

COLORLITE™ SERIES

- Consistent Color
- High Color Saturation
- No Color Filter or Gels Required for Fixture
- 6,000 Hours Useful Life



Watts (W)	Ordering Code	Lamp Description	Amperage (A)	Dimensions			Luminous			ANSI Ballast/ Fixture	Burn Position	Case Qty
				Dia (mm)	MOL (mm)	LCL (mm)	Flux (lm)	Wavelength (nm)	Saturation (%)			
Single-Ended Medium Screw Base – E26												
150	5001498	UHI-S150/MAGENTA	1.80	54	138	86	7500	-530	43	M102/E	Univ	12
175	5001455	UHI-S175/E26/BLUE	1.50	54	138	86	3900	470	70	M57/E	Univ	6
Single-Ended Mogul Screw Base – E39												
400	5000948	UHI-S400MG, MAGENTA	3.25	46	275	175	21000	-540	25	M59/E	Univ	12

Recommended Ignition Voltage: 4kV

* Need ignitor with 4kV

Lamp should be switched off for at least 15 minutes/week

Use only in fixtures installed with safety glass.

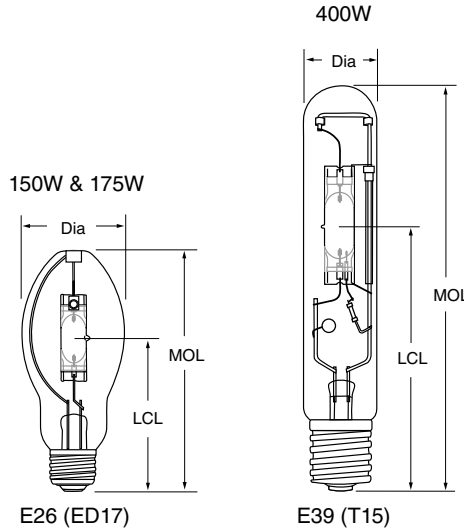
/E = Enclosed Fixture Required.

Use only in fixtures installed with tempered safety glass.

Average Life:


ED17 – 150W, 175W = 6000 hours

T15 – 400W = 8000 hours



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⚠ CALIFORNIA PROPOSITION 65 WARNING:
These products can expose you to Mercury known to the state
of California to cause birth defects or other reproductive harm.
For more information, please go to: www.p65warnings.ca.gov

(Hg) contains mercury
contient du mercure 
Manage in Accord with Disposal Laws
www.lamprecycle.org 1-800-895-8842

UV METAL HALIDE • SINGLE & DOUBLE ENDED

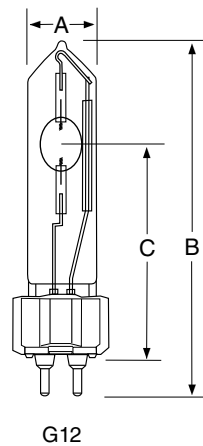
MHL

- For Blacklight Special Effects
- Only Use in UV Protective Housing!

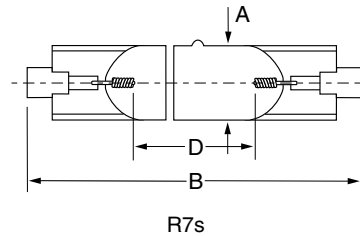


Watts (W)	Ordering Code	Lamp Description	Volts (V)	Spectral Range (nm)	Dimensions (mm)				Avg Life (h)	Base Type	Contact Type
					Dia (A)	MOL (B)	LCL (C)	Arc Gap (D)			
Single Ended Metal Halide - G12 Base											
70	5001468	MHL-70	95	300-450	23.0	102	56	—	500	G12	—
150	5001381	MHL-150	100	300-450	23.0	99	56	—	500	G12	—
Double Ended Metal Halide - R7s Base											
250	5000089	MHL-250	125	300-450	15.5	68	—	18	500	RSC	R7s
400	5000803	MHL-400/XX	130	300-450	13.5	106	—	32	500	RSC	R7s
450	5000114	MHL-450	140	300-450	16.3	106	—	31	500	RSC	R7s

