# GLPAC-DIMFLV

## Crestron Green Light® Integrated Lighting System

- > *Up to 8 channels of 0-10 Volt fluorescent and LED dimming*
- > *Works in 100 to 277 VAC systems*
- > *16-Amp load rating per channel*
- > *Built-in Control System with Cresnet® and Ethernet port*
- > *Programmable astronomical time clock for scheduled events*
- > *Preloaded program for quick setup*
- > *Optional real-time power monitoring*
- > *Supports keypad control, occupancy sensing, and daylight harvesting for up to 4 rooms*
- > *Positive air gap at each output*
- > *Phase-independent channels*
- > *Local controls for setup, testing, and verification*
- > *Local and remote override capability*
- > *Non-volatile power failure memory*
- > *High-speed Ethernet LAN port*
- > *CEC Title 24 2013 Compliant*

The GLPAC-DIMFLV is a Crestron Green Light® integrated lighting system, designed for use as a standalone lighting controller in classrooms, conference rooms, and offices. While able to deliver four or eight channels of 0-10 Volt fluorescent and LED dimming, each GLPAC-DIMFLV also provides a link to a centralized Crestron® lighting control system for control and monitoring. Add optional real-time power monitoring and Crestron Fusion EM® Energy Management Software to help track and minimize energy usage throughout a facility. Cresnet® and Ethernet connectivity afford extensive system configuration using keypads, touch screens, shade controllers, and more.

### Flexibility

Each GLPAC-DIMFLV can be used to control a single room, or up to four independent rooms. Single-room control is available right out of the box, with no additional configuration. Multi-room control and other system adjustments are accomplished using local controls on the GLPAC-DIMFLV or via the built-in web interface. And because the GLPAC-DIMFLV is a Crestron 2-Series control processor, limitless customization is possible for specialized applications.

### Astronomical Time Clock Feature

Scheduled events may be programmed on the GLPAC-DIMFLV according to an astronomical time clock. As a result, events can be set to occur at specific times or at an offset from sunrise or sunset.

### Save Energy

Built-in support for occupancy and photo sensors helps to strike a perfect balance between daylight harvesting and comfort, reducing energy costs. Automatically turn off lights in unoccupied areas and maintain balanced bulb brightness with the natural light level in the room. Crestron GLS sensors can be placed strategically in each space to maximize the benefits of energy management.

GLPAC-DIMFLV8 shown in photo

### Built-in Power Monitoring

Optional power monitoring tracks the real time energy usage of each load, thereby delivering statistics to help control energy costs. By analyzing real data, organizations can make more educated decisions regarding energy resources, which will have greater impact on the bottom line.

### Easy Deployment

Packaged in one metal enclosure, the GLPAC-DIMFLV can be deployed in small spaces, including plenum ceilings. The surface-mount GLPAC-DIMFLV can be affixed to a wall or ceiling rafter, cleanly out of sight. Standard wire-entry knockouts are provided.

For more information on Crestron Green Light commercial lighting products, please contact Crestron Sales Support Services.

## SPECIFICATIONS

### Load Ratings

**Dimmer Channels:** GLPAC-DIMFLV4(-PM): 4
GLPAC-DIMFLV8(-PM): 8

**Per Channel:** 16 Amps @ 100 to 277 Volts AC, 50/60 Hz

**Dim Load Types:** 0-10 Volt fluorescent ballast (4-wire); 0-10V LED drivers; 60 mA max current sink

**Switch Load Types:** Fluorescent Ballast, Incandescent, Magnetic Low-Voltage, Electronic Low-Voltage, Neon/Cold Cathode, High-Intensity Discharge, LED, Motor

**Relay Lifetime:** Resistive rating: 100,000 on/off operations, 50A @ 277 VAC; General rating: 50,000 on/off operations, 16A @ 120/277 VAC

