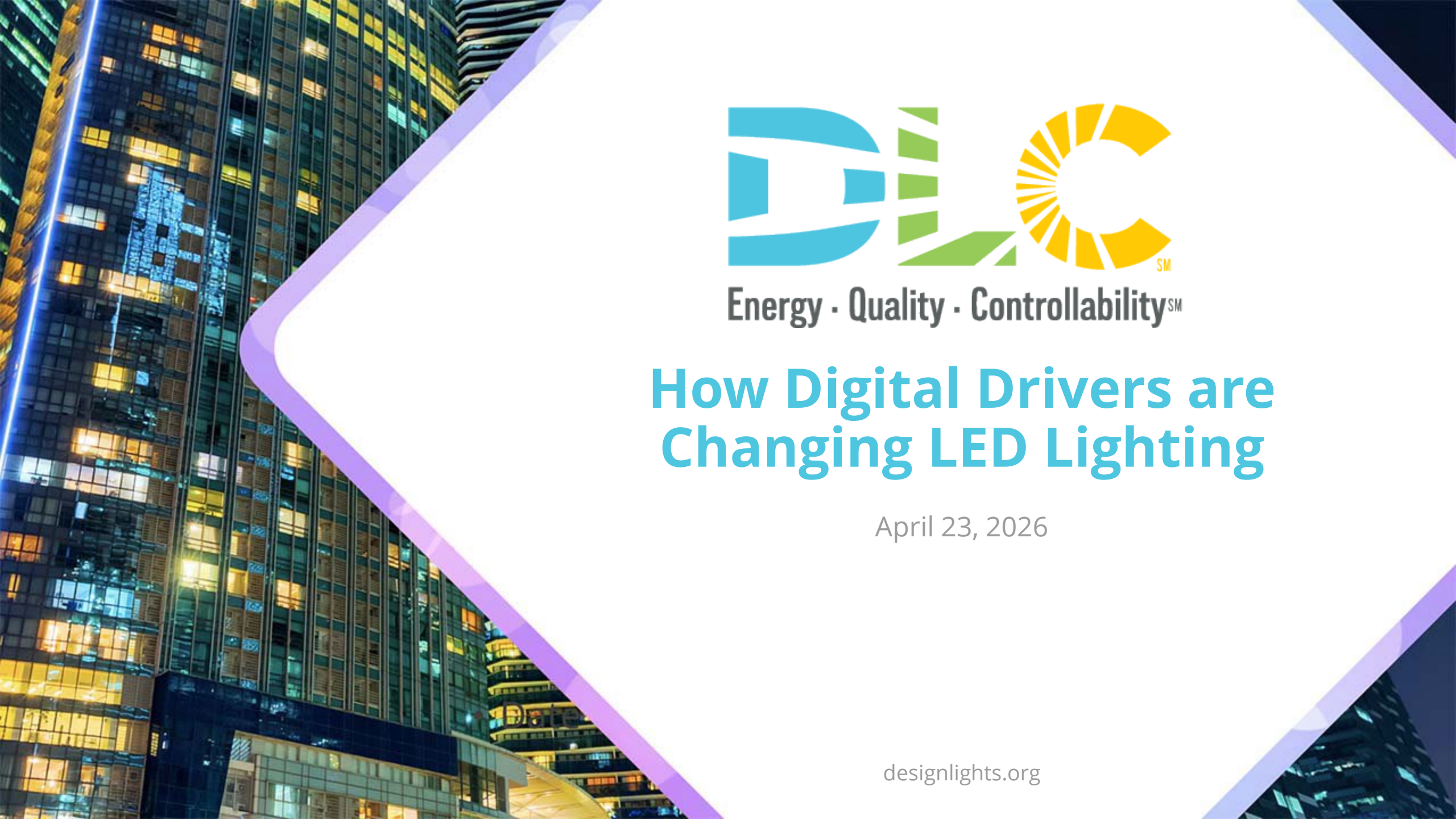


Energy · Quality · Controllability℠

How Digital Drivers are Changing LED Lighting

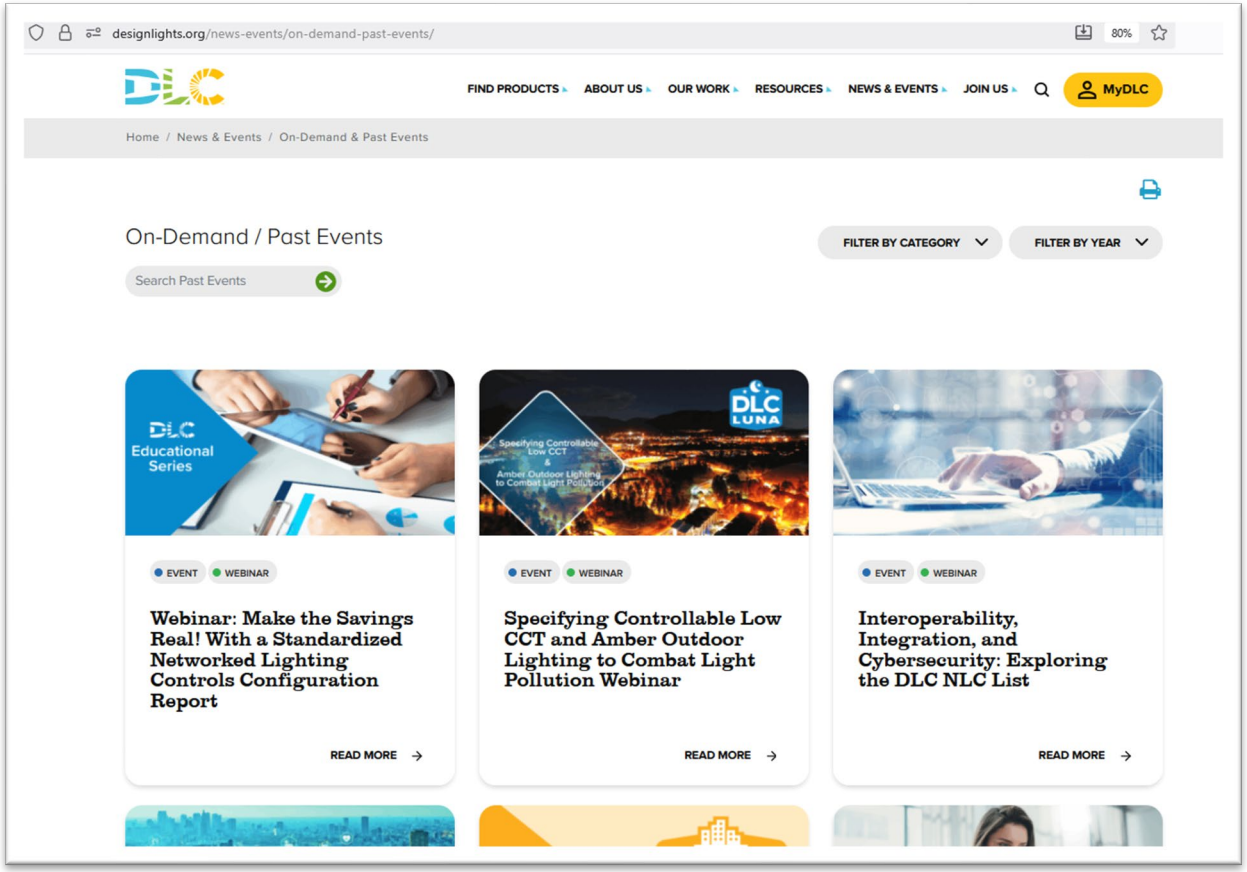
April 23, 2026

designlights.org

Welcome!

