

USHIO

UXR-300ES

Electrical Characteristics

(Initial)

Lamp Power	260W
Operating Voltage ¹	13V
Rated Lamp Current	20A
Lamp Current Range	18~21A

Operating Condition

(Power Supply)

Power Supply	Constant Current Control Constant Power Control
Current Ripple (P-P)	Max 5%
Igniter Voltage	Min AC23kV
Supply Voltage	Min 140V

Specifications

Arc Gap [Non-Operation]	1.0mm
Wavelength	390~1000nm
Window Diameter	ф25.4
Reflector	Parabola
Rated Lifetime ²	500 Hours

Operating condition

(Lamp)

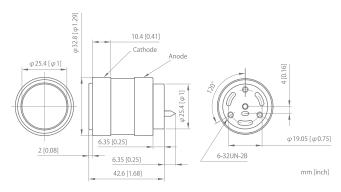
Operating Di	irection	Horizontal Direction
Onallina	Cermic body	Max 150°C
Cooling	Base	Max 200°C
Forced Cool	ing	Necessary

Initial Output³

(Representative Values)

Radiant Output	43W
Visible Output	3250Lm
Visible Output (5mm Aperture)	1400Lm
Color Temperature	6100K

Appearance



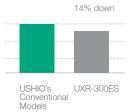
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 $^{^{\}rm 1}$ Operating current: 20A $^{\rm 2}$ Visible output (5mm aperture) is reduced to 50% of the initial value. $^{\rm 3}$ Operating current: 20A

Power Conservation Through Low Power Design

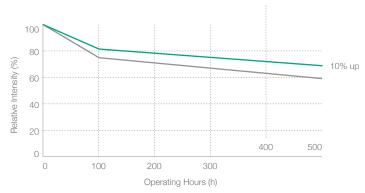
14% power reduction compared to USHIO's conventional models.

USHIO's Conventional Models	300W
UXR-300ES	260W



High Illuminance Maintenance Ratio

Provides increased illuminance maintenance ratio compared to USHIO's Conventional Models





Easy to Install Terminal Structure

Special lamp mounting structure reduces work load of lamp replacement Replace lamp without worrying about heat sink positioning.







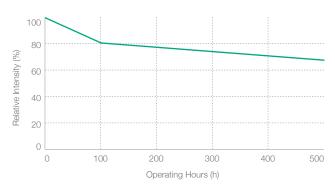
USHIO's Conventional Models

UXR-300ES

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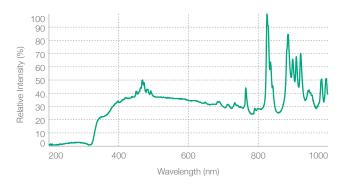
Visible Output (5mm Aperture) Degradation

Reference value for operating at rated lamp current



Spectral Distribution

Reference value when lamp is lit at rated lamp current



- Correct polarity and burning position are critical.
- Lamp must be operated less than rated current.
- Window of the lamp should be free from bare hands or dust. In order to remove grease stains or dust, use alcohol soaked clothes.
- Replace the lamp at its life end, or when blackening becomes thicker or flickering of the output becomes severe.
- Remove the vinyl tube on the filling tip before installation.

Safety Instructions

- High internal pressure exists in the lamp. Do not apply any excessive shock, stress, or scratch to the lamp while handling. Otherwise the lamp may burst resulting in catastrophic failure.
- Lamp should not be operated within 45° of vertical with the window up. Otherwise thermal stress can cause window failure.
- Turn off the power before inserting, removing or cleaning the lamp, otherwise it could cause electrical shock.
- ⚠ High voltage is required for ignition. Do not touch the lamp nor heat sinks during operation, especially in the instant of ignition.
- Do not look directly at the operating lamp.
 Intense infrared and ultraviolet radiation generated by the lamp can cause skin burns and severe eye damage.

- High temperature is built up during operation. Do not touch the lamp during operation and for 10 minutes, at least, 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 heat conductive grease on both bases sufficiently to obtain appropriate cooling condition.
- Lamp must be fixed at the anode base only, leaving cathode base free. Otherwise mechanical and thermal stress may cause explosion.
 Read all equipment instructions as well.
- The filling tip on the anode base of a replaced lamp should be cut off in order to reduce the internal pressure of the lamp.