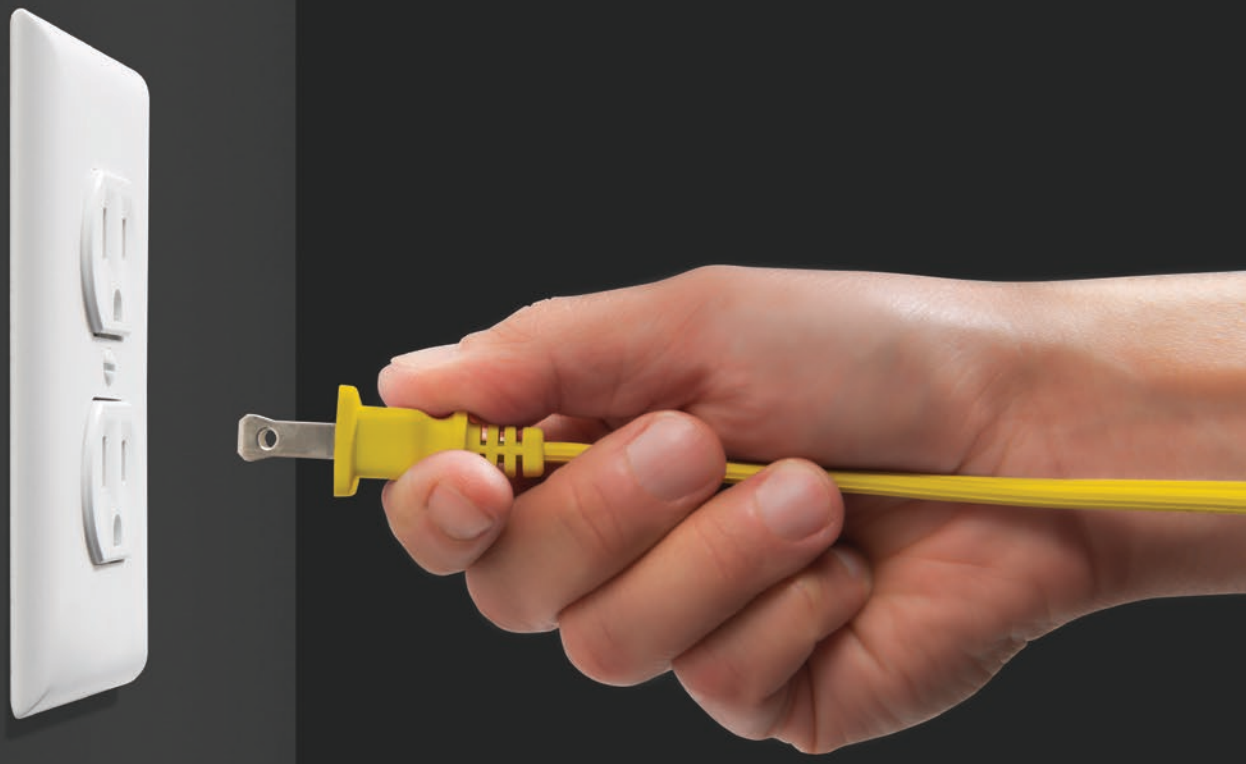
lumenpulse™

lumentalk™

Effortless, Flexible Lighting Control
Using Existing Powerlines.

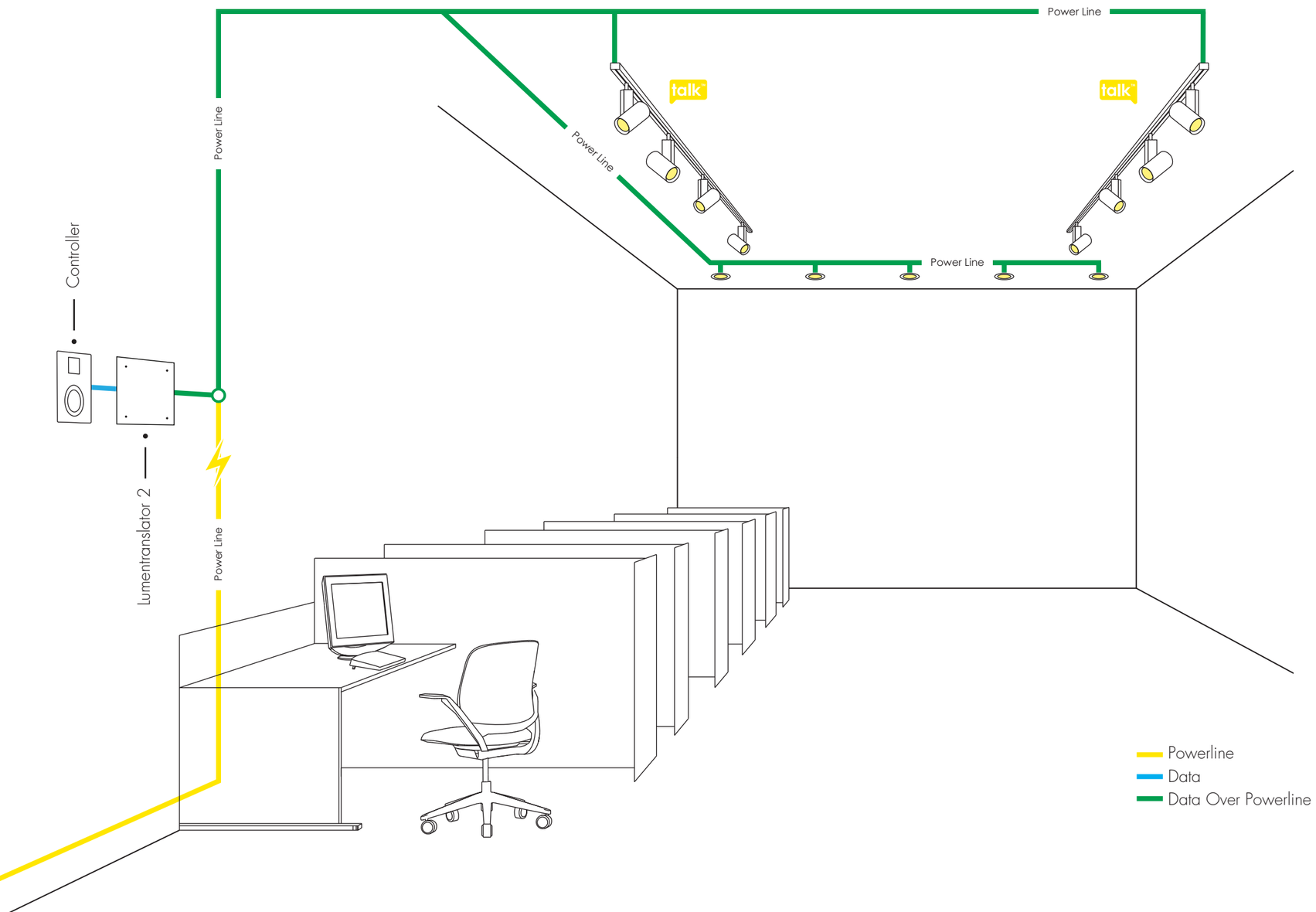


Lumentalk enables you to introduce modern, addressable lighting control over your existing electrical wires without having to install new cables, saving you time, money and hassle.

How Lumentalk Works

Lumentalk turns regular electrical wiring into a stable digital addressable control network using DMX, DALI, 0-10V, or TRIAC.

Over 400+ projects woldwide are using Lumentalk.



A Simple and Economical Solution

Why don't you just use the existing power lines to control your lights? You can, you know. You can forget about costly rewiring, disruptive renovations, and altering the architecture.

A Reliable and Secure System

Lumentalk is a tried and tested technology. It is a digital, power line communicator that adapts to any situation. Lumentalk is not a controller, it facilitates transmission of standard protocols and all the wires you need are already sitting in your walls.

