

SOLARISE SF T5 Efficient Fluorescent Retro-Fit Kits



- * Effectively and efficiently upgrade **existing** fluorescent light tubes (2ft, 4ft, 5ft)
 - o No need to replace existing fittings
 - o Simple installation and replacement
- * Traditional T8 fluorescent tubes operate at dramatically reduced efficiencies with prolonged operation, decreasing up to 50-60% efficiency after just a couple of hours, and producing a significant amount of heat (wasted energy). T5 technology maintains efficiency levels above 98%- no matter the hours of operation. (Power factor >0.98)
- * Higher quality lighting:
 - o Lower power rating, but uncompromising in brightness
 - o Zero flicker and silent operation
- * Available in different colour temperatures: Warm White (2700K), Cool White (4000K) and Daylight (6500K)
- * Environmentally friendly
 - o Much lower mercury content than traditional T8 tubes
 - o Lower power consumption
 - o Much longer useful lifespan
 - T8: 5000 hours
 - **T5: 15000 hours (T5 Electronic ballasts: 30, 000 hours)**
 - o Leaves a much lower carbon footprint
- * **SABS Approved Product. Valid LoA.**
 - o 2 year warranty on T5 electronic ballasts

Traditional T8 VS. T5 Retrofit Technology		
	T8 With Electromagnetic Ballast	T5 With Electronic T5 Adapter
Power Consumption	High operating temperatures = wasted energy	Lower operating temperatures = less energy waste
	High power consumption and low relative light/lumen output.	Low power consumption, and much higher light/lumen output
Efficiency	Power Factor of > 0.45	Power Factor of > 0.98
	Very high starting current draw	Low/stable current draw
Lifespan	Average lifespan of 5-8000 hours	Average lifespan of 15000+ hours
Installation / Replacement	Complete fitting replacement requires significant time and costs	Retrofit kit designed for ease of installation- plug and play.
		No need to replace existing fittings
Flicker / Noise	High visible flicker- damaging to eyes	Zero flicker
	Ballast noise	Silent operation
Light Quality	Lower lux levels	10% higher lux levels
	Rendering Index of > 65. Dramatically reduced colour quality of lit objects.	Rendering Index of >80. Lit objects retain near natural colours.
Pollution	More toxic materials (such as mercury) used in manufacturing	Much lower toxic materials used in manufacturing
	Higher power consumption = higher carbon emissions	Up to 50% lower overall power consumption
Costs	High operating costs	Up to 50% lower operating costs
		Very rapid payback on investment

SOLARISE SF T5 Tube Specifications								
Length	Diameter (mm)	Rated Power	Replaces (T8)	Available Colours	Colour Temp	Lumen	Colour Rendering Index	Lifespan
2ft (549mm)	16	14W	18W	Warm White	2700K	1270	82	15000 Hours
				Cool White	4000K	1240		
				True White	6500K	1100		
4ft (1149mm)	16	28W	36W	Warm White	2700K	2760	82	15000 Hours
				Cool White	4000K	2700		
				True White	6500K	2550		
5ft (1449mm)	16	35W	58W	Warm White	2700K	3500	82	15000 Hours
				Cool White	4000K	3400		
				True White	6500K	3300		