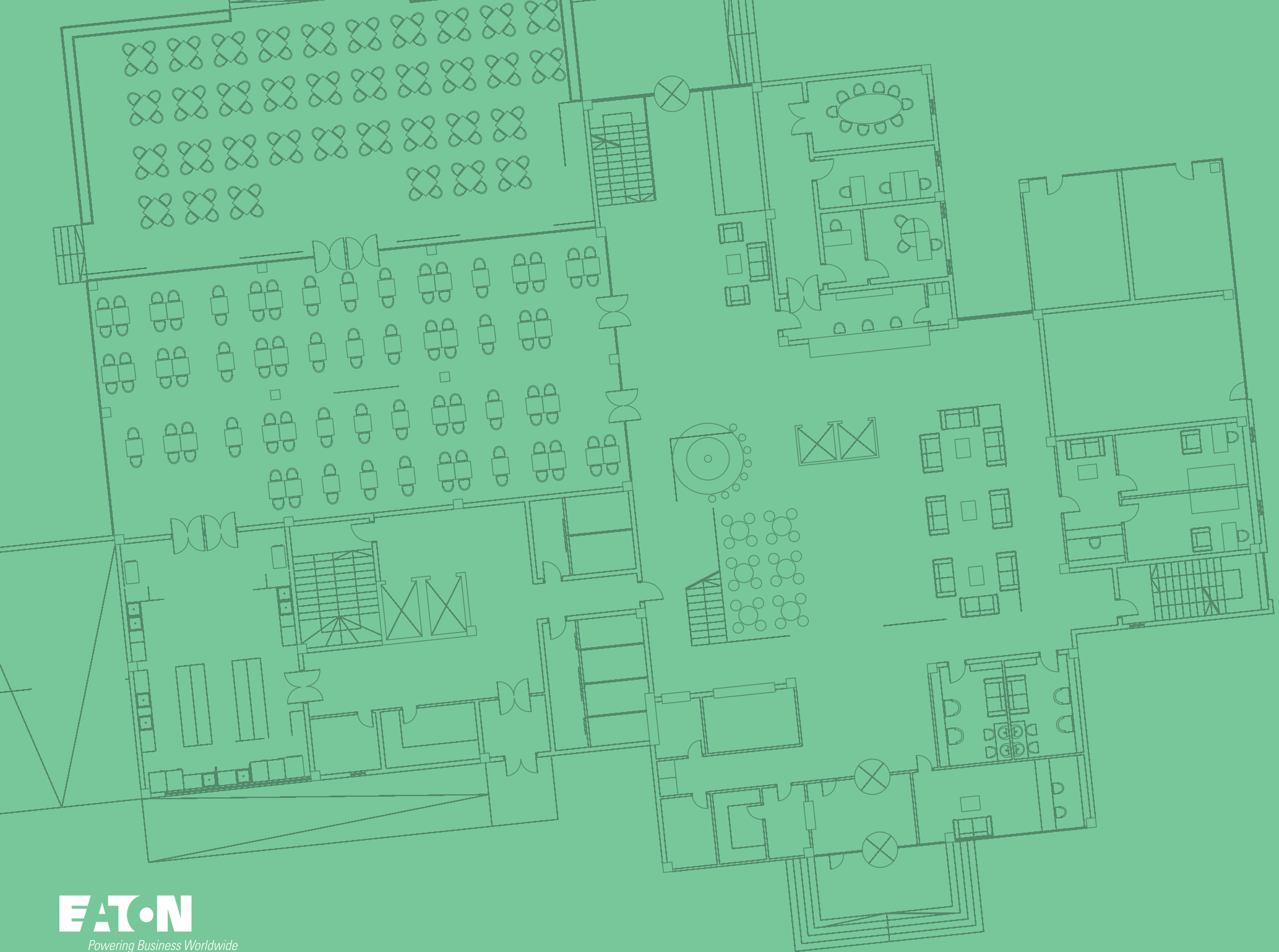


# Distributed Low-Voltage Power System

**EAT•N**

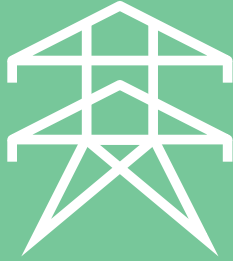
*Powering Business Worldwide*



**EATON**

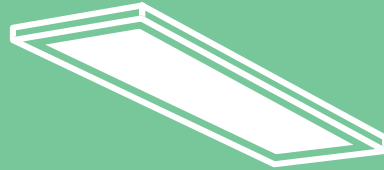
Powering Business Worldwide

## Distributed Low-Voltage Power System



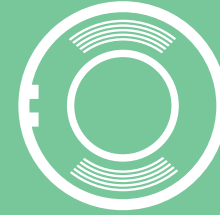
### EATON POWER

Unparalleled knowledge  
of electrical power  
management



### LIGHTING

Advanced LED fixtures



### CONTROL

Communications &  
sensing technology  
  
Physical devices  
