000 =US\$197.1	=5*365*24*40*0.25/1000 =US\$438.00
Maintenance costs	US\$8.00	US\$40.00 (change every year)
Total costs for 5 years	US\$255.1	US\$503
Total Savings		US\$247.9

*1. Base upon 24hrs per day, 365 days per year, US\$0.25/kWh for electricity.

2. Unit price for conventional fluorescent light is U\$5, change every year.

3. US\$8 per lamp change for maintenance costs.



Energy saving and low maintenance costs

tubeBright™ L25i lowers running costs and eliminates the hassle of repeated relamping in busy areas like offices, factories and supermarkets. The energy-efficient tubeBright™ L25i keeps on burning for up to 50,000 hours significantly reducing the time spent on replacing defective lamps.

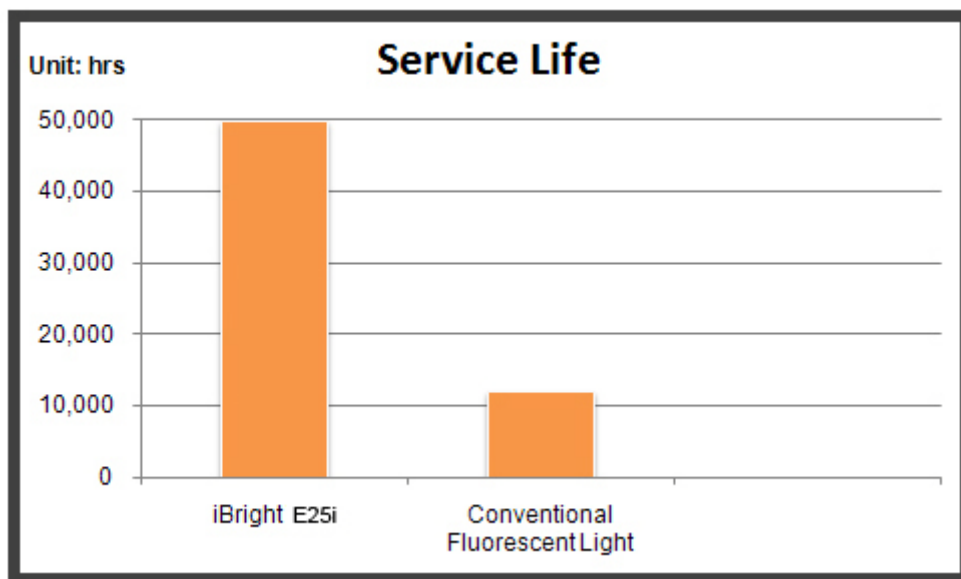
Energy prices are rising, and lighting accounts for more than 25% of a supermarket's energy bill.

tubeBright™ L25i enables energy savings of up to 80% while maintaining the same light level.