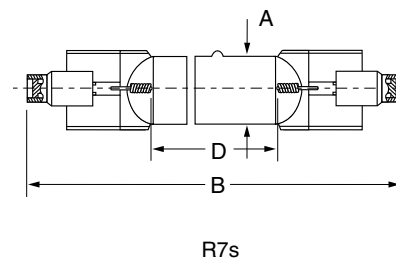
70W & 150W



250W



450W



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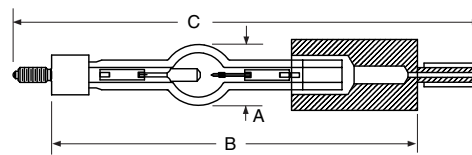
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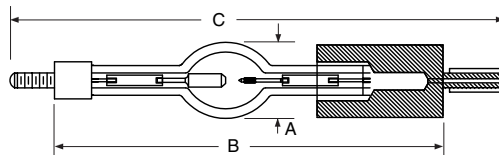
SMH

- High Brightness
- 5700K-6000K Daylight Color Temperature

Watts (W)	Ordering Code	Lamp Description	Volts (V)	Amperage (A)	Dimensions (mm)			Arc Gap (mm)	Color Temp (K)	Luminous Flux (lm)	Avg Life (h)	Burn Position
					Dia (A)	LCL (B)	MOL (C)					
SMH EmArc® Enhanced Metal Arc – Double Ended Metal Halide												
600	5001335	SMH-600/SC1	68	8.8	16.5	100.0	131	3.0	5700	45000	1000	Hor
850	5001477	SMH-850/D2	90	9.4	21	104.5	138	3.5	6000	70000	1000	Hor
850	5001634	SMH-850/SB1	90	9.4	21	104.5	138	3.5	6000	70000	1000	Hor
850	5001470	SMH-850/SC1	90	9.4	21	104.5	138	3.5	6000	70000	1000	Hor



600/SC



SMH-850/D2
SMH-850/SB1
SMH-850/SC1

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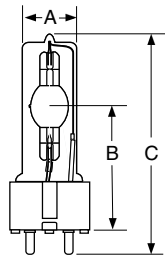
METAL HALIDE LAMPS • SINGLE ENDED

USD & USR

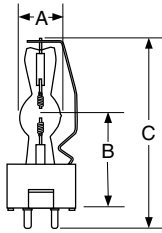
- Compact Design
- High Brightness
- Daylight Color Temperature
- Universal Burn Position



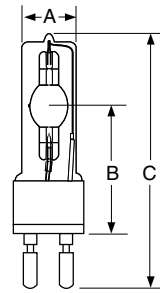
Watts (W)	Ordering Code	Lamp Description	Volts (V)	Nominal Dimensions (mm)			Arc Gap (mm)	Color Temp (K)	Luminous Flux (lm)	Avg Life (h)	Base Type
				Dia (A)	LCL (B)	MOL (C)					
USD – Single Ended Metal Halide											
250	5002003	USD-250/2	95	23	55	108	5.0	8500	18000	2000	GY9.5
USR – Single Ended Metal Halide											
575	5002008	USR-575/2	95	30	65	125	7.0	7800	44000	1000	GX9.5
700	5002010	USR-700SA	70	30	39	85	4.0	5600	56000	750	GY9.5
1200	5002392	USR-1200/2	87	40	85	175	10	1200	100000	1000	G22



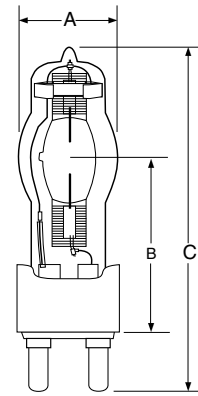
USD-250/2S



USR-700/SA



USR-575/2



USR-1200/2

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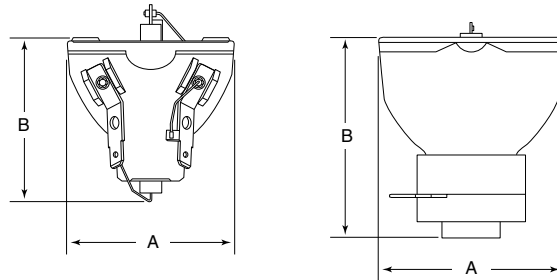
SUPER HIGH-PRESSURE DISCHARGE LAMPS

