

COLORLITE™ SERIES

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



Please see Safety and Handling Instructions on page 89.

Watts	Ushio Ordering Code	Ushio Lamp Code	Volts	Lamp Current A	Dimensions			Luminous			ANSI Ballast/ Fixture	Burn Position	Case Qty
					Dia (A)	MOL (B)	LCL (C)	Flux lm	Wavelength nm	Saturation %			
Single Ended – E26 Medium Screw Base													
150	5001453	UHI-S150/E26/BLUE	—	1.80	2.13	5.43	3.39	3900	470	70	M102/E	Univ	12
150	5001452	UHI-S150/E26/GREEN	—	1.80	2.13	5.43	3.39	12500	530	46	M102/E	Univ	12
150	5001498	UHI-S150/E26/MAGENTA	—	1.80	2.13	5.43	3.39	7500	-530	43	M102/E	Univ	12
150	5001499	UHI-S150/E26/ORANGE	—	1.80	2.13	5.43	3.39	11200	600	54	M102/E	Univ	12
175	5001455	UHI-S175/E26/BLUE	—	1.50	2.13	5.43	3.39	3900	470	70	M57/E	Univ	12
175	5001454	UHI-S175/E26/GREEN	—	1.50	2.13	5.43	3.39	12500	530	46	M57/E	Univ	12
175	5001500	UHI-S175/E26/MAGENTA	—	1.50	2.13	5.43	3.39	7500	-530	43	M57/E	Univ	12
175	5001501	UHI-S175/E26/ORANGE	—	1.50	2.13	5.43	3.39	11200	600	54	M57/E	Univ	12
Single Ended – E39 Mogul Screw Base													
250	5001484	UHI-S250/E39/BLUE	—	3.00	1.81	8.86	5.91	5400	465	66	M80/E*	Univ	12
250	5001485	UHI-S250/E39/GREEN	—	3.00	1.81	8.86	5.91	21000	530	50	M80/E*	Univ	12
250	5001486	UHI-S250/E39/MAGENTA	—	3.00	1.81	8.86	5.91	11000	-560	29	M80/E*	Univ	12
250	5001487	UHI-S250/E39/ORANGE	—	3.00	1.81	8.86	5.91	17000	595	54	M80/E*	Univ	12
400	5000947	UHI-S400BL, BLUE	—	3.25	1.81	10.83	6.89	8000	465	66	M59/E	Univ	12
400	5000946	UHI-S400GR, GREEN	—	3.25	1.81	10.83	6.89	35000	535	63	M59/E	Univ	12
400	5000948	UHI-S400MG, MAGENTA	—	3.25	1.81	10.83	6.89	21000	500	25	M59/E	Univ	12
1000	5001189	UHI-S1000BL, BLUE	—	4.10	2.99	13.39	8.66	22000	455	61	M47/E	H#60°	6
1000	5001188	UHI-S1000GR, GREEN	—	4.10	2.99	13.39	8.66	92000	535	60	M47/E	H#60°	6
Double Ended – RX7s Base C-to-C													
150	5000821	UHI-150BL, BLUE	95	1.80	0.91	5.20	2.60	3000	465	55	M81/E	H#45°	10
150	5000822	UHI-150GR, GREEN	95	1.80	0.91	5.20	2.60	9500	535	51	M81/E	H#45°	10
150	5000824	UHI-150OR, ORANGE	95	1.80	0.91	5.20	2.60	10000	595	63	M81/E	H#45°	10