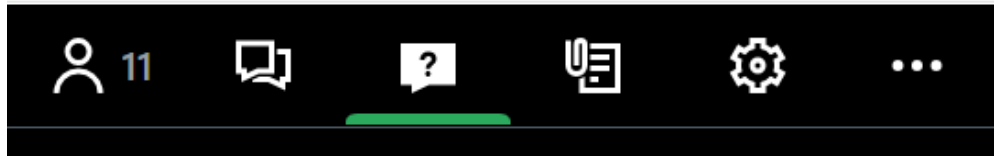
- **Slides and recorded webinar will be posted** on the *DLC News & Events* page at https://designlights.org shortly after today's presentation

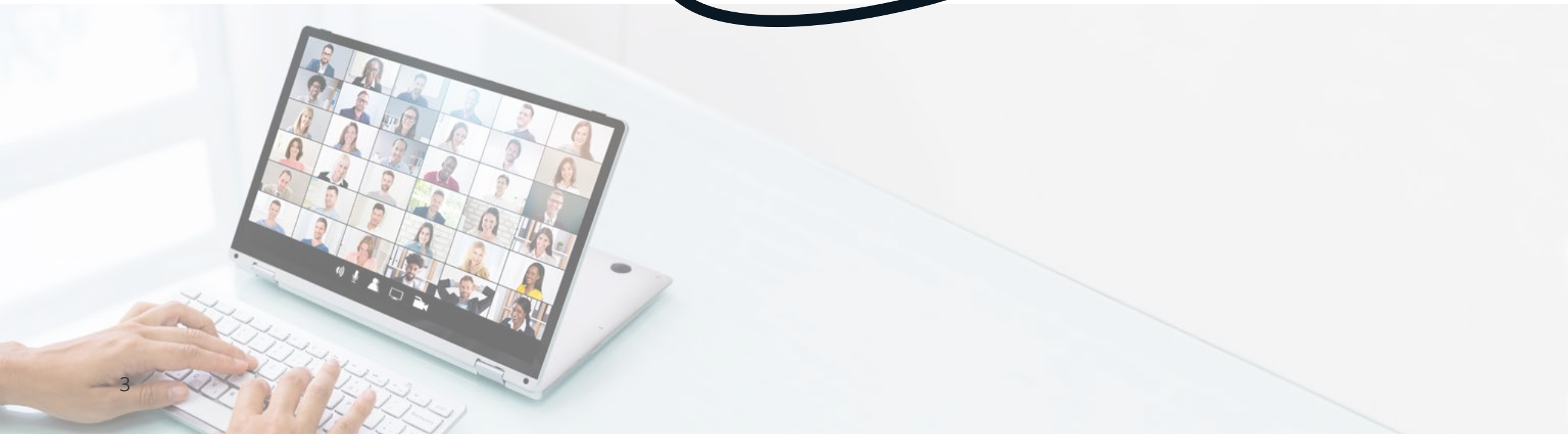
- All attendees are automatically muted



Webinar Orientation

- **Questions will be held until the end during a live Q&A**
  - **Use the Question pane (not Chat) to submit for Q&A**





The DesignLights Consortium is an independent, nonprofit organization providing decision makers with data and resources on quality lighting, controls, and integrated building systems to reduce energy, carbon, and light pollution.

Agenda

- Introductions
- Value of digital drivers
- DLC QPL and digital drivers
- 2026 DLC Summit
- Questions & Answers

Presenters

Stuart Berjansky
Technical Director

Carol Jones
NA Market Development Manager
DALI Alliance

Leora Radetsky
LUNA Program Director/ Senior Lighting Scientist

Jason Jeunnette
Technical Manger

What is a Digital Driver?

Individual Addressability

Two-Way Communication

The DALI Alliance

The global industry organization for **DALI®, the internationally-standardized protocol for digital communication between lighting-control devices.**

DALI is the language of lighting control:
State-of-the-art, global, digital, standardized, specialized for lighting, data-rich

