

## METALUX DISTRIBUTED LOW-VOLTAGE POWER SYSTEM LIGHTING SOLUTIONS

Eaton's Distributed Low-Voltage Power System combines power, lighting and controls into one simple yet brilliant solution. Low-voltage DC and advanced LED technology meet integrated controls to deliver a system that is flexible, sustainable and highly cost-effective. Whether you manage a single room or entire facility, you want a safe, cost-conscious, easy-to-configure system that simplifies energy code compliance. By implementing distributed low-voltage power along with LED lighting and controls, you maximize electrical efficiency and minimize installation and commissioning costs.

Distributed Low-Voltage Power System compatible Metalux luminaires use efficient Direct Current (DC) power from the DLVP system with an addressable controller factory-installed in the fixture housing. The addressable controller has two connectors for quick and easy wiring, using pre-terminated lighting cables with both power and control, and can be daisy chained. Using the DLVP system, each luminaire dims to off, can be configured to control zones, and can be controlled with optional wall stations, sensors and handheld remotes. Several luminaires are also available with an optional integrated sensor system for maximum energy savings at each luminaire. The sensor system reduces installation costs to meet code requirements even further while reducing the planning time normally associated with sensors. The sensor system is factory installed and prewired and controls the fixture based on vacancy/occupancy (passive infrared), daylight (closed loop) and input from an optional programming or personal control remote. Refer to the DLVP system specifications for additional information, features and benefits.

Metalux Recessed Ambient luminaires with LED technology provide energy efficient, high quality and cost-effective lighting solutions for a wide variety of commercial applications. The luminaire families shown are available in standard ceiling grid sizes, have a range of light (lumen) output choices, and a selection of color temperatures (CCT). The Encounter and SkyRidge families feature Eaton's advanced WaveStream LED technology, delivering exceptional performance combined with aesthetically pleasing design elements. Refer to the specification sheets for each family, found at [www.eaton.com/lighting](http://www.eaton.com/lighting).

Catalog #		Type
Project		
Comments		Date
Prepared by		

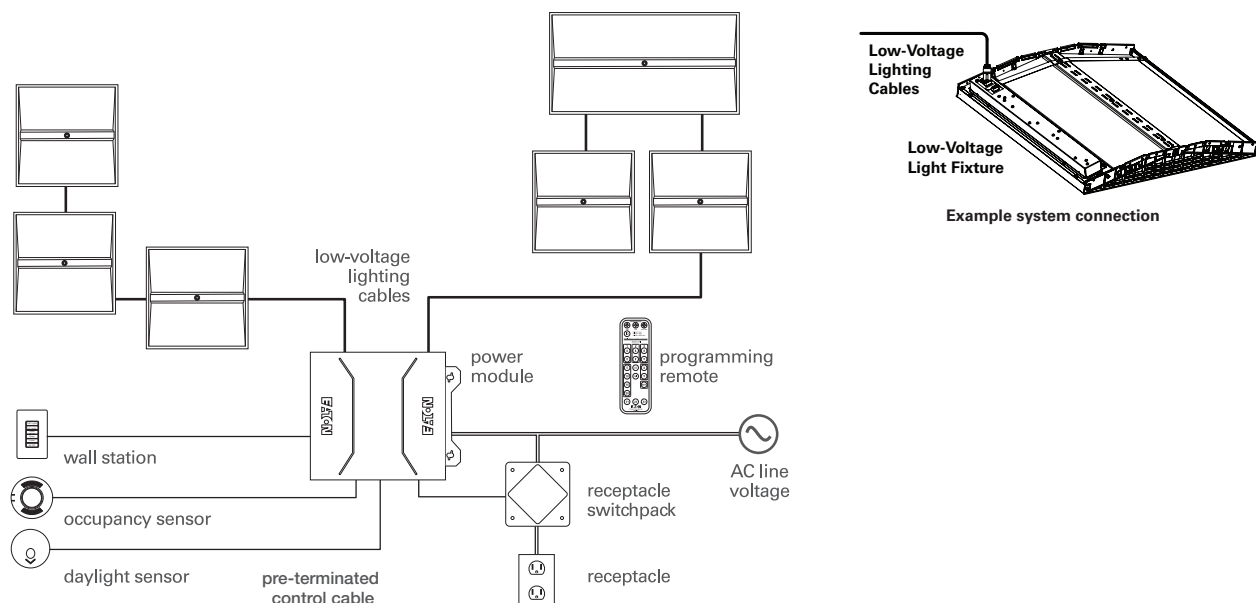
### DLVP IN METALUX



**Encounter LED    SkyRidge LED    Cruze LED    ArcLine LED    ArcLine-R LED    GRLED    FRLED**

Metalux luminaires are available in 2' x 4', 2' x 2', 1' x 4' and 1' x 2' sizes where shown. The DLVP system is compatible with all sizes. Optional integrated sensor systems are available for the Encounter, SkyRidge, Cruze and ArcLine series.

