### **Technical Information**

No. FO 4815

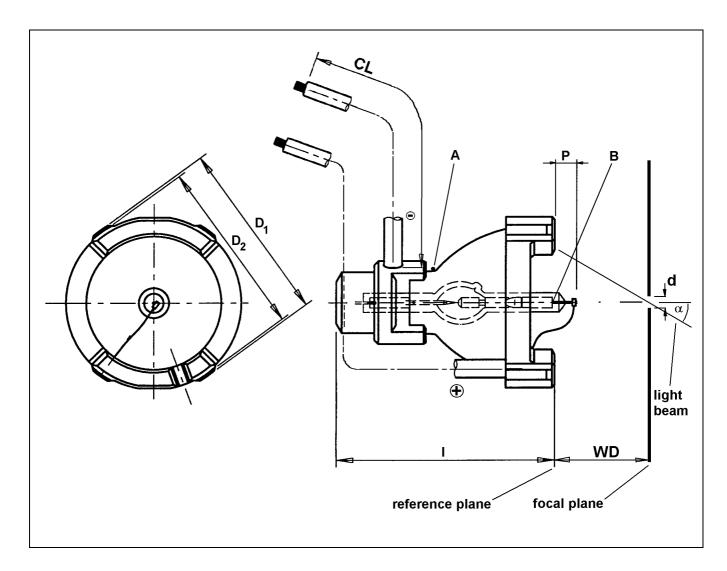
Edition: 02/02 - subject to change Supersedes: Initial Release 09/01

Status: valid

## **XBO**<sup>®</sup> R 181 W/45C OFR

## **■** Product description

- Xenon discharge lamp for DC operation
- Short arc, high pressure
- Focusing reflector
- Dichroic coating for suppressed IR-output
- For light guides with up to 8 mm diameter
- Cable connection terminated with bare wires
- Ozone-free
- Hot re-strikeable



### ■ Technical data

Α	12
W	180
V	12.8 – 14.8
kV	max. 20 / max. 20
K	approx. 6000
Ra	> 90
	A W V kV K R <sub>a</sub>



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# **XBO®** R 181 W/45C OFR

Beam-to-axis angle $\alpha$	deg	max. 22.4
Length I	mm	max. 81.5
Length p	mm	max. 9.0
Reflector diameter D <sub>1</sub>	mm	max. Ø 67.0
Diameter D <sub>2</sub>	mm	Ø 64.0 <sub>-0,3</sub>
Cable length CL	mm	min. 200, each cable
Electrical connectors		Blank nickel-plated copper wires, snaked, total cross-section 6.2 mm²

### Performance data at rated current

Working distance WD	mm	45
Initial aperture lumens	lm	• min. 500 at d = Ø 3 mm
		• min. 1100 at d = Ø 5 mm
Declared service life 1)		500

## Mounting

Mounting	rim mounting; for details see Technical Information No. FO 4913	
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## Operation conditions

Burning position		horizontal ± 20° (p 20)
Temperature at point A	°C	max. 250 allowed; 175 - 200 optimum
Temperature at point B	°C	max. 350 allowed; 200 - 250 optimum
Cooling		Forced cooling required; distribution and velocity of air flow to be chosen in such a way as to ensure proper temperatures at points A and B
Current operation range	Α	11.75 - 12.25
Power operation range	W	min. 150, max. 210
Polarity		proper polarity to be observed

XBO® R 181 W/45C OFR can be operated either on a standard ballast or on an electronic power supply.

#### Additional documentation

- Guidelines for Mounting and Centering of Reflector Discharge Lamps (1);
  Technical Information No. FO 4913
- Guidelines for Power Supplies and Ignitors for Xenon Short Arc Lamps Photo Optics No. FO GL-3
- Cooling Scheme; Technical Information No. FO 4935

<sup>&</sup>lt;sup>1)</sup> Operation time after which aperture lumens can decrease to 50% of initial value. Switching cycle 1 hour on, 1 hour off