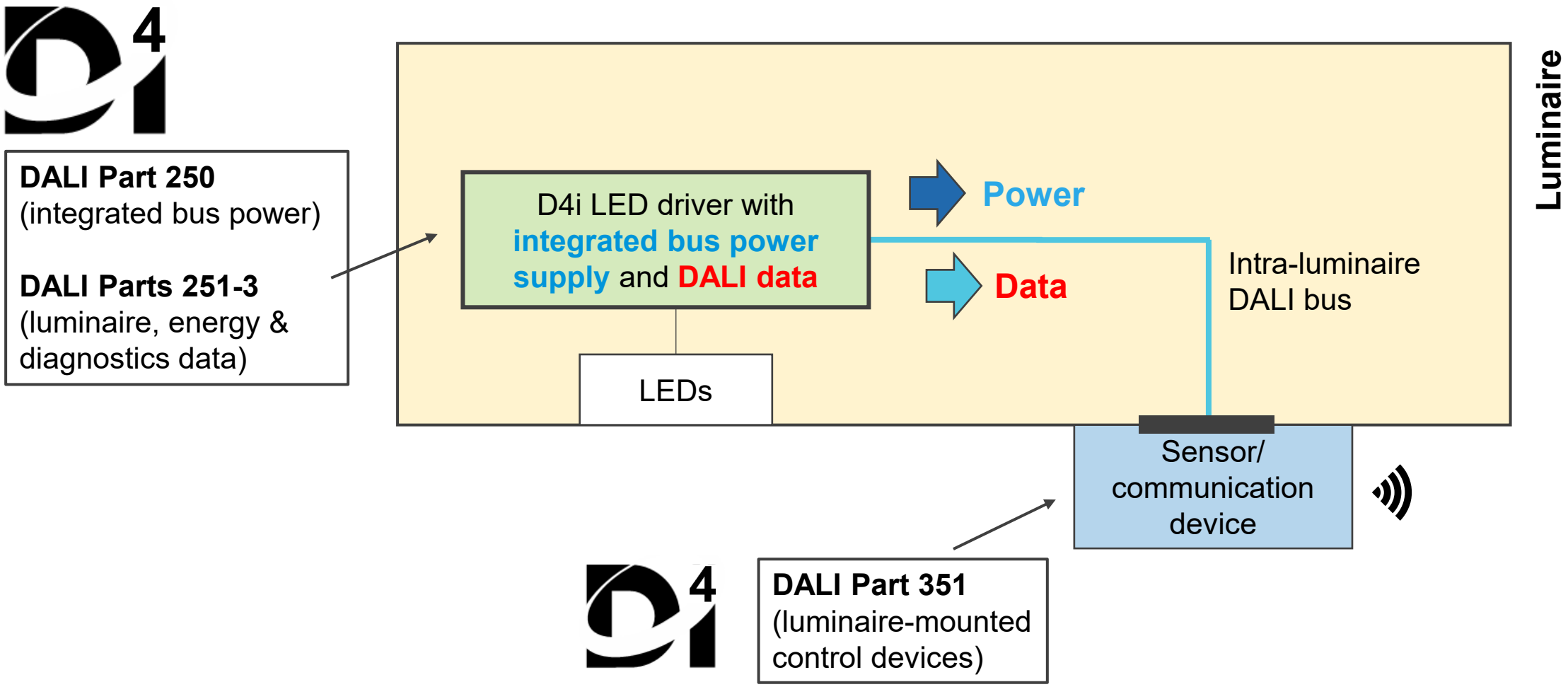
Product certification programs

Compliance with international standards, supporting cross-vendor interoperability

DALI 2	D4	DALI+
Lighting control in wired networks	Luminaire-level lighting control	Lighting control in wireless & IP networks

