

Technical Information

No. FO 4747

Edition: 06/00 - subject to change

Substitutes: Edition 11/98

Status: valid

Mercury Short Arc Lamp
for Microlithography

HBO® 2011 W/NIL

n Product description

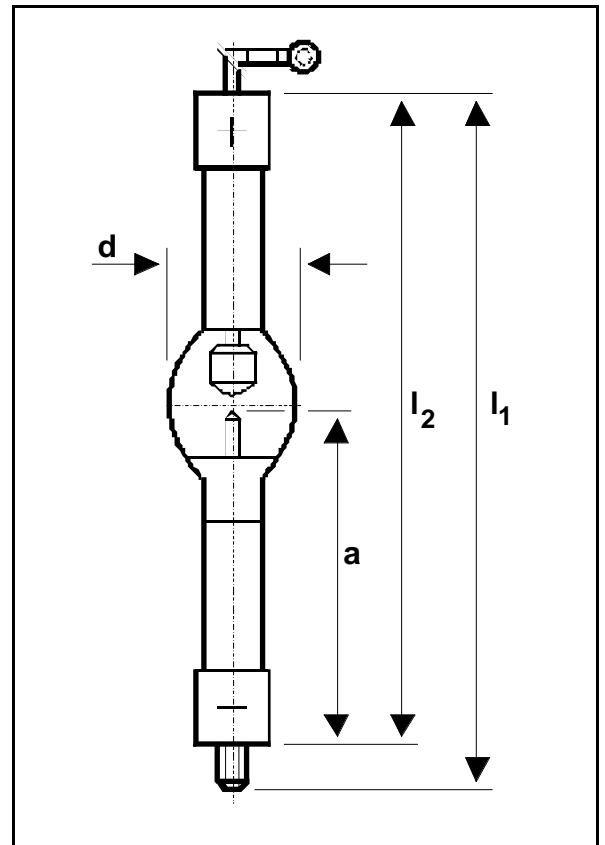
The OSRAM HBO® 2011 W/NIL is a direct current mercury short arc i-line lamp designed for the manufacture of integrated circuits (microlithography). This lamp type emits a very high radiant intensity in the ultraviolet and visible wavelength range and is especially suited for use in Nikon equipment (NSR-2205 i12D, i12E).

n Technical data

Order reference		HBO® 2011 W/NIL
Rated lamp wattage	W	2.000
Rated lamp voltage	V	25
Rated lamp current (=)	A	80
Ignition voltage (cold)	kV _s	max. 20
Radiant intensity (wave length range 365 ± 2,5nm)	mW/sr	5.700
Electrode gap e (cold)	mm	4,5
Lamp length (overall) l ₁	mm	max. 256
Lamp length l ₂	mm	234 / max. 236
Bulb diameter d	mm	52
LCL a	mm	107,75
Average service life	h	1.500

Base

- Cathode: SFc 27-12x1,5/35
- Anode: SFc 27-7/35 with cable connection (M8)



n Lamp operation

Maximum permissible base temperature	°C	200
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Cooling	forced base cooling
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Burning position	vertical, anode (+) up
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The HBO® 2011 W/NIL can either be operated on standard ballasts or on electronic power supplies (ECG).

n Safety Instruction

Because their high luminous efficacy, the UV radiation which they emit and the high pressure within the lamp, HBO® lamps may only be operated within enclosed, purpose-built housings. When a lamp breaks, mercury is released. Particular safety regulations should be paid attention (for details please request technical information sheet no. FO 4574).