& controllers

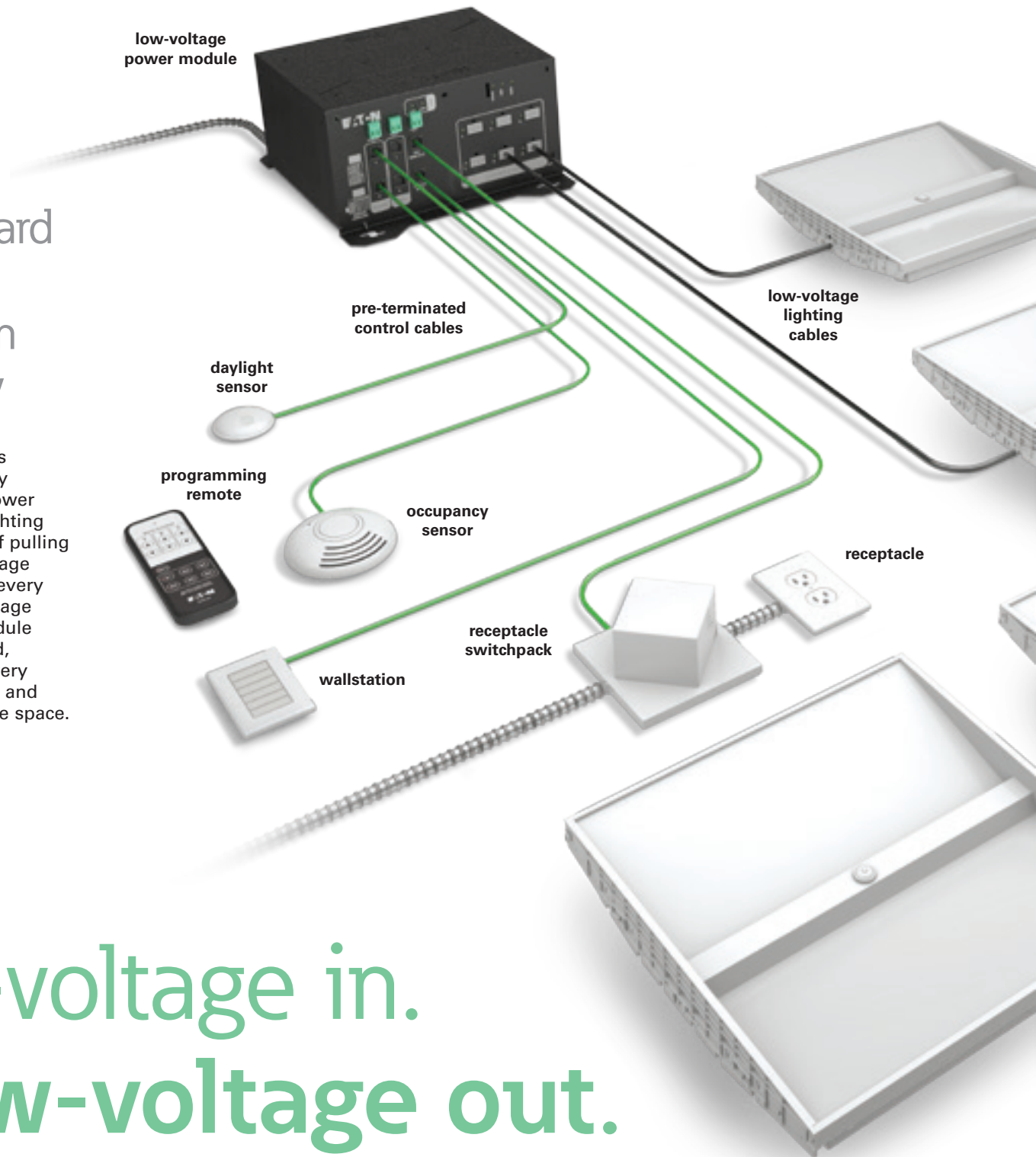
## Meet the new standard in energy distribution technology

The low-voltage power system that's practically plug and play. No more struggling to find qualified electrical labor for your job site. No more waiting weeks for commissioning teams. No more compliance woes. Eliminate costly project delays with our groundbreaking Distributed Low-Voltage Power System, and save up to 20% on the total installed cost of your LED lighting and controls system.