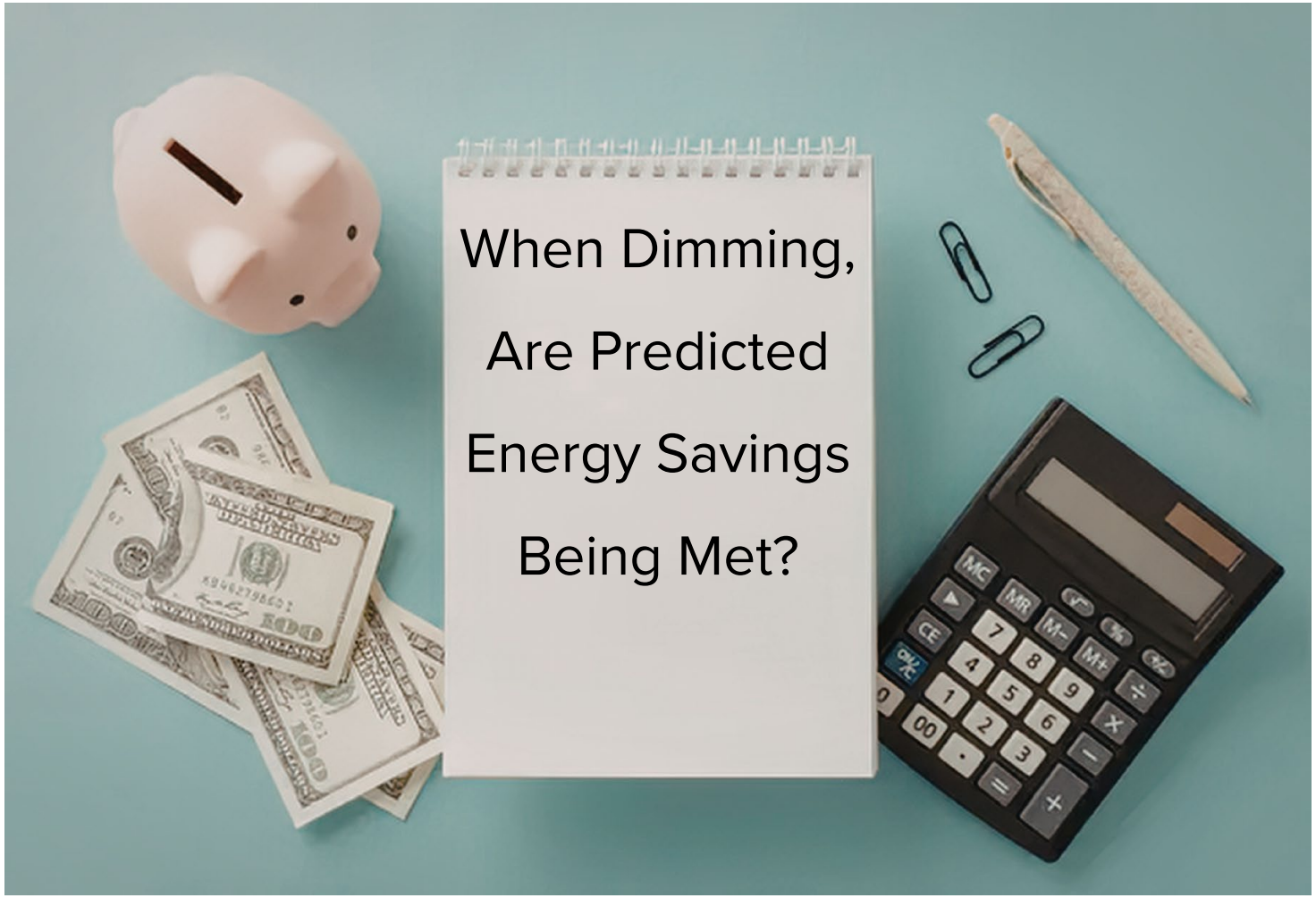
ALL USING THE DALI PROTOCOL

D4i example: Indoor luminaire



Accurate energy data

Important to Meet Energy Savings Plans



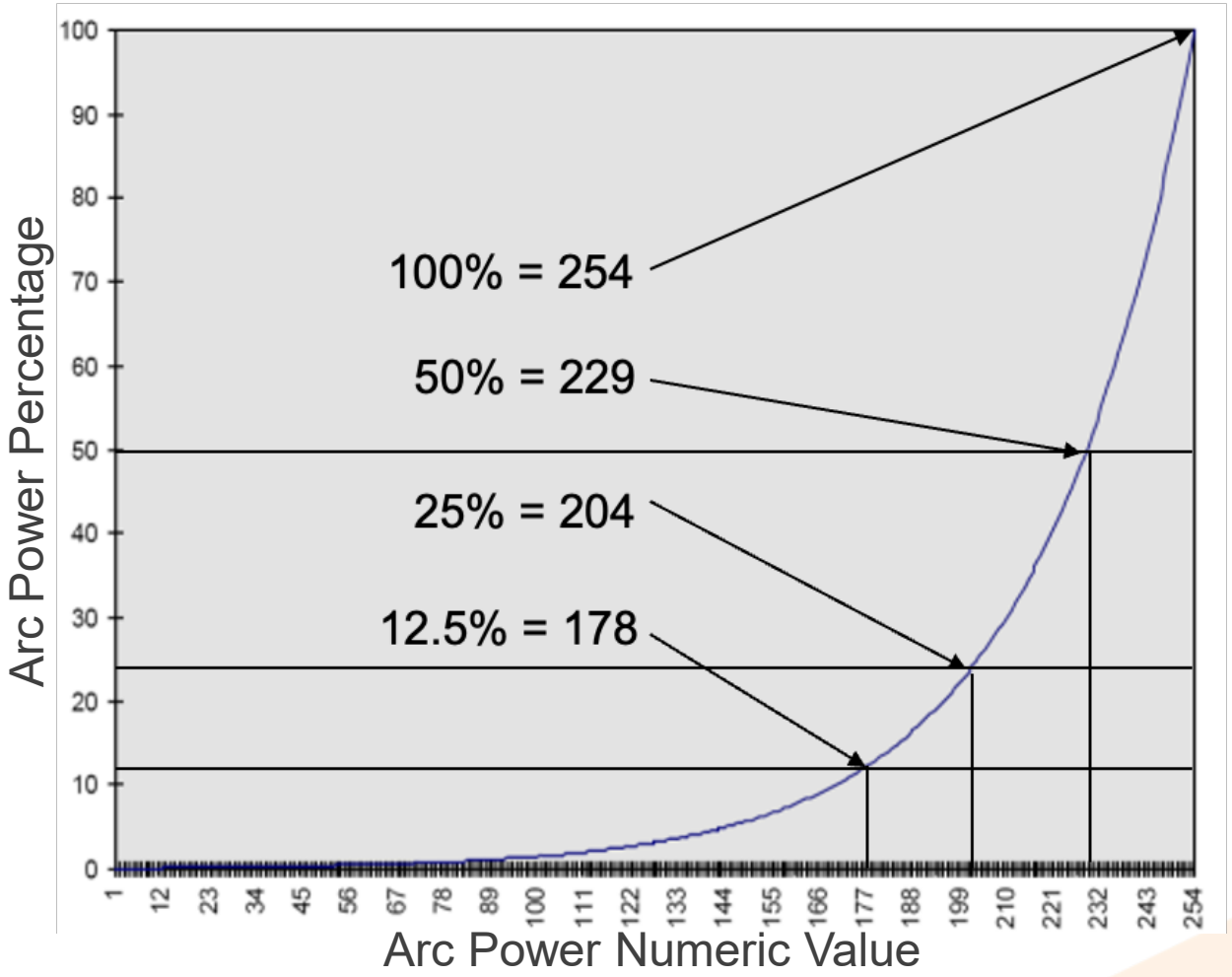
Data, Data, Data …… AI?

DALI Part 252: Energy

- Active Energy and Power
- Apparent Energy and Power (Optional)
- Load Side Energy and Power (Optional)

DALI Digital Logarithmic Dimming Curve 0.1 – 100%

6% - 152
3% - 126
1.5% - 101
0.75% - 75
0.1% - 1
0% - 0

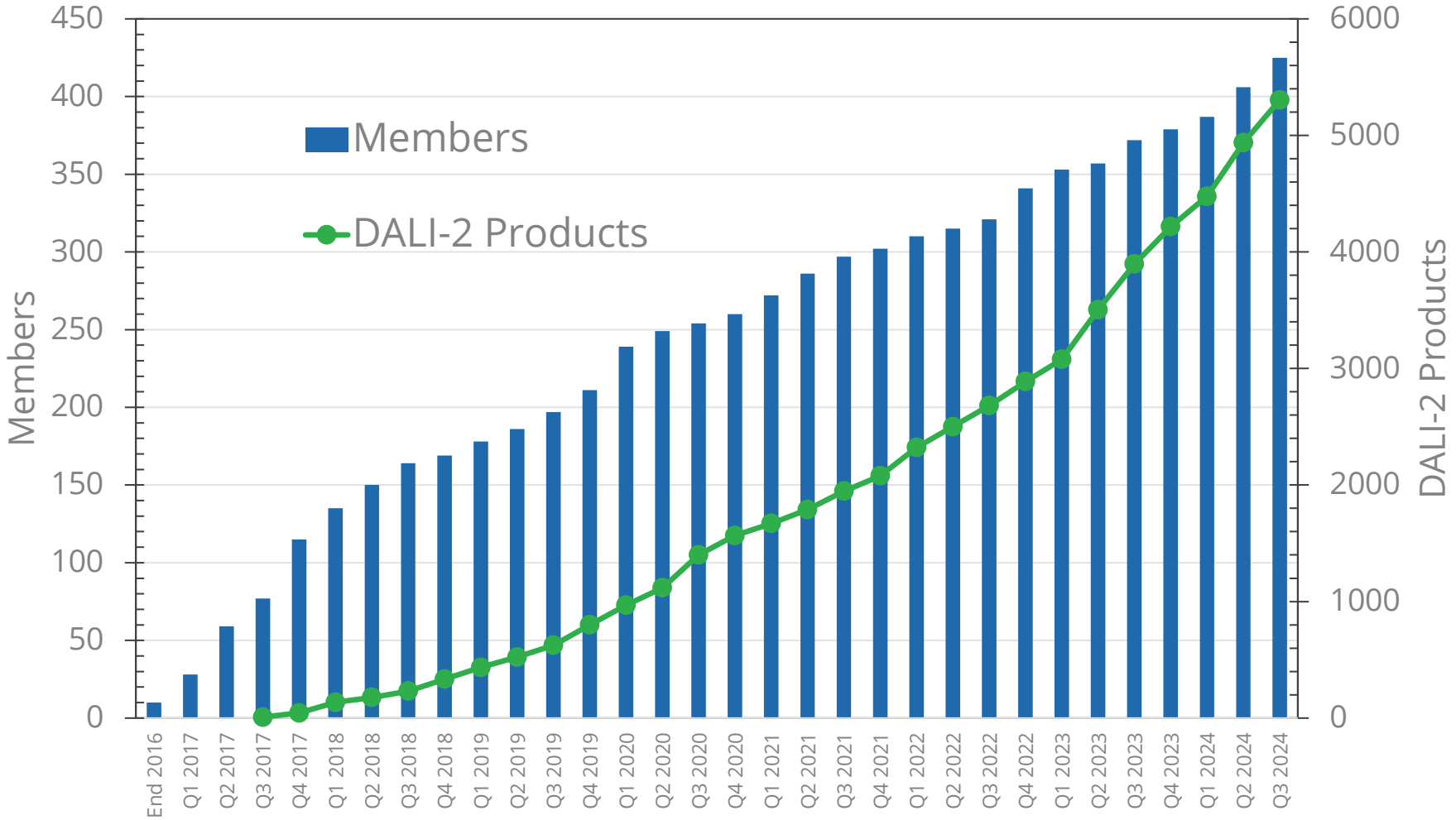


Courtesy: DALI-AG

Easier, less error prone, changeable during operations phase, increasing supply in NA

Initial and Maintained Cost is Important

Members and DALI-2 certified products



Through 19th October 2024

Members		Change in 2024
Regular	37	-1
Associate	322	+32
Community	66	+10
Total	**425**	**+46**

