



GLOCALITE® RETROFITTING

T5 Retrofit & T5 Fluorescent lamp

GLOCAL
International Ltd.



Glocal International Ltd. introduces the new generation of T5 lighting retrofitting to reduce energy consumption and meet the environmental target in the lighting industry. Glocal is pleased to offer the Glocalite® T5 retrofit and the latest T5 technology fluorescent lamp.

Glocalite® T5 retrofit performs an easy and inexpensive conversion of your conventional T8 or T12 luminaires without altering the existing fitting or rewiring, achieving energy saving up to 52% for our T5 series, improving illumination, longer maintenance intervals, reducing the carbon footprint and quick return of investment as the turnkey solution.

Glocalite® T5 fluorescent lamp includes T5 Standard, HE and HO version. Our tri-phosphor and nanotechnology provides high performance, energy-efficient, long life and eco-friendly.

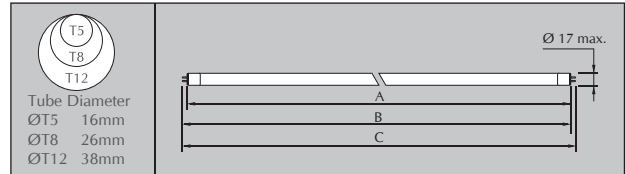
Ideal for offices, shops, schools, hotels, parking lots and industries.

Smart and Green



Glocalite® T5 Fluorescent lamps include Standard, High Efficacy (HE), and High Output (HO). The lamps are designed for the highest efficacy long life, environment friendliness and system miniaturization which translates to reduced maintenance and disposal costs.

The latest technologies have been incorporated in HE and HO. The nanotechnology and tri-phosphor layer in combination with pre-coating and lamp load add up to a high efficacy, good color rendering (Ra>85), providing natural lighting color and a virtually constant lumen level during lamp life¹ which guarantees the customers 30,000hrs² average rated life, which tallies with ROHS requirements perfectly.



Dimensions in mm				
Type	A	B	B	C
	max.	min.	max.	max.
T5/14W	549.0	553.7	556.1	563.2
T5/21W	849.0	853.7	856.1	863.2
T5/28W	1149.0	1153.7	1156.1	1163.2
T5/35W	1449.0	1453.7	1456.1	1463.2

Note: The circumscription (inclusive the warp) of the lamps is 17 mm

Glocalite® T5 HE Fluorescent lamps offer an extremely high luminous efficacy of up to 105 lm/W at an ambient temperature of 35°C and consistent lumen output over life cycle coupled with excellent lumen maintenance.

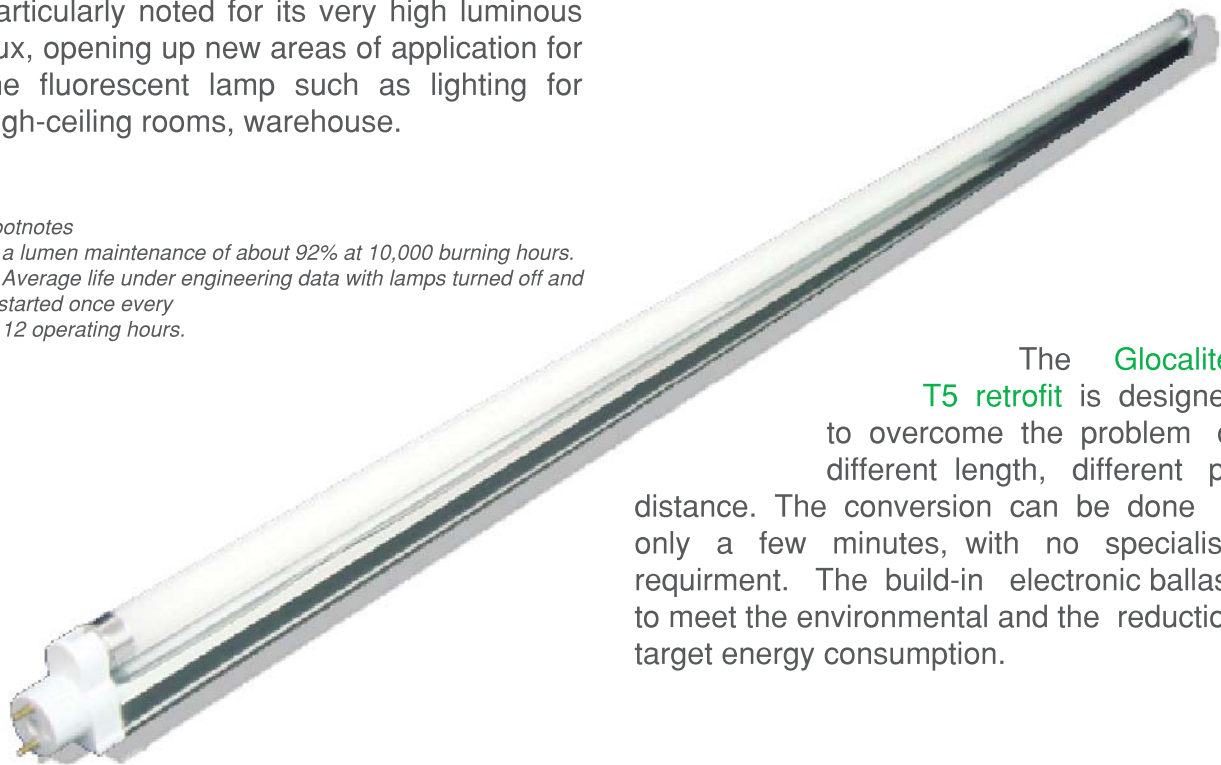
Glocalite® T5 HO Fluorescent lamps are particularly noted for its very high luminous flux, opening up new areas of application for the fluorescent lamp such as lighting for high-ceiling rooms, warehouse.

