

Technical Information

No. 4202

Edition: 03/12 - subject to change

Substitutes: Edition 05/11

Status: preliminary

Xenon Short Arc Lamp

XBO[®] 4200 W/CA OFR

■ Product description

The OSRAM XBO[®] 4200 W/CA OFR is a DC-operated lamp that is especially suited for applications requiring excellent arc stability and high luminance. The OSRAM XBO[®] 4200 W/CA OFR is designed for vertical burning position (CA = cable on anode base).

■ Technical data

Order reference	XBO [®] 4200 W/CA OFR	
Rated lamp wattage	W	4200
Rated lamp voltage	V	29
Rated lamp current (=)	A	140
Current control range	A	80/150
Ignition voltage	kV _P	33
Min. open circuit voltage for cold / hot ignition	V	75/100
Luminous flux	lm	190000
Luminous intensity	cd	20000
Average luminance	cd/cm ²	100000
Luminous area w x h ¹⁾	mm	2.1 x 5.7
Electrode gap e (cold)	mm	7.0
Lamp length (overall) l ₁	mm	max. 428
Lamp length l ₂	mm	max. 382
Cable length l ₃	mm	max. 300+-10
LCL a	mm	167.5
Lamp cable l _c ²⁾	mm	300
Bulb diameter d	mm	70
Warranty	h	1000
Base	Cathode	SFaX 27-14
	Anode	SFaX 27-13

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

²⁾ additional lamp cable, 300 mm in the package

■ Lamp operation

Maximum permissible base temperature	230 °C
Cooling	Forced cooling / fan
Min. air flow velocity around discharge vessel	6 m/s
Operating position	s 15 (vertical ± 15°; anode up)

Detailed electrical lamp operation is described in our Guidelines for Power Supplies and Igniters, no. DO GL- 4202