### Power Requirements

**Main Power:** 100-277 Volts AC, 50/60Hz, supplied via channel 1 (LINE 1, NEUT)

**Available Cresnet Power:** 10 Watts at 24 Volts DC, shared with occupancy and photocell sensor ports

# GLPAC-DIMFLV Crestron Green Light® Integrated Lighting System

### Connectors (Class 1) – 4-Channel Models Only

**NEUT:** (2) terminal blocks, paralleled, line input neutral
**LINE 1 - LINE 4:** (8) terminal blocks, paralleled, line power inputs
**SW1 - SW4:** (4) terminal blocks, switch channel outputs
**0-10V DIM (+,-) 1-4:** (1) 8 position terminal block, dim channel output, galvanically isolated; may be wired as Class 1 or Class 2

### Connectors (Class 1) – 8-Channel Models Only

**NEUT:** (2) terminal blocks, paralleled, line input neutral
**LINE 1 - LINE 8:** (16) terminal blocks; 2 connections per channel, paralleled, allows for easy daisy chaining; line power inputs
**SW1 - SW8:** (8) terminal blocks, switch channel outputs
**0-10V DIM (+,-) 1-8:** (2) 8 position terminal block, dim channel output, gavanically isolated; may be wired as Class 1 or Class 2

### Connectors (Class 2)

**NET SLAVE:** (1) 4-pin 3.5mm detachable terminal block; Cresnet ports for connection to main control processor or other GLPAC-DIMFLVs, does not output 24 Volts DC
**OVR:** (1) 2-pin 3.5mm detachable terminal block, comprising (2) inputs for external contact closures to trigger the preset Override state
**NET LOCAL:** (1) 4-pin 3.5mm detachable terminal block; Cresnet ports for connection to local devices such as keypads, shade controllers, and touch screens; outputs 24 Volts DC
**RELAY 1-4 (-PM models only):** (1) 8-pin 3.5mm detachable terminal blocks comprising (4) normally open, isolated relays; Programmable or used for interfacing to local Variable Air Volume box to indicate room occupancy; Rated 1 Amp, 30 Volts DC
**INPUT 1-8:** (1) 9-pin 3.5mm detachable terminal block comprising (8) digital input ports, referenced to ground
**OCCUPANCY SENSOR INPUT 1-4:** (1) 6-pin 3.5mm detachable terminal block comprising (4) occupancy sensor inputs, (1) +24VDC, and (1) GND port (provides sensors with power)
**PHOTOCELL 1-4:** (1) 6-pin 3.5mm detachable terminal block comprising (4) photocell sensor inputs, (1) +24VDC, and (1) GND port (provides sensors with power); Min-change setting can be adjusted to control how often sensor reports changes in values
**USB:** (1) USB Type B console port, for communication with Crestron Toolbox™
**LAN:** (1) 8-wire RJ45 with 2 LED indicators; 10/100BaseT Ethernet port; Green LED indicates link status; Yellow LED indicates Ethernet activity

### Controls & Indicators

**MODE:** (2) 7-Segment green LED digits and (2) miniature pushbuttons for setting mode during setup or local control
**VALUE:** (2) 7-Segment green LED digits and (2) miniature pushbuttons for setting value
**SAVE:** (1) Red LED and (1) miniature pushbutton for saving settings
**CANCEL:** (1) Red LED and (1) miniature pushbutton for cancelling current operation
**PWR:** (1) Green LED; solid illumination indicates line power is applied to NEUT and LINE1
**HW-R:** (1) Recessed miniature pushbutton for hardware reset (reboots the processor)
**SW-R:** (1) Recessed miniature pushbutton for software reset (restarts the SIMPL program)
**NET-C:** (1) Yellow LED; indicates communication with main control processor (if being used)
**NET-L:** (1) Yellow LED; indicates communication with local devices
**MSG:** (1) Red LED; indicates control system has generated an error message
**OVR:** (1) Red LED and (1) miniature pushbutton for enabling override mode
**ON/OFF:** (8) Red LEDs and (8) miniature pushbuttons for individual manual channel activation and dimming

