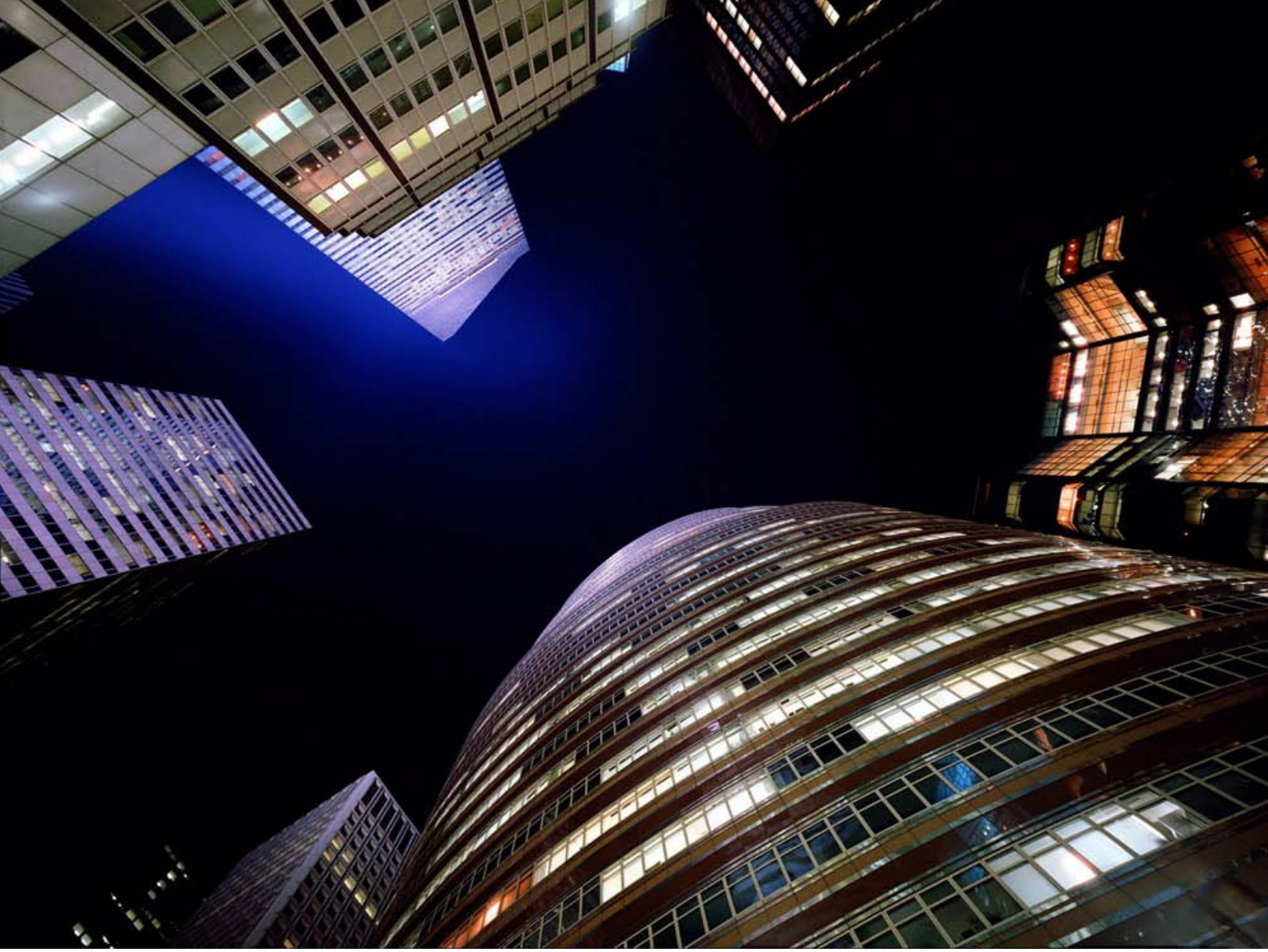


lumenport™

CLASSIFIED c UL us E329832

RoHS

For indoor general illumination replacing

conventional fluorescent

Introduction

lumenport™

LUMENPORT Electronics® tubeBright™ L38i T8 LED Tube is the next generation solution to replace conventional fluorescent light. They feature higher reliability, easier retrofit and higher efficacy.

