

defining fluorescent lamp life

Lamp Life

The rated life of a lamp is given by manufacturers based upon IEC test criteria. In this way, comparisons can be made between light sources and between manufacturers. It is expressed in terms of the average number of hours operation until failure.

By giving the option to specify standard or long life lamps, Whitecroft Lighting recognise the benefits to the life cycle costs of an installation.

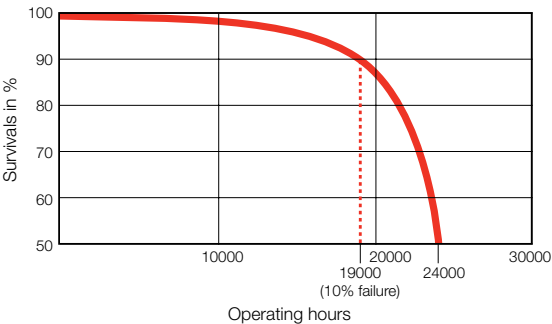
There have been significant developments in long life fluorescent lamps. Where currently available, a full range of long life lamps are listed on the following pages

A summary of typical fluorescent lamp life shows the potential to extend the time between planned maintenance cycles

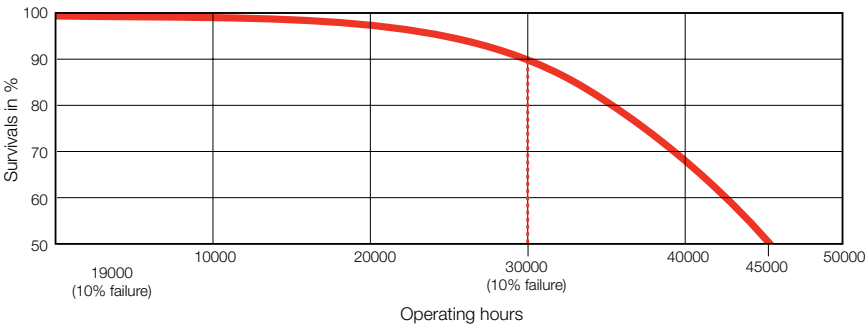
Typical Lamp Life Life

Lamp Type	Standard (hrs)	Long Life (hrs)
TC-D	13,000	33,000
TC-L	20,000	36,000
T8	20,000	55,000
T5	24,000	45,000

The life expectancy graphs show the potential extended life when selecting T5 lamps:



Life expectancy (IEC 60901) – Standard Lamps (T5)



Life expectancy (IEC 60901) – Long Life Lamps (T5)

Using occupancy and usage figures, a comparison can be made in the following installations. It can be seen that by installing long life lamps maintenance cycles can be drastically reduced.

Typically these are:

Location	Yearly Usage	Planned Maintenance Cycle (Based on 10% failure)	
		Standard Lamp	Long Life Lamp
Office	3000 hrs	6 yrs	10 yrs
Education	2000 hrs	9 yrs	15 yrs
Healthcare	7000 hrs	2 yrs	4 yrs
Retail	5000 hrs	3 yrs	6 yrs