



2024

ANNUAL
REPORT

Energy efficiency
and light pollution
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outdoor lighting
design.



LETTER FROM THE EXECUTIVE DIRECTOR

Like a team preparing for the next season's success, the DLC spent 2024 as a pivotal building year, developing pilots, tools and partnerships that will shape the future of commercial lighting and efficiency programs. With a continued emphasis on quality, connected systems and meaningful market collaboration, our work reinforced the role of lighting in reducing energy use, carbon emissions, and light pollution.

At the heart of our efforts was the DLC Controls Summit in Milwaukee, WI where over 100 stakeholders previewed our NLC-HVAC Integration Toolkit, an actionable resource designed to unlock deep energy savings by integrating lighting controls with building systems. Released in early 2025, the Toolkit reflects direct feedback from participants and exemplifies the collaborative spirit that drives our technical work.

We also advanced market ready policies across multiple programs, including a new version of the NLC Technical Requirements (NLC5.1) that supported adoption of controls without product delisting, while emphasizing energy monitoring and cybersecurity. In horticultural lighting, the V4.0 draft requirements set the stage for improved efficacy and controls .

Through new research and resources, the LUNA program released a study to demonstrate how energy efficiency and light pollution mitigation can and must, coexist in outdoor lighting design.

Our Qualified Products Lists (QPLs) continued to serve as trusted tools for performance-based procurement and programs growing to more than 300,000 qualified products on SSL alone. Our publicly available QPL resources were bolstered by free educational webinars, new data tools, including an expanded map of North American outdoor lighting ordinances. We also created "[A Decade of Impact](#)" which chronicled the various ways in which the DLC has helped transform commercial and industrial lighting.

As always, we thank all our members and partners for their support. Your engagement fuels our collective impact and together we are building pathways to a smarter, more sustainable future.

Christina Halfpenny
Executive Director, CEO
DesignLights Consortium

BOARD OF DIRECTORS

In 2024, the DLC Board of Directors supported plans for innovation pilots, and the organization maintained strong financial stewardship while supporting a planned net investment to drive long-term growth.



REGINA DURGA

Vice President of Sales, North America
Centrica Business Solutions



PAT LO

Americas Power & Utility Executive
Microsoft



LARISSA PAREDES MUSE

Strategic Relationships Manager
Upciti



CARLOS NOUEL

Managing Director, Tech Consulting
Ernst & Young



SCOTT JOHNSTONE

General Manager
Morrisville Water & Light



ALECIA WARD

Leader of Program and Business
Development
LBNL



MISSION

As an independent nonprofit organization, the DesignLights Consortium (DLC) provides decision makers with data and resources on quality lighting, controls, and integrated building systems to reduce energy, carbon, and light pollution.



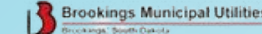
VISION

We envision a net-zero future where lighting, controls, and integrated building systems enable energy savings, decarbonization, and sustainability for all people and the environment.



THANK YOU MEMBERS

In 2024, the DLC proudly welcomed Minnesota's Efficient Technology Accelerator as our newest member.





DLC COMMITTEES & WORKING GROUPS

The DLC is committed to improving energy efficiency for commercial lighting throughout North America, and to making a positive climate impact worldwide. It's our goal to provide a trusted, impartial assessment of the industry's highest performing lighting products and systems to boost consumer trust and adoption of the technologies that save the most energy.

TECHNICAL COMMITTEE

DLC Member representatives advise on the development of DLC Technical Requirements, supporting policies, and resources for LED lighting and networked lighting controls.

SYSTEMS INTEGRATION WORKING GROUP

Brings together controls manufacturers, energy efficiency professionals, researchers, and systems integrators to form a multi-year plan to address barriers to NLC-HVAC interoperability.

HORT WORKING GROUP

Supports the DLC's mission and strategic direction for controlled environment agriculture spaces through education, collaboration, and expertise.

HORT LIGHTING CONTROLS WORKING GROUP

Horticultural Industry representatives help the DLC accelerate the transition of the horticultural lighting industry to optimized energy and production practices.

LUNA ADVISORY GROUP

Provides perspectives and recommendations for better criteria related to light at night on the DLC QPL.

REDI (REPRESENTATION, EQUITY, DIVERSITY & INCLUSION) COMMITTEE

This internal committee played a central role in shaping 2024's internal DEI initiatives. In 2024, the REDI Committee provided quarterly newsletters, three virtual events, two cultural celebrations, and led an all-team activity at the Chicago Cultural Center during the annual in-person Team Meeting—fostering inclusive engagement and staff development.



The DLC signed the Diversity, Equity, Inclusion, and Justice pledge, and joined the coalition of leaders working together to advance action toward a just energy transition for Black and Brown communities.