Recommended Ignition Voltage: 4kV

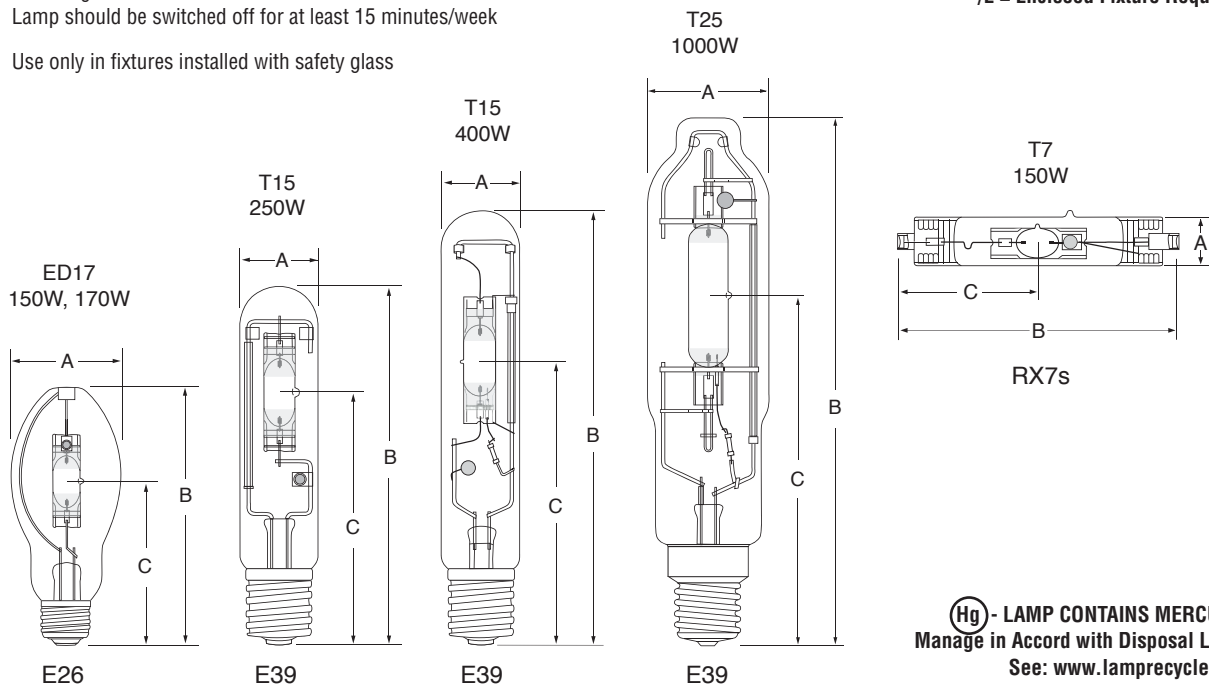
* Need ignitor with 4kV

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

Use only in fixtures installed with safety glass

All dimensions shown in inches unless otherwise noted.

/E = Enclosed Fixture Required



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 Manage in Accord with Disposal Laws
 See: www.lamprecycle.org

COMPACT METAL HALIDE LAMPS • SINGLE & DOUBLE ENDED

AQUALITE™ SERIES

- High Color Temperature - 10,000K
- Excellent Color Rendering
- Long Life
- Aquarium & Waterscape Applications



Please see Safety and Handling Instructions on page 89.

Watts	Ushio Ordering Code	Ushio Lamp Code	Lamp		Dimensions				CRI	Luminous Flux lm	Avg Life h	ANSI Ballast/ Fixture	Burn Position	Case Qty
			Volts	Current A	Dia (A)	MOL (B)	LCL (C)	Arc Gap						
Single Ended – E39 Mogul Screw Base														
mm														
175	5001586	UHI-S175AQ/65	132	1.5	1.81	8.31	5.00	16	70	11675	6000	M137*	Univ	12
175	5000761	UHI-S175AQ/10	132	1.5	1.81	8.31	5.00	16	90	7500	6000	M137*	Univ	12
175	5001591	UHI-S175AQ/14	132	1.5	1.81	8.31	5.00	16	70	7500	6000	M137*	Univ	12
175	5001592	UHI-S175AQ/20+	132	1.5	1.81	8.31	5.00	16	N/A	4300	6000	M137*	Univ	12
250	5001070	UHI-S250AQ/10/CWA	133	3.0	1.81	8.86	5.91	—	90	11000	8000	M58	Univ	12
250	5002092	UHI-S250AQ/14/CWA	133	3.0	1.81	10.04	5.91	—	70	11000	8000	M58	Univ	12
250	5002093	UHI-S250AQ/20/CWA	133	3.0	1.81	10.04	5.91	—	N/A	5000	8000	M58	Univ	12
400	5001492	UHI-S400AQ/10/CWA	N/A	3.6	1.81	10.83	6.89	—	90	18500	8000	M59	Univ	12
400	5002094	UHI-S400AQ/14/CWA	N/A	3.6	1.81	10.04	5.91	—	70	18500	8000	M59	Univ	12
400	5002095	UHI-S400AQ/20/CWA	N/A	3.6	1.81	10.83	6.89	—	N/A	8000	8000	M59	Univ	12
400	5000760	UHI-S400AQ/10	120	4.0	1.81	10.83	6.89	40	90	18500	8000	M135*	Univ	12
400	5001608	UHI-S400AQ/14	120	3.2	1.81	10.83	6.89	40	70	18500	6000	M135*	Univ	12
400	5001607	UHI-S400AQ/20+	120	3.2	1.81	10.83	6.89	40	N/A	8000	6000	M135*	Univ	12
1000	5000910	UHI-S1000AQ/10	122	9.5	3.00	13.39	8.66	72	90	50000	3000	M83**	H±60°	6
1000	5001493	UHI-S1000AQ/10/CWA		4.1	3.00	11.42	8.28	—	90	46000	3000	M47	H±60°	6
Double Ended – RX7s & Fc2/18 Base														
C-to-C mm														
75	5000870	UHI-70AQ/10	95	0.9	0.79	4.50	2.24	16	80	3100	6000	M85**	H±45°	10
75	5001627	UHI-70AQ/14	95	0.9	0.79	4.50	2.24	16	90		6000	M85**	H±45°	10
75	5001606	UHI-70AQ/20+	95	0.9	0.79	4.50	2.24	16	N/A	1700	6000	M85**	H±45°	10
150	5000440	UHI-150AQ/10	95	1.8	0.91	5.20	2.60	18	90	7000	6000	M81**	H±45°	10
150	5001587	UHI-150AQ/14	95	1.8	0.91	5.20	2.60	18	70	6000	6000	M81**	H±45°	10
150	5001588	UHI-150AQ/20+	95	1.8	0.91	5.20	2.60	18	N/A	3000	6000	M81**	H±45°	10
250	5000763	UHI-250AQ/10	100	3.0	0.98	5.47	2.74	24	90	10500	6000	M80**	H±45°	10
250	5001589	UHI-250AQ/14	100	3.0	0.98	5.47	2.74	24	70	10600	6000	M80**	H±45°	10
250	5001590	UHI-250AQ/20+	100	3.0	0.98	5.47	2.74	24	N/A	5000	6000	M80**	H±45°	10