**Connected Lighting**  
simplified by Eaton

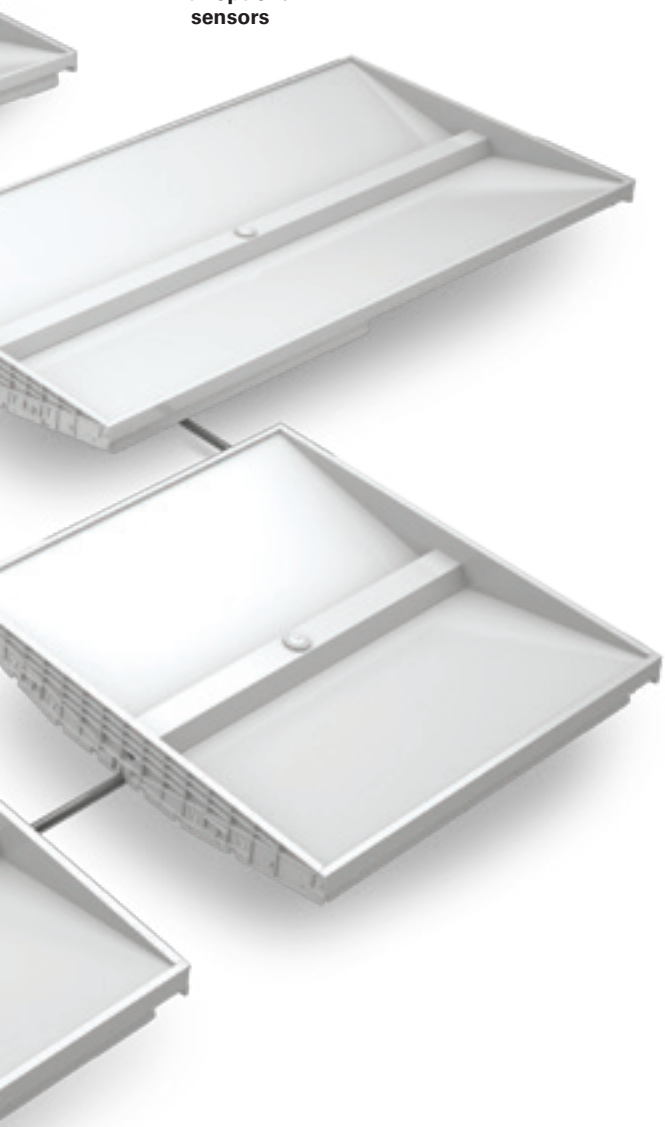
## Meet the new standard in energy distribution technology

DLVP simplifies system installation and reduces installed system cost by changing the typical power structure of the LED lighting and controls. Instead of pulling line-voltage to low-voltage transformers installed every few feet, bring line-voltage to the DLVP power module and pull pre-terminated, low-voltage cable to every fixture, sensor, control, and receptacle control in the space.



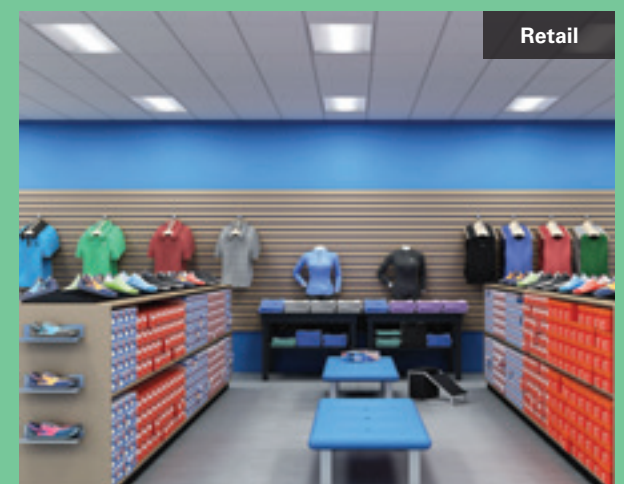
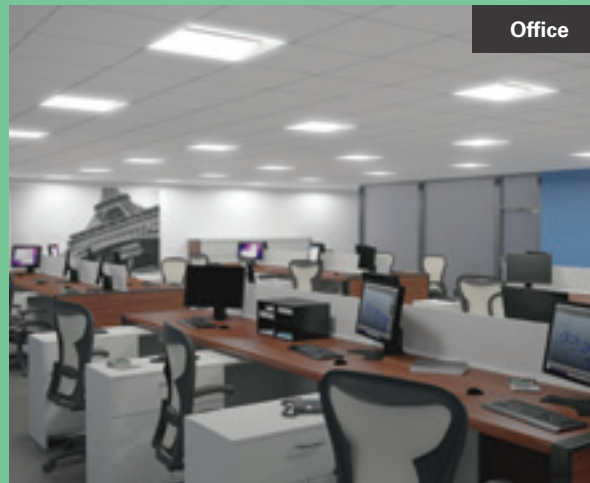
# Line-voltage in. Low-voltage out.

low-voltage LED  
lighting fixtures  
with optional  
sensors



# Contractors asked. DLVP delivers.

- Faster system installation
- Easier controls wiring
- No complex commissioning
- Code-compliant performance
- Lower installed system cost



For a complete list of  
compatible products, see:  
[www.eaton.com/DLVP](http://www.eaton.com/DLVP)



# Technology

# Minimize labor and material costs

Eaton's Distributed Low-Voltage Power System has revolutionized LED lighting and controls.

It's a brilliantly simple solution – a complete system that meets the most pressing demands of the busy electrical contractor, providing low-voltage power, LED lighting, and full controls functionality out-of-the-box.