INDUSTRY COLLABORATION

INDUSTRY ADVISORY COMMITTEE

Medium Manufacturers

- Dan Wang-Munson, RAB Lighting

Top 5 Manufacturers by QPL

- Michael S. O'Boyle, Signify
- Tanya Hernandez, Acuity Brands
- Bob Smith, Cooper Lighting
- Jon Vollers, Cree Lighting
- Jeremy Yon, Current by GE

Distributors

- Marc Hodges, Sonepar USA
- Bernie Erickson, FSG

Lighting Controls Manufacturers

- Michael Davidson, Synapse Wireless
- Stephen Irving, Lutron Electronics
- Eric Miller, Avi-on Labs

Small Manufacturers

- Daniel Katz, LC, Eiko Global
- Daniel Kroenke, Illumus
- Corinne Wilder, Fluence

EXTERNAL COMMITTEES

The DLC team continues collaborating on the development of industry consensus standards and best practices that benefit energy efficiency through participation in many external committees and working groups including:

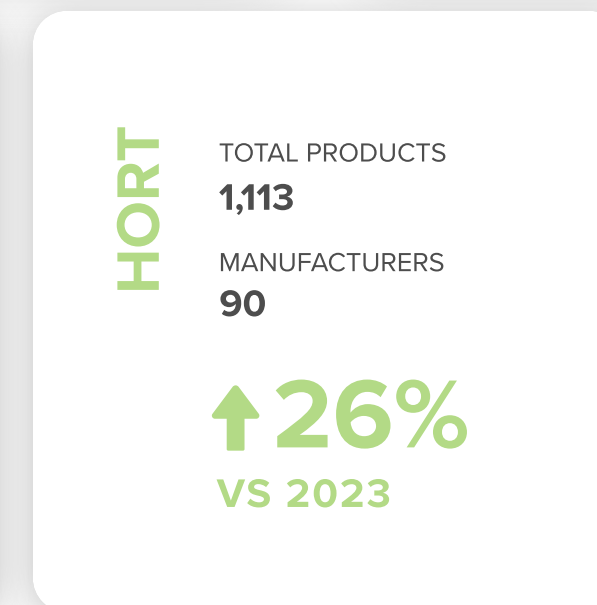
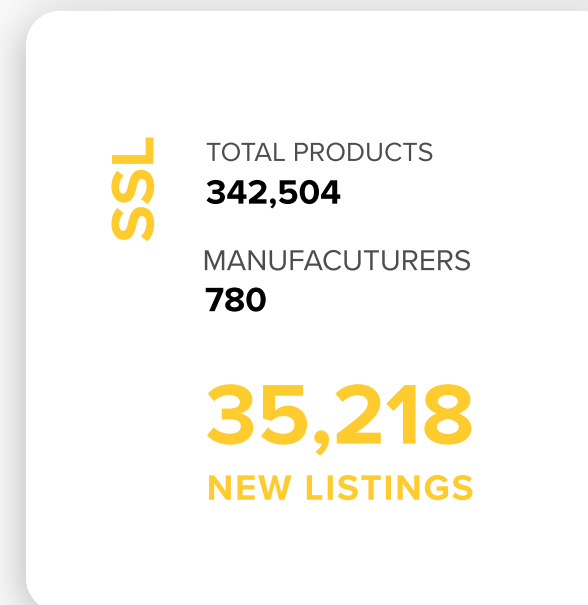
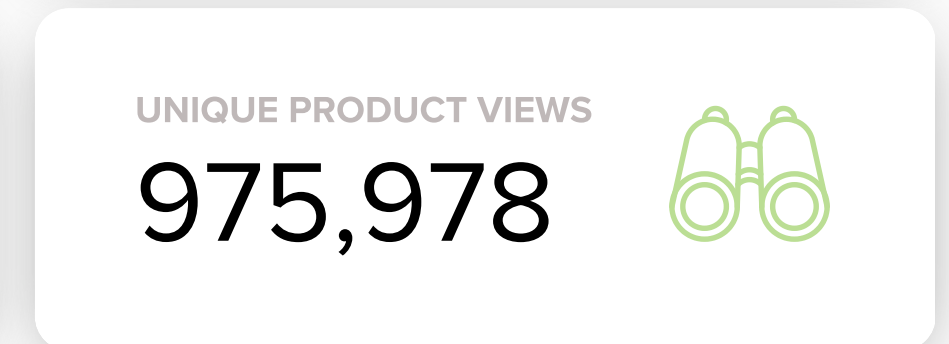
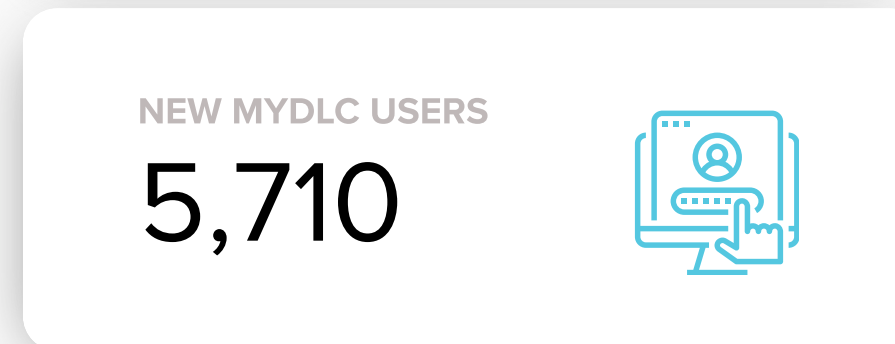
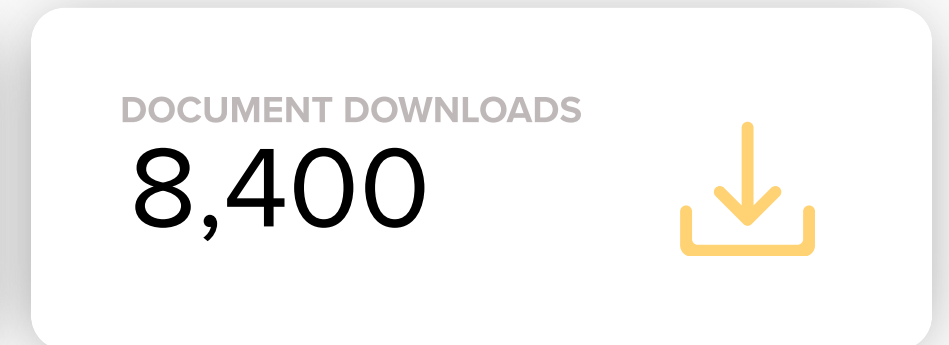
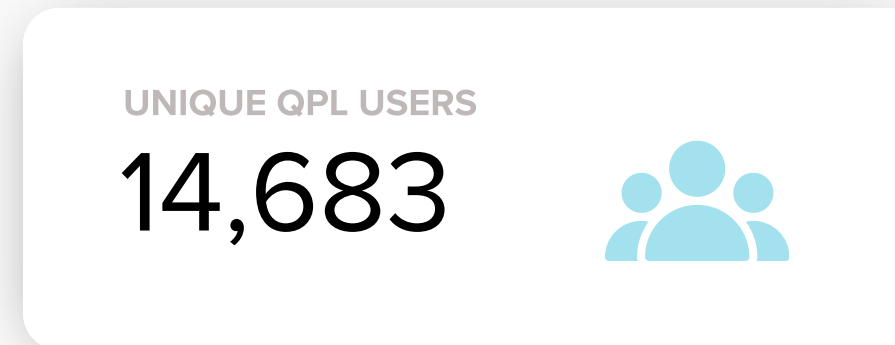
- IES Testing Procedures Committee
- IES Lighting Control Systems Committee
- IES Horticultural Lighting Committee
- IES Color Committee
- IES Computer Committee
- IES Illumination Awards Committee
- ASABE Energy Systems 310 Ag Lighting Group
- ANSI/NEMA C137 Lighting Systems Committee
- ANSI/NEMA C136 Roadway and Area Lighting Equipment Committee
- ANSI/NEMA C78 Standards Committee on Electric Lamps
- RII Technical Advisory Council
- RII CEA Accelerator Technical Advisory Council
- Smart EPD Luminaires PCR Committee



