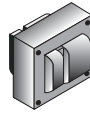


**LUMALUX® High Pressure Sodium Core & Coil Ballast Kits**



**250W-310W  
HPS  
C&C Kits**

Item #	OSRAM SYLVANIA Description	Input Voltage (V <sub>AC</sub> )	Circuit Type	Input Power (Watts)	Max. <sup>14</sup> Input Current (Amps)	Nom. Open Circuit Voltage	Fuse Rating (Amps)	Ballast Dimensions (inches)			Wiring Dia.	Dry Capacitor <sup>15</sup>		Ignitor <sup>18</sup> Fig.	Max. Dist. to lamp (feet)	Packaging		UL Bench Top Rise Code 1029
								Fig.	A	B		Mfd	Min. V <sub>AC</sub>			Qty.	Approx. Ballast Weight (lbs ea)	
<b>250W High Pressure Sodium Lamp - ANSI Code S50</b>																		
47634	LU250/SUPER5-KIT	120/208/240/277/480	CWA	295	2.5/1.5/1.3/1.1/0.7	190	10/4/4/3/2	N	2.0	4.0	34	35	240	A-2	2	1	12.8	A/A/A/A
47357	LU250/MULTI-KIT	120/208/240/277	CWA	295	2.5/1.5/1.3/1.1	185	8/5/4/4	N	1.8	3.5	29	35	240	A-2	2	1	11.6	A/B/A/A
47358	LU250/480-KIT	480	CWA	295	0.7	185	2	N	1.8	3.5	32	35	240	A-2	2	1	12.0	B
47637	LU250/480/120T-KIT	480/120 TAP	CWA	295	0.7	185	2	N	1.8	3.5	33	35	240	A-2	2	1	12.0	B
47642	LU250/120/277-KIT	120/277	CWA	295	2.5/1.1	185	7/3	N	1.8	3.5	44	35	240	A-2	2	1	12.0	A/A
<b>310W High Pressure Sodium Lamp - ANSI Code S67</b>																		
47643	LU310/MULTI-KIT	120/208/240/277	CWA	355	3.0/1.7/1.5/1.3	185	8/5/5/5	N	2.2	4.0	29	45	280	A-2	2	1	14.0	C/B/B/B
47644	LU310/480-KIT	480	CWA	355	0.8	185	2	N	2.2	3.8	32	45	280	A-2	2	1	14.3	D

**Specifications**

**Starting Method:** Pulse Start  
**Min. Starting Temp:** -40°F (-40°C)  
**Input Frequency:** 60 Hz  
**Power Factor:** (min) 90%  
**Insulation Class:** H (180°C)  
**Lead Length:** 12 inches

14: Data based on highest current listed for operating, open circuit or starting current.

15: For additional information on capacitors see pages 74-77.

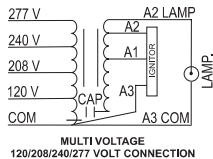
18: For additional information on ignitors see pages 78-79.

For information on brackets and clips see pages 74-77.

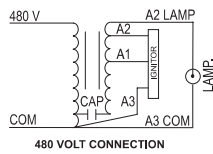
LUMALUX High Pressure Sodium Magnetic Ballast Kits include core & coil, capacitors, ignitors, brackets, mounting hardware and installation instructions.

High voltage pulse present on open circuit. Ballast is compatible with other manufacturer's equivalent lamp types that meet ANSI standards.

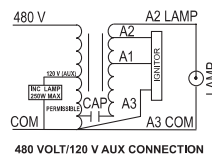
Additional product information is available at [www.sylvania.com](http://www.sylvania.com)



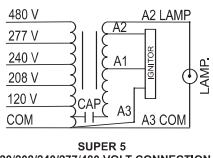
**Wiring Diagram 29**



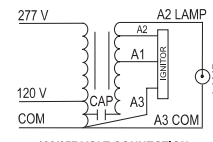
**Wiring Diagram 32**



**Wiring Diagram 33**



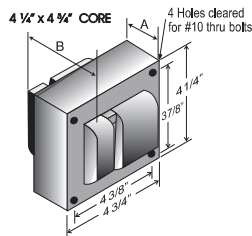
**Wiring Diagram 34**



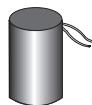
**Wiring Diagram 44**

**Ground Ballast Core**

**Figure N**

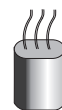


**Capacitor**



**Figure A-2 Ignitor**

**OVAL CASE**



**Warranty**

SYLVANIA magnetic ballasts are covered by our Magnetic Ballast Limited Warranty and our comprehensive Metal Halide and High Pressure Sodium Limited HID System Warranty. For Warranty details go to [www.sylvania.com](http://www.sylvania.com)

**Ordering Catalog**

Specifications subject to change without notice.

