

## GUARANTEE

### Aura Long Life fluorescent lamps

Aura Light International AB, Karlskrona (Sweden), grants a guarantee for all installed Aura Long Life fluorescent lamps

This guarantee is valid for all installations fulfilling the relevant norms. The guarantee is granted for the lifetime of the Long Life fluorescent lamps based on a 12 h switching cycle (11 h on, 1 h off).

| Type of Long Life fluorescent lamp  |                         | Lifetime (12 h), operated by         |                                    |
|---|-------------------------|--------------------------------------|------------------------------------|
|   |                         | Magnetic ballast<br>(ind. operation) | Electronic ballast<br>(warm start) |
| <b>Aura T8 Ultimate Long Life</b>   | 18W, 36 W-1m, 36W, 58W  | 60,000 h                             | 80,000 h                           |
| <b>Aura T8 Ultimate Long Life</b>   | 30 W, 38 W              | 48,000 h                             | 60,000 h                           |
| <b>Aura T8 Universal Long Life</b>  | 18W, 36 W-1m, 36W, 58W  | 43,000 h                             | 60,000 h                           |
| <b>Aura T8 Universal Long Life</b>  | 30 W                    | 32,000 h                             | 42,000 h                           |
| <b>Aura T8 Eco Saver Long Life</b>  | 16W, 32W, 51W           | 43,000 h                             | 60,000 h                           |
| <b>Aura T5 Eco Saver Long Life</b>  | 13W, 19W, 25W, 32W      | no operation                         | 58,000 h                           |
|   | 22W, 36W, 45W, 50W, 73W | no operation                         | 58,000 h                           |
| <b>Aura T5 Supreme HE Long Life</b>   | 14W, 21W, 28W, 35W      | no operation                         | 58,000 h                           |
| <b>Aura T5 Supreme HO Long Life</b>   | 24W, 39W, 54W, 49W, 80W | no operation                         | 58,000 h                           |
| <b>Aura T5 Premium HE Long Life</b>   | 35W                     | no operation                         | 45,000 h                           |
| <b>Aura T5 Premium HO Long Life</b>   | 49 W, 80W               | no operation                         | 45,000 h                           |
| <i>The lifetime of the special versions Protector (FEP), Thermo, Reflector and Signette is identical with the inside Long Life fluorescent lamp.</i>  |                         |                                      |                                    |
| <b>Aura Super Ex Long Life *)</b>   | 18W, 36W, 58W           | no operation                         | 60.000 h                           |
| <i>*) Aura Super Ex Long Life lamps are only operating with electronic cold start ballast, according to the specific safety requirements in applications of combustive proof areas.</i>             |                         |                                      |                                    |
|   |                         |                                      | <b>Electrical lifetime</b>         |
| <b>Aura T5 Miniature Long Life</b>  | 8W, 13W                 | 20,000 h                             | 20,000 h                           |
| <i>Electrical failures &lt; 10%, lumen depreciation &lt; 20%, measured by 24 h operation, installations according to EN 1838, Emergency lighting. Not for operation with relays start function.</i> |                         |                                      |                                    |
| <b>Aura U-Power Long Life</b>   | 18W, 36W, 58W           | 18,000 h                             | 18,000 h                           |
| <i>Electrical failures &lt; 10%, lumen depreciation &lt; 15%, measured by 1 switching in 12 hours.</i>  |                         |                                      |                                    |

The 12h-switching cycle is defined based on the time when 10% of the lamps in an installation are failed. The lumen depreciation at this time is indicated with less than 10 % of the initial luminous flux (100 h - value). When the failure rate (electrical) is more than 10% within the guaranteed lifetime the defect fluorescent lamps above 10 % will be compensated free of charge. A claim for damages cannot be constituted based on this guarantee.

#### The validity of the guarantee is based on the following conditions:

- Operating the Aura Long Life fluorescent lamps with usual and according to IEC/EN standards produced ballasts and accessories. When using dimming ballasts it is necessary to operate the lamp at full level (100%) for 100 hours.
  - Conventional / low loss ballasts and starters
  - Electronic ballasts - warm start
  - Electronic ballasts - cold start, when switching cycle > 12 hours
  - Glow switch starters Aura T1, T4 or equivalent
  - Electronic starters Aura Electronic Strike or equivalent
  - Energy Saving Systems ES 2000 or equivalent
  - Deos 171, SiS 10 are not to recommend to use at low temperatures with Aura Long Life fluorescent lamps 58W
- Installation costs for lamp replacement within the guaranteed lifetime have to be carried by the user.
- The guarantee is valid from day of installation which has to be recorded by the user.
- After announcement every defect lamp has to be returned to Aura Light for a test in the Aura Light laboratory. Only failures confirmed by the laboratory test will lead to guarantee compensation.