

## HBO Microlithography Lamps for Nikon i-line Systems



### Areas of application

- Microlithography

### Product features and benefits

- High spectral intensity with peak irradiance at 365nm wavelength, making it ideal for microlithography
- Designed for long lasting performance
- Qualified with Nikon
- Qualified with Nikon



## Product family datasheet

### Technical data

Product description	Electrical Data		Photometric Data	Physical Attributes & Dimensions
	Nominal wattage	Nominal voltage	Light center length (LCL)	Length
HBO 1000 W/NEL <sup>1)</sup>	750 W	47 V	84.5 mm <sup>5)</sup>	187.0 mm
HBO 1002 W/NEL <sup>1)</sup>	750 W	47 V	78.5 mm <sup>5)</sup>	187.0 mm
HBO 1002 W/NIL <sup>2)</sup>	750 W	27.1 V	78.5 mm <sup>5)</sup>	190.0 mm
HBO 2001 W/NIL <sup>3)</sup>	1750 W	26 V	122.25 mm <sup>5)</sup>	251.0 mm
HBO 2000 W/NIL	1750 W	26 V	112.25 mm <sup>5)</sup>	219.0 mm
HBO 2001 W/NIEL	1750 W	26 V	112.0 mm <sup>5)</sup>	251.0 mm
HBO 2002 W/NIL	1750 W	26 V	107.75 mm <sup>5)</sup>	232.0 mm
HBO 2011 W/NIL	2011 W	25 V	107.75 mm <sup>5)</sup>	256.0 mm
HBO 2011 W/NILH <sup>4)</sup>	2011 W	24 V	107.75 mm <sup>5)</sup>	234.0 mm
HBO 2501 W/NIL	2500 W	23 V	157.75 mm <sup>5)</sup>	357.0 mm
HBO 2510 W/NIL	2500 W	23 V	157.75 mm <sup>5)</sup>	357.0 mm
HBO 3500 W/NIL <sup>4)</sup>	3500 W	27 V	180.0 mm <sup>5)</sup>	382.0 mm

<sup>1)</sup> Lamp suitable for pulsed operation between 700...1000 W/Maximum permissible power 750 W for constant power operation

<sup>2)</sup> Lamp suitable for pulsed operation between 700...1000 W

<sup>3)</sup> Also available as Super Longlife version with 2,250 h lifespan: HBO 2001 W/NIEL (4050300538211)

<sup>4)</sup> Lamp contains overpressure even in cold status - additional safety regulations, supplied with the lamps, have to be fulfilled. Please read Technical bulletin DO-SEM TB 004 carefully

<sup>5)</sup> Distance from end of base to tip of anode or cathode (cold)

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### Safety advice

Because of their high luminance, UV radiation and high internal pressure (when hot) HBO lamps may only be operated in enclosed lamp casings specially constructed for the purpose. Mercury is released if the lamp breaks. Special safety precautions must be taken. More information is available on request or can be found in the leaflet included with the lamp or in the operating instructions.

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### Application advice

For more detailed application information and graphics please see product datasheet.

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### Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.