UXR[™]-175BF Series

Ceramic Xenon Lamp

The USHIO UXR[™]-175BF Ceramic Xenon lamps are highly efficient, pre-aligned, parabolic reflectorized lamps for use in numerous scientific, medical and industrial illumination applications.

The UXR features strong output reliability over life, highly stable 6100K color temperature, a compact and rugged ceramic to metal seal manufactured body and new window protection design. Manufactured at our ISO-certified plant, all UXR lamps are built to high quality standards for consistent and reliable performance.

FEATURES & BENEFITS

TUXP

- Rugged Compact Design
- · Broad Continuous Spectral Output, High Color Rendering
- Superior Lumen Maintenance with Improved Ignition Reliability
- Demanding Quality Control and Manufacturing Aspects Produce Highly Consistent Lamp to Lamp Replacement Performance
- New Window Design Protects Against Scratching and Surface Contamination

APPLICATIONS

- Endoscopy
- Surgical Headlights
- Microscopy
- Borescopy
- Spectroscopy
- Visible/Infrared
 Searchlights
- Machine Vision
- Solar Simulation
- Projection

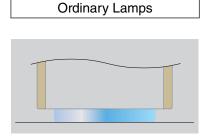


SPECIFICATIONS

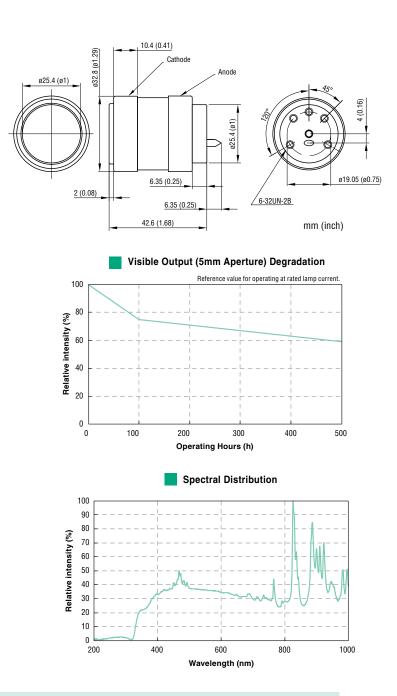
UXR-175BF ITEM# 5003096	
ELECTRICAL CHARACTERISTICS	
Watts (W)	175
Voltage (V)	12.5
Current (A)	14
Current Range (A)	12.5~16
SPECIFICATIONS	
Arc Gap (mm)	1.1
Spectral Type	Ozone Free
Window Diameter (mm)	ø25.4
Reflector	Parabola
Warranty ¹ Life (h)	500
Lifetime ² (h)	1000
INITIAL OUTPUT	
Radiant Output (W)	30
Visible Output (Im)	1900
Visible Output (5mm Aperture	e)(lm) 950
Color Temperature (K)	6100
OPERATING CONDITION (Lamp)	
Burn Position	Horizontal
Ceramic Body Temperature	Max. 150° C
Base Temperature	Max. 200° C
Forced Cooling	Necessary
OPERATING CONDITION (Power Supply)	
Control	Constant Current & Power Control
Current Ripple (P-P)	Max 5%
Igniter Voltage	Min. AC23kV
Supply Voltage	Min. 140V

¹ Rated warranty life total visible output is more than 60% of initial value.

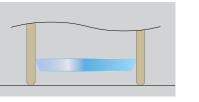
² Useful lifetime total visible output is more than 50% of initial value.



This drawing illustrates window contact on a surface which can cause window scratches and contamination.



UXR Series

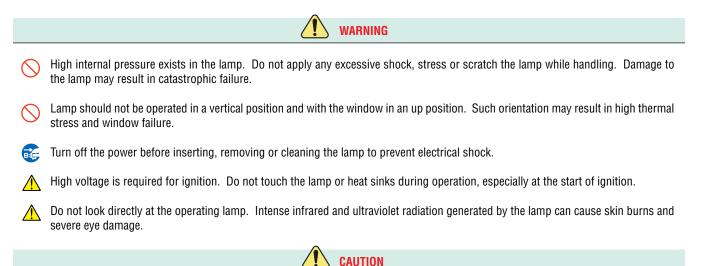


The USHIO UXR unique lamp design protects the front window from surface contact to help prevent scratching and contamination.



SPECIFICATIONS

Safety Instructions



- High temperature in the lamp is achieved during operation. Do not touch the lamp during operation and for at least 10 minutes after turning off.
- Do not operate the lamp near flammable gas or chemicals.
- Attach heat sinks on both bases and apply forced air cooling. Apply a sufficient amount of heat conductive grease on both bases to obtain proper thermal management conditions.
- Lamp must be fixed at the anode base only, leaving the cathode base free so as to reduce mechanical and thermal stress which could cause catastrophic failure. Read and follow all equipment instructions.
- The filling tip on the anode base of a used lamp should be removed in order to reduce the internal pressure of the lamp before disposal.

IMPORTANT OPERATION NOTES

- · Correct polarity and burning position are critical for lamp operation and maintenance.
- Lamp must be operated less than rated current.
- The glass window of the lamp should be free from dust and not touched by bare fingers or hand. In order to remove grease stains or dust, use a lint free alcohol wipe.
- Replace the lamp at end of life, when blackening occurs or when lamp flicker becomes severe.
- Remove the vinyl tube on the filling tip before installation.

Equipment shown in this catalog and any products using the equipment or technologies relating to the equipment fall under the category of security control relating to freight or technologies under the provisions of the Foreign Exchange and Foreign Trade Control Law. Permission needs to be obtained.

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