### Enclosure

Surface mount metal box enclosure, suitable for mounting in plenum airspace

### Environmental

**Temperature:** 32° to 104°F (0° to 40°C)
**Humidity:** 10% to 90% RH (non-condensing)

### Dimensions

**Height:** 12.13 in (308 mm)
**Width:** 14.13 in (359 mm)
**Depth:** 4.06 in (103 mm)

### Electrical Regulatory Certifications

Relays tested and certified for Electronic Ballasts according to UL508, Section 41 (Endurance Test) and Section 61C (Electronic Ballasts)
IEC60669-2-1, Section 19.102 (Contact mechanisms incorporated in electronic switches, intended for fluorescent lamp circuits or other capacitive loads)
CE
UL924 Listed upon request
CEC Title 24 2013 Compliant

## MODELS & ACCESSORIES

### Available Models

**GLPAC-DIMFLV4:** Green Light Integrated Lighting System, 4-Channel
**GLPAC-DIMFLV4-CP:** Green Light Integrated Lighting System, 4-Channel w/Chicago Plenum Enclosure
**GLPAC-DIMFLV4-PM:** Green Light Integrated Lighting System, 4-Channel w/Power Monitoring
**GLPAC-DIMFLV4-PM-CP:** Green Light Integrated Lighting System, 4-Channel w/Power Monitoring & Chicago Plenum Enclosure
**GLPAC-DIMFLV8:** Green Light Integrated Lighting System, 8-Channel
**GLPAC-DIMFLV8-CP:** Green Light Integrated Lighting System, 8-Channel w/Chicago Plenum Enclosure

# GLPAC-DIMFLV Crestron Green Light® Integrated Lighting System

**GLPAC-DIMFLV8-PM:** Green Light Integrated Lighting System, 8-Channel w/Power Monitoring
**GLPAC-DIMFLV8-PM-CP:** Green Light Integrated Lighting System, 8-Channel w/Power Monitoring & Chicago Plenum Enclosure

## Available Accessories

**CNX-B2B Series:** Designer Keypads
**C2N-CBD-E Series:** Cameo® Express Keypads, Standard Mount
**C2N-CBD-P Series:** Cameo® Keypads, Standard Mount
**C2N-CBF-P Series:** Cameo® Keypads, Flush Mount
**GLS-SIM:** Crestron Green Light® Sensor Integration Module
**GLS-LEXT:** Crestron Green Light® Photocell, Outdoor
**GLS-LOL:** Crestron Green Light® Photocell, Open-Loop
**GLS-LCL:** Crestron Green Light® Photocell, Closed-Loop
**GLS-ODT-C-CN:** Dual-Technology Occupancy Sensor with Cresnet®, 2000 Sq. Ft.
**GLS-OIR-C-CN:** Passive Infrared Occupancy Sensor with Cresnet®
**GLS-ODT-C-500:** Crestron Green Light® Dual-Technology Ceiling Mount Occupancy Sensor, 500 Sq. Ft
**GLS-ODT-C-1000:** Crestron Green Light® Dual-Technology Ceiling Mount Occupancy Sensor, 1000 Sq. Ft.
**GLS-ODT-C-2000:** Crestron Green Light® Dual-Technology Ceiling Mount Occupancy Sensor, 2000 Sq. Ft.
**GLS-ODT-W-1200:** Crestron Green Light® Dual-Technology Wall Mount Occupancy Sensor, 1200 Sq. Ft.
**GLS-OIR-C-450:** Crestron Green Light® Passive Infrared Ceiling Mount Occupancy Sensor, 450 Sq. Ft.
**GLS-OIR-C-1500:** Crestron Green Light® Passive Infrared Ceiling Mount Occupancy Sensor, 1500 Sq. Ft.
**GLS-OIR-W-2500:** Crestron Green Light® Passive Infrared Wall Mount Occupancy Sensor, 2500 Sq. Ft.
**GLS-PLS-120/277:** Power Loss Sensor, 3-Phase, 120 or 277 Volts
**DIN-PWS50:** DIN Rail 50 Watt Cresnet Power Supply
**GLA-PWS50:** Wall Mount 50 Watt Cresnet Power Supply

