

Technical Information

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Substitutes: Edition 04/02

Status: valid

Xenon Short Arc Lamp

XBO[®] 5000 W/HBM OFR

■ Product description

The OSRAM XBO[®] 5000 W/HBM OFR is a DC -operated lamp that is especially suited for applications requiring excellent arc stability and high luminance. The OSRAM XBO[®] 5000 W/HBM OFR is designed for horizontal burning position (H = horizontal, BM = base modified and like HS base type).

■ Technical data

Order reference		XBO [®] 5000 W/HBM
Rated lamp wattage	W	5000
Rated lamp voltage	V	34
Rated lamp current (=)	A	140
Current control range	A	100 - 150
Ignition voltage	kV _s	36
Min. open circuit voltage for cold / hot ignition	V	85 / 110
Luminous flux	lm	225000
Luminous intensity	cd	27000
Average luminance	cd/cm ²	95000
Luminous area w x h *)	mm	2.2 x 6.5
Electrode gap e (cold)	mm	7.5
Lamp length (overall) l ₁	mm	max. 436
Lamp length l ₂	mm	max. 392
LCL a	mm	170.5
Bulb diameter d	mm	70
Average service life	h	1500
Warranty	h	1000
Base		• Cathode: SFaX 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	°C	230
Cooling		Forced cooling / fan
Min. air flow velocity around discharge vessel	m/s	6
Magnetic arc stabilization		necessary for horizontal operation
Operating position		• s 15 (vertical ± 15° ; anode up) ; • p 15 (horizontal ± 15°)

