

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 *UNIQUE-L*

LONG LIFE

energy efficient compact light



Aura *UNIQUE-L* Long Life are compact fluorescent lamps with two discharge tubes connected by a bridge. The single cap at one end has not integrated equipment for operation.

Developed on base of the best available components and excellent processing they achieve a multiple lifetime compared to standard lamps.

UNIQUE-L are patented on platform of the Aura specific cathode shield construction and the inside protection layer.

They are available with high-quality tri-phosphor colours /830 warm white and /840 white with the high colour rendering of Ra 85.

UNIQUE-L with a 4-pin cap construction is prepared for operation

- 18 W to 36 W - with electro-magnetic ballast and separate starter or electronic ballast
- 40 W to 80 W - with electronic ballast

Offices

Schools

Hospitals

Stores

Restaurants

Small signs

Underpasses

Lifetime

The lifetime of *UNIQUE-L* Long Life fluorescent lamps is multiple compared to standard lamps. The lifetime data for electro-magnetic-ballast and starter and electronic ballast operation is listed in the programme data overview on the final page. The long lifetime of Aura Long Life lamps improves long term planning of group replacements. Group replacement of fluorescent and compact fluorescent lamps provides optimal control of the operational costs and a uniform level of light. For economical and environmental reasons Aura recommends group replacement of Long Life lamps.

Long Life Guarantee

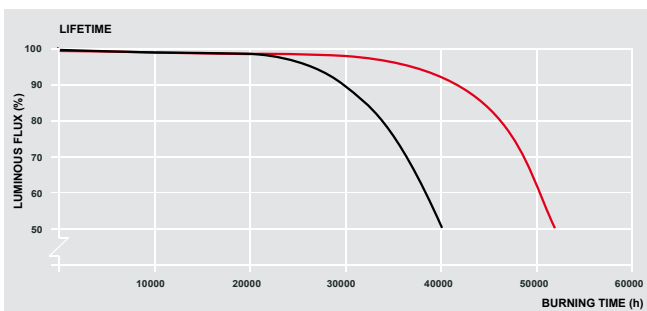
The Aura Long Life Compact fluorescent lamps are developed and manufactured in accordance with the IEC/EN 60901 standard. Continuous strict quality control processes secure Long Life lamps of top quality.

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

LIFETIME	SWITCHING CYCLE	MAGNETIC BALLAST + STARTER	ELECTRONIC BALLAST (WARMSTART)
	3 h 80% light available	30,000 h	42,000 h
12 h 10% mortality rate	36,000 h	48,000 h	

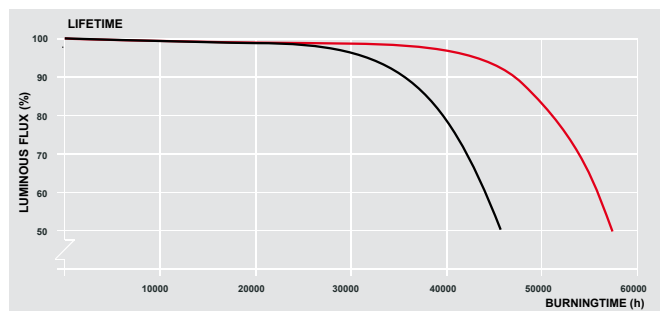
LIFETIME AURA UNIQUE-L AND UNIQUE-L COOL - 3h-switching cycle (2h 45 min. on, 15 min. off)

OPERATING CIRCUIT: — ELECTRONIC BALLAST (WARM START)
18W 24W 36W 40W 55W 80W
— MAGNETIC BALLAST + STARTER 18W 24W 36W



LIFETIME AURA UNIQUE-L AND UNIQUE-L COOL - 12h-switching cycle (11h on, 1h off)

OPERATING CIRCUIT: — ELECTRONIC BALLAST (WARM START)
18W 24W 36W 40W 55W 80W
— MAGNETIC BALLAST + STARTER 18W 24W 36W



Specifications

Compact fluorescent lamps have opened the way to design oriented compact luminaires in combination with energy efficient use in functional areas. *UNIQUE-L* Long Life lamps provide advantages in total cost of operation especially in applications where lamps are burning for long periods and the lamp replacement is difficult and time consuming or disturbs running processes.

UNIQUE-L have the optimum light output at + 25 °C. The lamps can be positioned in three ways in an installation:

- base down - which is most optimal
- horizontal
- base up

The lamps are able to work in dimming operation by using the defined electronic ballasts and equipment. It is recommended to start and operate the lamps first on a 100 % level to stabilise the lamp process and then to dim down. The lamps fit well in all luminaires designed for standard compact fluorescent lamps TC-L and can be installed easily.