Products	
DALI-2	**5,303**
DALI v1	1,613
Total	**6,919**

LEDucation.org

HVAC Integration

Maximize Energy Savings with NLC-HVAC Integration

NLC-HVAC Integration Toolkit

Download Toolkit

https://designlights.org/resources/reports/nlc-hvac-integration-toolkit/

Addressability

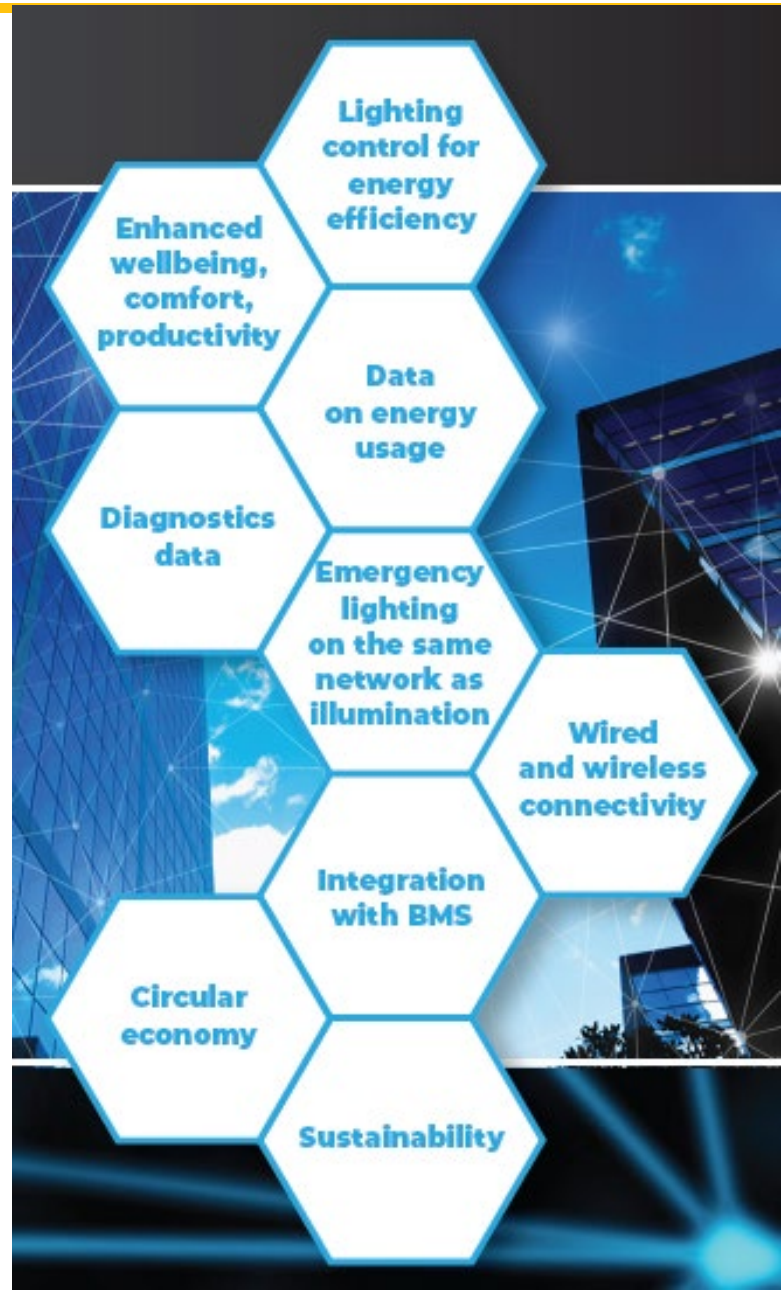
Electricity Demand is Increasing

Digital control of light quality with intelligent feedback

- Precise, repeatable **light-output control** and standardized dimming curve
- **Occupancy and light-level sensing**

  DALI-2 sensors and other input devices provide information to the system
- **Luminaire, energy & diagnostics data**

  Data for enhanced asset management & performance monitoring
- **Emergency lighting**, automated testing and reporting
- **Color control** for human-centric lighting, enhanced comfort and well-being
- DALI is already positioned for the **Internet of Things (IoT)**
- New specifications enable DALI connectivity via **wireless networks** and **IP-based networks**

