

Technical Information

No. 5263

Edition: 08/05 - subject to change

Substitutes: Edition 04/04

Status: preliminary

Xenon Short Arc Lamp

XBO[®] 2500 W/HTP OFR

■ Product description

The OSRAM XBO[®] 2500 W/HTP OFR is a DC-operated lamp that is especially suited for applications requiring excellent arc stability and a high luminance. The OSRAM XBO[®] 2500 W/HTP OFR is designed for horizontal burning position (H = horizontal, TP = threaded pin).

■ Technical data

Order reference		XBO [®] 2500 W/HTP OFR
Rated lamp wattage	W	2500
Rated lamp voltage	V	28
Rated lamp current (=)	A	90
Current control range	A	70 - 100
Ignition voltage	kV _s	36
Min. open circuit voltage for cold / hot ignition	V	85 / 110
Luminous flux	lm	100000
Luminous intensity	cd	9500
Average luminance	cd/cm ²	60000
Luminous area w x h ^{*)}	mm	1.5 x 6.0
Electrode gap e (cold)	mm	6.8
Lamp length (overall) L ₁	mm	max. 398
Lamp length L ₂	mm	max. 357
LCL a	mm	162,5
Bulb diameter d	mm	60
Average service life	h	2000
Warranty	h	1500

Base Cathode: SFc 27-14
Anode: SFa 27-14

*) 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 in horizontal burning position
Burning position		s 30 (vertical ± 30°; anode up) ; p 30 (horizontal ± 30°)

