

## Technical Information

No. FO 4918

Edition: 02/02 - subject to change

Supersedes: Initial Release 09/01

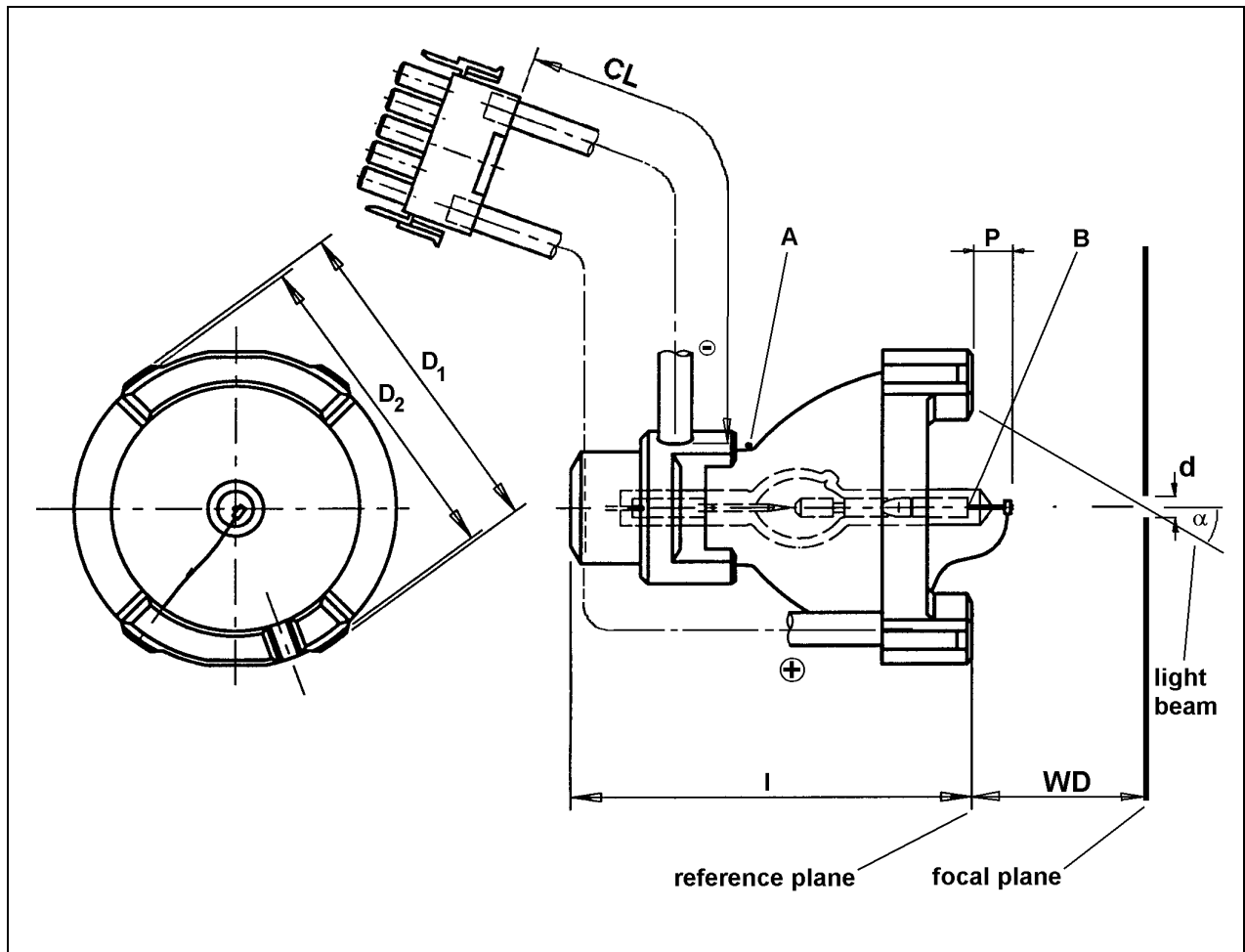
Status: valid

## Xenon Short Arc Reflector Lamp

# XBO<sup>®</sup> R 100 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 with plug-in contact
- Ozone-free
- Hot re-strikeable



### ■ Technical data

|                             |                |                   |
|-----------------------------|----------------|-------------------|
| Rated lamp current          | A              | 7.2               |
| Rated lamp wattage          | W              | 100               |
| Initial voltage range       | V              | 12 - 14           |
| Ignition voltage (cold/hot) | kV             | max. 20 / max. 20 |
| Colour temperature          | K              | approx. 6000      |
| Colour rendering index      | R <sub>a</sub> | > 90              |

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|                             |                                   |                                    |
|-----------------------------|-----------------------------------|------------------------------------|
| Beam-to-axis angle $\alpha$ | deg                               | max. 22.4                          |
| Length l                    | mm                                | max. 77                            |
| Length p                    | mm                                | max. 6                             |
| Reflector diameter $D_1$    | mm                                | max. $\varnothing$ 67.0            |
| Diameter $D_2$              | mm                                | $\varnothing$ 64.0 <sub>-0,3</sub> |
| Cable length CL             | mm                                | min. 90                            |
| Electrical connectors       | Cable with AMP-plug No. 350 809-1 |                                    |

### ■ Performance data at rated current

|                                     |    |  |
|-------------------------------------|----|--|
| Working distance WD                 | mm | 45   |
| Initial aperture lumens             | lm | • min. 300 at $d = \varnothing$ 3 mm<br>• min. 400 at $d = \varnothing$ 5 mm |
| Declared service life <sup>1)</sup> | h  | 500  |

### ■ Mounting

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

### ■ Operation conditions

|                         |   |                                     |
|-------------------------|---|-------------------------------------|
| Burning position        | horizontal $\pm$ 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, 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 | A   | min. 7.0, max. 7.4                  |
| Power operation range   | W   | min. 85, max. 115                   |
| Polarity                | proper polarity to be observed  |                                     |

XBO<sup>®</sup> R 100 W/45C 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-4
- Cooling Scheme; Technical Information No. FO 4935

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