● Higher Reliability

tubeBright™ L38i 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; and 3) they are using specially designed loop circuit, one LED fail won't make the whole fluorescent light fail.

● Easier Retrofit

tubeBright™ L38i can directly be placed into any existing T8 socket. Just remove starter and disconnect the ballast in the fixture.

● Higher Efficacy

tubeBright™ L38i 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™ L38i for general illumination, task lighting, display lighting and back lighting.

High Efficacy Imported SMD LED

C-UL US certified

50000 hours service life or 10 years (8-10 hours per day)

Available length: 60cm, 120cm, 150cm

Special designed loop circuit

Patented product

Just remove starter to retrofit

RoHS compliant

Durable extruded anodized aluminum housing
provides efficient heat dissipation

G13 Lamp Base

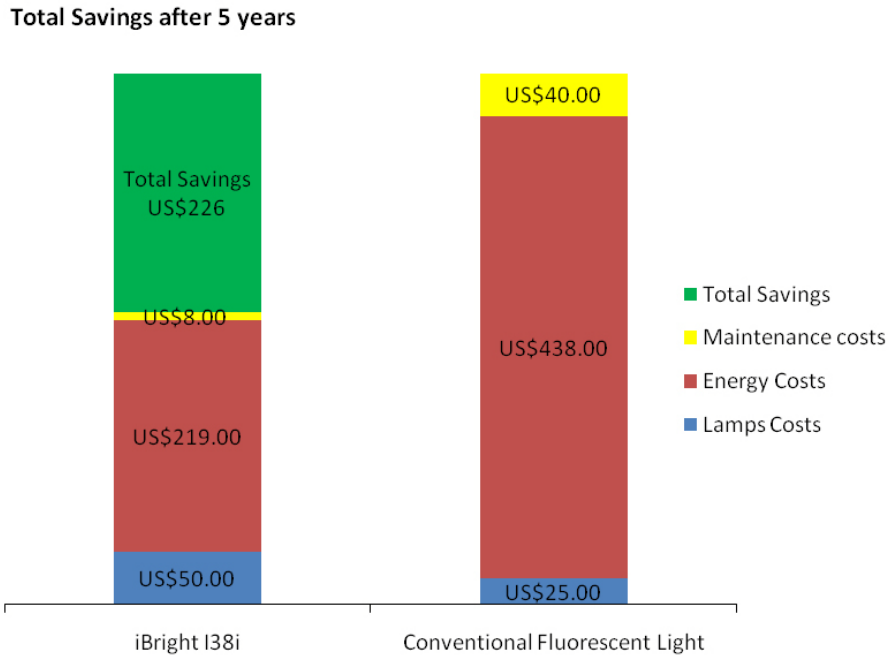
Benefits

	tubeBright L38i (1.2m)	Conventional Fluorescent Light
Lamp Power	20W	40W
Lamp Costs	US$50	=5*5 =US$25
Energy Costs for 5 years =Hours*Lamp Power*Electricity/1000	=5*365*24*20*0.25/1000 =US$219	=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$277	US$503
Total Savings	**US$226**	