An Adaptable System

Because Lumentalk is a digital system, it is inherently flexible. You'll no longer be constrained by the physical layout of your wiring. Lumentalk is geared towards the future, you can regroup, reconfigure, and reprogram at will – digital control means freedom.

What Does Lumentalk Say?

These are just some of my superpowers.

I make converting to LED effortless and affordable.

I am future proof.
As your space evolves,
I easily adapt.

Unlike wireless, I'm secure.
I can't be hacked remotely.

I save you the cost of adding new wiring, costly renovations, and altering your structure.

With me, your existing, AC wires become data-carrying, color-changing, digital communicators.

I won't harm the architecture. No need for new conduits or drilling new holes through old stone.

I speak all the languages: DMX, DALI, TRIAC, 0-10V.

What's new with you, Lumentalk?

After over ten years of solving your lighting control challenges, Lumentalk has evolved further into the future.

Color Changing

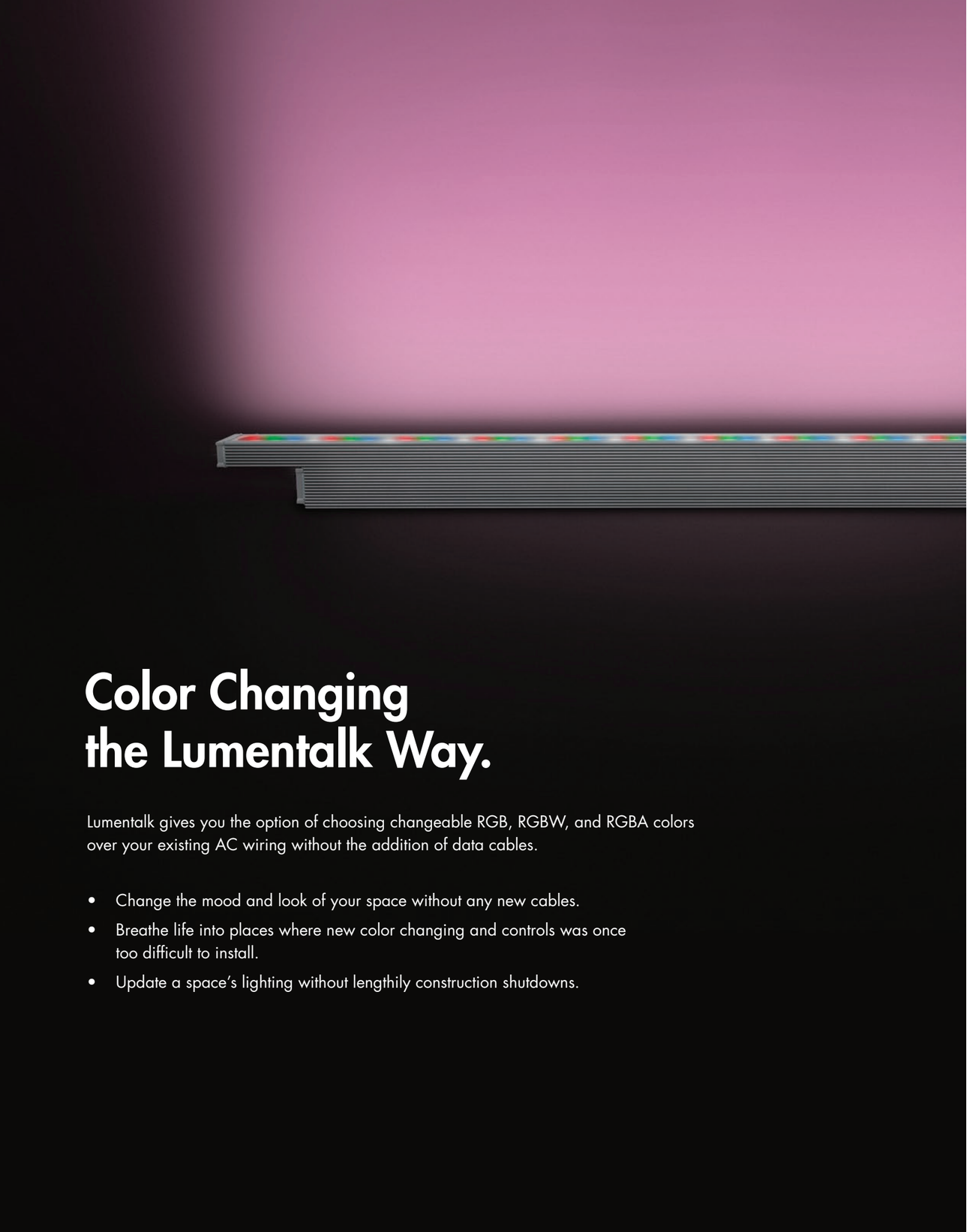
You now have full color-changing control, RGB, RGBW, or RGBA. Whatever the season, whatever the celebration, Lumentalk will help you tell your lights what to wear.

Dynamic White and Warm

Now all your Dynamic White and Warm wishes will be granted. Enjoy the full flexibility of tuning the color temperature of your luminaires to your life.

Control Options

Lumentalk is not only compatible with TRIAC, 0-10V, and DMX, it is now compatible with DALI and Ethernet as well. Now we're talking.



Color Changing the Lumentalk Way.

Lumentalk gives you the option of choosing changeable RGB, RGBW, and RGBA colors over your existing AC wiring without the addition of data cables.

- Change the mood and look of your space without any new cables.
- Breathe life into places where new color changing and controls was once too difficult to install.
- Update a space's lighting without lengthily construction shutdowns.

Give you projects a colorful life without the strife of more data wiring.

Scene Setting
Use static color to mark occasions and celebrate events.

Scene 1

Scene 2

Scene 3

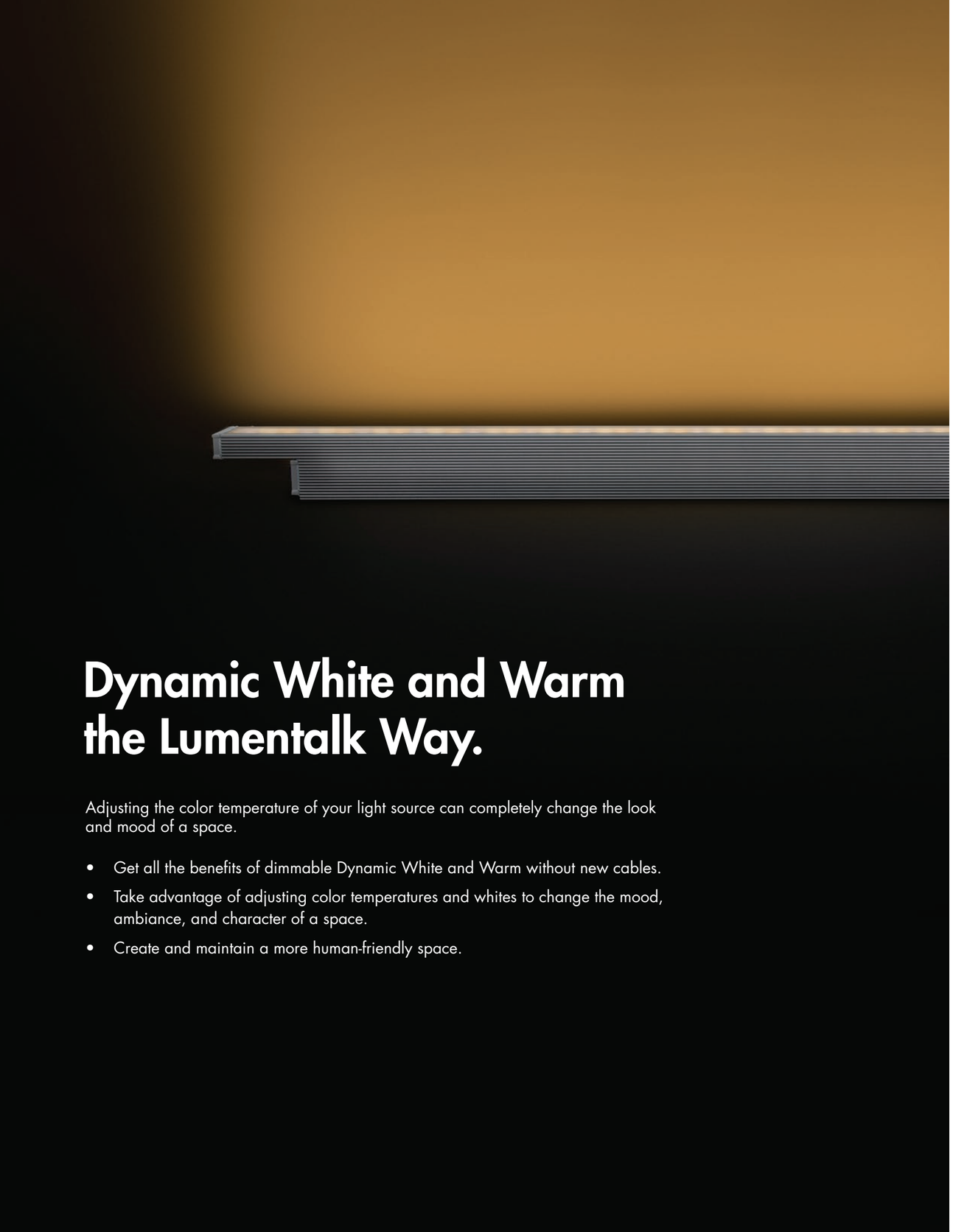
Slow Fade
Attract attention and turn your building into a dynamic, eye-catching structure.