## Save on labor costs

With an average of 40% reduction in man hours, DLVP reduces number of qualified electricians needed on the job site and installs 2X faster than traditional systems.

## Save on materials

DLVP eliminates the need for unnecessary line-voltage materials.

## No system commissioning

A contractor can configure the system with the flip of a switch, or by using a handheld remote.

## Code compliance made easy

The system was designed to meet the energy code requirements of any space.

## Cut ties with complexity



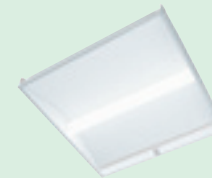
### Low-voltage power module

Power Modules create safe low-voltage circuits to power and control LED lighting fixtures



### Low-voltage lighting cable

Low-voltage lighting cables provide power and communications to DLVP LED lighting fixtures



### Lighting fixture with integrated sensor

Highly efficient low-voltage addressable LED fixtures



up to  
**20%**  
REDUCTION  
in total  
installed  
system cost

# Save on materials

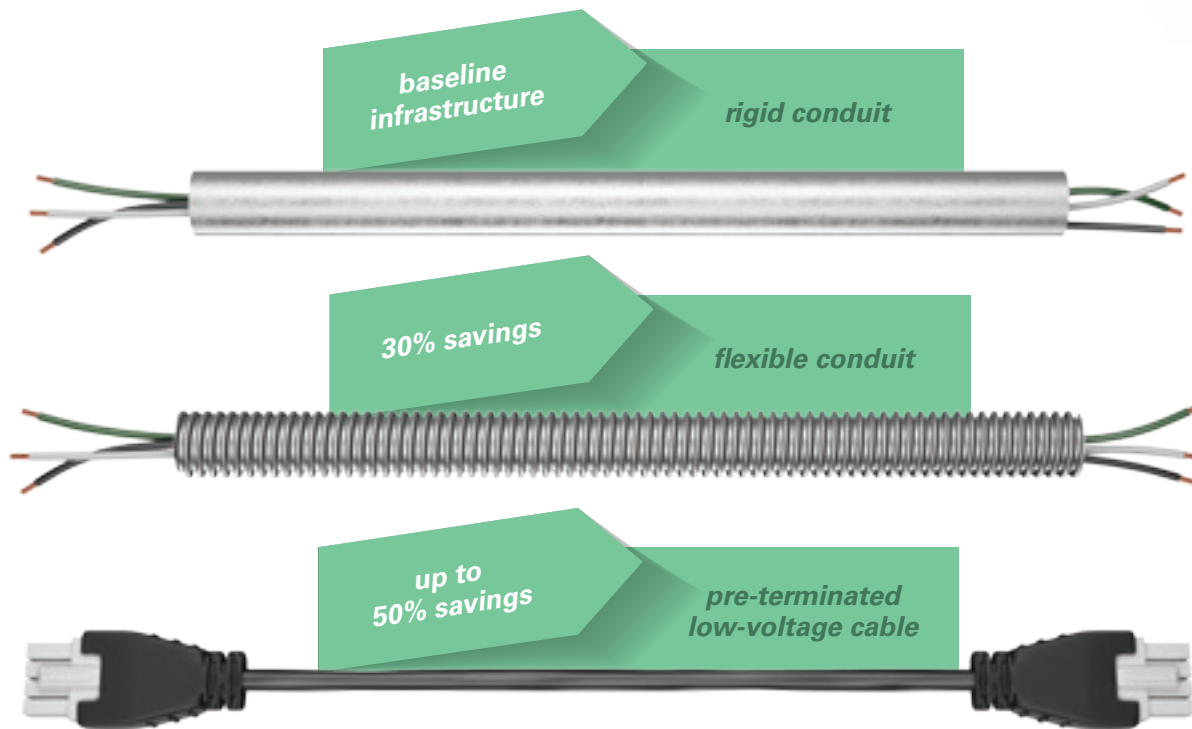
while minimizing safety risk

Our streamlined system lets you cut ties with complexity.

## Still wrestling with conduit and Class 1 wiring?

There's no need with LED fixtures with low-voltage Class 2 pre-terminated cables.

Not only does this save you time and materials – it helps create a safer project site. A low-voltage infrastructure carries less liability, keeping your employees safer and giving you peace of mind.



## Installed cost comparison of electrical wiring methods

(based on a 2015-2016 survey of US electrical contractors)

*Meets UL2108 standards for low-voltage lighting systems, minimizing risk of electrical fires and injury due to electrical shock.*





on average  
**40%**  
**REDUCTION**  
in man hours



# Don't let labor shortages slow down your progress

**The solution that eliminates resourcing dilemmas and wiring errors.**

**Are your opportunity costs mounting due to a lack of skilled labor?**

The DLVP system is designed to eliminate this headache. After the initial power module and line voltage cable are installed, the rest of the process can be completed using less specialized labor by connecting LED fixtures with pre-terminated low-voltage cables.