### SYSTEM OVERVIEW – DISTRIBUTED LOW-VOLTAGE POWER SYSTEM (DLVP)



**Note:** When optional integrated sensors are used on any one zone, all luminaires on a power module must have integrated sensors. Optional integrated sensor shown.  
**Note:** Minimum system requires at least one luminaire, at least one power module and at least one low-voltage lighting cable.  
**Refer to Distributed Low Voltage Power System documents for full details and operation**

ORDERING INFORMATION

Compatibility Details: Metalux DLVP luminaires are compatible only with the DLVP system and require components of the system to operate correctly. The minimum system requirements are at least one compatible luminaire, one power module, and one low-voltage lighting cable.

Metalux DLVP-compatible luminaires are all:

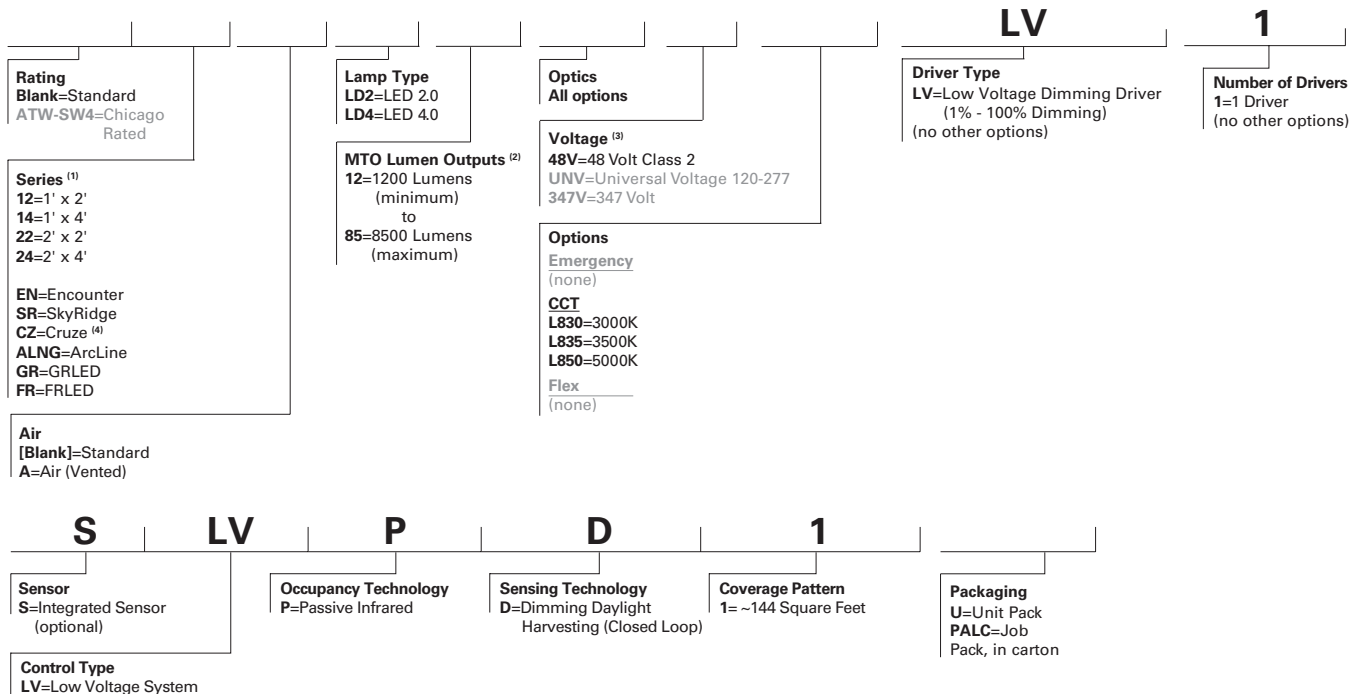
- UL2108 listed
- Listed for dry locations only

Metalux luminaires use a standard catalog logic format across multiple series. DLVP-compatible fixtures are available with the options below. Options shown in gray are not compatible.

EXAMPLE CATALOG LOGIC:

No sensor: 22EN-LD2-34-48V-L835-LV1-U

With sensor: 22CZ-LD4-35-48V-L835-LV1-SLVPD1-U



NOTES: <sup>(1)</sup> Not all sizes offered in each series. <sup>(2)</sup> Lumen output varies by series. Lumen outputs for a given series are available within the range shown. <sup>(3)</sup> Refer to the DLVP Power Module for input ranges for Alternating Current (AC/line/mains) voltage connections. <sup>(4)</sup> Integrated sensor not available.

Specifications & dimensions subject to change without notice. Consult your Eaton Representative for availability and ordering information.

