

## Technical Information

No. FO 4871

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Substitutes: Edition 01/99

Status: valid

Mercury Short Arc Lamp  
for Microlithography

# HBO<sup>®</sup> 2700 W/CIL

### ■ Product description

The OSRAM HBO<sup>®</sup> 2700 W/CIL 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 optimized for use in Canon equipment i5++(step2).

### ■ Technical data

Order reference		HBO <sup>®</sup> 2700 W/CIL
Rated lamp wattage	W	2,700
Rated lamp voltage	V	26
Rated lamp current (=)	A	104
Ignition voltage (cold)	kV <sub>S</sub>	max. 30
Radiant intensity (wave length range 365 ± 2,5nm)	mW/sr	8,280
Electrode gap e (cold)	mm	4.8
Lamp length (overall) l <sub>1</sub>	mm	332
Lamp length l <sub>2</sub>	mm	307
Bulb diameter d	mm	62
LCL a	mm	149.1
Guaranteed life	h	1,500

Base	<ul style="list-style-type: none"><li>• Cathode: SFa 33.5-14/50 with cable connector (M6)</li><li>• Anode: SF 33.5/50 with cable connector (M8)</li></ul>
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### ■ Lamp operation

Maximum permissible base temperature	°C	200
Cooling	forced base cooling	
Burning position	vertical, anode (+) up	

### ■ Safety Instruction

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

**The lamp contains overpressure even in cold status – additional safety regulations, supplied with the lamps, have to be fulfilled.**

