

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.

Catalog #		Type
Project		
Comments		Date
Prepared by		

Corelite architectural luminaires with LED technology provide high efficacy, industry leading optical control, and low profile 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 Bridge family features 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.

Distributed Low-Voltage Power System compatible Corelite luminaires use efficient Direct Current (DC) power from the DLVP system with a module factory-installed in the fixture housing. The module 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.

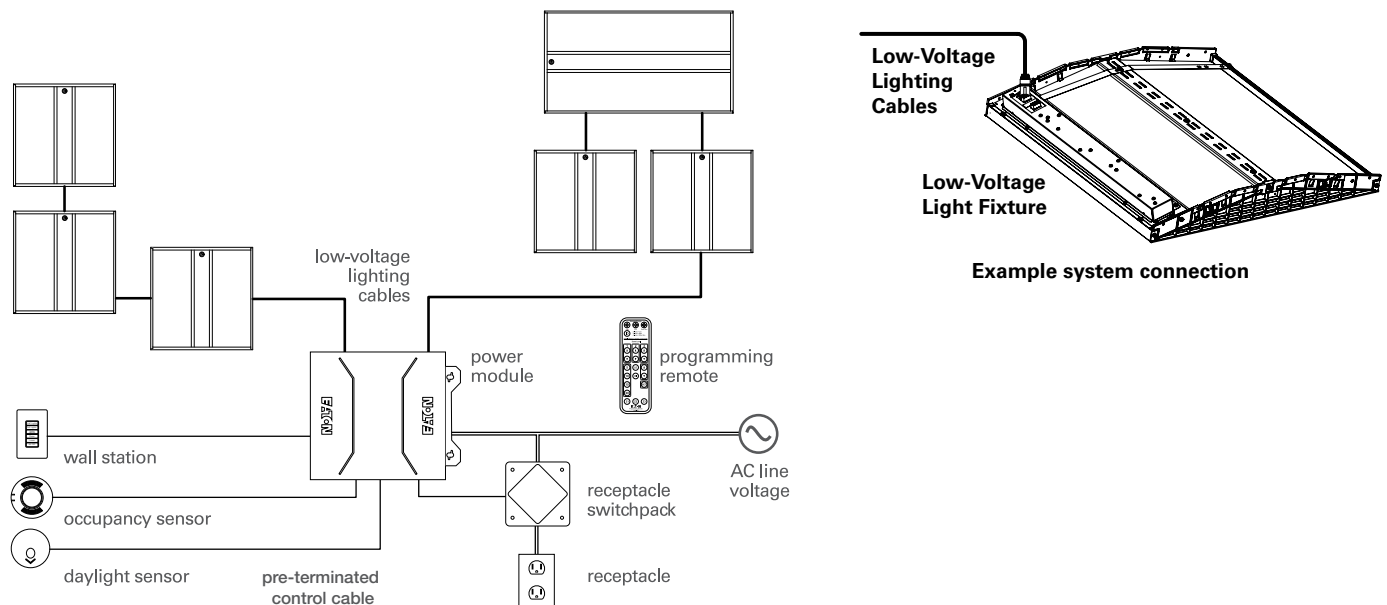
DLVP IS CURRENTLY AVAILABLE IN THE CORELITE BRIDGE



Bridge LED

Corelite luminaires are available in 2' x 4', 2' x 2', 1' x 4', and metric sizes where shown. The DLVP system is compatible with all sizes. Optional integrated sensor systems are also available.

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

HOW TO SELECT:

Replace the following catalog logic characters for DLVP compatible luminaires. Refer to luminaire specification sheet for catalog logic and options.

Voltage	48V = 48 Volt Class 2 supply
Driver Type	LV1 = Low Voltage Dimming Driver (1%-100%)
Optional sensor	SVPD1 = Integrated sensor compatible with DLVP system
Optional Emergency	ELV14W = 14-watt Low Voltage Integral EM Battery Pack

Note: Integral emergency battery pack is 14W maximum, 90 minute output. A test switch/indicator button can be tested safely from the ground using a laser pointer, while the patented EZ Key prevents accidental discharge of the battery during construction. For approximate delivered lumens multiply the lumens per watt of the desired fixture by the wattage of the emergency battery pack (100 lm/W x 14=1400 lumens)

Note: Chicago Plenum option not available with the DLVP system

EXAMPLE CATALOG LOGIC

Without sensor: BRG-WS-3L35-LD2-48V-22-T1-LV1

With sensor: BRG-WS-3L35-LD2-48V-22-T1-LV1-SVPD1

Compatibility Details: Corelite 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.

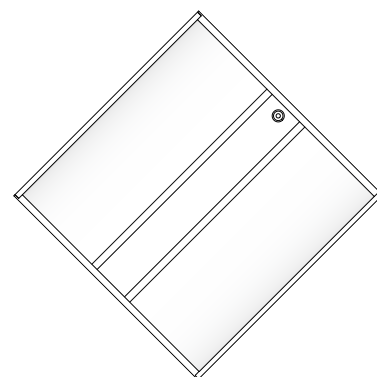
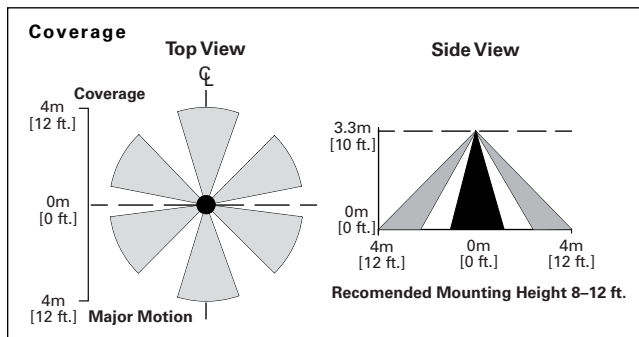
Corelite DLVP-compatible luminaires are:

- UL2108 listed
- Listed for dry locations only

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.



Corelite Bridge with SVPD1 sensor option

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