0 min.

5 min.

10 min.

Lumentalk is ideal for the vast majority of your color changing needs, but if you are looking for a fast color show, our wired DMX/RDM or Ethernet systems are the way to go. Ask our support team for more information.



Dynamic White and Warm the Lumentalk Way.

Adjusting the color temperature of your light source can completely change the look and mood of a space.

- Get all the benefits of dimmable Dynamic White and Warm without new cables.
- Take advantage of adjusting color temperatures and whites to change the mood, ambiance, and character of a space.
- Create and maintain a more human-friendly space.

Controlling color temperature is easier than you thought with Lumentalk.

Dynamic White
As applications and needs change, Dynamic White adapts, creating perfect white light for all settings.

7 AM – 6000K

12 PM – 5000K

4 PM – 3000K

Dynamic Warm
Create a full, dim to warm ambiance that is programed to your design and brand.

7 PM – 2700K
100% intensity

10 PM – 2500K
50% intensity

12 PM – 2200K
10% intensity

Lumentalk Not Only Talks the Talk, it Walks the Walk

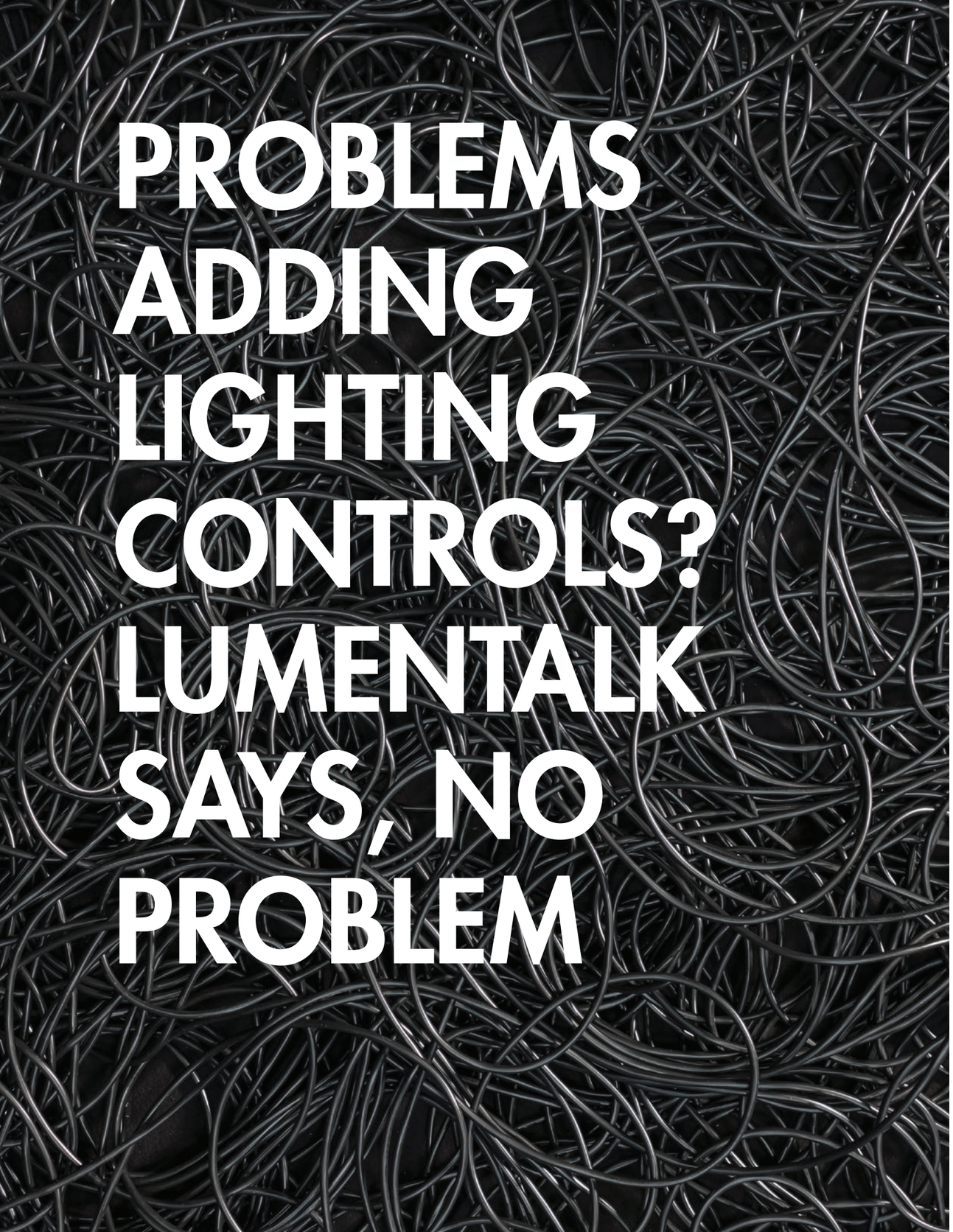
1. Tread Lightly
Enjoy the benefits of reduced energy use by dimming and controlling your luminaires, all while lessening your project's environmental footprint.

2. Less Shutdown
By using existing wiring and not adding new data wires, you not only reduce installation costs, shutdown time due to construction is also minimized. You also get a lighting system that is compatible with central control systems, thereby eliminating the need for multiple dimmers or controllers.

3. Showtime Flexibility
Lumentalk offers the ability to do scene-setting and re-configure a space without re-wiring. You simply reprogram to suit your needs.

4. Dynamic Dynamo
Individually addressable fixtures let you embrace color in spaces where it wasn't possible before. With Lumentalk, you can also control individual track fixtures even if connected to a single circuit.

Lumentalk Lumimaires Are Individually Addressable.



Lumentalk Says No to Problems

1. **Heritage Buildings**
   Easy, no need to re-wire or scratch the art. Using the existing power lines means you don't need to alter or compromise the existing architecture.

2. **Wiring Obstacles**
   Steel girders, thick cement, no problem. Physical obstacles such as walls, busy streets, or pristine lawns can be easily conquered by using existing power lines.

3. **Construction Reduction**
   Construction time and long shutdowns will be greatly reduced. There is no need to buy miles of new data cables and pay for their installation.

