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TROUBLESHOOTING GUIDE

Follow the troubleshooting tips below. If troubleshooting techniques fail, bring ballast back to your place of purchase with the original receipt from date of purchase to request warranty service. Any warranty is only valid from the original date of purchase, and does not reset if a replacement product is issued.

POSSIBLE CAUSE	CORRECTIVE MAINTENANCE
LAMP LOOSE IN SOCKET	Make sure that the lamp is fully inserted into the socket and that is has been locked in properly.
INCORRECT VOLTAGE	Make sure you are using the correct input voltage with ballast. If using incorrect voltage, disconnect the ballast from the power source immediately.
DEFECTIVE OR IMPROPER WIRING	Examine wiring to ensure it agrees with wiring diagrams on ballast label. Check connections to see that they are secure. If wiring a 240V ballast, DO NOT use a neutral. The correct wiring is two hot wires and a ground.
POOR ELECTRICAL CONNECTIONS	Check wiring and lamp contact with socket. Make sure the DE lamp wires are seated correctly in the sockets, and the sockets are in the closed and locked position.
INCORRECT LAMP	Verify that you are using a correct wattage Double Ended high frequency lamp.
LAMP DAMAGE	Investigate possibility of outer lamp damage. Look for broken tubes or loose metal parts. Replace lamp.

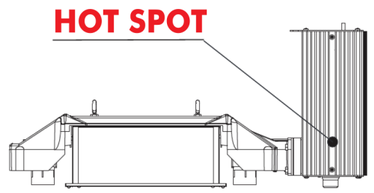
WARRANTY

This unit, when properly used and installation guidelines are followed will provide you with years of excellent service. The DE Iluminar Fixture is covered under a 3 year warranty and is free from any defect from the manufacture. The warranty is not applicable or valid if there was improper installation, or not installed by a licensed electrician. Most failures of DE units are from incorrect wiring or poor electrical planning and from improper Lamp installation. This warranty will be voided if the unit is misused, abused or altered. Warranty repair or replacement will be at the sole discretion of the manufacturer. Defective units need to be returned to the place of purchase with proof of purchase/receipt.

This warranty is expressly in lieu of all other warranties, expressed or implied, including the warranties of merchantability and fitness for use and of all other obligations or liabilities on the part of the seller. This warranty shall not apply to this product or any part thereof which has been damaged by accident, abuse, misuse, negligence, alteration or misapplication. Manufacturer and/or Dome Garden Supplies makes no warranty whatsoever in respect to accessories or parts not supplied by manufacturer. This warranty shall apply only to the United States, including Alaska, Hawaii and territories of the United States and Canada. This warranty does not cover return shipping, labor materials, travel time, equipment, or to de-install any lighting fixtures or other equipment.

ADVISORY STATEMENT	This product may cause interference to radio equipment and should not be installed near maritime safety communications equipment or other critical navigation or communication equipment operating between 0.45-30 MHz.
THE INTERFERENCE POTENTIAL OF THE DEVICE OR SYSTEM	The interference potential of the device or system is the operating frequency; < 9kHz.
MAINTENANCE OF THE SYSTEM	Unplug the unit, wait 30 seconds, and plug the unit back in.
SIMPLE MEASURES THAT CAN BE TAKEN BY THE USER TO CORRECT INTERFERENCE	Move the unit away from any radio device.

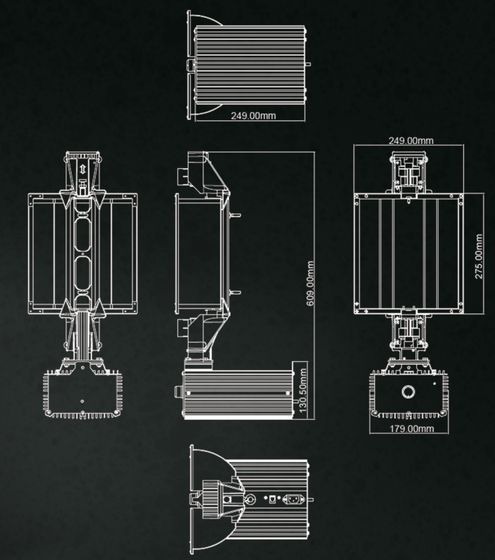
This product contains delicate electronic components. This means that if it is placed near an object that transmits radio signals, it could cause interference. This could be, for example, mobile telephones, walkie talkies, CB radios, remote controls and microwaves. If interference occurs, move such objects away from the appliance.



CASE MAX 75°C/167°F

ILUMINAR™

1000 WATT
750/600 WATT
600 WATT
Double Ended Fixture
120v/ 240v



THANK YOU, for purchasing the Iluminar DE Fixture! We always strive to deliver the best product possible and will do our best to make sure you are always satisfied. The following is a general set of warnings and basic guidelines for your product. Always have an expert(s) install your fixtures when possible.

DO NOT DISPOSE OF ORIGINAL PACKAGING – All returns will need to be in the original Iluminar packaging in order to avoid product damage during shipping. Any damage to products not in their original packaging will not be covered under warranty.

SAFETY FIRST! Failure to observe the following safety warnings and or instructions may result in serious injury. In addition, failure to follow these safety warnings can/will result in a waiver of all liabilities and will void all warranties.

WARNING!