Footnotes

1. a lumen maintenance of about 92% at 10,000 burning hours.
2. Average life under engineering data with lamps turned off and restarted once every 12 operating hours.

Glocalite® T5 retrofit

The T5 fluorescent lamps are shorter in length than standard T8 lamp and requires an electronic ballast with pre-heat function to start and to operate it.



The Glocalite® T5 retrofit is designed to overcome the problem of different length, different pin distance. The conversion can be done in only a few minutes, with no specialists requirement. The build-in electronic ballast to meet the environmental and the reduction target energy consumption.

Glocalite® T5 Retrofit

Features

Glocalite® T5 retrofit adapts the latest T5 electronic ballast and T5 florescent lamp technology. The advantages are immediate: much lower energy consumption, improved illumination, longer maintenance intervals - resulting in significant economic savings!

Features

Plug-n-Save

Instant installation, no initial investment for new lighting fixture, no wiring work, and no specialists required. Simply remove the starter, and plug our Glocalite® T5 retrofit to save your electricity immediately.



Optional Reflector

- Aluminium Reflector for wide angle reflection
- Extra brightness

Cost Efficiency

- Minimal Installation Fee, no specialists, no rewiring.
- Obviously low maintenance costs through long lamp and retrofit lifespan.
- Energy saving up to 52%
- Short Payback Period (less than 12 months will be achieved for 12 hours per day user)

Long Retrofit Lifespan

- Increases the retrofit lifespan due to the elimination of heat generation.

Long Lamp Lifespan

- T5 Standard lamps are rated at 15,000 hours with only 8 - 15% lumen loss in the first 10,000 hours.

Energy Saving



**Glocalite®
2 Year Warranty**
All Glocalite® units are backed by a no-hassle full replacement warranty against manufacturing fault or failure in operation during the first two years of use.



Better Ballast Quality

- High Power Factor (0.9 ~ 0.995)
- Low Total Harmonic Distortion (< 10%)

Better Light Quality

- Flicker-free illumination (35kHz) and silent operation.
- Color Rendering (Ra) is greater than 85.
- Optimized illumination of the workplace enhances the effectiveness & productivity of your workforce.

Eco Friendly

- T5 tubes contain 38% less glass and phosphorous than T12 tubes and contain only 5mg of mercury.
- No ray-emission through minimization of the electromagnetic discharge.
- Low energy consumption and optimized efficiency lead to less strain on energy resources and a reduction in CO2, SO2 and NO2.

T8 / T12 Fitting	Power Rating of T8 lamp & fixture		Power Rating of Glocalite® T5 retrofit			Power Input Difference	\$
Length	Lamp Rating	Input Power*	Model no.	Lamp Rating	Input Power	Power saved	Saving rate
2 feet (600mm)	18W	24W	T5R-14W	14W	16W	8W	33%
3 feet (900mm)	30W	40W	T5R-21W	21W	23W	17W	43%
4 feet (1200mm)	36W	48W	T5R-28W	28W	30W	18W	38%
5 feet (1500mm)	58W	77W	T5R-35W	35W	37W	40W	52%

Note: Input Power depends on the quality of conventional ballast

Quick Payback!! High Quality!! Eco Friendly!! = BIG SAVING!!

Case Study

The retrofit office and warehouse buildings are located in Gardena, CA with a total of 1,500 luminaires, using conventional 36W T8 fluorescent lamps and electromagnetic ballast which consume 12W. The buildings are 12-hour operated and 300 days per year where electricity cost per unit (kWh) is \$0.15. The retrofitting is done by Glocalite® T5 28W retrofit.