4. **Accessibility**
   Too high? Too far? Too wide? Too much? Not anymore. Hard to reach places that could cost you a fortune to access and retrofit are no problem.

Lumentalk is changing the
way the world thinks
about lighting control.

The Center for Character and Leadership Development, Colorado Springs, CO, USA
Lighting Design: Brandston Partnerships Inc.

Lumentalk has solved these challenges and more in over 400+ projects. Look at what Lumentalk can do for you.

Boston City Hall, Boston, MA, USA
Lighting Design: Lam Partners Inc.

talk™

The Boston City Hall

Lumentalk used the existing wiring as a digital addressable network of communication to achieve full-color control capabilities without drilling through the 3-foot thick, concrete walls.

Lumentalk benefits

Architectural Preservation

Control

No New Cables

Color-changing

How Lumentalk solved it

Converted DMX data so it could be sent over AC wiring.

Preserved the historical structure intact.

Brought dynamic light to a site that was previously challenging.

Saved thousands of dollars on new data cables and control boxes.

What was required

311 × Lumentalk-enabled luminaires

12 × Lumenlink PRO

3 × Lumentranslator 2

1 × Pharos controller

What was not required

Thousands of feet of new data wiring.

Hours of additional labor.

Months of disruptive construction.

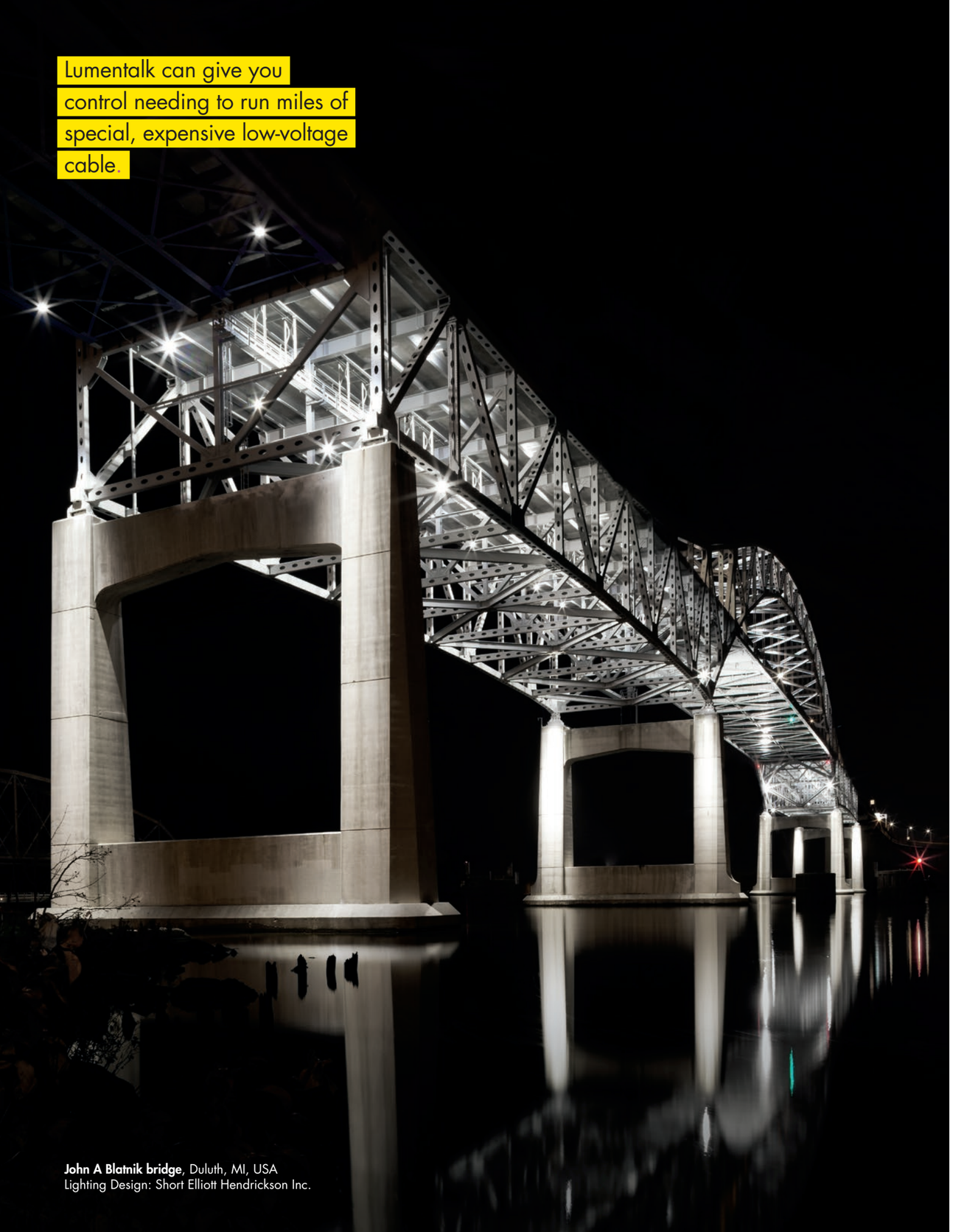
Additional conduits.

Drilling through the thick, concrete structure.

Lumentalk saved the day by
not having to run new control
wiring through the stone and brick
of this heritage structure.

Fairmont Empress Hotel, Victoria, BC, CAN
Lighting Design: L'Observatoire International

Lumentalk can give you control needing to run miles of special, expensive low-voltage cable.



John A Blatnik bridge, Duluth, MI, USA
Lighting Design: Short Elliott Hendrickson Inc.

talk™

The John A. Blatnik Bridge

Lumentalk technology was used to bring LED lighting to Blatnik Bridge, saving the installation of new conduits, cables, and labour. The new lighting system reduced energy usage by 60%, increased flexibility and simplified maintenance.

Lumentalk benefits

Control

No New Cables

Accessibility

Economical

How Lumentalk solved it

Converted DMX data so it could be sent over AC wiring across a bridge that is 7,975 feet long.

Reduced energy usage by 60%.

Saved thousands of dollars on new data cables and control boxes.

What was required

90 × Lumentalk-enabled luminaires

1 × Lumenlink PRO

1 × Lumentranslator 2

1 × Pharos controller

What was not required

Thousands of feet of new data wiring.

Hours of additional labor.

Months of disruptive construction and bridge closures.

Additional conduits.

The installation of control boxes.

Denver International Airport, Denver, CO, USA
Lighting Design: SNAIK Atelier Yann Kersalé Light Art & ME Engineers

Electrical wiring is everywhere. Use it to gain control of those hard to reach places.

The architectural significance of historic buildings won't be compromised by new conduits or drilling.

Chateau Frontenac, Quebec City, QC, CAN
Photographer: Claude Mathieu

talk™

The Chateau Frontenac

Lumentalk allowed the addition of color-changing, digital controls to the historic facade of this chateau without damaging the structure with the addition of new cables and conduits.

Lumentalk benefits

- Architectural Preservation
- Control
- No New Cables
- Color-changing
- Economical

How Lumentalk solved it

Converted DMX data so it could be sent over AC wiring.
Preserved the historical structure.
Brought dynamic light to a site that was previously challenging.

What was required

6 × Lumentalk-enabled luminaires
1 × Lumenlink PRO
2 × Lumentranslator 2
1 × Lumentouch 2.0

What was not required

New data wiring.
Hours of additional labor.
Disruptive construction.
Additional conduits.

Lumentalk lets you brighten
a piece of art without
scratching the paint.

St. James Cathedral, Seattle, WA, USA
Lighting Design: Eluned Lighting

Buckley Hall, Amherst, MA, USA
Lighting Design: Horton Lees Brogden

talk™

The Buckley Recital Hall

Lumentalk brought flexible digital lighting control without any rewiring. The new design has reduced maintenance costs by $50,000 (USD) per annum.