*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

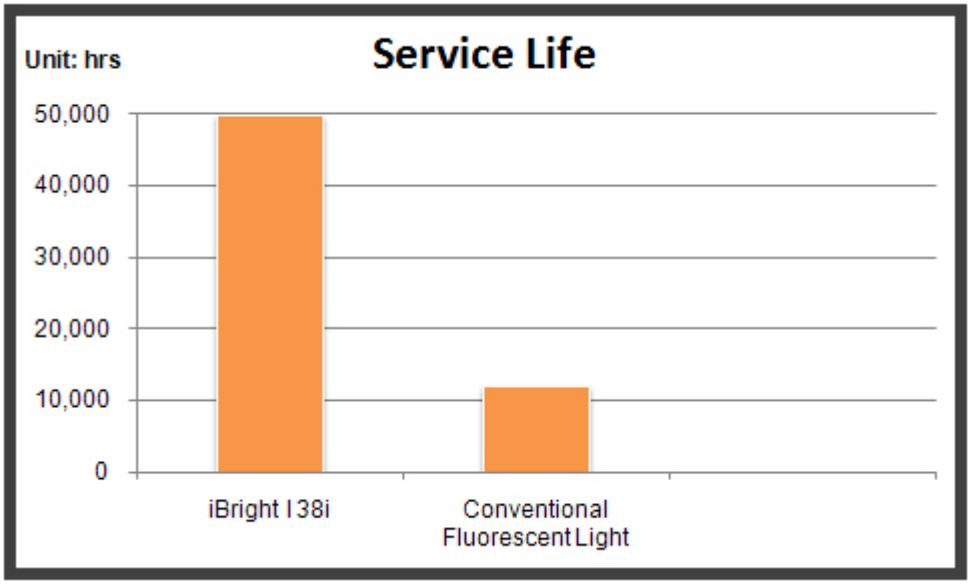
tubeBright™ I38i lowers running costs and eliminates the hassle of repeated relamping in busy areas like offices, factories and supermarkets. The energy-efficient tubeBright™ I38i keeps on burning for up to 50,000 hours significantly reducing the time spent on replacing defective lamps.

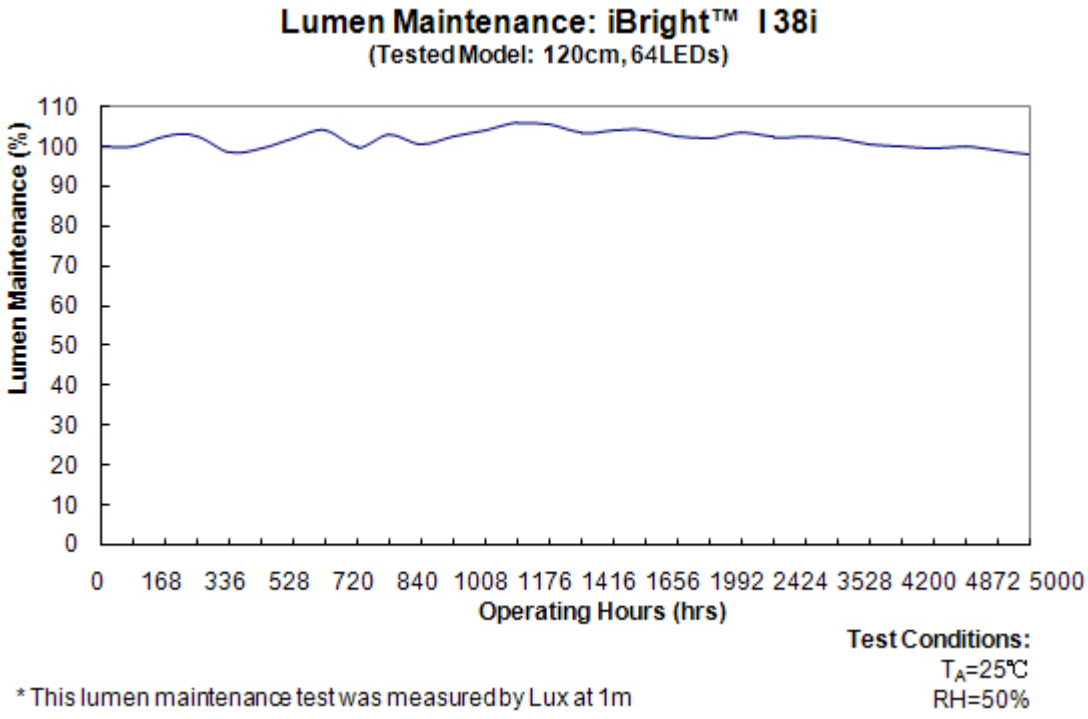
Energy prices are rising, and lighting accounts for more than 25% of a supermarket's energy bill. tubeBright™ I38i enables energy savings of up to 80% while maintaining the same light level.