**It's simply plug-and-play.**

By reducing your project's labor hours by up to 40% and allowing you to take on more projects, this system can directly impact your bottom line.

simply  
**plug**-and-**play**



*The system is factory  
wired and ready to meet  
code-out-of-the-box*

## Integrated sensor control system

The luminaire-integrated sensor control system reduces the design time and complexity of meeting energy codes for both lighting and controls.

The sensor system was designed to guarantee occupancy and daylight harvesting coverage from within the footprint of the luminaire, so the lighting design is the control design. In small spaces, systems with integrated sensors achieve the lowest installed cost when compared to traditional control products.

# Take control of your system's configuration

**Programming is now** (literally) **at your fingertips.**

The controls commissioning process used to add weeks (or more) to a lighting controls wiring projects. With DLVP, that's no longer the case. Our out-of-the-box functionality allows the contractor to program the system with the flip of a dipswitch, or using a convenient handheld programming remote control.

No software training or experience is required – just a simple contractor certification program. And, if you (or your customer) needs to override a system's initial configurations, this can be done easily with the programming remote control without system re-wiring.



Program your system easily with flip of a switch, or the click of a remote



What do you need for a code-compliant system?

# Make it easy - include it all

Designed to meet the code requirements of your project.

The DLVP system was designed entirely with compliance in mind, to rid you of unnecessary project snarls. Combined with Eaton's highly efficient low-voltage LED fixtures, integrated or external sensors drive energy efficiency throughout the building.

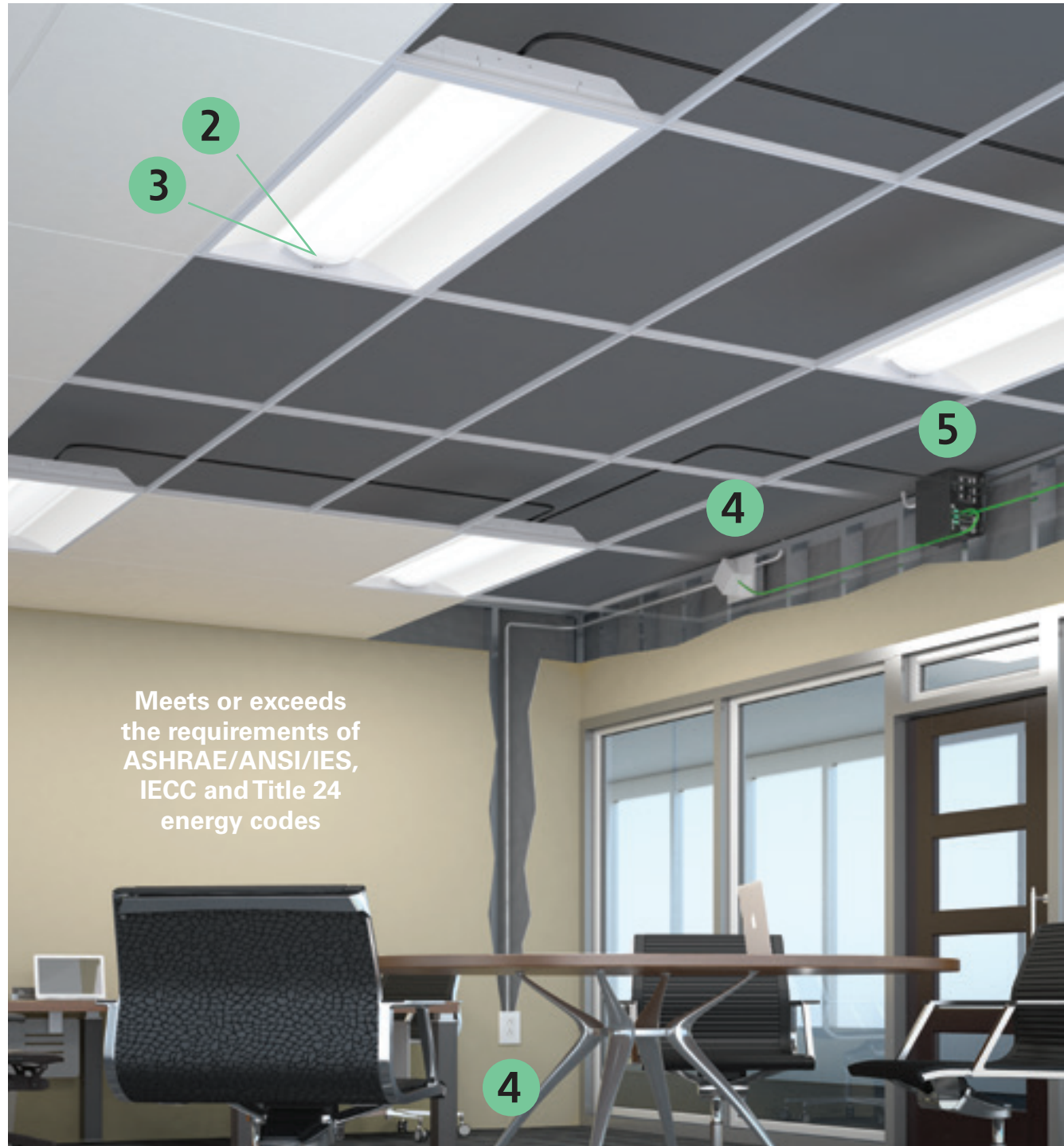
Features like scene control, receptacle control, and automatic turn-off help you customize your system to meet your area's requirements, and can achieve energy savings of up to 65%.