Lumentalk benefits

- Architectural Preservation
- Control
- No New Cables
- Accessibility
- Economical

How Lumentalk solved it

Converted DMX data so it could be sent over AC wiring.
Saved historically significant ceiling from being drilled into.
Brought control and zonal flexibility.
Reduced maintenance costs by $50,000 (USD) per annum.

What was required

164 × Lumentalk-enabled luminaires
3 × Lumenlink PRO
3 × Lumentranslator 2

What was not required

New data wiring.
Hours of additional labor.
Months of disruptive construction.

Next, Rugby, Warwickshire, UK
Photographer: Ian Robinson

Lighting applications can be easily and quickly updated and reconfigured.

Say goodbye to tearing up the street for new cables. Lumentalk turns the streets into a colorful experience at a fraction of the cost.

Castro Street Business District, San Francisco, CA, USA
Lighting Design: Lighting Systems Inc.

talk™

Castro Street

Lumentalk enlivened San Francisco Castro's Street Business District with color-changing, digitally programed LEDs without having to tear up the street.

Lumentalk benefits

- Control
- No New Cables
- No Construction
- Economical
- Color-changing

How Lumentalk solved it

Converted DMX data so it could be sent over AC wiring.
Made color changing possible.
Saved thousands of dollars not digging cables and control boxes.

What was required

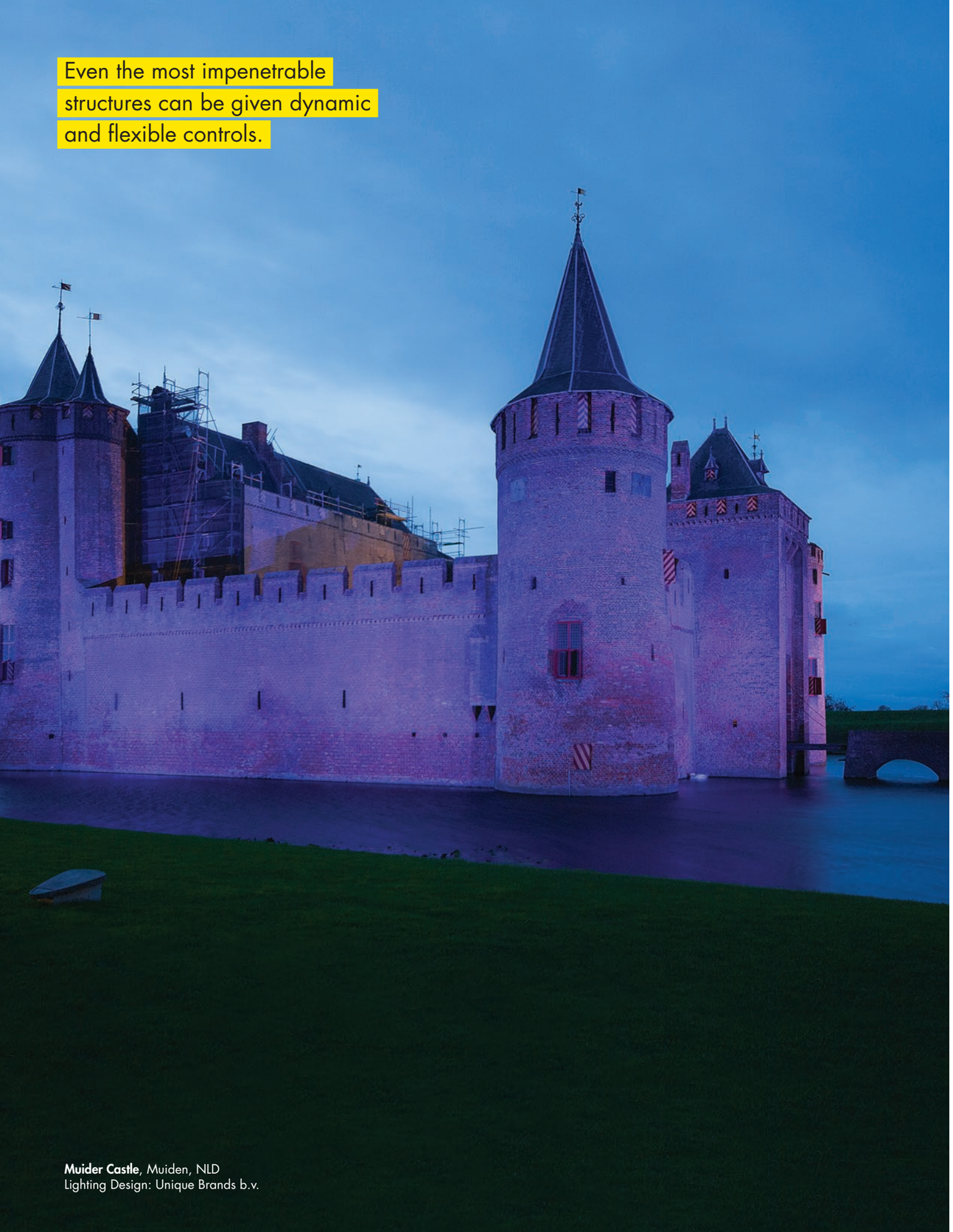
48 × Lumentalk-enabled luminaires
1 × Lumenlink PRO
2 × Lumentranslator 2
1 × Lumentouch 2.0

What was not required

Thousands of feet of new data wiring.
Hours of additional labor.
Complicated building permits.
Months of disruptive construction.

Lumentalk brought DMX color control to pole-mounted projectors without ruining the lawn.

SaskTel Center, Saskatoon, SK, CAN
Photographer: Steve Hiscock



Muider Castle, Muiden, NLD
Lighting Design: Unique Brands b.v.

Muider Castle talk™

Lumentalk gave the Muider Castle the freedom to upgrade to RGBW without having to excavate the surrounding grounds.

Lumentalk benefits

Control

No New Cables

No Construction

Economical

Color-changing

How Lumentalk solved it

Converted DMX data so it could be sent over AC wiring.
Preserved the surrounding landscape and structure.
Brought control and zonal flexibility.
Converting to LED dropped energy costs by 80%.
Saved thousands of dollars not digging cables.
Saved thousands of dollars on control boxes.

What was required

12 × Lumentalk-enabled luminaires
1 × Lumenlink PRO
1 × Lumentranslator 2

What was not required

Thousands of feet of new data wiring.
Hundreds of hours of additional labor.
An archaeological assessment or building permits.
The excavation of the surrounding landscape.

90 State Street, Albany, NY, USA
Lighting Design: American Energy Care

You've seen Lumentalk working through real problems. It feels like magic but it's actually technology. Here's a look behind the curtains at how Lumentalk will work for you.

The Lumentalk System

1. Controller

0–10V

TRIAC

DMX/Ethernet

DALI

2. Data translator

Lumentranslator 2

Translates input from controls and converts it to a digital signal over the power lines for local zone control.

Lumenlink PRO

The gateway that carries Lumentalk communication across multiple circuits and phases.