Item Number 47634 LU 250 SUPER5 KIT Packaging \_\_\_\_\_  
 Lamp Type: LUMALUX High Pressure Sodium \_\_\_\_\_ Line Voltage \_\_\_\_\_  
 Lamp Wattage \_\_\_\_\_

# SYLVANIA Lamp & Ballast Kits

Watts	Lamp & Ballast Kit Item #	OSRAM SYLVANIA Description	ANSI Code	Pkg. Qty.	Ballast Product #	Ballast Page #	Input Voltage (VAC)	Circuit Type	Lamp Product # <sup>23</sup>	Bulb	Lamp Base <sup>24</sup>	Fix Req
<b>METALARC® METAL HALIDE LAMP &amp; BALLAST KITS</b>												
Lamp & Ballast Kits include SYLVANIA METALARC® Metal Halide lamp												
175	64782	M175/U LAMP/SUPER5 BALLAST KIT	M57/E	1	47243	46	120/208/ 240/277/ 480	CWA	64471	BT28	Mogul	E <sup>22</sup>
250	64784	M250/U LAMP/SUPER5 BALLAST KIT	M58/E	1	47265	46	120/208/ 240/277/ 480	CWA	64457	BT28	Mogul	E <sup>22</sup>
360	64847	MS360/SS LAMP/SUPER5 BALLAST KIT	M59/S	1	47338 <sup>16</sup>	47	120/208/ 240/277/ 480	CWA	64655	BT37	Mogul	S <sup>21</sup>
400	64781	M400/U LAMP/SUPER5 BALLAST KIT	M59/S	1	47338	47	120/208/ 240/277/ 480	CWA	64490	BT37	Mogul	S <sup>21</sup>
1000	64848	M1000/U LAMP/SUPER5 BALLAST KIT	M47/S	1	47427	48	120/208/ 240/277/ 480	CWA	64468	BT56	Mogul	S <sup>21</sup>

<b>LUMALUX® HIGH PRESSURE SODIUM LAMP &amp; BALLAST KITS</b>												
Lamp & Ballast Kits include SYLVANIA LUMALUX® High Pressure Sodium lamp												
100	67621	LU100/ECO LAMP/MULTI-BALLAST KIT	S54	1	47316	58	120/208/ 240/277	HX-HPF <sup>25</sup>	67514	ET23.5	Mogul	0
150	67629	LU150/55/ECO LAMP/MULTI BALLAST KIT	S55	1	47335	59	120/208/ 240/277	HX-HPF <sup>25</sup>	67516	ET23.5	Mogul	0
250	67622	LU250/ECO LAMP/SUPER5 BALLAST KIT	S50	1	47634	60	120/208/ 240/277/ 480	CWA <sup>25</sup>	67578	ET18	Mogul	0
400	67623	LU400/ECO LAMP/SUPER5 BALLAST KIT	S51	1	47647	61	120/208/ 240/277/ 480	CWA <sup>25</sup>	67533	ET18	Mogul	0
1000	67664	LU1000 LAMP/SUPER5 BALLAST KIT	S52	1	47659	62	120/208/ 240/277/ 480	CWA <sup>25</sup>	67307	E25	Mogul	0

16: A 360W Metal Halide lamp ANSI Code M59 operated on this ballast will result in approximately a 10% reduction in Input Power (Watts).

21: S = When operated within 15 degrees of vertical, this lamp may be operated in an open luminaire provided the installation is not near people or flammable or combustible material, otherwise it must be operated in a suitably enclosed luminaire. See lamp warning. The 360W, 400W and 1000W METALARC lamps may be operated in enclosed or OPEN fixtures.

22: E = Lamp classified as E-type are to be used ONLY in suitably enclosed luminaires. See lamp warning.