---

up to **65%**  
**SAVINGS**

---

on lighting  
energy costs

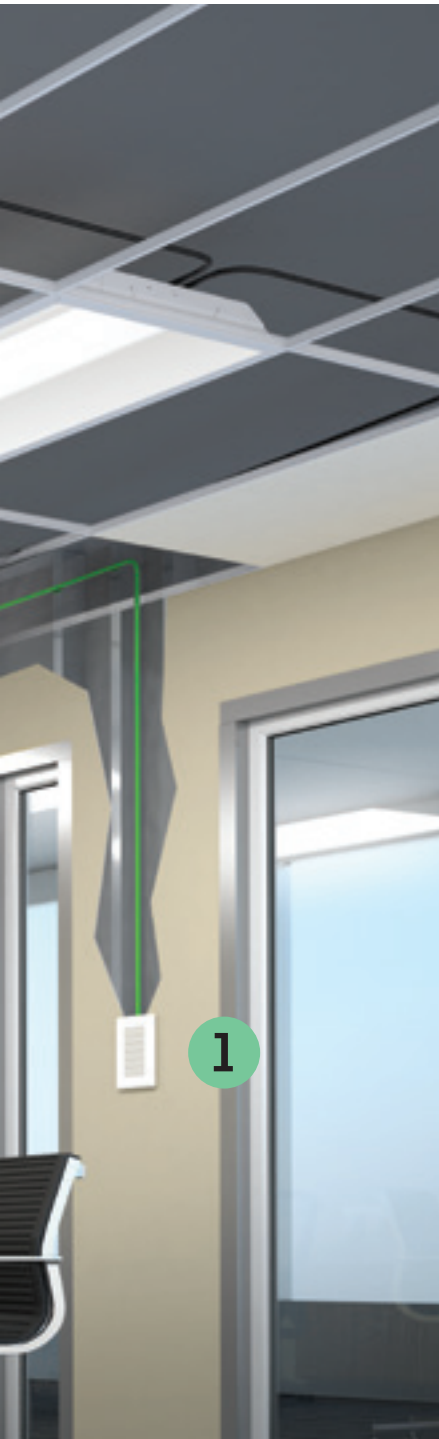


Meets or exceeds  
the requirements of  
ASHRAE/ANSI/IES,  
IECC and Title 24  
energy codes

# Code compliance, out-of-the-box

Meets or exceeds the requirements of ASHRAE/ANSI/IES, IECC and Title 24 energy codes

STRATEGY	DESCRIPTION	ESTIMATED SAVINGS
 <p><b>1</b> Manual Dimmer</p>	Manual/personal dimming control – is one of five alternative methods to meet the multi-level lighting control requirements.	<b>10-20%</b>
 <p><b>2</b> Occupancy Sensor</p>	Occupancy/vacancy sensing – provides Manual On/Automatic Off or Automatic On/Automatic Off and Partial Off capabilities.	<b>20-60%</b>
 <p><b>3</b> Daylighting Control</p>	Daylight dimming – provides three daylight dimming zone that automatically adjust the lighting based on daylight available in the space, or fixture integrated sensors for completely granular daylighting control.	<b>20-45%</b>
 <p><b>4</b> Receptacle Control</p>	Plug load control – automatically turns On receptacles upon occupancy regardless of light status. Ensures receptacles are turned Off when the space is vacant.	<b>15-50%</b> controlled loads
 <p><b>5</b> Tuning Control</p>	High-end/Task Tuning – lowers the maximum light level for automatic energy savings.	<b>10-30%</b>
 <p><b>Demand Response</b></p>	Demand Response – automatically reduces light level based on signal from OpenADR device or BMS closure.	<b>10-40%</b>
 <p><b>Remote Signal Control</b></p>	Remote Signal Control – Automatically sends a signal to the HVAC system based on occupancy.	<b>20%</b>



# Control devices



## Low-Voltage Power Module

- Integrated wiring compartment
- 120-277VAC 50/60Hz Input
- AC-DC (Class 2) conversion (up to 100W per circuit)
- Passively cooled and plenum rated
- Integrates centralized EM power (remote relay)

## Personal Remote

- Simple and straightforward system control
- Control lighting by zone (up to 3)
- Program and recall scenes on the remote and scene wallstations



## Programming Remote

- Simple and straightforward system setup
- Configure system zones (up to 3)
- Define sensor delays, sensitivity, and daylighting settings
- Set hi-level and low-level trim



### Occupancy Sensors

- Passive infrared or dual-tech occupancy technology
- Occupancy or vacancy mode (via power module)
- Up to 2000 square-foot coverage area



