

**LONG LIFE LIGHTS** The Long Life Lights concept comprises light sources with extra long service life. The concept is the result of innovative product development and rigorous quality control. For our customers, the unique service life means that light sources do not need to be changed so often, which reduces their maintenance costs. The products in the concept are therefore an investment for our customers and for the environment. Products such as fluorescent tubes and light bulbs are developed, manufactured and sold within the framework of the Long Life Lights concept.

# Aura *ULTIMATE*

LONG LIFE

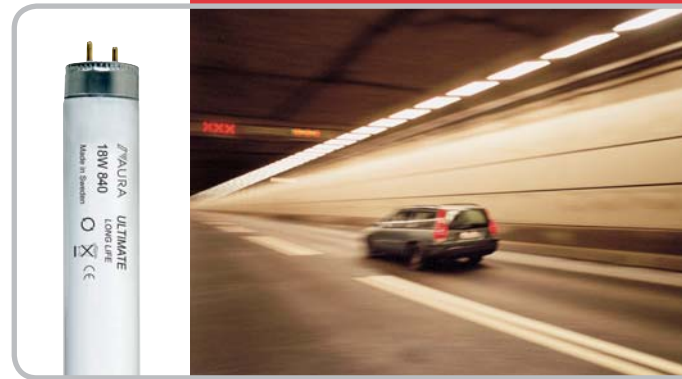
## the ultimate lighting solution

Aura *ULTIMATE* Long Life fluorescent lamp is the result of intensive research and continuous development efforts. Aura *ULTIMATE* is a tri-phosphor lamp with the worlds longest service life and an extremely low lamp failure rate. This unique T8 lamp sets the standard for products with an extended lifetime.

Aura *ULTIMATE* has a service life of 48.000 hours when operated with magnetic ballast with starter and 70.000 hours when operated with electronic ballast.

Aura *ULTIMATE* gives you the lowest possible operating costs for your lighting installation. It enables you to make big savings in areas with high ceilings or difficult access to luminaires, or where a production stop to replace lamps is expensive. Aura *ULTIMATE* gives you better control of your replacement costs and makes it easier to schedule lamp group replacement.

Aura *ULTIMATE* is developed based on our patented cathode shield construction. This design provides a unique fluorescent lamp with an exceptional long service life combined with an improved end-of-life protection against overheating.



**Production Areas**

**Warehouses**

**Airports**

**Sign Lighting**

**Tunnel Lighting**

**Street Lighting**

## Applications

Wherever a Long Life solution is an advantage, especially in environments with high ceilings, hard to reach luminaires or cost intensive replacement areas.

Aura *ULTIMATE* is available in several versions – all with the same cost-effective burning time. In close partnership with customers in various sectors, we have designed special versions for different applications – e.g. signage and cold, dirty or sensitive environments.

## Specifications

Aura *ULTIMATE* has the same characteristics for electrical operation and light technical data compared to other T8 (26 mm) fluorescent lamps. It fits in all luminaires developed and installed for T8 lamps. The *ULTIMATE* range is designed for operation with electronic ballast (preferably warm start) and magnetic ballast with starter.

Aura *ULTIMATE* is a high colour rendering tri-phosphor lamp (Ra 85) and is available in several different colours to suit every situation.



Cost-effective lighting is important in all production facilities, where ceilings are high and it is expensive to stop production. That is why Tetra Pak Produktions GmbH in Berlin use Aura Long Life lamps.



Clear Channel has 25.000 outdoor advertising displays all over Sweden, illuminated by Aura Long Life fluorescent lamps.



Cerealia make sure of the highest quality in production by using safe and economical Aura *ULTIMATE PROTECTOR* in their premises.

## Lifetime

Service life is reached when the amount of light in an installation falls to 80% of the initial 100-hour value. Service life of the lamp failure rate and the lumen depreciation is calculated based on a 3-hour operation switching cycle according to IEC/EN 60081.

In installations where lamp replacement is difficult and cost intensive, the long running time of Aura Long Life lamps gives more cost effective lighting maintenance and improved long term planning for group replacement. Group replacement of fluorescent lamps provides an optimal control of the operational costs and a uniform level of light.

For economical and environmental reasons Aura recommends group replacement of Long Life fluorescent lamps.

## Long Life Guarantee

The Aura Long Life fluorescent lamps are developed and manufactured in accordance with the IEC/EN60081 standard. Continuous strict quality control processes secure fluorescent lamps of top quality.

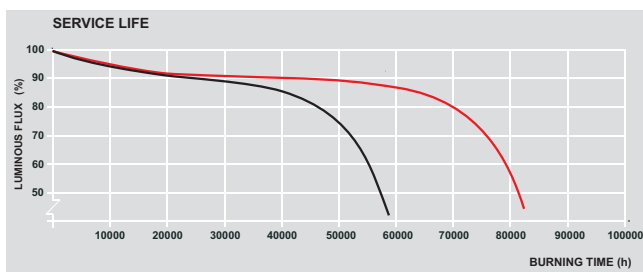
Aura guarantees the published service life of the Long Life fluorescent lamps for installations that comply with the relevant standards.