23: All metal halide and high pressure sodium lamps may be operated in any position except for 360W lamps, which operates base-up through horizontal.

24: For lamp wattages of 360W and greater, it is recommended that lampholders with nickel plated copper alloy center contacts (with spring) should be used rather than contacts made of stainless steel.

25: Use with 4000V pulse rated sockets only.

Additional product information is available at [www.sylvania.com](http://www.sylvania.com)

**Hg LAMP CONTAINS MERCURY**  
 Manage in Accordance with Disposal Laws  
 See: [www.lamprecycle.org](http://www.lamprecycle.org) or 1-866-666-6850

## ORDERING GUIDE

M M = METALARC MS = METALARC SUPER LU = LUMALUX	175 Wattage: 100, 150, 175, 250, 360, 400 or 1000 watts	/	SS SUPERSAVER	/	U Operating Position: Universal or BU-HOR	/	MULTI/SUPER5-BALLAST KIT MULTI-TAP or SUPER5 Ballast Kit
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### WARNING:

Metal halide lamps can cause serious skin burn and eye inflammation from shortwave Ultraviolet radiation if the outer envelope of the lamp is broken or punctured. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available.

### SPECIFICATIONS:

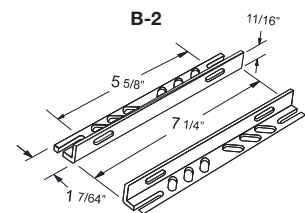
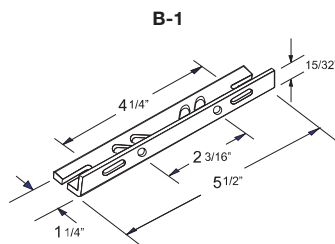
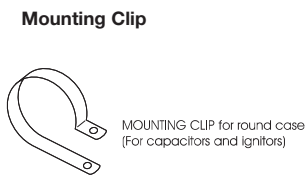
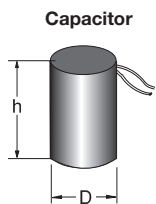
Information in this catalog subject to change at anytime without prior notice.

# Magnetic High Intensity Discharge Capacitors and Kit Accessories

SYLVANIA supplies pre-wired dry type capacitors in all kits. The dry film capacitor thermal plastic maximum case temperature is 100°C. They contain no oil, are furnished with 12" leads and include integral resistor where required. Dry film capacitors contain no PCB's.

