



Source Four® 70 and 150 Watt HID Fixtures

Overview

The information in this document supersedes the information in the **Source Four User Manual** and the **Source Four Assembly Guide** in reference to HID fixtures. Refer to this document for lamp specification, lamp identification, lamp replacement, and ballast information for 70 and 150 watt (W) Source Four HID fixtures.



CAUTION: This fixture must be grounded.



CAUTION: Source Four HID fixtures are not dimmable. **Dimming will damage the ballast and void your warranty.**

General Information

- Source Four HID is suitable for damp locations.
- The fixture can be canopy mounted.
- The fixture **cannot** be recess mounted.
- HID ballasts **cannot** be remotely mounted from the fixture.

Lamps

Ceramic Metal Halide						
Part number	Lamp code	Watts	Initial Lumens	Color temp.	CRI	Average rated life
RT157	CDM150/T6/830	150	14,000	3000°K	85	12,000 hours
RT158	CDM150/T6/942	150	12,700	4200°K	96	12,000 hours
RT212	CDM70/T6/830	70	6600	3000°K	81	12,000 hours
RT214	CDM70/T6/942	70	6600	4200°K	92	12,000 hours



CAUTION: Do not use lamps other than the specified HID lamps in Source Four HID fixtures. **Use of lamps other than those specified below will void UL and cUL safety compliance and your warranty.**



CAUTION: Source Four 70 and 150W HID fixtures are not interchangeable. 70W lamps can only be used in 70W fixtures and 150W lamps can only be used in 150W fixtures. **Use of incorrect lamps will void the UL and cUL safety compliance, the warranty, and may damage the ballast.**



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Installing or replacing the HID Lamp

Source Four HID fixtures ship with a lamp, which must be installed before you use the fixture.

- Step 1: Disconnect the power before installing the lamp.
- Step 2: Loosen the brass knurled bolt on the back of the lamp housing and pull out the lamp burner assembly.
- Step 3: Remove the HID lamp from its box. Handle the lamp only by the base. Do not touch the glass envelope.
- Step 4: Align the flat sides of the lamp base with the retention clips on either side of the socket. The lamp is not polarized. It can be inserted either way in the socket.



Note: *To avoid premature lamp failure, do not touch the lamp glass. If you do, clean it with isopropyl alcohol and a clean, lint-free cloth. Allow to dry before operation.*

- Step 5: Push down on the lamp base until the lamp seats firmly.
- Step 6: Reinstall the lamp burner assembly by aligning the lamp into the reflector and the brass knurled bolt with the bolt hole and tightening the brass knurled bolt.

Ballast Information

- Acceptable voltage is 120V, 230V, or 277V ($\pm 10\%$) 50/60 Hz **only**. Ensure that you have the proper ballast for the input voltage at the installation.

Operating Current and Breaker Loading Guidelines for UL Fixtures			
Ballast Wattage	Run Current	Recommended 20A Breaker Load	Recommended 15A Breaker Load
150W	1.4A at 120V	Up to 10 units	Up to 7 units
	0.65A at 277V	Up to 15 units	Up to 10 units
70W	0.7A at 120V	Up to 15 units	Up to 10 units
	0.3A at 277V	Up to 20 units	Up to 15 units

Operating Current and Breaker Loading Guidelines for CE Fixtures C-Curve Breakers							
Ballast Wattage	Run Current	Recommended 30A Breaker Load	Recommended 25A Breaker Load	Recommended 20A Breaker Load	Recommended 16A Breaker Load	Recommended 13A Breaker Load	Recommended 10A Breaker Load
150W	0.7A at 230V	Up to 25 units	Up to 20 units	Up to 15 units	Up to 12 units	Up to 10 units	Up to 8 units
70W	0.4A at 230V	Up to 30 units	Up to 25 units	Up to 20 units	Up to 15 units	Up to 15 units	Up to 15 units

Operating Current and Breaker Loading Guidelines for CE Fixtures B-Curve Breakers			
Ballast Wattage	Run Current	Recommended 10A Breaker Load	Recommended 6A Breaker Load
150W	0.7A at 230V	Up to 5 units	Up to 3 units
70W	0.4A at 230V	Up to 8 units	Up to 5 units

- Room ambient temperature should not exceed 104°F (40°C).
- Lamp ignition voltage is 4.5kV, non-hot restrike.
- Ballast case temperature should not exceed 167°F (75°C).
- The ballast is attached to the Source Four fixture yoke by two screws and is non-removable.
- The ballast appearance may vary slightly from the illustration.
- Some fixtures may require an additional mounting bracket to attach the ballast to the yoke. Please contact ETC Customer Service for additional information regarding specific ballasts and brackets.

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CAUTION:

If so equipped, connectors must be rated for the appropriate line voltage. For example, parallel blade, U-ground (Edison) connectors can not be used in 230V or 277V situations.

Ballast Mounting