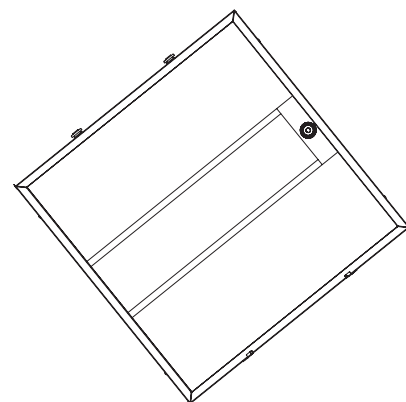
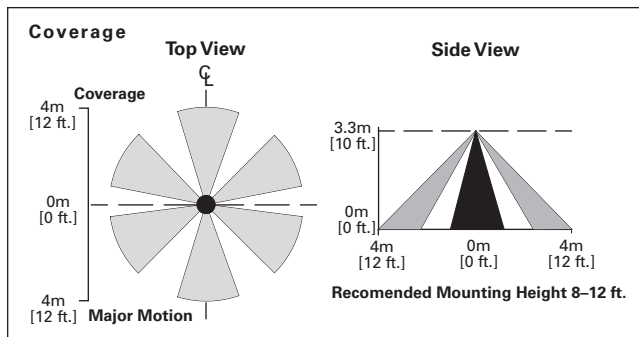
COMPATIBLE ACCESSORIES

T3A END E.Q. BRACKET PARTS BAG (Standard with fixture)  
DF Series Drywall Frames  
Other options and accessories are not compatible.

**INTEGRATED SENSOR**

An optional integrated sensor system is available for maximum energy savings. A sensor is installed in each luminaire, turning the fixture on and off based on occupancy, and adjusting the fixture light output based on the amount of light around it (closed loop). The sensor system also acts as a control and programming input point to the system. See the DLVP system instruction sheet for more information.

**Note:** Remote control optional. Remote required to make configuration change.



ArcLine R LED with SLVPD1 option  
Example: 22ALNG-LD4-35-R-L835-LV1-SVPD1-U

1. The coverage pattern shown above depicts the area below the luminaire where the integrated sensor system can detect occupancy.
2. Spacing between fixtures should not exceed the coverage pattern of the sensor.
3. Mounting height should not exceed 12 feet.
4. Exceeding these spacing/height guidelines will result in reduced integrated sensor performance.

Optional Integrated Sensor Factory Defaults	
Occupancy Detection Mode	Manual On (vacancy), active
Default Occupancy Time Out	20 minutes
Occupancy Sensitivity	High
Fade Up/Down Time	Minimum to Maximum in 9 seconds
Daylight Harvesting Level	Off

**Note:** Above settings are configurable. See DLVP system manual for additional instructions

**OPTIONAL DLVP PROGRAMMING REMOTE**

The DLVP programming remote is a handheld tool that provides the user the ability to individually toggle zones, set sensor hold times and sensitivity, set daylight gains by zone, set sensor range, and assign fixtures with integrated sensors to control zones.

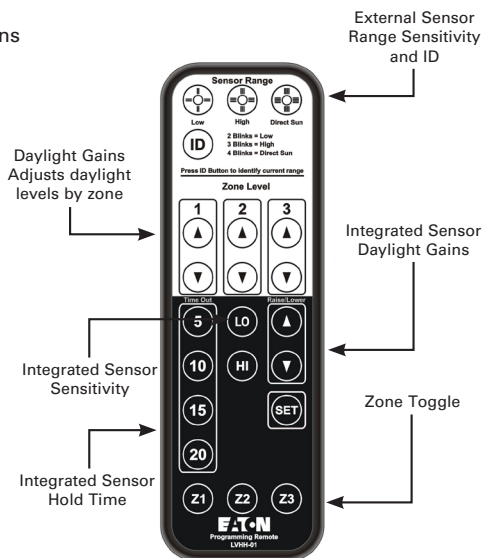
**Features**

- Simple to use programming remote
- Fixture zone assignment (requires integrated sensors)
- Daylight gains adjustment
- Sensor Range adjustment

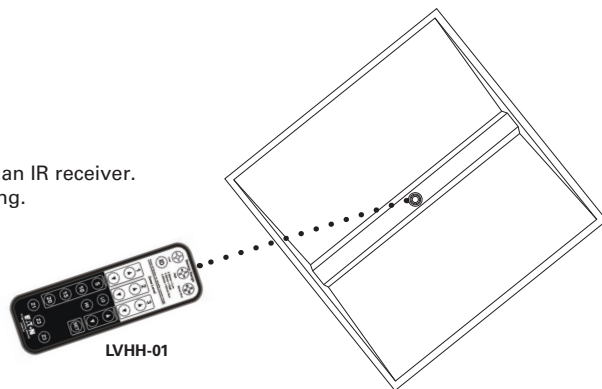
**Description/Operation**

The programming remote can send IR commands using the fixture integrated sensor as an IR receiver. The programming remote contains the following buttons for override of the space lighting.

- Integrated Sensor Hold Time
- Integrated Sensor Sensitivity
- Integrated Sensor Daylight Gains
- Zone 1 (Raise/Lower)
- Zone 2 (Raise/Lower)
- Zone 3 (Raise/Lower)
- Zone 1 Toggle (on/off)
- Zone 2 Toggle (on/off)
- Zone 3 Toggle (on/off)



LVHH-01



Encounter LED with SLVPD1 option  
Example: 22EN-LD2-34-48V-L835-LV1-SLVPD1-U