

Technical Information

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Xenon Short Arc Lamp

XBO® 8000 W/HS OFR

■ Product description

The OSRAM XBO® 8000 W/HS OFR belongs to the group of double ended Xenon short arc lamps at the highest power level. It is being used in applications where particularly high requirements are set on the stability of the light arc and a very high luminance has to be achieved. The XBO® 8000 W/HS OFR is hot re-strike able.

■ Technical data

Order reference	XBO® 8000 W/HS OFR
Rated lamp wattage	W 8,000
Rated lamp voltage	V 45
Rated lamp current (=)	A 175
Current control range	A 150 - 180
Ignition voltage	kV _p 45
Min. open circuit voltage for cold / hot ignition	V 120 / 140
Luminous flux	lm 400,000
Luminous intensity	cd 40,000
Average luminance	cd/cm ² 110,000
Luminous area w x h *)	mm 2.5 x 10.5
Electrode gap e (cold)	mm 12.0
Lamp length (overall) l ₁	mm max. 433
Lamp length l ₂	mm max. 393
LCL a	mm 170.5
Bulb diameter d	mm 90
Average service life	h 500
Warranty	h 500
Base	• Cathode: SFa 30-7,9 • Anode: SFaX 30-9,5

*) w = half width value of light arc
h = light arc height during operation (electrode gap hot)

■ Lamp operation

Maximum permissible base temperature	°C	230
Cooling		forced cooling / fan
Min. air flow velocity around discharge vessel	m/s	10
Magnetic arc stabilization		necessary for horizontal operation
Burning position		s 15 (vertical ± 15° ; anode up) ; p 15 (horizontal ± 15°)