### Daylight Sensor

- Open-loop daylighting control for up to three lighting zones
- Three selectable light sensor ranges
- Compatible with personal and programming remotes



### Scene Wallstations

- Personalized control of light fixtures
- RJ45 ports to eliminate wiring issues
- Field replaceable customized buttons to match programming



### Input/Output Device

- Input/output integration
- Automatic egress / HVAC integration based on occupancy status
- Connection with standard switchpacks



### Zone Wallstations

- Pre-configured low-voltage control of LED fixtures
- Pre-engraved buttons (custom options available)
- RJ45 ports to eliminate wiring errors



### Receptacle Switchpack

- RJ45 ports to eliminate wiring errors
- Switch up to 20 amp circuits
- Plenum rated - mounts directly to junction boxes



# Lighting products

For a complete list of compatible products, see:  
[www.eaton.com/DLVP](http://www.eaton.com/DLVP)



Open office

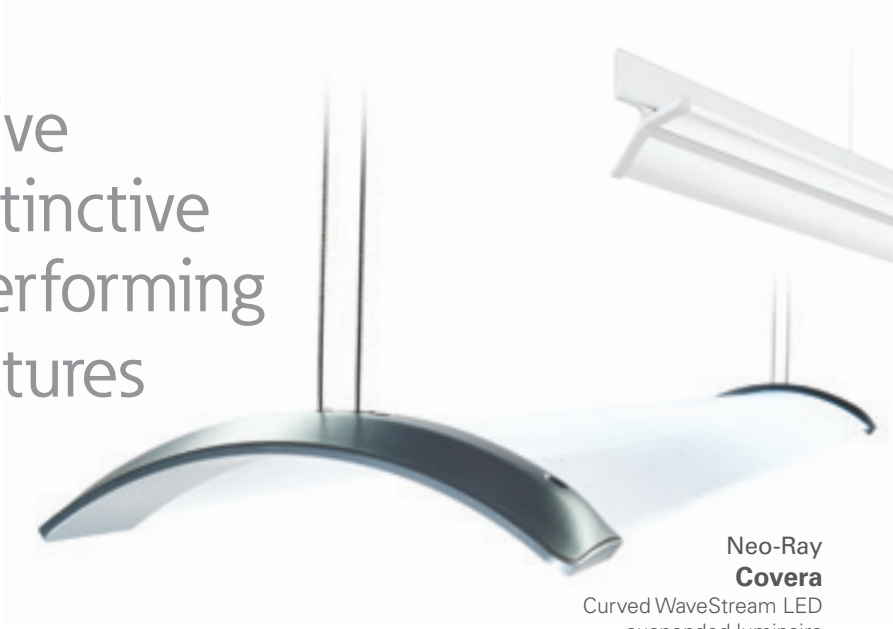
Conference room

Private office





# Attractive and distinctive high-performing LED fixtures



**Neo-Ray  
Covera**  
Curved WaveStream LED  
suspended luminaire with  
LuxWire™

**Neo-Ray  
Converge**  
WaveStream  
LED suspended  
luminaire with  
LuxWire™

## Architectural lighting

### Ambient lighting



**Metalux  
GRLED**  
LED recessed ambient



**Metalux  
FR\***  
LED recessed ambient



**Corelite  
Bridge**  
Architectural  
recessed  
WaveStream LED



**Metalux  
Arcline\***  
Architectural recessed ambient



**Metalux  
Cruze\***  
LED recessed ambient



**Metalux  
SkyRidge\***  
Recessed ambient  
WaveStream LED



**Metalux  
Encounter\***  
Recessed ambient  
WaveStream LED

*\*Some models available with integrated sensors*

# Ready to get started?



## **New construction:**

Simplify installation and system configuration while saving time and money.

## **Renovation:**

Distributed architecture makes Eaton's DLVP System a perfect match for renovations of existing spaces. Line voltage is already in the space; converting to DC low-voltage makes spaces energy code compliant, more flexible and safe.

**"Took one person less than a day to install a 2,000 square foot space of lighting;** from running the wire to the power module and connecting all the fixtures to working order versus traditional wiring which would have taken two electricians over a day to wire the same amount of fixtures."