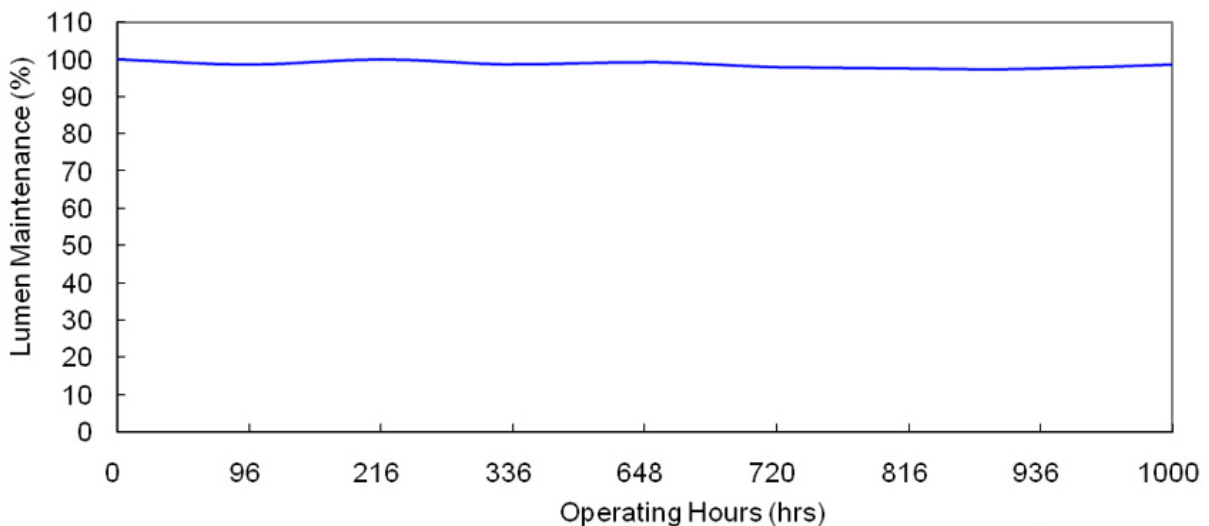
Up to 50,000 hours useful life

With high quality LEDs, patent pending electrical, optical and thermal design, the junction temperature is kept at lower than 80°C (176°F). This critical term ensures tubeBright™ L25i very good quality and stable performance.

tubeBright™ L25i useful life is rated at 50,000 hours (typical), lumen maintenance over 50%, which conforms with standards developed by DOE (U.S. Department of Energy). In comparison, conventional fluorescent light can work for only 9,000~15,000 hours.



Lumen Maintenance: iBright™ E25i



* This lumen maintenance test was measured by Lux at 1m,

Test Conditions:

$T_A = 25^\circ\text{C}$

RH=50%

Eco-friendly, absolutely green

Adopting solid state lighting technology, tubeBright™ L25i is a green product, and safe to environment.

	tubeBright™ L25i (1.2m)	Conventional Fluorescent Lights
Power consumption	18W	40W
Life span	50,000 hours	9,000~15,000 hours
Radiation	RoHS compliant	UV, IR, ,
Toxicant	RoHS compliant	Toxic phosphor powders, Mercury (Hg), Lead (Pb)
CO ₂ emission	Low	High
Heat damage	No	High
Fragile	Durable, Aluminum Housing and PC Cover	Fragile Glass
Burn out failure	No	Yes
Flicker	Never	Frequently
Light wasted on reflector	No	High
Buzzing	No	Yes
EMI emissions	No, friendly to electronic equipment	Yes, harmful to electronic equipment
Recyclable	Yes	No
Low temperature working environment	Compatible	Incompatible
Ballast needed	No	Yes
Starter needed	No	Yes
Maintenance Fee	Low	High

Part Numbers

Part Number	Description	Unit
LFL-5030N-060601-L3	T5, Natural White, 30LEDs, 0.6m, Max.36VDC, 120 degree, SMD LED, Dotted Lens, EPS	pcs
LFL-5060N-120601-L3	T5, Natural White, 60LEDs, 1.2m, Max.36VDC, 120 degree, SMD LED, Dotted Lens, EPS	pcs
LFL-5081N-060601-L3	T5, Natural White, 81LEDs,1.5m, Max.36VDC, 120 degree, SMD LED, Dotted Lens, EPS	pcs

Technical Specifications

Physical Specifications

	LFL-5030N-060601-L3	LFL-5060N-120601-L3	LFL-5081N-060601-L3
Dimension	600 mm (1.96 ft)	1200 mm (3.93 ft)	1500 mm (4.92 ft)
Weight	141.5g	278g	358.5g
Housing	Aluminum		
Cover	PC		
Tube Diameter	T5		
Base Type	G5		
Work Environment	Indoor use (applicable for dry environment)		

Electrical Specifications

	LFL-5030N-060601-L3	LFL-5060N-120601-L3	LFL-5081N-060601-L3
LED Quantity	30 LEDs	60 LEDs	81 LEDs
Power Consumption	11W±2W	20W±2W	30W±2W
Input Voltage	Max.36VDC (Input Voltage of External Power Supply: 100~277VAC)		
Power Factor	>0.95		
Lighting Source	SMD LEDs		
Operation Temperature	-20~40°C (-4~104°F)		

Optical Specifications

	LFL-5030N-060601-L3	LFL-5060N-120601-L3	LFL-5081N-060601-L3
Lumens	650~680 lm	1200~1300 lm	1700~1800 lm
Color Range	White		
Color Temperature	6000~6500K		
CRI	>75		
Beam Angle	120°		
Lumen Maintenance	>98%@1,000hrs		

Matching External Power Supply

tubeBright™ L25i EPS	Matching External Power Supply
LFL-5030N-060601-L3	HPS-FL270-360000-00 (Output: 270mA, Max.36VDC)
LFL-5060N-120601-L3	HPS-FL540-360000-00 (Output: 540mA, Max.36VDC)
LFL-5081N-150601-L3	HPS-FL810-360000-00 (Output: 810mA, Max.36VDC)