U-STAGE - NSL

- High Pressure Short Arc Lamps
- High Lumen Output
- Long Life
- High Color Temperature - 8000K
- Available in 132W, 189W, 300W, 330W



Watts (W)	Ordering Code	Lamp Description	Volts (V)	Dimensions (mm)		Arc Gap (mm)	Color Temp (K)	Lumen Output (lm)	Working Distance (mm)	Avg Life (h)	Burn Position
				Dia (A)	MOL (B)						
U-STAGE NSL for Moving Stage Lights											
132	5002463	NSL-132 (2R)	69	46	45	0.8	8000	5150	37.7	6000	ANY
189	5002464	NSL-189 (5R)	75	51	56	0.9	8000	8000	34.5	2000	ANY



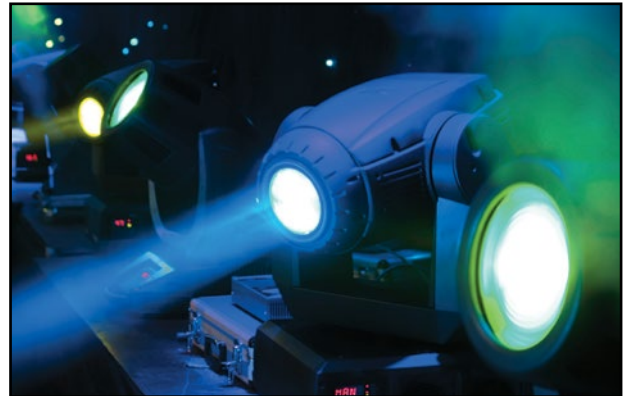
SUPER HIGH-PRESSURE DISCHARGE LAMPS FOR MOVING STAGE LIGHTS

U-stage lamps from Ushio are a series of super high-pressure discharge lamps pre-aligned into a reflector to deliver a high luminosity and a highly reliable light source. This optimized compact design makes the U-stage lamps the ideal light source for high-performance moving stage lights.

As a leader in projector lamp technology, Ushio has a long history of developing short-arc discharge lamp targeting longer life, higher brightness and higher efficiency.

Applications:

- Moving Lights
- Stage
- Concert
- Night Clubs



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METAL HALIDE LAMPS WITH REFLECTOR

MHR

- Cold Mirror Reflector
- Compact Design
- Standard AMP Connector
- Aligned to a Fiber During Manufacturing



Watts (W)	Ordering Code	Lamp Description	Volts (V)	Ignition Voltage (kV)	Lamp Current (A)	Luminous Flux through Aperture			Color Temp (K)	CRI	Avg Life (h)	ANSI Ballast/ Fixture	Case Qty
						ø13mm distance 42mm (lm)*	ø10mm distance 44mm (lm)*	ø25mm distance 33mm (lm)**					
AMP Connector													
100	5000789	MHR-100D	95	4	1.2	1600	1800	4600	5200	72	6000	M90/E	1
150	5000834	MHR-150N	95	4	1.8	2000	2200	5300	4200	75	6000	M81/E	1
250	5001377	MHR-250N	100	4	3.0	3500 ▲	—	—	4200	72	4000	M80/E	1

- * Measurement taken with optical sphere
- ** Measurement taken through fiber bundle
- ▲ (ø13mm; distance 53mm)

/E = Enclosed Fixture Required.

Optimal distance from reflector to fiber (with ø13mm fiber bundle):

100W & 150W: 42mm
250W: 53mm

Length of Base Lead Wire: Approx. 75mm

Base Type: AMP Universal Mate-N-Lok
MHR-100D: 3 channel plug
MHR-100D/HR: 5 channel plug
MHR-150N: 5 channel plug
MHR-250N: 5 channel plug