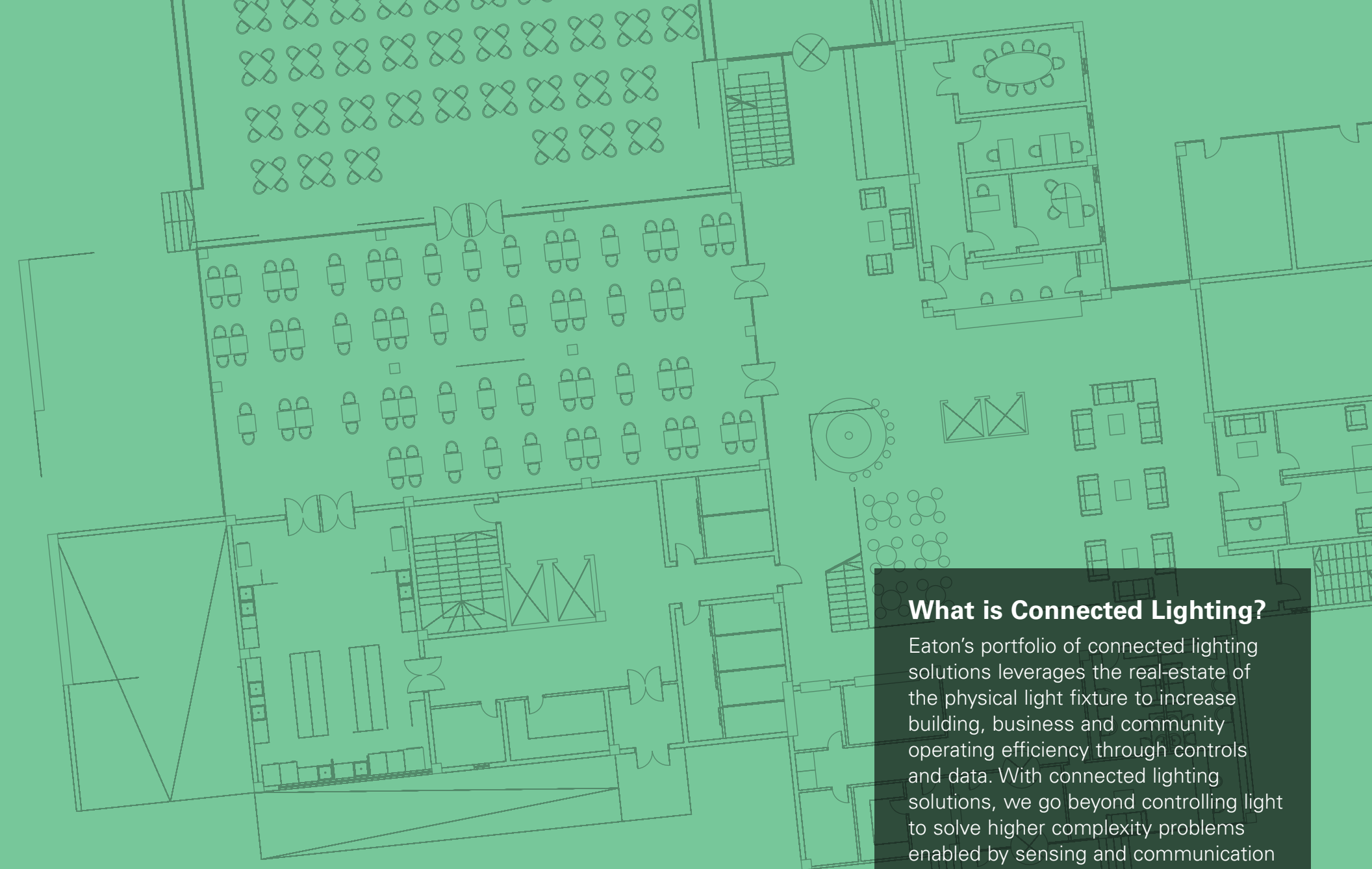
*- Contractor, Cincinnati, OH*

**"We have estimated before installation a 25% savings** in material dollars and **50% savings** in labor hours using DLVP."

*- Contractor, Atlanta, GA*

## **Are you looking to save money without sacrificing efficiency or flexibility?**

The value of Eaton's Distributed Low-Voltage Power System (DLVP) is in its simplicity and flexibility.



# We make connections work\*

Connected Lighting simplified by Eaton

## What is Connected Lighting?

Eaton's portfolio of connected lighting solutions leverages the real-estate of the physical light fixture to increase building, business and community operating efficiency through controls and data. With connected lighting solutions, we go beyond controlling light to solve higher complexity problems enabled by sensing and communication capabilities within the light fixture itself.

**With innovation you can rely on, and connections you can build on; that's how Eaton makes connections work\***

### **Lighting Product Lines**

Halo  
Halo Commercial  
Portfolio  
Iris  
RSA  
Metalux  
Corelite  
Neo-Ray  
Fail-Safe  
MWS  
Ametrix  
Shaper  
io  
Lumark  
McGraw-Edison  
Invue  
Ephesus  
Lumière  
Streetworks  
AtLite  
Sure-Lites

### **Controls Product Lines**

Greengate  
iLumin  
Zero 88  
Fifth Light Technology  
iLight (International Only)

### **Connected Lighting Systems**

LumaWatt Pro  
WaveLinx  
Distributed Low-Voltage Power  
ConnectWorks



**Eaton**  
1121 Highway 74 South  
Peachtree City, GA 30269  
P: 770-486-4800  
[www.eaton.com/lighting](http://www.eaton.com/lighting)

**Canada Sales**  
5925 McLaughlin Road  
Mississauga, Ontario L5R 1B8  
P: 905-501-3000  
F: 905-501-3172

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May 2017

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