	SWITCHING CYCLE	MAGNETIC BALLAST + STARTER	ELECTRONIC BALLAST (WARM START)
<b>L I F E T I M E</b>	<b>3 h (Service Life)</b> 80% light available	<b>48.000 h</b>	<b>70.000 h</b>
	<b>12 h</b> 10% mortality rate	<b>60.000 h</b>	<b>80.000 h</b>
	<b>One single start</b>	<b>65.000 h</b>	<b>84.000 h</b>

### SERVICE LIFE AURA ULTIMATE

- 3 h-switching cycle (2 h 45 min. on, 15 min. off)

OPERATING CIRCUIT: — ELECTRONIC BALLAST (WARM START)  
— MAGNETIC BALLAST + STARTER

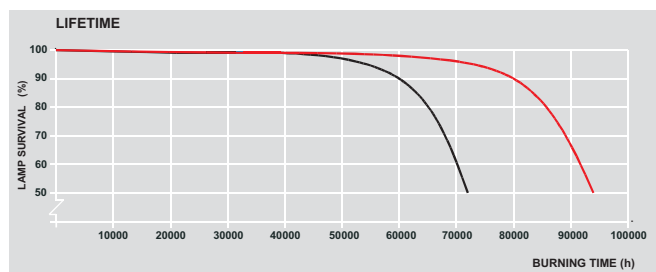


Service life is based on the standard IEC/EN 60081 for fluorescent lamps and indicates the time when the amount of light in an installation falls to 80% of the initial 100 h-value. The service life is calculated as result of lamp failure rate and lumen depreciation.

### LIFETIME AURA ULTIMATE

- 12 h-switching cycle (11 h on, 1 h off)

OPERATING CIRCUIT: — ELECTRONIC BALLAST (WARM START)  
— MAGNETIC BALLAST + STARTER



The 12 h-switching cycle is defined as the time when 10% of the lamps in an installation are failed. The lumen depreciation at this time is indicated with less than 10%.

TYPE	COLOUR	COLOUR TEMPERATURE (K)	LUMINOUS FLUX (lm/100 h)	LUMINOUS EFFICACY (lm/W)	Ø (mm)	LENGTH WITHOUT PINS (mm)	PACK. UNIT (pcs.)	ART. NO.
<b>Cap: G13</b>								
18 W/827	Interior	2700	1300	72	26	590	25	430212
18 W/830	Warm white	3000	1300	72	26	590	25	430213
18 W/835	Middle white	3500	1300	72	26	590	25	430218
18 W/840	White	4000	1300	72	26	590	25	430214
18 W/845	White plus	4500	1300	72	26	590	25	430215
18 W/865	Daylight	6500	1250	69	26	590	25	430216
30 W/827	Interior	2700	2450	82	26	895	25	430222
30 W/830	Warm white	3000	2450	82	26	895	25	430223
30 W/835	Middle white	3500	2450	82	26	895	25	430228
30 W/840	White	4000	2450	82	26	895	25	430224
30 W/845	White plus	4500	2450	82	26	895	25	430225
30 W/865	Daylight	6500	2300	77	26	895	25	430226
36 W -1m/827	Interior	2700	3000	83	26	970	25	430242
36 W -1m/830	Warm white	3000	3000	83	26	970	25	430243
36 W -1m/835	Middle white	3500	3000	83	26	970	25	430248
36 W -1m/840	White	4000	3000	83	26	970	25	430244
36 W -1m/845	White plus	4500	3000	83	26	970	25	430245
36 W -1m/865	Daylight	6500	2900	81	26	970	25	430246
36 W/827	Interior	2700	3350	93	26	1200	25	430232
36 W/830	Warm white	3000	3350	93	26	1200	25	430233
36 W/835	Middle white	3500	3350	93	26	1200	25	430238
36 W/840	White	4000	3350	93	26	1200	25	430234
36 W/845	White plus	4500	3350	93	26	1200	25	430235
36 W/865	Daylight	6500	3250	90	26	1200	25	430236
38 W/830	Warm white	3000	3350	88	26	1047	25	430283
38 W/840	White	4000	3350	88	26	1047	25	430284
58 W/827	Interior	2700	5200	90	26	1500	25	430252
58 W/830	Warm white	3000	5200	90	26	1500	25	430253
58 W/835	Middle white	3500	5200	90	26	1500	25	430258
58 W/840	White	4000	5200	90	26	1500	25	430254
58 W/845	White plus	4500	5200	90	26	1500	25	430255
58 W/865	Daylight	6500	5000	86	26	1500	25	430256