UNIQUE-L Cool Long Life

This version of Compact fluorescent lamps is common in some regions to use in public outdoor lighting or in specific areas with low ambient temperature.

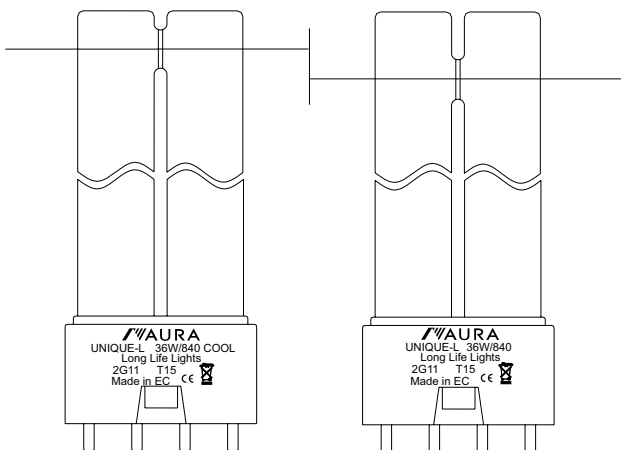


Aura's patented cathode shield construction gives *UNIQUE-L* multiple lifetime.

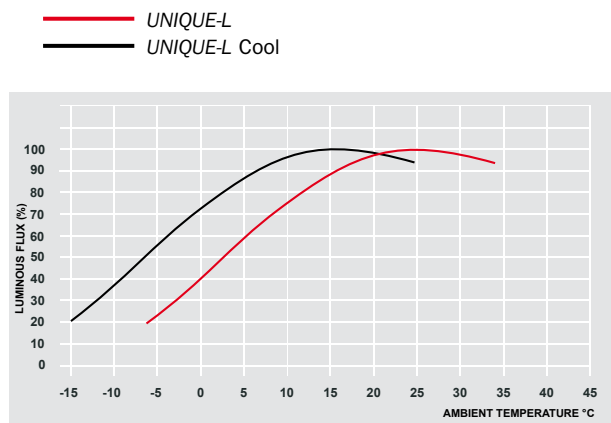
Through a different positioning of the bridge between the two discharge tubes the optimum temperature of the light output can be changed to a level of $\leq + 15$ °C.

UNIQUE-L Cool is the efficient alternative in low temperature application areas where a sufficient level of light is wanted.

UNIQUE-L and *UNIQUE-L* Cool - the different positions of the bridge.



UNIQUE-L and *UNIQUE-L* Cool - light output in relation to temperature.



TYPE	COLOUR	COLOUR TEMP. (K)	LUMINOUS FLUX (lm/100h)	LUMINOUS EFFICACY (lm/W)	Ø		LENGTH without pins (mm)	PACK. UNIT (pcs.)	ARTICLE No.
					single tube (mm)	total (mm)			
Cap: 2G11									
UNIQUE-L Long Life									
18 W/830	Warm white	3000	1200	67	17,5	37	225	10	496113
18 W/840	White	4000	1200	67	17,5	37	225	10	496114
24 W/830	Warm white	3000	1800	75	17,5	37	320	10	496123
24 W/840	White	4000	1800	75	17,5	37	320	10	496124
36 W/830	Warm white	3000	2900	81	17,5	37	415	10	496133
36 W/840	White	4000	2900	81	17,5	37	415	10	496134
40 W/830	Warm white	3000	3500	88	17,5	37	535	10	496143
40 W/840	White	4000	3500	88	17,5	37	535	10	496144
55 W/830	Warm white	3000	4800	87	17,5	37	535	10	496153
55 W/840	White	4000	4800	87	17,5	37	535	10	496154
80 W/830	Warm white	3000	6000	75	17,5	37	565	10	496183
80 W/840	White	4000	6000	75	17,5	37	565	10	496184
UNIQUE-L Cool Long Life									
18 W/830 Cool	Warm white	3000	1200	67	17,5	37	225	10	497113
18 W/840 Cool	White	4000	1200	67	17,5	37	225	10	497114
24 W/830 Cool	Warm white	3000	1800	67	17,5	37	320	10	497123
24 W/840 Cool	White	4000	1800	67	17,5	37	320	10	497124
36 W/830 Cool	Warm white	3000	2900	67	17,5	37	415	10	497133
36 W/840 Cool	White	4000	2900	67	17,5	37	415	10	497134
55 W/830 Cool	Warm white	3000	4800	67	17,5	37	535	10	497153
55 W/840 Cool	White	4000	4800	67	17,5	37	535	10	497154
* Optimum temperature level for UNIQUE-L = ≥ + 25 °C, UNIQUE-L COOL = ≤ + 15 °C.									

PROGRAMME