- If the lamp is damaged in any way (cracks, loose internal connections), replace lamp immediately.
- When changing out the Lamp, make sure that the lamp has time to cool before touching.
- Make sure to wear proper gloves to protect from the transfer of oil from the skin to the lamps glass surface.
- Make sure lamp is correctly locked into the socket, properly securing the lamp.
- Make sure power cord and lamp cord are connected properly.
- Disconnect power before changing the lamp.
- DO NOT support the ballast by power or the lamp cord, it is not designed to hold weight
- DO NOT make any contact with the interior of the socket while power is on, ever.
- DO NOT operate the Iluminar DE systems in wet or damp conditions above 75% humidity
- DO NOT plug system into untested or unidentified voltage other than what is designated on ballast.
- DO NOT attempt to rewire, alter, modify or reconfigure your system. If done, it will void warranty and could cause serious safety hazards. It may cause bodily injury or death as this is a high amperage or voltage electrical device. (e.g. power cord, lamp cord, lamp socket or ballast).
- Keep away from children.
- DO NOT submerse in water or splash water on the unit.
- DO NOT use this with a flip or switch box system, it will void the warranty.
- DO NOT plug or unplug the lamp cord while the ballast is connected to power.

PLEASE READ CAREFULLY BEFORE INSTALLATION

INSTALLATION PROCEDURE

Check electrical panel to ensure proper voltage is available for the number of fixture installed. Panels should only support a total voltage of 80% of its capacity. (100 amp panel should never exceed 80 amps)

PERFORMANCE REQUIREMENTS

RATED MAINS VOLTAGE	120V/240V
VOLTAGE RANGE (+/-10%)	106`-264V
MAINS FREQUENCY	50/60Hz
OPERATIONS FREQUENCY	100-120kHz

If and when possible have an electrician or electrical expert install all fixtures or aid in the electrical layout plans and/or diagrams prior to installation.

(Installation Procedure Continued)
Prior to plugging power into unit, install Iluminar DE lamp into the fixture, be sure to wear proper gloves when handling the lamp. When mounting the lamp to the dual ended sockets, make sure the wires are not frayed and are securely in the connection sockets. Make sure both sockets slide back and lock the lamp into position. Repeat for the opposite side. Lamp should not move freely once locked in on both sides.

Use a hand level on the reflector arm to make sure the fixture is level to the ground. An unlevel fixture can burn the Lamp emitter incorrectly leading to shorter lamp life, poor lamp performance and lamp failures. Once the lamp is installed and the fixture is level, plug the main power cord into the fixture, and the fixture can now except power. IMPORTANT, ON FIRST STRIKE a lamp must run for a minimum for 3 hours before shutting down.

HOT RE-STRIKE - It is VERY IMPORTANT that the lamp is given adequate time to cool down before it is reignited. You should allow a hot lamp to cool for 20-30 minutes before you try to re-strike it. Hot re-strikes cause permanent lamp failure and lumen output degradation. Additionally, the lamp should never be turned off before the lamp reaches full intensity, this may shorten its lifespan

NOTE - Until the lamp has achieved at least 10 hours of operation, the lamp should never be turned off sooner than 2 minutes. In cases where this happens you need to wait 1 hour before switching the lamp on again.

LAMP REPLACEMENT - Be sure to disconnect the power source before changing lamps. Always try to use matched wattage ILUMINAR DE lamps with ILUMINAR fixtures.

MOUNTING LOCATION - DO NOT install ballasts in areas of high heat, such as an attic, tent or a closed closet. Mount units at least 24-60 inches apart. If a unit has any leaking fluid of any type, please relocate to a cooler area or place a fan near the ballasts.

TIMER BOX - If you are connecting a 240V DE Fixture to a timer box, please make sure that it cuts off both legs when timer is switched off. If you continue to supply 240V to your ballast when the timer is switched off, it may damage your ballast.

"FLIP BOX" or "SWITCH BOX" - Do not ever connect a DE Fixture (ballast) to a Flip Box, as it can overload and cause electrical failure within the DE Ballast. Flip or Switch Boxes are not recommended for any DE units or for any high wattage ballast. If it is found a Flip or Switch Box was used it will void your warranty.

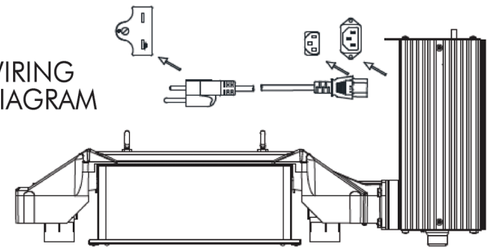
BUILT IN BALLAST AND LAMP PROTECTIONS

1. End of Lamp Life(EOL)Protection
2. Short circuit protection
3. Open circuit protection
4. Ignition failure protection
5. Thermal protection
6. Three color status LED advanced status indication and status history
7. Suitable for ILUMINAR X2R Master Controller
8. Total control range 50-115%

ENVIRONMENTAL TOLERANCES

1. Max. allowable case temperature: 75°C/167°F.
2. Ambient Temperature: -20...+40°C/-4...+104°F.
3. Max. Humidity: 60%.
4. Ignition voltage is: 5kV.

PHYSICAL

CASE LENGTH	249mm	9.80"
CASE WIDTH	249mm	9.80"
HEIGHT	609mm	23.98"
WEIGHT	4.2kg	9.26lb

WIRING DIAGRAM