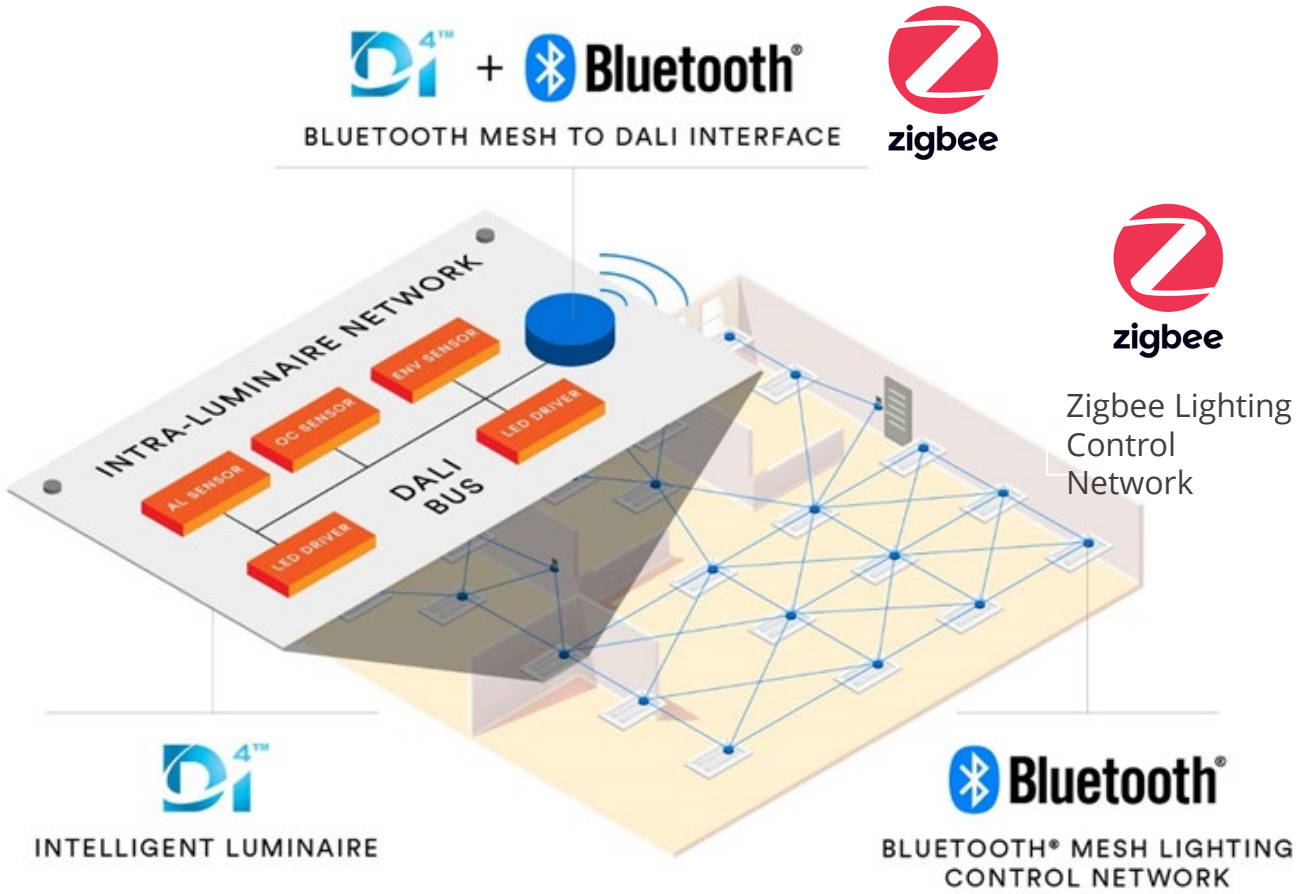


Interoperability and Fault Detection and Diagnostics

Sustained Operation is Important

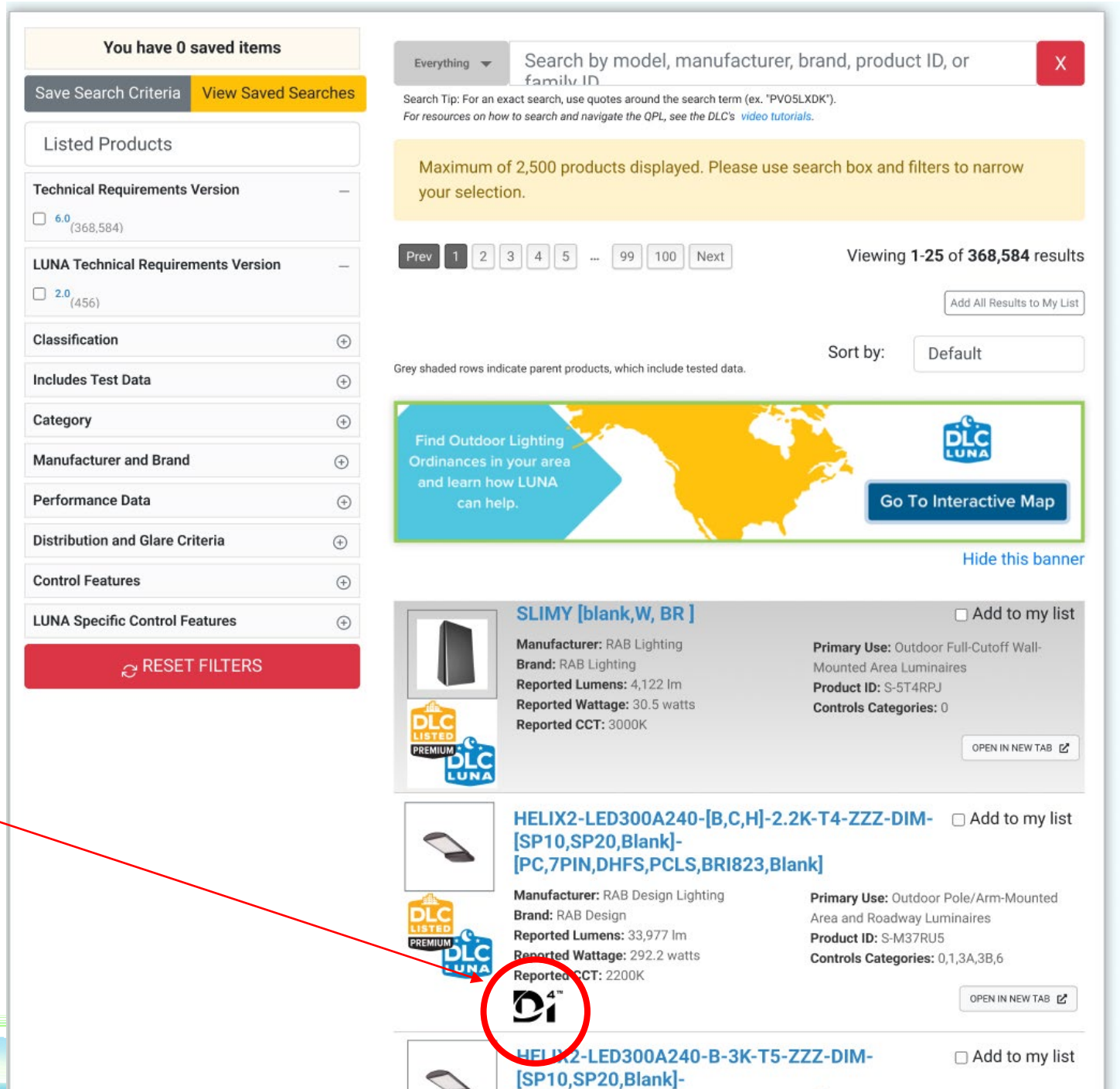
DALI Gateway to Bluetooth® NLC or Zigbee

- Enable DALI luminaires to communication and connect wireless onto a Bluetooth or Zigbee Mesh network
- A simple way to add standardized wireless mesh capability to luminaires
- Global cross-vendor interoperability between lighting components, wireless control systems, and intelligent luminaires
- Further accelerate the adoption of advanced IoT-enabled intelligent lighting systems
- DALI spec Part 341

