No. FO 5485

Edition: 02/2013 - subject to change

Supersedes: 08/2009 Status: valid

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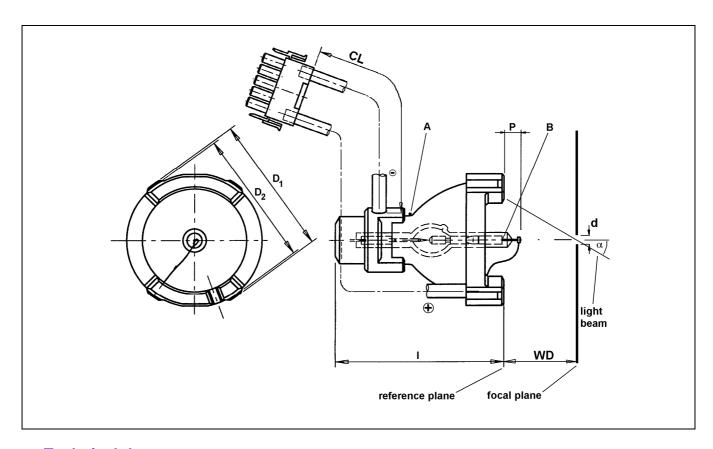
XBO® R 180W/45C OFR





■ 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 with plug-in contact
- Ozone-free
- Hot re-strikeable



■ Technical data

Rated lamp current	Α	12
Rated lamp wattage	W	180
Initial voltage range	V	12.8 – 14.8
Ignition voltage (cold/hot)	kV	max. 20 / max. 20
Colour temperature	K	approx. 6000
Colour rendering index	R_a	> 90
Beam-to-axis angle α	deg	max. 22.4
Length I	mm	max. 81.5
Length p	mm	max. 9.0
Reflector diameter D ₁	mm	max. Ø 67.0
Diameter D ₂	mm	Ø 64.0 _{-0.3}



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Cable length CL	mm	min. 90 on (-) side, min. 120 mm on (+) side
Electrical connectors		Cable with AMP-plug no. 350809-1

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)	h	500

Mounting

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

Operation conditions

Burning position		horizontal ± 20° (p 20)
Temperature at point A	${\mathfrak C}$	max. 250 allowed; 175 - 2 00 optimum
Temperature at point B	С	max. 350 allowed; 200 - 2 50 optimum
Cooling		Forced cooling required, air flow velocity and distribution to be chosen in such a way as to ensure proper temperatures at points A and B
Current operation range	Α	min. 11.75, max. 12.25
Power operation range	W	min. 150, max. 210
Polarity		proper polarity to be observed

XBO® R 180 W/45C OFR can be operated either on a standard ballast or on an electronic power supply.

■ Safety Instructions

- In its cold state the lamp has a high internal pressure (as much as 20 bar). The lamp is extremely unlikely to explode but, the possibility cannot be entirely ruled out. Therefore, when handling it, observe precautionary measures laid down in the safety enclosure accompanying each lamp.
- During operation, the internal pressure is around three times higher than in the cold state. Even so, an explosion is extremely unlikely but, the possibility cannot be entirely ruled out.
- XBO[®] R 180W/45C OFR must only be operated in purpose-built lamp housings which prevent direct viewing of the arc and in case of lamp bursting refrain lamp particles.

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

Operation time after which aperture lumens can decrease to 50% of initial value. Switching cycle 1 hour on, 1 hour off

