

Technical Information

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Xenon Short Arc Lamp

XBO® 3000 W/HTP XL OFR

■ Product description

The OSRAM XBO® 3000 W/HTP XL OFR is a DC-operated lamp, developed with the latest high brightness technology for XBO lamps. The XL lamps, which stands for Xtreme life, are strictly optimized on performance and have an increased warranty up to 50%.

■ Technical data

Order reference XBO® 3000 W/HTP XL OFR

Maximal lamp wattage W 3000

Rated lamp voltage V 29

Rated lamp current (=) A 100

Current control range A 60 - 110

Ignition voltage kV_p 36

Min. open circuit voltage for cold / hot ignition V 85 / 110

Luminous flux lm 130000

Luminous intensity cd 12000

Average luminance cd/cm² 85000

Luminous area w x h ¹⁾ mm 1.7 x 5.0

Electrode gap e_o (cold) mm 6.0

Lamp length (overall) L₁ mm max. 405

Lamp length L₂ mm max. 357

Cable length L₃ mm max. ---

LCL a mm 162,5

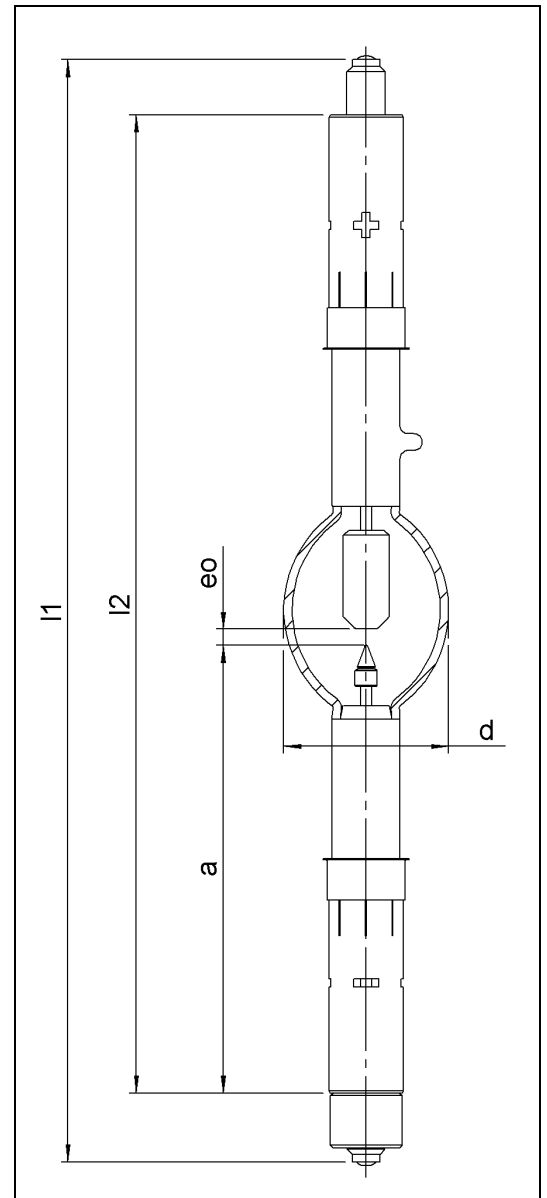
Bulb diameter d mm 60

Warranty h 2200

Base Cathode SFc 27-14

Anode SFa 27-14

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 forced cooling / fan

Min. air flow velocity around discharge vessel m/s 6

Magnetic arc stabilization required in horizontal burning position

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

Detailed electrical lamp operation is described in our Guidelines for Power Supplies and Igniters, no. DO GL- 5581