Lumentalk data bridge

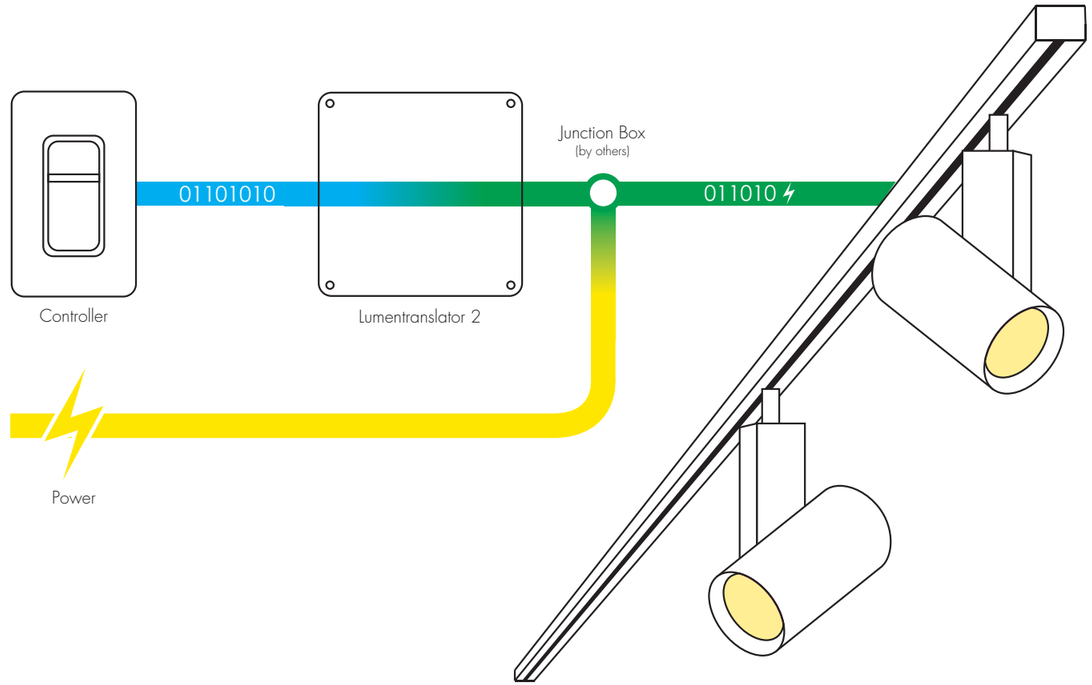
Enables a digital interface for Lumenpulse luminaires that aren't Lumentalk enabled.

3. Lumentalk enabled luminaires

Outdoor products

Indoor products

How does Lumentalk work?

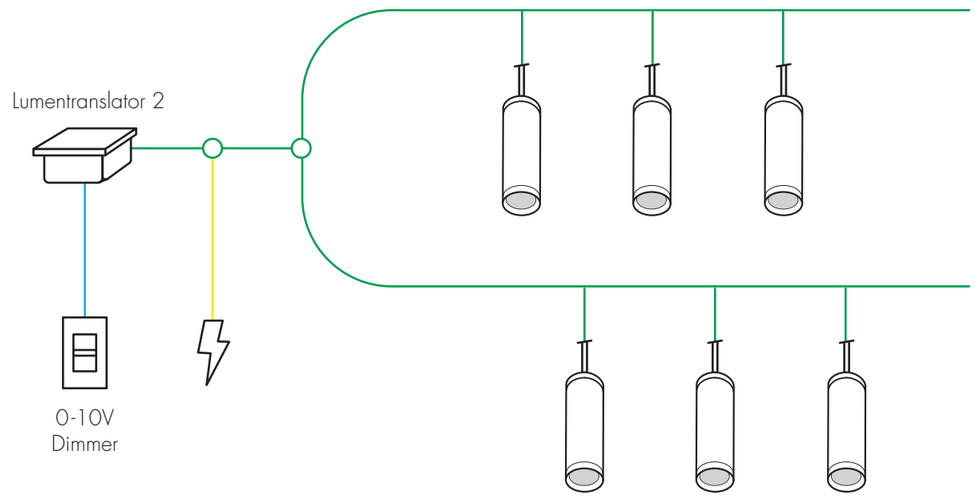


1. Your dimmer or control system speaks to a Lumentranslator 2 or Lumenlink Pro.
2. The Lumentranslator 2 passes the message on to your luminaires over the power line.
3. A digital, bidirectional control is established. Now, every luminaire has a voice and can send you information about itself in order to be commissioned.

0-10V with Lumentalk

Benefits

- A 0-10V controller with digital flexibility can create groupings and zones.
- Multiple dimmers can be used. Assign and reassign luminaires to your controllers.
- Decide which luminaires your controller speaks to.
- No second wire.
- The ability to dim to 0%.