## HID Capacitors & Accessories

Item #	OSRAM SYLVANIA Description	ANSI Code	Capacitor				Bracket Type	Page #
			Mfd (±3%)	Min VAC	Height (h) inches	Diameter (D) inches		
<b>LUMALUX® High Pressure Sodium Core &amp; Coil Ballast Kits</b>								
47335	LU150/MULTI-KIT	S55	14	280	2.90	1.50	B-1	59
47619	LU150/480-KIT	S55	14	280	2.90	1.50	B-1	59
47621	LU150/480/120T-KIT	S55	14	280	2.90	1.50	B-1	59
47617	LU150/120/277-KIT	S55	14	280	2.90	1.50	B-1	59
47623	LU150/480-CWA-KIT	S55	55	170	5.00	1.75	B-1	59
47628	LU200/MULTI-KIT	S66	28	240	3.75	1.75	B-2	59
47631	LU200/480-KIT	S66	28	240	3.75	1.75	B-2	59
47634	LU250/SUPER5-KIT	S50	35	240	5.00	1.75	B-2	60
47357	LU250/MULTI-KIT	S50	35	240	5.00	1.75	B-2	60
47358	LU250/480-KIT	S50	35	240	5.00	1.75	B-2	60
47637	LU250/480/120T-KIT	S50	35	240	5.00	1.75	B-2	60
47642	LU250/120/277-KIT	S50	35	240	5.00	1.75	B-2	60
47643	LU310/MULTI-KIT	S67	45	280	4.88	1.75	B-2	60
47644	LU310/480-KIT	S67	45	280	4.88	1.75	B-2	60
47647	LU400/SUPER5-KIT	S51	55	240	5.00	1.75	B-2	61
47364	LU400/MULTI-KIT	S51	55	240	5.00	1.75	B-2	61
47376	LU400/480-KIT	S51	55	240	5.00	1.75	B-2	61
47657	LU400/480/120T-KIT	S51	55	240	5.00	1.75	B-2	61
47656	LU400/120/277-KIT	S51	55	240	5.00	1.75	B-2	61
47712	LU750/MULTI-KIT	S111	37.5	280	5.00	1.75	B-2	62
47658	LU750/480-KIT	S111	37.5	280	5.00	1.75	B-2	62
47659	LU1000/SUPER5-KIT	S52	26	525	4.90	2.63	B-2	62
47389	LU1000/MULTI-KIT	S52	26	525	4.90	2.63	B-2	62
47391	LU1000/480-KIT	S52	26	525	4.90	2.63	B-2	62
<b>MERCURY CORE &amp; COIL BALLAST KITS</b>								
46518	H50/MULTI-KIT	H46	7	280	2.90	1.38	B-1	63
46519	H75/MULTI-KIT	H43	8	280	2.90	1.38	B-1	63
46522	H100/MULTI-KIT	H38 or H44	10	280	2.90	1.50	B-1	63
47472	H100/277-KIT	H38 or H44	10	280	2.90	1.50	B-1	63
47471	H100/DUAL-KIT	H38 or H44	10	280	2.90	1.50	B-1	63
47489	H175/MULTI-KIT	H39	17.5	240	3.75	1.50	B-1	64
47490	H175/480-KIT	H39	17.5	240	3.75	1.50	B-1	64
47499	H250/MULTI-KIT	H37	22.5	280	3.75	1.75	B-1	64
47500	H250/480-KIT	H37	22.5	280	3.75	1.75	B-1	64
46531	H250/480/120T-KIT	H37	22.5	280	3.75	1.75	B-1	64
47509	H400/MULTI-KIT	H33	35	240	5.00	1.75	B-2	65
47510	H400/480-KIT	H33	35	240	5.00	1.75	B-2	65
46533	H400/480/120T-KIT	H33	35	240	5.00	1.75	B-2	65
47517	H2X400/120-KIT (Kit contains two capacitors)	H33	32	300	3.90	1.81	B-2	65
47518	H2X400/277-KIT (Kit contains two capacitors)	H33	32	300	3.90	1.81	B-2	65
47524	H1000/MULTI-KIT	H36	24	480	5.00	2.20	B-2	65
47525	H1000/480-KIT	H36	24	480	5.00	2.20	B-2	65



Specifications subject to change without notice.