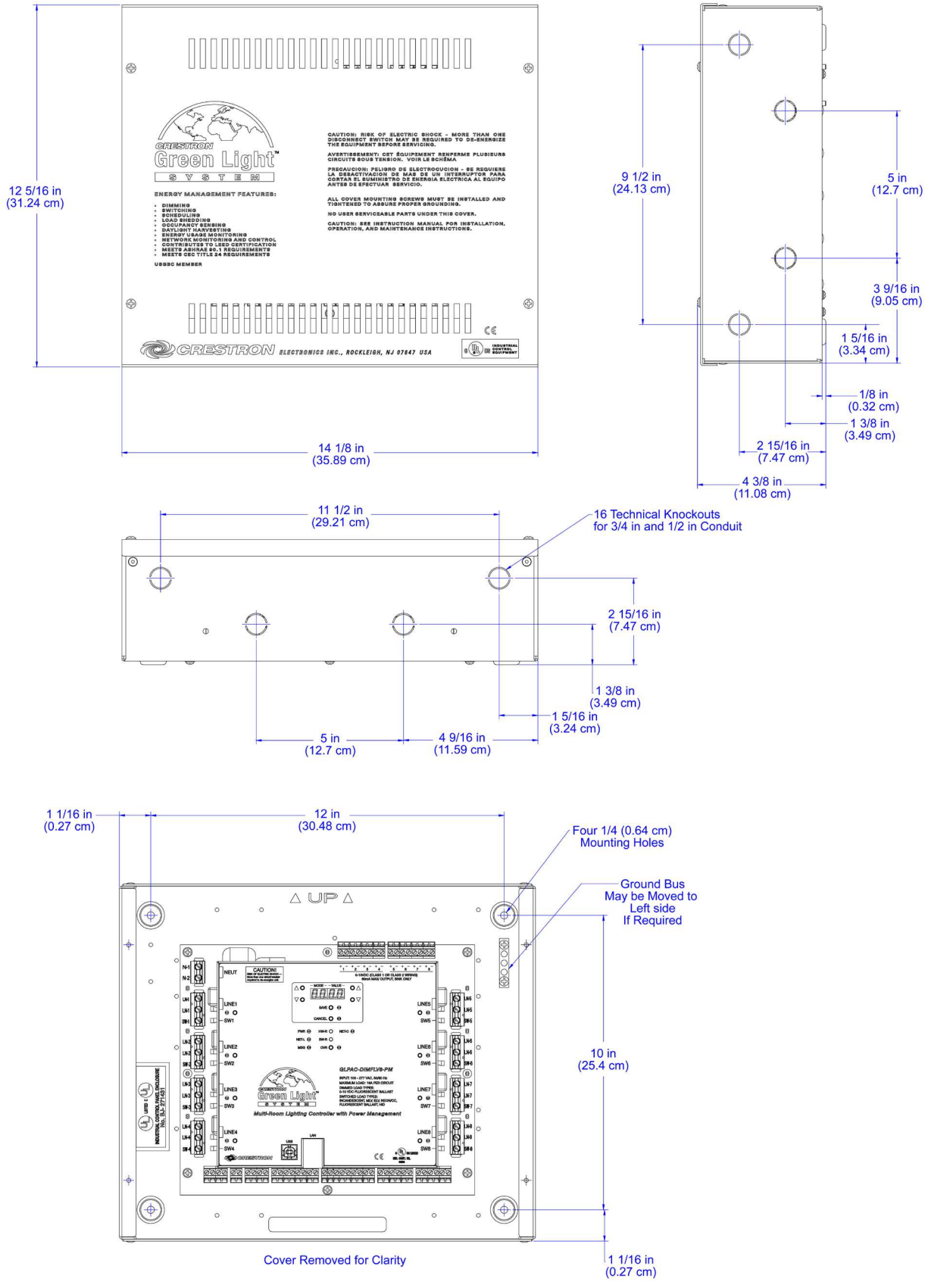
Notes:

This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/salesreps or by calling 800-237-2041.

The specific patents that cover Crestron products are listed online at: patents.crestron.com.