Original T8 Fixtures

$$\begin{aligned} \text{Energy consumed per year} &= 1,500 \times 48\text{W} \times 12\text{hr} \times 300 \\ &= 259,200\text{kWh} \end{aligned}$$

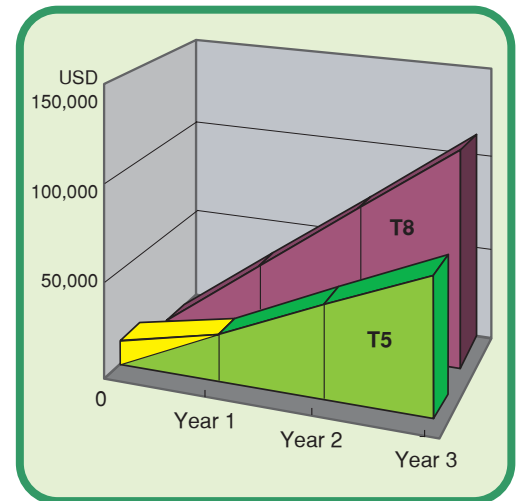
$$\begin{aligned} \text{Cost of electricity per year} &= 259,200 \times 0.15 \\ &= \mathbf{\$38,880} \end{aligned}$$

Glocalite® T5 Retrofit

$$\begin{aligned} \text{Energy consumed per year} &= 1,500 \times 30\text{W} \times 12\text{hr} \times 300 \\ &= 162,000\text{kWh} \end{aligned}$$

$$\begin{aligned} \text{Cost of electricity per year} &= 162,000 \times 0.15 \\ &= \mathbf{\$24,300} \end{aligned}$$

AMOUNT SAVED ANNUAL = \$14,580 (↓38%)



■ Glocalite® T5 Retrofit ■ T8
■ Investment of Glocalite Retrofit

PAYBACK PERIOD WITHIN 1 YEAR!

Model No.	Rated Power (W)	Input Voltage (V)	Application Voltage (V)	Electric Current (mA)	Startup Time (s)	Power Factor*	THD	Lifespan (Hrs)
T5R-14W-120	14	110 - 130	78 - 156	140	<1	0.9 or 0.995	<10%	32,000
T5R-21W-120	21	110 - 130	78 - 156	210	<1	0.9 or 0.995	<10%	32,000
T5R-28W-120	28	110 - 130	78 - 156	255	<1	0.9 or 0.995	<10%	32,000
T5R-35W-120	35	110 - 130	78 - 156	320	<1	0.9 or 0.995	<10%	32,000
T5R-24W-120	24	110 - 130	78 - 156	200	<1	0.9 or 0.995	<10%	32,000
T5R-39W-120	39	110 - 130	78 - 156	320	<1	0.9 or 0.995	<10%	32,000
T5R-49W-120	49	110 - 130	78 - 156	380	<1	0.9 or 0.995	<10%	32,000
T5R-54W-120	54	110 - 130	78 - 156	420	<1	0.9 or 0.995	<10%	32,000
T5R-80W-120	80	110 - 130	78 - 156	620	<1	0.9 or 0.995	<10%	32,000
T5R-14W-230	14	220 - 240	170 - 264	65	<1	0.9 or 0.995	<10%	32,000
T5R-21W-230	21	220 - 240	170 - 264	100	<1	0.9 or 0.995	<10%	32,000
T5R-28W-230	28	220 - 240	170 - 264	130	<1	0.9 or 0.995	<10%	32,000
T5R-35W-230	35	220 - 240	170 - 264	150	<1	0.9 or 0.995	<10%	32,000
T5R-24W-230	24	220 - 240	170 - 264	105	<1	0.9 or 0.995	<10%	32,000
T5R-39W-230	39	220 - 240	170 - 264	170	<1	0.9 or 0.995	<10%	32,000
T5R-49W-230	49	220 - 240	170 - 264	205	<1	0.9 or 0.995	<10%	32,000
T5R-54W-230	54	220 - 240	170 - 264	225	<1	0.9 or 0.995	<10%	32,000
T5R-80W-230	80	220 - 240	170 - 264	335	<1	0.9 or 0.995	<10%	32,000

Note: Power Factor for cUL or Standard mode is 0.9, Advanced mode is 0.995

Smart and Green, Contact Us Today!



GLOCAL INTERNATIONAL LTD.

HONG KONG

Unit 2, 18/F, Blk C
Superluck Ind. Centre (Ph.2)
57 Sha Tsui Rd, Tsuen Wan, Hong Kong
T: +852 3176 3868
F: +852 3177 0389

UK

29 Warren Court
Manor Road
Chigwell, IG7 5EW, UK
T: +44 (0) 208 500 8038
F: +44 (0) 208 588 3788

Email: info@glocalite.com

www.glocalite.com

2009 Glocal International Ltd. All rights reserved.