# Magnetic High Intensity Discharge Ignitors

For SYLVANIA HID Ballasts Only

## HID Ignitors

Item #	OSRAM SYLVANIA Description	ANSI Code	Ignitor Dimensions (inches)					Page #	Replacement Ignitor Item #	OSRAM SYLVANIA Replacement Ignitor Description
			Figure	Diameter (D)	Height (H)	Length (L)	Max. Distance to lamp (feet)			
<b>LUMALUX® HIGH PRESSURE SODIUM CORE &amp; COIL REACTOR BALLAST</b>										
47269	LU35/120R	S76	A-3	1.38	2.40	—	2	57	—	—
47274	LU50/120R	S68	A-3	1.38	2.40	—	2	57	—	—
47284	LU70/120R	S62	A-3	1.38	2.40	—	2	57	—	—
47304	LU100/120R	S54	A-3	1.38	2.40	—	2	57	—	—
47319	LU150/120R	S55	A-3	1.38	2.40	—	2	57	—	—
<b>LUMALUX® HIGH PRESSURE SODIUM CORE &amp; COIL BALLAST KITS</b>										
47271	LU35/120/240-KIT	S76	A-2	1.17	2.50	1.90	2	58	47843	37-63-AS-9.1-N7
47549	LU50/120/277-KIT	S68	A-2	1.17	2.50	1.90	2	58	47843	37-63-AS-9.1-N7
47301	LU70/MULTI-KIT	S62	A-2	1.17	2.50	1.90	2	58	47843	37-63-AS-9.1-N7
47579	LU70/480-KIT	S62	A-2	1.17	2.50	1.90	2	58	47843	37-63-AS-9.1-N7
47571	LU70/120/277-KIT	S62	A-2	1.17	2.50	1.90	2	58	47843	37-63-AS-9.1-N7
47316	LU100/MULTI-KIT	S54	A-2	1.17	2.50	1.90	2	58	47843	37-63-AS-9.1-N7
47593	LU100/480-KIT	S54	A-2	1.17	2.50	1.90	2	58	47843	37-63-AS-9.1-N7
47592	LU100/120/277-KIT	S54	A-2	1.17	2.50	1.90	2	58	47843	37-63-AS-9.1-N7
47335	LU150/MULTI-KIT	S55	A-2	1.17	2.50	1.90	2	59	47843	37-63-AS-9.1-N7
47619	LU150/480-KIT	S55	A-2	1.17	2.50	1.90	2	59	47843	37-63-AS-9.1-N7
47621	LU150/480/120T-KIT	S55	A-2	1.17	2.50	1.90	2	59	47843	37-63-AS-9.1-N7
47617	LU150/120/277-KIT	S55	A-2	1.17	2.50	1.90	2	59	47843	37-63-AS-9.1-N7
47623	LU150/480-CWA-KIT	S55	A-2	1.17	2.50	1.90	2	59	47843	37-63-AS-9.1-N7
47628	LU200/MULTI-KIT	S66	A-2	1.17	2.50	1.90	2	59	47844	37-63-AS-6.9-N6
47631	LU200/480-KIT	S66	A-2	1.17	2.50	1.90	2	59	47844	37-63-AS-6.9-N6
47634	LU250/SUPER5-KIT	S50	A-2	1.17	2.50	1.90	2	60	47844	37-63-AS-6.9-N6
47357	LU250/MULTI-KIT	S50	A-2	1.17	2.50	1.90	2	60	47844	37-63-AS-6.9-N6
47358	LU250/480-KIT	S50	A-2	1.17	2.50	1.90	2	60	47844	37-63-AS-6.9-N6
47637	LU250/480/120T-KIT	S50	A-2	1.17	2.50	1.90	2	60	47844	37-63-AS-6.9-N6
47642	LU250/120/277-KIT	S50	A-2	1.17	2.50	1.90	2	60	47844	37-63-AS-6.9-N6
47643	LU310/MULTI-KIT	S67	A-2	1.17	2.50	1.90	2	60	47844	37-63-AS-6.9-N6
47644	LU310/480-KIT	S67	A-2	1.17	2.50	1.90	2	60	47844	37-63-AS-6.9-N6
47647	LU400/SUPER5-KIT	S51	A-2	1.17	2.50	1.90	2	61	47844	37-63-AS-6.9-N6
47364	LU400/MULTI-KIT	S51	A-2	1.17	2.50	1.90	2	61	47844	37-63-AS-6.9-N6
47376	LU400/480-KIT	S51	A-2	1.17	2.50	1.90	2	61	47844	37-63-AS-6.9-N6
47657	LU400/480/120T-KIT	S51	A-2	1.17	2.50	1.90	2	61	47844	37-63-AS-6.9-N6
47656	LU400/120/277-KIT	S51	A-2	1.17	2.50	1.90	2	61	47844	37-63-AS-6.9-N6
47712	LU750/MULTI-KIT	S111	A-2	1.17	2.50	1.90	5	62	47847	356-AS-7.9
47658	LU750/480-KIT	S111	A-2	1.17	2.50	1.90	5	62	47847	356-AS-7.9
47659	LU1000/SUPER5-KIT	S52	A-2	1.17	2.50	1.90	2	62	—	—
47389	LU1000/MULTI-KIT	S52	A-2	1.17	2.50	1.90	2	62	—	—
47391	LU1000/480-KIT	S52	A-2	1.17	2.50	1.90	2	62	—	—

Figure A-1

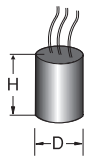


Figure A-2

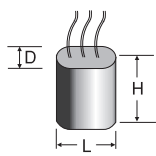
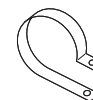
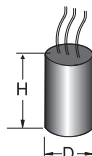
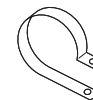


Figure A-3



MOUNTING CLIP for round case  
(For capacitors and ignitors)



MOUNTING CLIP for oval case  
(For ignitors)

Ignitors thermal plastic case, max. temp. 110°C

Specifications subject to change without notice.

OSRAM SYLVANIA National Customer Service and Sales Center  
1-800-LIGHTBULB (1-800-544-4828)  
www.sylvania.com

