## **Technical Information**

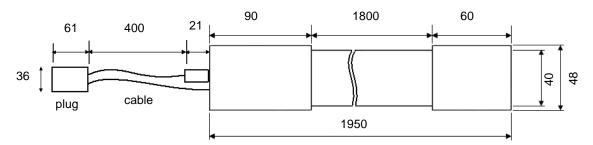
# XERADEX L40/1800/DB-SH48/90

Revision: 1.0 - 02/2011

Supersedes:

Status: valid

# **Operating Instructions**



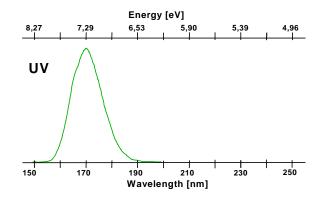
**OSRAM XERADEX®** VUV excimer lamps offer an exceptionally high VUV efficiency. XERADEX® lamps are the high-tech solution for cost effective surface cleaning/activation, purification or etching.

#### **Electrical data**

Rated power 300 W

Spectral data

Peak wavelength 172 nm
Irradiance at lamp surface 40 mW/cm² (Irradiance at lamp surface 80 mW/cm² ¹¹)
Generates ozone yes



## **Dimensions**

Overall length  $1950 \pm 2,0 \text{ mm}$  Radiant length  $1800 \pm 2,0 \text{ mm}$  Tube diameter  $40 \pm 1,9 \text{ mm}$  Socket diameter  $48 \pm 0,3 \text{ mm}$  Socket denomination Tubular Connector Mate N-Lock (4 lin.)

OSRAM Ident code n/a EAN code n/a

## **Applications**

- Surface treatment
  - Removal of organic residue, resist
  - Cleaning of photomasks
- Etching of plastic surfaces
- Activation of surface bonds
  - Improved deposition (photoresist, detergents)
  - Adjustment of contact angle
- · Photo induced processes
  - Matting of lacquer
  - Ozone production
  - UV/ozone cleaning without external ozonator

## **Operating conditions**

Burning position any
Cooling optional
Power supply (ECG) DBD 1000 220/240

#### Lifespan

Recommended service life<sup>2)</sup> 2500 h Radiation flux after  $2500h^{2)}$  >70%

## **Advice**

- Lamp emits high energy UV radiation which is readily absorbed by oxygen under generation of ozone.
- Provide ample ventilation and operate the lamp in suitable environment only.
- Lamp is designed for operation with matching power supply. Do not connect to any other power supply.
- Lamp is operated at high voltage. Lamp may only be installed, exchanged and operated by qualified personnel.

For complete operating, design-in, transportation and storage guidelines, please kindly refer to the *OSRAM XERADEX®* Application Notes.













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<sup>1)</sup> With increased input power, active cooling required

<sup>2)</sup> Based on irradiance of 40 mW/cm<sup>2</sup>