

Technical Information

No. 4170

Edition: 10/12 - subject to change

Substitutes: Edition 03/12

Status: valid

Xenon Short Arc Lamp

XBO[®] 1000 W/HS OFR

■ Product description

The OSRAM XBO[®] 1000 W/HS OFR is a DC -operated lamp that is especially suited for applications requiring excellent arc stability and high luminance. The OSRAM XBO[®] 1000 W/HS OFR is designed for horizontal burning position (H = horizontal) and excels with its compact dimensions (S = short).

■ Technical data

Order reference		XBO [®] 1000 W/HS
Rated lamp wattage	W	1,000
Rated lamp voltage	V	19
Rated lamp current (=)	A	50
Current control range	A	30 - 55
Ignition voltage	kV _p	33
Min. open circuit voltage for cold / hot ignition	V	65 / 75
Luminous flux	lm	32,000
Luminous intensity	cd	3,000
Average luminance	cd/cm ²	60,000
Luminous area w x h ¹⁾	mm	1.1 x 2.8
Electrode gap e (cold)	mm	3.6
Lamp length (overall) l ₁	mm	max. 235
Lamp length l ₂	mm	max. 205
Cable length l ₃	mm	max.
LCL a	mm	95
Bulb diameter d	mm	40
Service Warranty Lifetime	h	3,000
Warranty	h	2,000

Base Cathode: SFcX 27-8
Anode: SFa 27-11

¹⁾ w = luminance half width value; h = height of luminance area (corresponds to electrode gap, hot)

■ Lamp operation

Maximum permissible base temperature	°C	230
Cooling requirements		forced cooling / fan
Min. air flow velocity around discharge vessel	m/s	5
Operating position		• s 20 (vertical ± 20°; anode up) ; • p 20 (horizontal ± 20°)

Detailed electrical lamp operation is described in our Guidelines for Power Supplies and Igniters, no. DO GL- 4170

