

Technical Information

No. 4977

Edition: 08/05- subject to change

Substitutes: Edition 01/04

Status: valid

Xenon Short Arc Lamp

XBO[®] 4000 W/HSA OFR

■ Product description

The OSRAM XBO[®] 4000 W/HSA OFR is a DC -operated lamp that is especially suited for applications requiring excellent arc stability and high luminance. The OSRAM XBO[®] 4000 W/HSA OFR is designed for horizontal burning position (H = horizontal, SA = shorter arc).

■ Technical data

Order reference	XBO [®] 4000 W/HSA OFR	
Rated lamp wattage	W	4000
Rated lamp voltage	V	29
Rated lamp current (=)	A	135
Current control range	A	80 - 150
Ignition voltage	kV _p	36
Min. open circuit voltage for cold / hot ignition	V	85/110
Luminous flux	lm	160000
Luminous intensity	cd	20000
Average luminance	cd/cm ²	105000
Luminous area w x h *)	mm	1.8 x 5.6
Electrode gap e (cold)	mm	6.5
Lamp length (overall) l ₁	mm	max. 410
Lamp length l ₂	mm	max. 370
LCL a	mm	171
Bulb diameter d	mm	70
Average service life	h	1500
Warranty	h	1000
Base	Cathode:	SFa 30-8
	Anode:	SFaX 30-9,5

*) w = luminance half width value; h = height of luminance area (corresponds to electrode gap, hot)

■ Lamp operation

Maximum permissible base temperature	230°C
Cooling	Forced cooling / fan
Min. air flow velocity around discharge vessel	6 m/s
Magnetic arc stabilization	necessary for horizontal operation
Operating position	s 20 (vertical ± 20° ; anode up) ; p 20 (horizontal ± 20°)

