

Technical Information

No. 5537

Edition: 04/07 - subject to change

Substitutes: Edition 01/06

Status: valid

Xenon Short Arc Lamp

XBO[®] 4200 W/HPS OFR

■ Product description

The OSRAM XBO[®] 4200 W/HPS OFR is a DC operated lamp, which especially has been designed for applications, requiring highest level of performance in luminance and excellent arc stability. The XBO[®] 4200 W/HPS OFR will fit the latest technical Video - Projection requirements.

■ Technical data

Order reference		XBO [®] 4200 W/HPS OFR
Rated lamp wattage	W	4200
Half mode operation	W	2100
Rated lamp voltage	V	31
Rated lamp current (=)	A	135
Current control range	A	80 - 150
Ignition voltage	kV _P	40 ¹⁾
Min. open circuit voltage for cold / hot ignition	V	100 / 120
Luminous flux	lm	210,000
Luminous intensity	cd	20,000
Average luminance	cd/cm ²	175,000
Luminous area w x h ²⁾	mm	1.3 x 3.5
Arc instability ³⁾	%	< 15
Electrode gap e (cold)	mm	5.5
Lamp length (overall) l ₁	mm	max. 334
Lamp length l ₂	mm	max. 297
LCL a	mm	128
Bulb diameter d, max.	mm	55
Average service life	h	600
Base		Cathode: SFc30-20/50 Anode: SFaX30-14/68

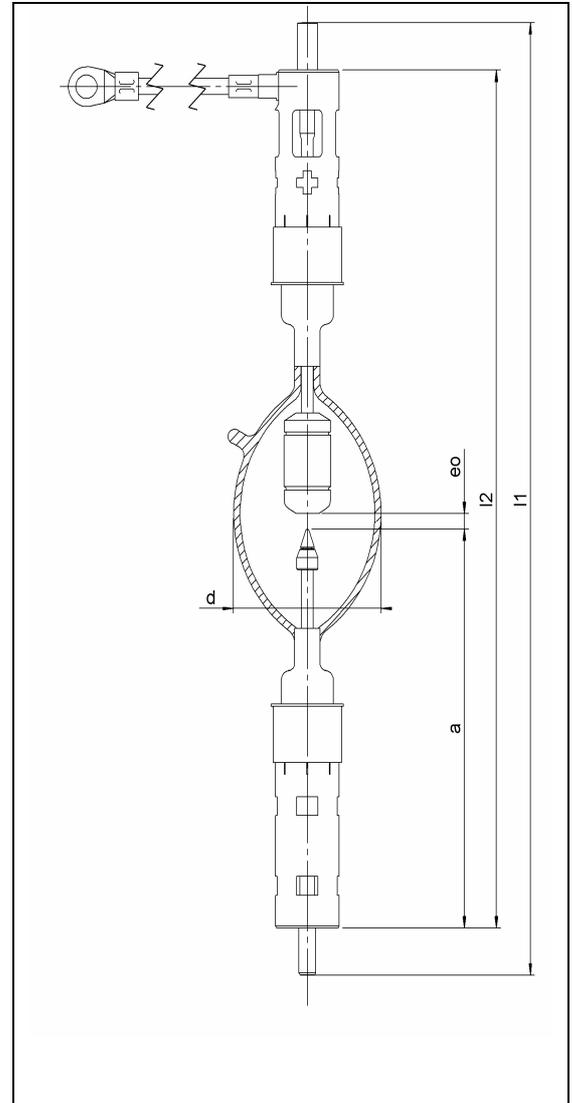
¹⁾ Target: min. 35kVp under testing

²⁾ b = luminance half width value; h = electrode gap (hot) of running lamp

³⁾ to be measured in Osram standard optical setup

■ Lamp operation

Maximum permissible base temperature	°C	230
Cooling requirements		forced cooling / fan
Min. air flow velocity around discharge vessel	m/s	7
Operating position		s 120 (vertical - 30°; anode up)



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