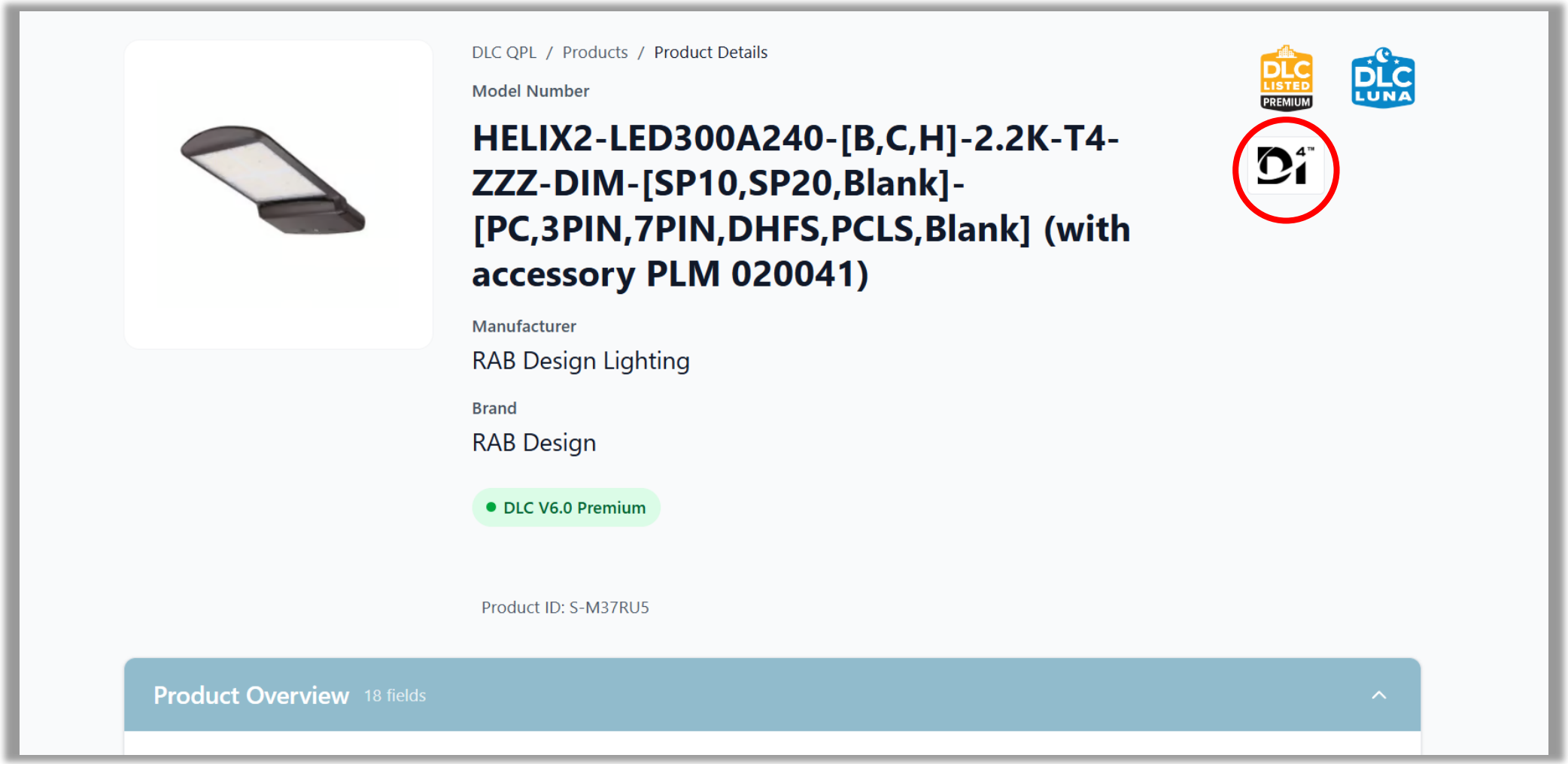


Product Listing Page View

Badges area



Product Detail Page Header



The DALI Alliance

The global industry organization for **DALI®, the internationally-standardized protocol for digital communication between lighting-control devices.**

DALI is the language of lighting control:
State-of-the-art, global, digital, standardized, specialized for lighting, data-rich

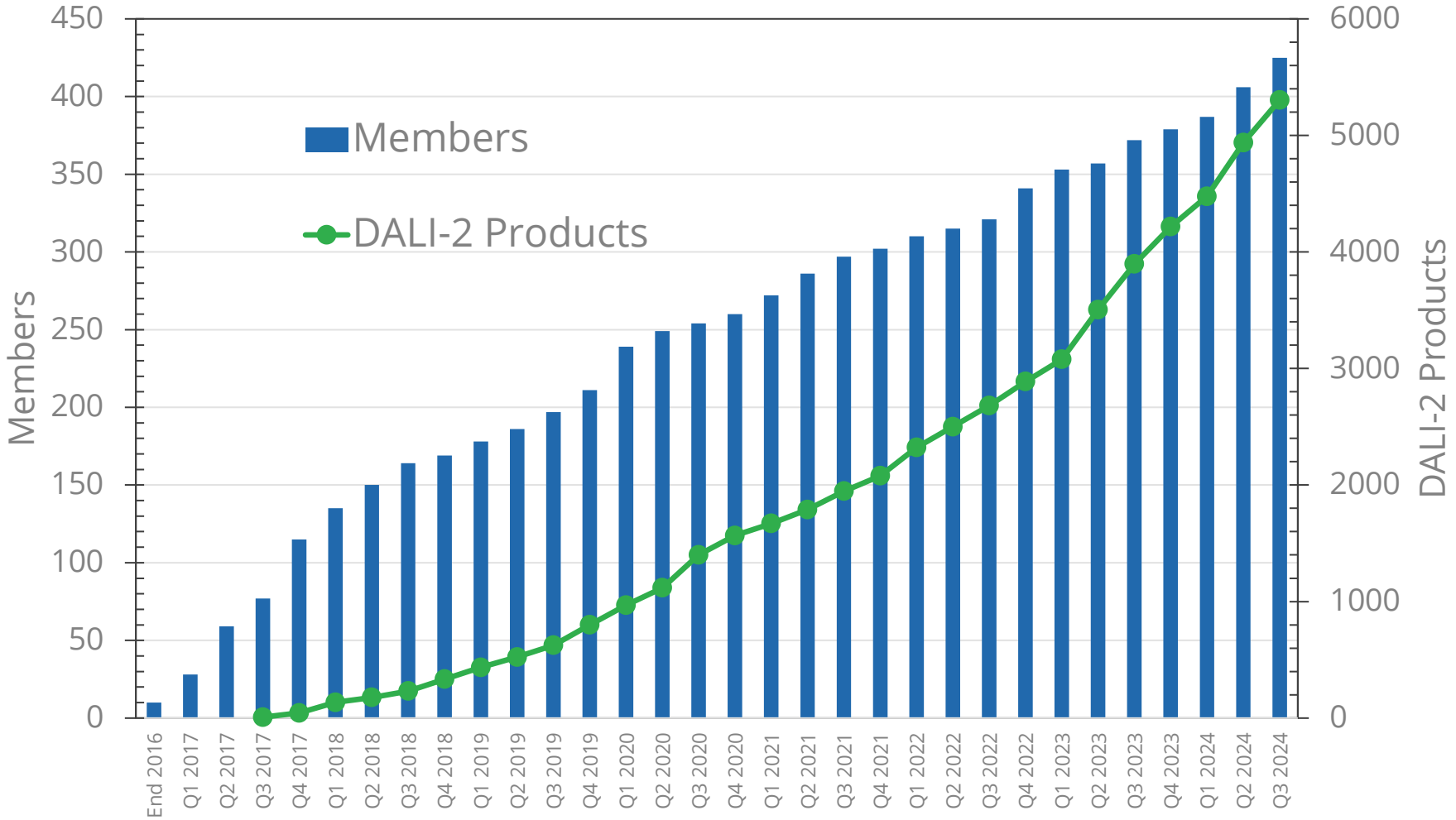
Product certification programs

Compliance with international standards, supporting cross-vendor interoperability

DALI 2	D4	DALI+
Lighting control in wired networks	Luminaire-level lighting control	Lighting control in wireless & IP networks

ALL USING THE DALI PROTOCOL

Members and DALI-2 certified products



Through 19th October 2024

Members		Change in 2024
Regular	37	-1
Associate	322	+32
Community	66	+10
Total	**425**	**+46**

Products	
DALI-2	**5,303**
DALI v1	1,613
Total	**6,919**

LEDucation.org

Q&A

DLC SUMMIT 2026

NEXT GEN LIGHTING:

CONTROLS, INTEGRATION, AND THE ENVIRONMENT

OCTOBER 26–27, 2026 | LOS ANGELES, CA

Thank you to our hosts!

