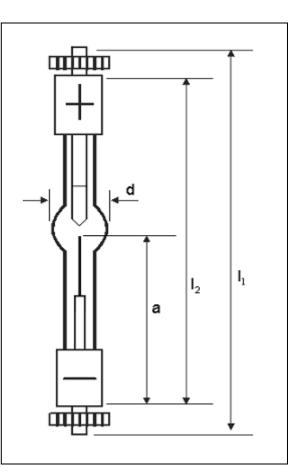
## XBO<sup>®</sup> 150 W/1 OFR

### Product description

- Xenon discharge lamp for DC operation
- Short arc
- High pressure
- Daylight spectrum
- Suppressed generation of ozone
- Hot re-start

## **Electrical Data and Lamp Geometry**

Rated lamp current	А	7.5
Rated lamp power	W	150
Initial voltage range	V	17 21
Ignition voltage (cold / hot)	kV	25 / 25
Overall lamp length I1	mm	max. 150
Lamp length I2	mm	max. 127
Bulb diameter d	mm	max. 20
Length a <sup>1</sup>	mm	57 ± 1
Electrode gap (cold) e	mm	approx. 2.5
Base (anode side)		• SFcX 12-4
Base (cathode side)		• SFc 12-4



## Performance Data<sup>2</sup>

Initial luminous flux	lm	min. 2,400
Initial average luminance	cd/cm <sup>2</sup>	min. 12,000
Initial light intensity <sup>3</sup>	cd	min. 240
Colour temperature	K	approx. 5,700
Colour rendering index		approx. 95
Average life	h	1,200

During operation the generation of ozone and nitrogen oxides in the neighbourhood of the lamp is suppressed due to the use of special quartz not transparent to radiation below approx. 250 nm.

<sup>&</sup>lt;sup>3</sup> Light intensity in the plane containing cathode tip and vertical to lamp axis



<sup>&</sup>lt;sup>1</sup> Length "a" specifies the position of cathode tip referring to reference plane at room temperature.

<sup>&</sup>lt;sup>2</sup> At rated current if not otherwise specified

# XBO<sup>®</sup> 150 W/1 OFR

#### Mounting

This lamp should be mounted at the cathode base; the anode base should be left unsupported. It is allowed to mount at the anode base leaving the cathode base unsupported; however, this renders length "a" meaningless.

## Operation Conditions

Burning position		s15 (vertical, cathode down, $\pm$ 15°)
Base temperature	°C	max. 230 allowed
Cooling		forced cooling necessary
Arc stabilisation		not required
Allowed power range	W	130 175
Allowed current range <sup>4</sup>	А	7.5
Max. peak of inrush current	Α	25
Polarity		for proper polarity observe base marking

This lamp type can be operated both on a standard ballast and on an electronic power supply provided they comply with the requirements laid down in OSRAM Guidelines for Power Supplies and Igniters (see table below).

### Safety Instructions

This lamp has a high internal pressure even when cold. When handling it observe precautionary measures laid down in the safety enclosure accompanying each lamp.

For operation use only purpose-built lamp housings which prevent direct viewing of the arc and, in case of lamp bursting, refrain lamp particles.

### Additional Documentation

Titl	e	Order reference
٠	Typical Spectral Distribution	-
•	Guidelines for Power Supplies and Igniters	FO GL-10
•	Ozone Generation During Operation of Special Discharge Lamps	FO 4840

For the above mentioned publications please contact an OSRAM representative in your neighbourhood.



<sup>&</sup>lt;sup>4</sup> It is recommended to operate this lamp with rated current.