Up to 50,000 hours useful life

With high quality SMD LEDs, patent pending electrical, optical and thermal design, the junction temperature is kept at lower than 80℃（176℉）. This critical term ensurestubeBright™ I38i very good quality and stable performance.

tubeBright™ I38i 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.





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

Eco-friendly, absolutely green

Adopting solid state lighting technology, tubeBright™ L38i is a green product, and safe to environment.

	tubeBright™ L38i (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

Sample Projects

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.

Certificates

Conforms to the following standards:

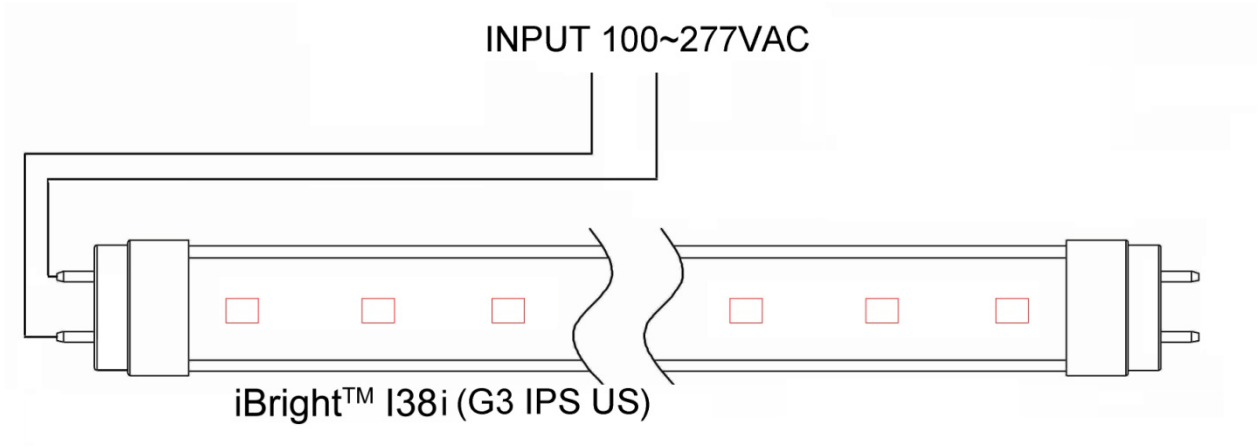
UL certificates:

E329832

Limited Warranty

Two-year Limited Warranty. For more details, please refer to www.Lumenport.com

Wiring Diagram



Ordering Information

Part Number	Description	Unit
HFL-8030N-06060U-H0	G3 IPS US, T8, Natural White, 32LEDs, 0.6m, 100~277VAC, 120 degree, SMD LED, Dotted Lens	pcs
HFL-8060N-12060U-H0	G3 IPS US, T8, Natural White, 64LEDs, 1.2m, 100~277VAC, 120 degree, SMD LED, Dotted Lens	pcs
HFL-8080N-15060U-H0	G3 IPS US, T8, Natural White, 80LEDs, 1.5m, 100~277VAC, 120 degree, SMD LED, Dotted Lens	pcs

Mechanical Specifications

Length	600 mm (1.96 ft)	1200 mm (3.93 ft)	1500 mm (4.92 ft)
Weight	307g	559.5g	687.5g
Housing	Aluminum		
Cover	PC		
Tube Diameter	T10		
Base Type	G13		
Work Environment	Indoor use (applicable for dry environment)		

Electrical Specifications

	600 mm (1.96 ft)	1200 mm (3.93 ft)	1500 mm (4.92 ft)
LED Quantity	32LEDs	64LEDs	80LEDs
Power Consumption	10W±2W	20W±2W	27W±2W
Input Voltage	100~277VAC		
Power Factor	>0.95		
Lighting Source	SMD LEDs		
Operation Temperature	-20~40℃ (-4~104℉)		

Optical Specifications

	600 mm (1.96 ft)	1200 mm (3.93 ft)	1500 mm (4.92 ft)
Lumens	650~680 lm	1200~1400 lm	1700~1800 lm
Color Range	White		
Color Temperature	6000~6500K		
CRI	>75		
Beam Angle	120°		
Lumen Maintenance	>98%@1,000hrs		