Summit Venue: California Endowment Center

Stay at the DoubleTree in downtown LA

Why attend the DLC summit?

Day 1: Lighting Programs 201 for Industry Partners

Mid-afternoon meeting centered around:

- understanding EE program challenges
- learning terminology
- getting up to speed on summit themes

Day 1: Tour & Mixer at the La Kretz Innovation Campus

Day 2: Sessions Begin

Morning

Next Gen Lighting Savings: Scaling Advanced Controls

Next Gen Buildings: Integrating Lighting and HVAC for Whole Building Savings

Capturing Controls in TRMS for Next Gen Savings

Lighting Controls and Light Pollution: Aligning Energy Savings and Environmental Responsibility

concurrent

Afternoon

Next Gen Lighting Programs:

Market Realities
&
New Opportunities

working session

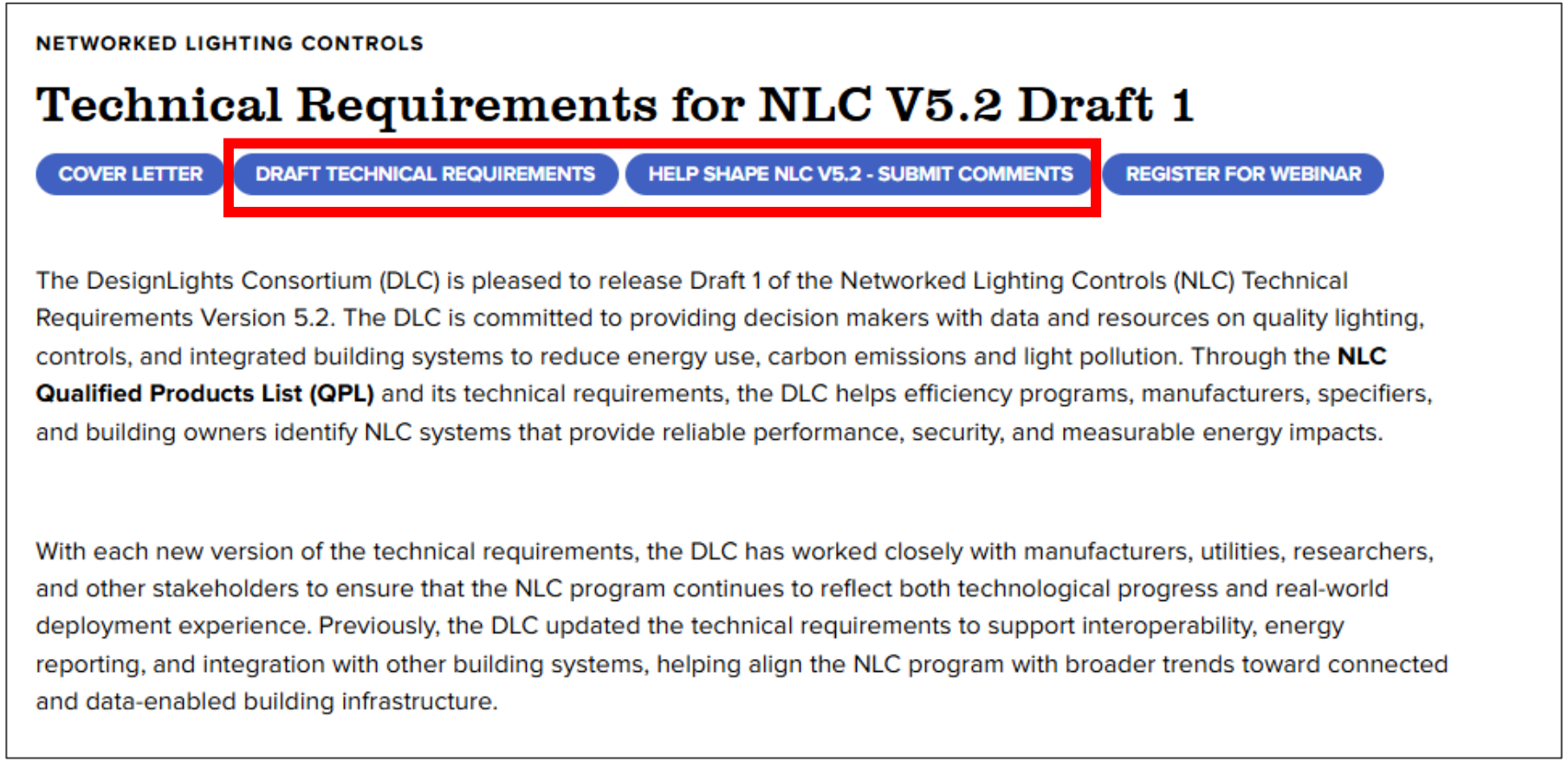
Sponsorship Opportunities

Cocktails, coffee, sessions, meals, and more!

Speaking opportunities

Promotion before and during summit

Download NLC V5.2 & comment form



NETWORKED LIGHTING CONTROLS

Technical Requirements for NLC V5.2 Draft 1

COVER LETTER | DRAFT TECHNICAL REQUIREMENTS | HELP SHAPE NLC V5.2 - SUBMIT COMMENTS | REGISTER FOR WEBINAR

The DesignLights Consortium (DLC) is pleased to release Draft 1 of the Networked Lighting Controls (NLC) Technical Requirements Version 5.2. The DLC is committed to providing decision makers with data and resources on quality lighting, controls, and integrated building systems to reduce energy use, carbon emissions and light pollution. Through the **NLC Qualified Products List (QPL)** and its technical requirements, the DLC helps efficiency programs, manufacturers, specifiers, and building owners identify NLC systems that provide reliable performance, security, and measurable energy impacts.

With each new version of the technical requirements, the DLC has worked closely with manufacturers, utilities, researchers, and other stakeholders to ensure that the NLC program continues to reflect both technological progress and real-world deployment experience. Previously, the DLC updated the technical requirements to support interoperability, energy reporting, and integration with other building systems, helping align the NLC program with broader trends toward connected and data-enabled building infrastructure.

https://designlights.org/our-work/network-lighting/nlc-v52-draft/

Comments due by May 8, 2026

	NLC V5.2 Comment Form
Document:	Networked Lighting Control (NLC) System Technical Requirements
Version:	Draft of NLC V5.2
Comments Due:	Close of business, Friday May 8, 2026
Instructions and Background:	To comment, enter your organization, name, email address, and phone number at the top of the worksheet. Then enter any comments in Column D "Comment and Rationale". Provide your proposed change corresponding to your comment in Column F "Proposed Change". Comments to the Technical Requirements that are not related to a specific revision the DLC has proposed may be added at the bottom of the worksheet. Save the Excel file with your comments, with your initials appended to the end of the filename, and email the file to comments@designlights.org by close of business, **Friday May 8, 2026**.

Submit comment via email to comments@designlights.org

Q&A

Thank you for attending!
The webinar will be available online later this week