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## Lightolier OPT-2-2400-HDF

# Lightolier Controls OPT-2-2400-HDF Optio PowerSpec HDF Fluorescent Dimming Module User Manual

Model: OPT-2-2400-HDF

## 1. INTRODUCTION

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This manual provides instructions for the installation, operation, and maintenance of the Lightolier Controls OPT-2-2400-HDF Optio PowerSpec HDF Fluorescent Dimming Module. This module is designed for use with Lightolier Optio Lighting Control Panels and is intended for dimming PowerSpec HDF Fluorescent ballasts only.

Please read these instructions carefully before installation and use to ensure safe and proper operation.

## 2. SAFETY INFORMATION

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- **WARNING:** Risk of electric shock. Disconnect power at the circuit breaker or fuse box before installation or servicing.
- Installation must be performed by a qualified electrician in accordance with all national and local electrical codes.
- Do not use this device with non-dimmable fluorescent ballasts or other load types.
- Ensure the total load does not exceed 2400VA per circuit.
- This module is rated for 120VAC operation only.

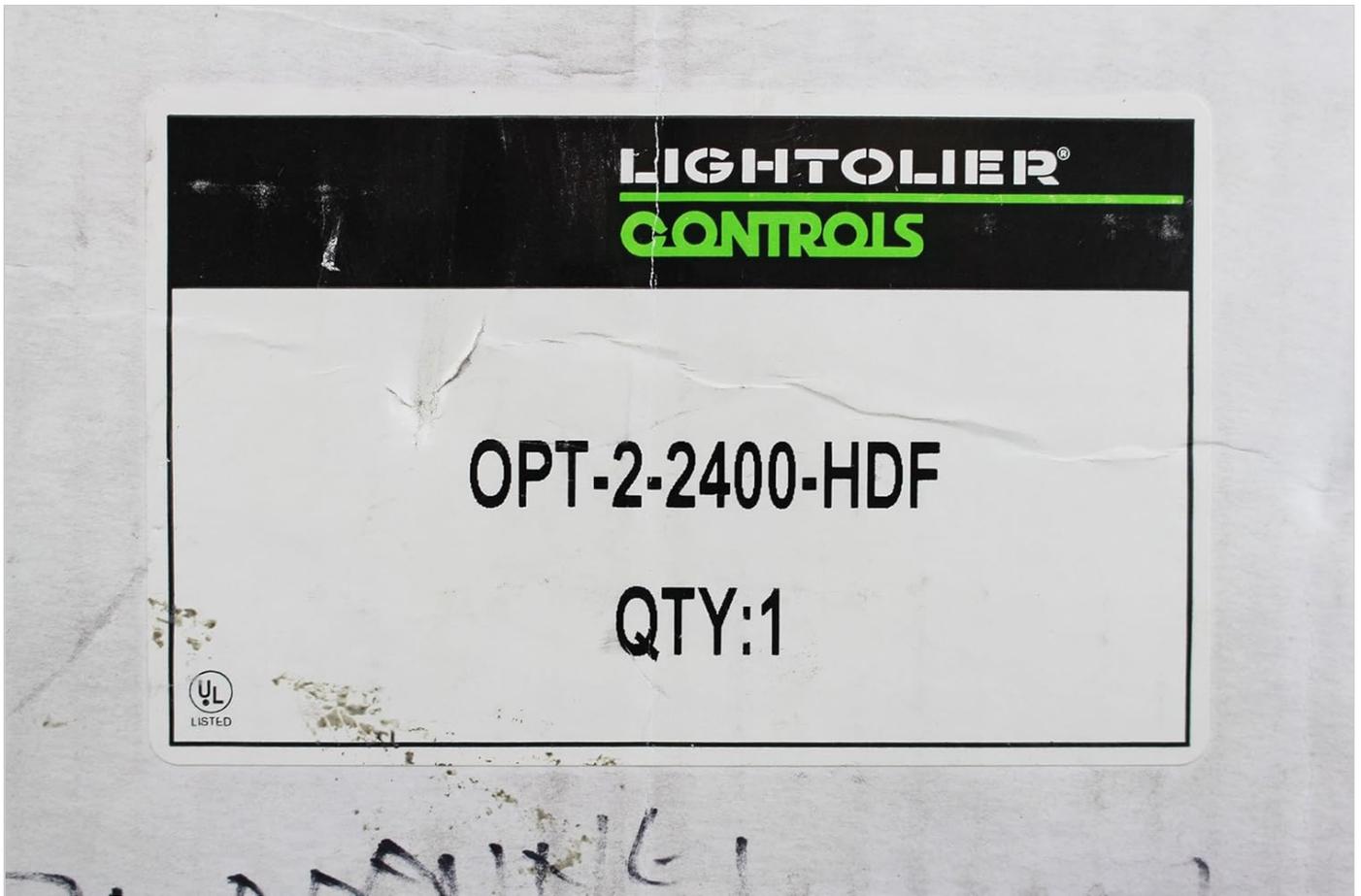
## 3. PRODUCT OVERVIEW

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The OPT-2-2400-HDF module contains two independent dimming circuits, each rated at 2400VA. It is specifically designed to dim Lightolier Controls PowerSpec HDF Fluorescent Dimming Ballasts. The module features local 'Focus' buttons for manual operation and dual-color LED indicators for status information.