Recommended Ignition Voltage: 4kV

*Pulse type ballast with ignitor **Need ignitor with 4kV

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

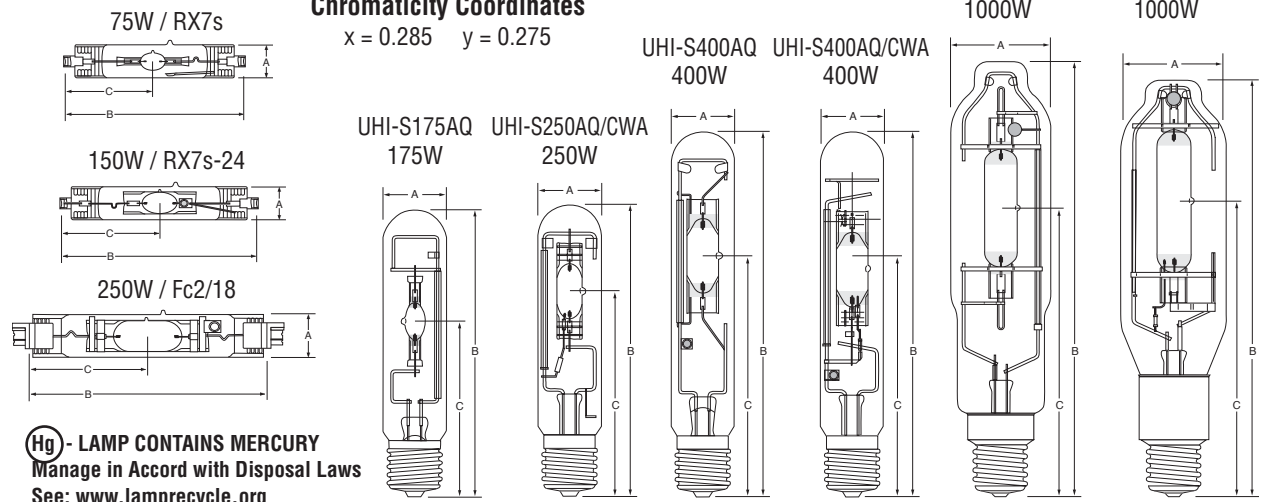
All dimensions shown in inches unless otherwise noted.

Enclosed Fixture Required

For architectural use – UV protective glass is necessary

Chromaticity Coordinates

x = 0.285 y = 0.275



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MHR SERIES

- Cold Mirror Reflector
- Compact Design
- Standard AMP Connector

Please see Safety and Handling Instructions on page 89.

Watts	Ushio Ordering Code	Ushio Lamp Code	Volts	Ignition Voltage kV	Lamp Current A	Luminous Flux through Aperature Im*	Luminous Flux through Aperature Im*	Luminous Flux through Aperature Im**	Color Temp K	CRI	Avg Life h	ANSI Ballast/Fixture
AMP Connector												
150	5000834	MHR-150N	95	4	1.8	2000	2200	5300	4200	75	6000	M81/E

Optimal distance from reflector to fiber
(with ø13mm fiber bundle):
100W & 150W: 42mm
250W: 53mm

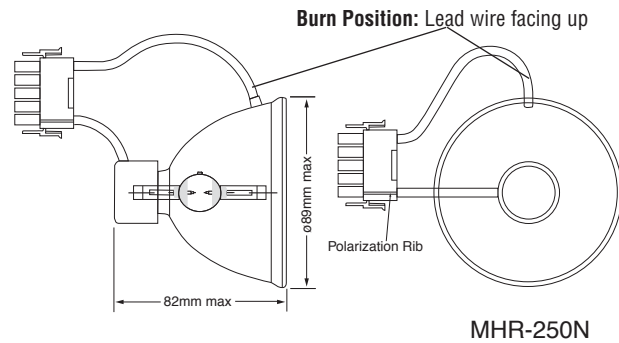
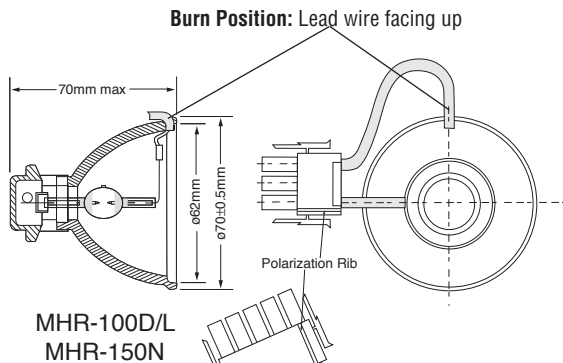
Length of Base Lead Wire: Approx. 75mm

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



/E = Enclosed Fixture Required

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



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/L

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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