Application Hints

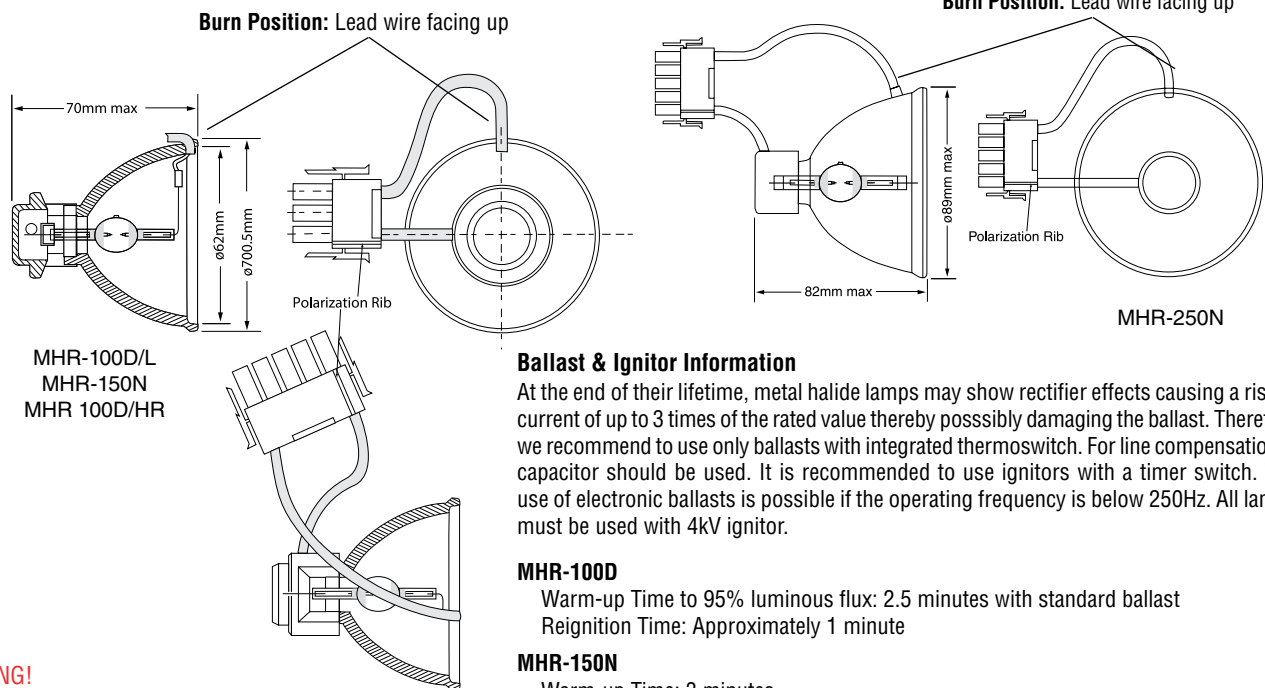
The optimal focal distance between the lamp and the fibre depends on the diameter of the fibre. A rough calculation of the optimal distance between lamp and fixture can be done by the following formula:

$$100/150W \quad Fd = 52mm - D * 0.77$$

$$250W \quad Fd = 64mm - D * 0.77$$

Fd(mm): Optimal distance between fiber and lamp
D(mm): Diameter of the fiber bundle

UV and IR radiation from the lamp may cause damage to synthetic fibers. Therefore, reflective or absorbing filters are recommended for use with synthetic fibers.



MHR-100D/L
MHR-150N
MHR 100D/HR

Ballast & Ignitor Information

At the end of their lifetime, metal halide lamps may show rectifier effects causing a rise in current of up to 3 times of the rated value thereby possibly damaging the ballast. Therefore we recommend to use only ballasts with integrated thermoswitch. For line compensation, a capacitor should be used. It is recommended to use ignitors with a timer switch. The use of electronic ballasts is possible if the operating frequency is below 250Hz. All lamps must be used with 4kV ignitor.

MHR-100D

Warm-up Time to 95% luminous flux: 2.5 minutes with standard ballast
Reignition Time: Approximately 1 minute

MHR-150N

Warm-up Time: 3 minutes
Reignition Time: Approximately 2 minutes

MHR-250N

Warm-up Time: 10 minutes
Reignition Time: Approximately 7 minutes

WARNING!

The lamp emits UV radiation which can cause serious eye and skin damage. Therefore, the lamp must be used only in closed lamp houses.

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