**Figure 3.1:** Front view of the Lightolier Controls OPT-2-2400-HDF Dimming Module. This image shows the overall appearance of the module, highlighting its robust, enclosed design.



**Figure 3.2:** Close-up of the product label on the Lightolier Controls OPT-2-2400-HDF Dimming Module. The label displays key specifications such as input voltage (120 VAC), maximum load (2400VA per circuit), load types (Fluorescent PowerSpec HDF Ballasts only), and number of circuits (2).

#### 4. SPECIFICATIONS

Feature	Specification
Model Number	OPT-2-2400-HDF
Input Voltage	120 VAC
Load Capacity	2400VA per circuit (2 circuits total)
Load Type	PowerSpec HDF Fluorescent Dimming Ballasts only
Operation Mode	Manual Operation (via 'Focus' button)
Connectivity Protocol	X-10
International Protection Rating	IP00
Mounting Type	Panel Mount (into Optio Lighting Control Panel)
Dimensions (Package)	20 x 8 x 8 inches
Item Weight	12 pounds

#### 5. SETUP AND INSTALLATION

The OPT-2-2400-HDF module is designed for installation into an Optio 120VAC Lighting Control Panel. Ensure the control panel

is de-energized before proceeding with installation.

1. **Power Disconnection:** Turn off power to the Optio Lighting Control Panel at the main circuit breaker. Verify power is off using a voltage tester.
2. **Module Insertion:** Carefully align the OPT-2-2400-HDF module with an available slot in the Optio Lighting Control Panel. Slide the module firmly into place until it is securely seated.
3. **Wiring Connections:**
  - Connect the input power wires to the designated terminals on the module.
  - Connect the output wires to the PowerSpec HDF Fluorescent Dimming Ballasts. Ensure correct polarity and secure all connections using appropriate wiring methods (e.g., clamp connectors).
  - Refer to the Optio Lighting Control Panel's manual for specific wiring diagrams and terminal assignments.
4. **Secure Module:** Ensure the module is properly secured within the panel according to the panel's instructions.
5. **Power Restoration:** Once all connections are verified and the module is secured, restore power to the Optio Lighting Control Panel at the main circuit breaker.

## 6. OPERATING INSTRUCTIONS

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The OPT-2-2400-HDF module operates as part of the Optio Lighting Control System. It also features local manual control.

### 6.1 System Operation

Once installed in an Optio Lighting Control Panel, the dimming module will respond to commands from the central control system. Refer to your Optio Lighting Control System manual for programming and system-level operation details.

### 6.2 Local Manual Operation (Focus Button)

Each dimming circuit on the module is equipped with a 'Focus' button for local manual control. This button allows for temporary adjustment or testing of the connected lighting circuit.

- **Press and Hold:** Press and hold the 'Focus' button to manually adjust the dimming level. Releasing the button will hold the current level.
- **Single Press:** A single press may toggle the circuit ON/OFF or cycle through preset levels, depending on the system configuration.
- **LED Indicators:** The dual-color LED indicators next to each 'Focus' button provide visual feedback on the circuit's status and dimming level. Consult the Optio system documentation for specific LED indicator meanings.

## 7. MAINTENANCE

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The Lightolier Controls OPT-2-2400-HDF Dimming Module is designed for reliable operation and requires minimal maintenance.

- **Cleaning:** Ensure power is disconnected before cleaning. Use a dry, soft cloth to wipe the exterior of the module. Do not use liquid cleaners or solvents.
- **Inspection:** Periodically inspect the module and its connections for any signs of damage, loose wiring, or overheating. Address any issues promptly.
- **Firmware Updates:** Any firmware updates for the Optio system or modules should be performed by qualified personnel following Lightolier's instructions.

## 8. TROUBLESHOOTING

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If you experience issues with your OPT-2-2400-HDF dimming module, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Lights do not dim or turn on.	No power to the module. Incorrect wiring. Incompatible ballast type. Overload condition.	Check circuit breaker and power connections. Verify all wiring connections are secure and correct. Ensure only PowerSpec HDF Fluorescent Dimming Ballasts are connected. Reduce load to within 2400VA per circuit.
Dimming is erratic or flickering.	Loose connections. Incompatible ballast. System communication issue.	Check all wiring connections. Confirm ballast compatibility. Refer to Optio Lighting Control System manual for communication troubleshooting.
Local 'Focus' button not responding.	Module not receiving power. System override.	Check power to the module. Verify if the central control system is overriding local control.
LED indicator shows an error.	Internal fault or specific error condition.	Consult the Optio Lighting Control System manual for LED error code interpretations. If the issue persists, contact Lightolier technical support.

If troubleshooting steps do not resolve the issue, contact Lightolier technical support or a qualified service technician.

## 9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Lightolier Controls website or contact their customer service department. Keep your purchase receipt for warranty claims.

- **Lightolier Controls Website:** [www.lightolier.com](http://www.lightolier.com)
- **Customer Support:** Refer to the website for contact numbers and support resources.