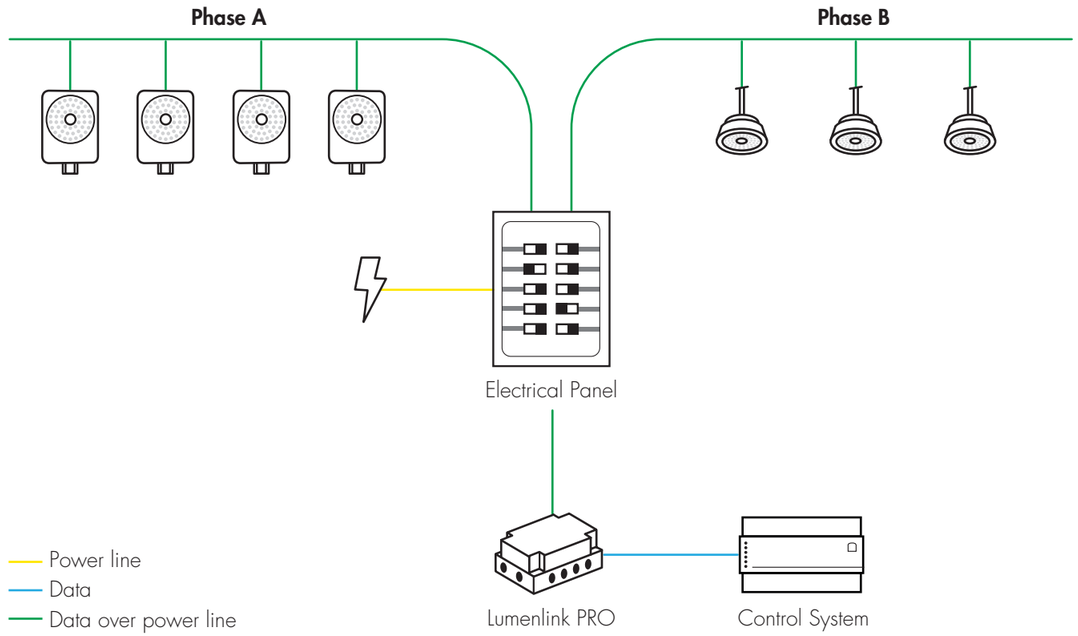


— Power line
— Data
— Data over power line

DMX, DALI, and Ethernet with Lumentalk

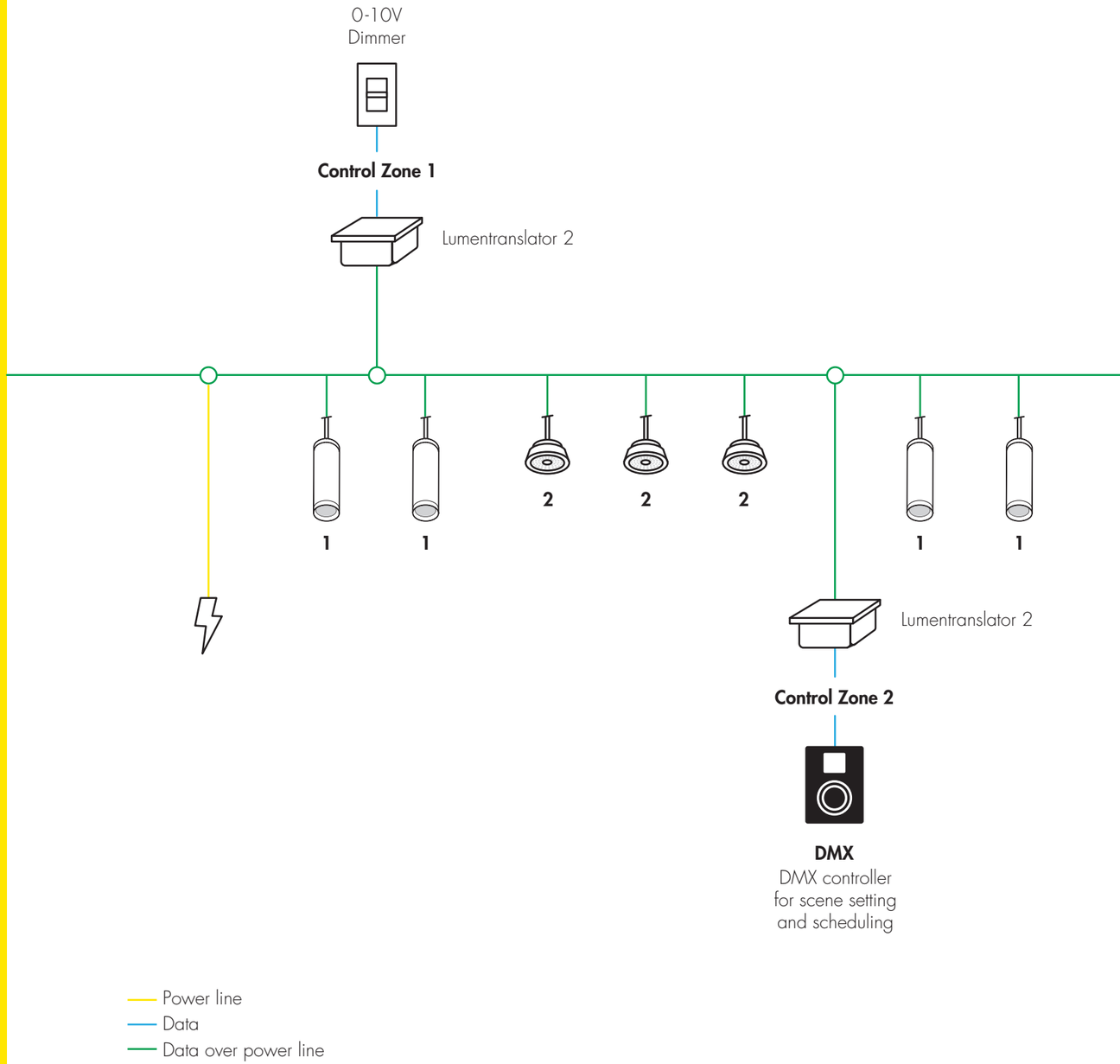
Benefits

- Simpler, no additional control boxes required (CBX, etc.).
- No additional low-voltage wiring to fixtures needed.
- Offers more wiring flexibility than DMX, DALI or Ethernet.
- Simplifies the adoption of dynamic lighting.
- Upgrade to color changing fixtures without the need to run control wires.



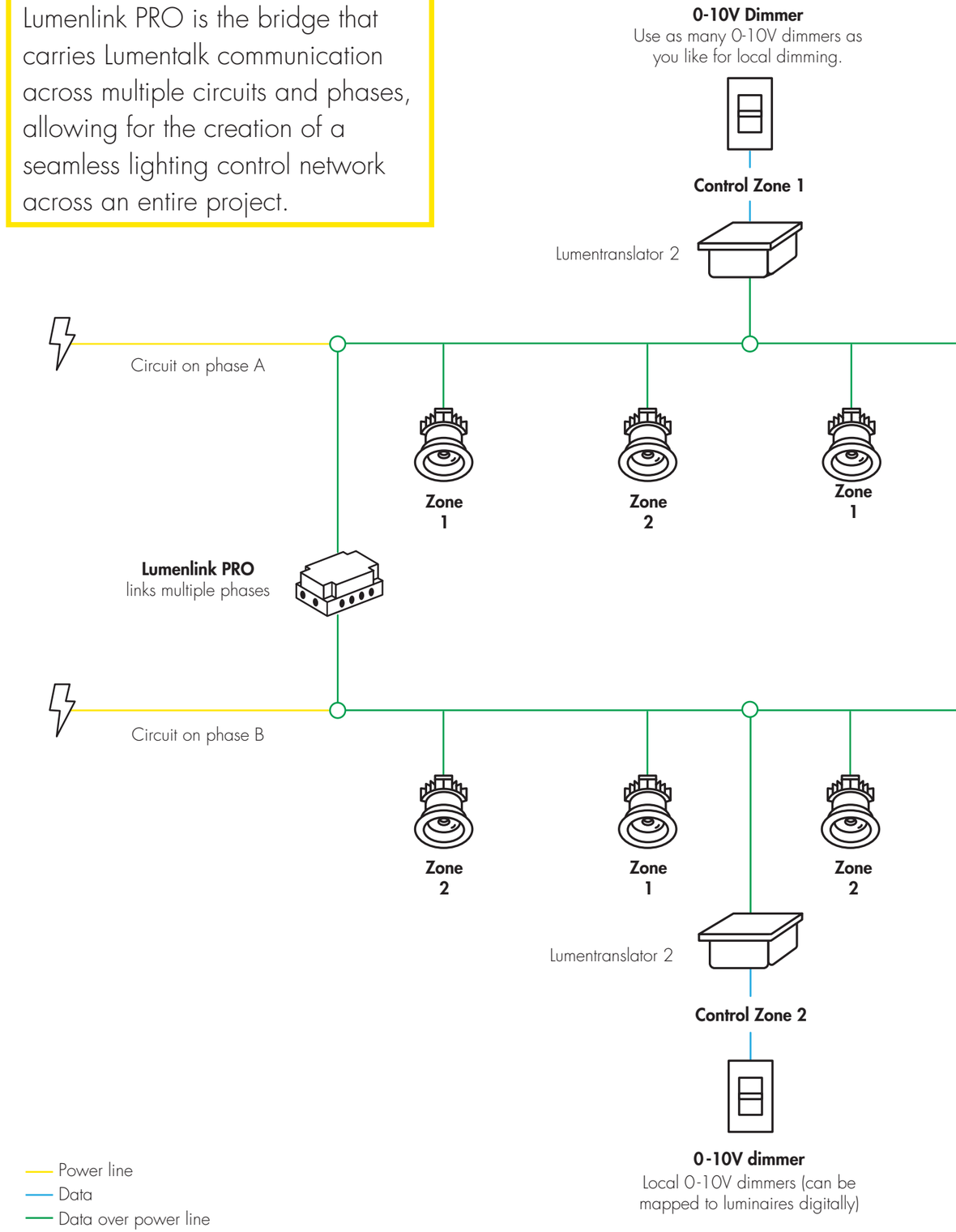
Multiple Controls in a Lumentalk System

Lumentalk lets you use multiple control protocols at once. Assign and reassign these controls to your luminaires as often as you like.