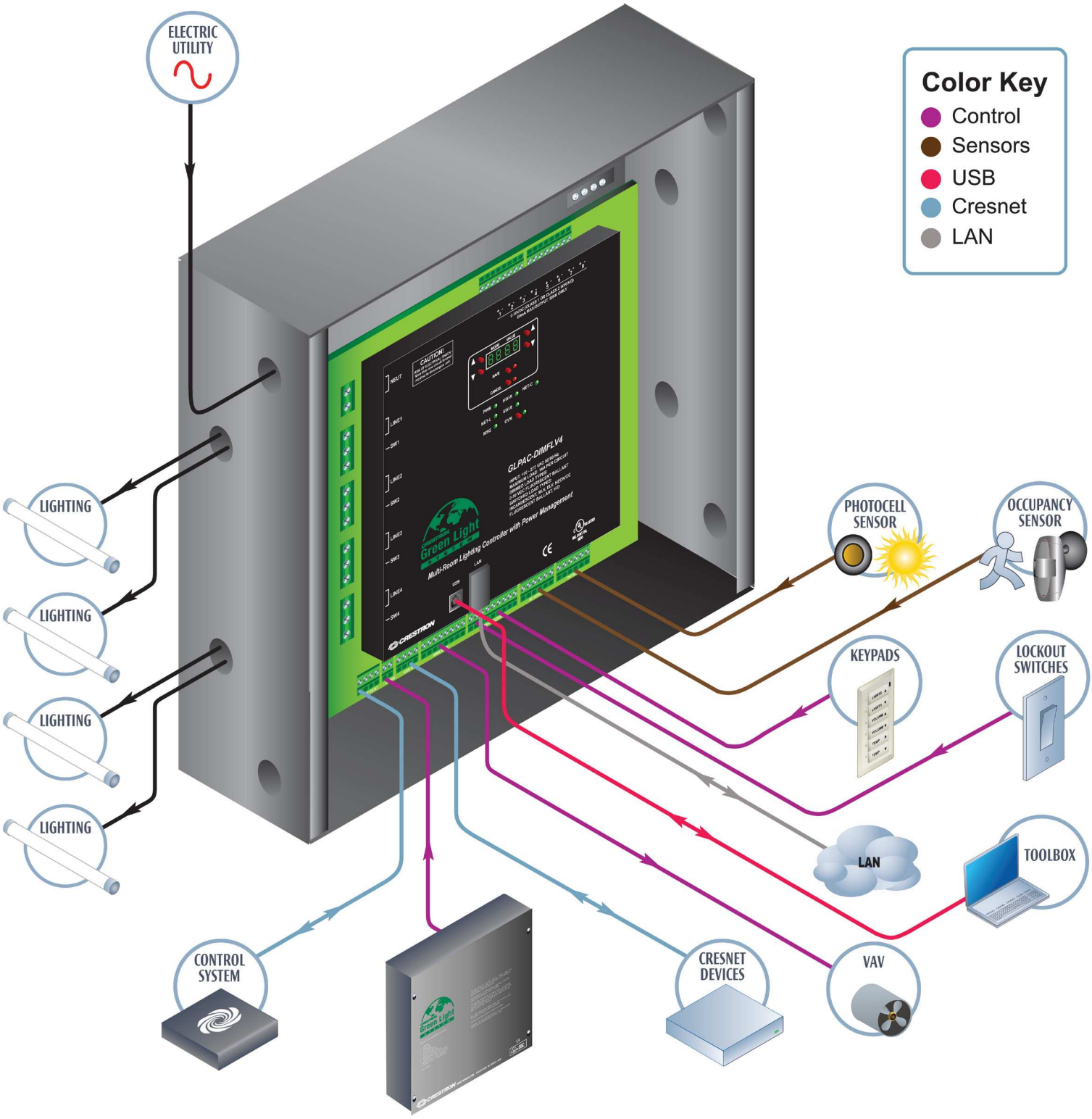
## CAD DRAWING

(GLPAC-DIMFLV8-PM SHOWN)



# GLPAC-DIMFLV Crestron Green Light® Integrated Lighting System

## APPLICATION DIAGRAM

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*Specifications subject to change without notice. Revised 10/21/14*