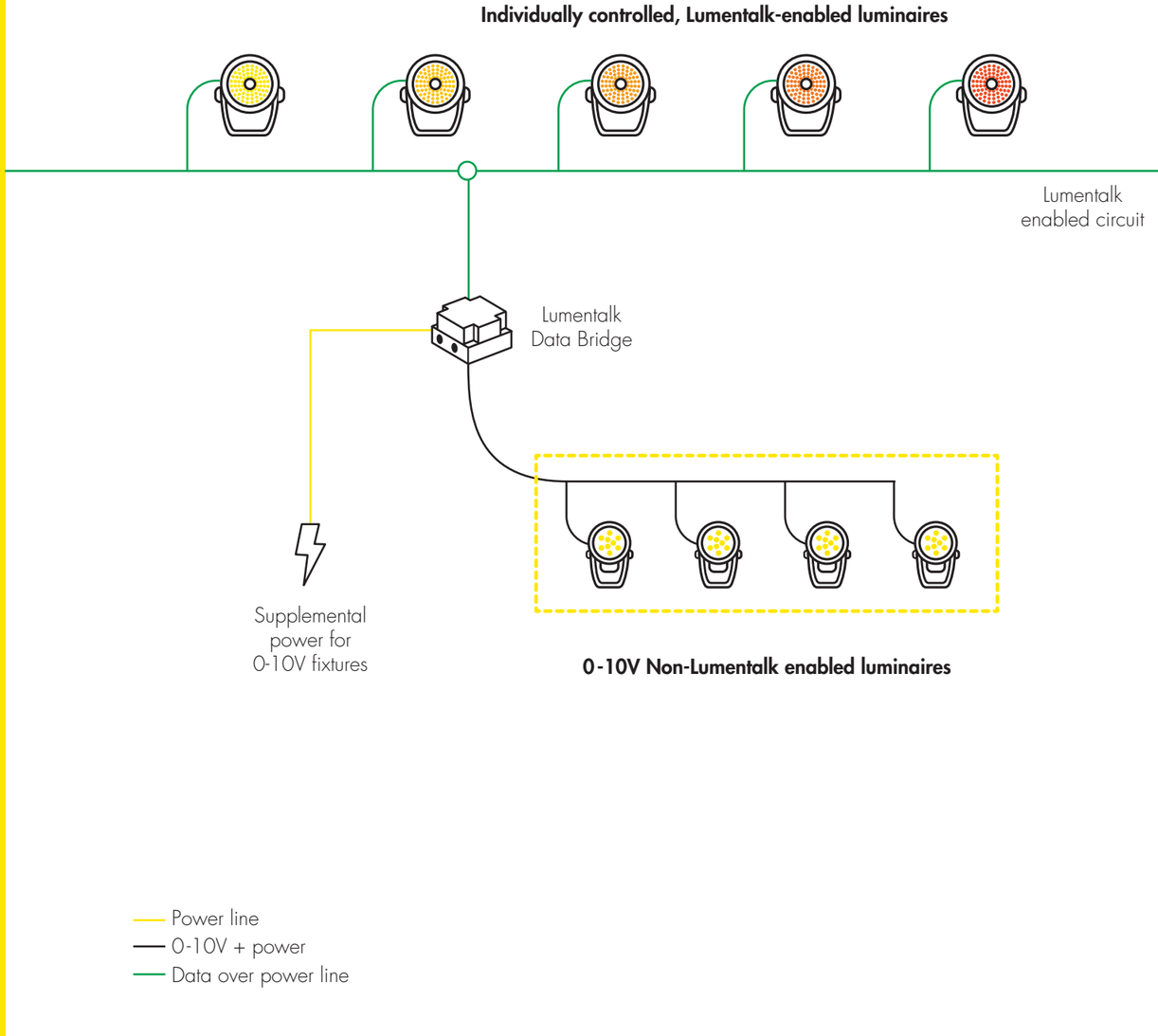
The Lumenlink PRO as a phase bridge in a Lumentalk system

Lumenlink PRO is the bridge that carries Lumentalk communication across multiple circuits and phases, allowing for the creation of a seamless lighting control network across an entire project.



The Role of the Lumentalk Data Bridge in a Lumentalk System

Create zones of non-Lumentalk luminaires and Lumentalk enabled luminaires.



When should I use Lumentalk?

1. When you need total flexibility.

2. When you want to save money on installation.

3. When your architecture prevents you from rewiring.

4. When you need DMX-style flexibility but can't afford the cost or hassle of running additional data wires.

Easy step-by-step ordering

STEP 1

What type of control will you be using?

- **0-10V, DMX or DALI** → Lumenlink PRO or Lumentranslator 2
- **TRIAC** → Lumentranslator 2*

STEP 2

Order your Lumenpulse luminaires and specify your Lumentalk dimming option.

STEP 3

Do all your desired luminaires have the Lumentalk option?

- **YES** → You are done
- **NO** → Lumentalk Data Bridge required* → You are done

*Consult factory for details.

For any other questions, please contact our Technical Support team at: appeng@lumenpulse.com.

FAQ

Q: What is the Lumentalk network?
A: The Lumentalk network is a single electrical circuit, or linked electrical circuits that share the same Lumentalk information. It is similar to an office communication network, where all devices can speak with and listen to all devices on the network. In order to expand your network, simply use a Lumenlink PRO to link more electrical circuits into your network.

Q: What is the cost of using Lumentalk?
A: You will not be paying for data cables, or the installation of data cables. The cost involved is only the Lumentranslators 2 and luminaires.

Q: What are Lumentalk's capabilities in terms of control and distances?
A: On a single Lumentalk network it is possible to control up to 1024 luminaires, grouped in up to 48 different zones. You can connect up to 32 independent controllers on the same network – controlling any luminaire from anywhere on the network.

Q: What are the performance capabilities of Lumentalk-enabled luminaires?
A: Lumentalk allows dimming of luminaires down to 1% intensity with a communication speed 2.5 times faster than DALI.

Q: How do you address and group luminaires into zones once on the Lumentalk network?
A: Lumentalk allows luminaires on the same network to be grouped into individually controllable zones which are assigned to controllers on that network. Through the use of the LumentalkID software, you can discover your luminaires, identify their location, and drag and drop them into your zones. For DMX addressable luminaires, simply assign DMX addresses to your luminaires using the same interface.

Q: Can Lumentalk be used with non-Lumenpulse luminaires?
A: Yes. Lumentalk technology is open to other manufacturers through our Lumentalk licensing program. For a current list of compatible manufacturers, please contact your Lumenpulse representative, or e-mail us at info@lumenpulse.com

Q: How do I determine how many Lumentranslators or Lumenlinks are needed?
A: Each dimmer or controller on your network requires a Lumentranslator 2. You can use a single Lumenlink PRO to branch up to 3 circuits or 3 phases together for coordinated control across your project. Up to 3 Lumenlinks PRO can be used on a single Lumentalk network. Please consult your electrical contractor for more information.

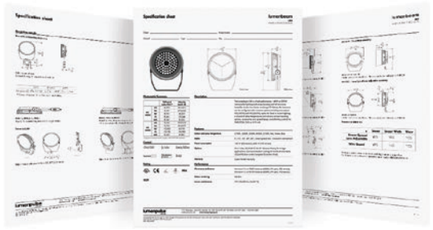
Q: Will Lumentalk work with my existing control system?
A: Yes. Lumentalk is a lighting control network designed to work with the full range of lighting control protocols. Whether your system makes use of a few sensors and dimmers, or is an advanced intelligent control system, Lumentalk can provide the gateway required to bring control to your luminaires.

Q: Will there be any latency problems using Lumentalk?
A: Latency may occur if there are more than 48 addresses being used. There is nearly zero latency with fewer than 48 addresses.

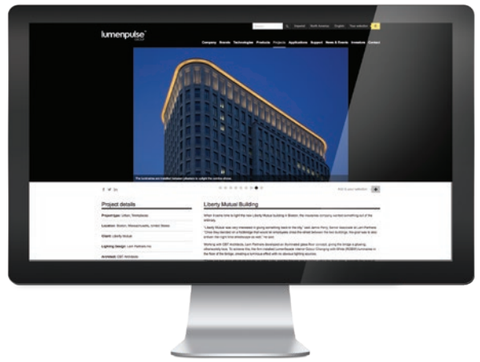
Q: Is Lumentalk compatible with voltages and electrical standards in my region?
A: Yes. Lumentalk has been developed for universal compatibility worldwide. It has a functional range from 100-277VAC 50/60Hz. Lumentalk is fully compliant with FCC and CENELEC communication standards to ensure problem-free integration with your project's existing electrical system.

Q: Lumentalk is bidirectional. What information can I collect from Lumentalk luminaires, and how can I access it?
A: Lumentalk luminaires store and communicate information about their configuration, temperature, lifetime and health. Simply connect to the Lumentalk network and query your luminaires to collect this information. For more details on how this works, please contact your Lumenpulse sales representative or contact info@lumenpulse.com

Building Energy Exchange, New York, NY, USA
Photographer: Brett Beyer



Documentation



Website

Support files

lumenpulse™

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