KEY ACHIEVEMENTS

In 2024, the DLC team built on the research and reports released in 2023 to develop resources for our Members and stakeholders that promote interoperability and provide pathways to achieve greater savings. These efforts, along with stakeholder conversations at the Controls Summit, paved the way for new resources released in early 2025.

The DLC QPLs continued to grow in users and number of products. Nearly 700 efficiency programs across North America require DLC listing to be eligible to receive rebates and incentives. See the breakdown of program types here.





SOLID STATE / LED LIGHTING

- SSL V6.0 research launched early calls for information for input from stakeholders, with topics that support evolving technical criteria and product categories.

HORTICULTURAL LIGHTING

- Hort V4.0 draft released with 8.7% proposed efficacy increase.
- Quarterly articles in Greenhouse Grower spotlighted applications of CEA technologies.

NETWORKED LIGHTING CONTROLS

- Research to develop the Pathways Playbook to offer real-world strategies for scaling connected lighting through utility programs.
- Collaboration with stakeholders to develop the Integration Toolkit to support HVAC-linking frameworks for building systems.
- Supported pilots in small and medium buildings and continued development of an HVAC integration playbook.
- Research on Technical Reference Manuals to identify updates that support NLC-HVAC linking,
- Presentations at NMFT 10/15/25 and ACEEE on savings potential of integrating NLC with other building systems and efficiency program support needed for adoption.
- NLC 5.1 technical requirement update
- Contributed to ANSI standards development for NLC energy reporting

PROGRAM HIGHLIGHTS

LIGHT USAGE IN NIGHT APPLICATIONS (LUNA)

- GSA formally adopted LUNA for federal buildings.
- Released an interactive lighting ordinance map to support local policy adoption.
- Released research report “Choosing Both Energy Efficiency and Light Pollution Mitigation for Commercial Outdoor Lighting” (June 2024)
- Presentations at US Fish and Wildlife meeting, Canada Light Expo, Beckett MA Conservation Committee, GAL IALD Germany virtual meeting, IES Street & Area Lighting Conference and LEDucation.





“The Controls Summit showed what’s possible when utilities, manufacturers, and innovators collaborate in real-time. This wasn’t just a conference—it was a launchpad for our next decade of impact.”



2024 SUMMIT

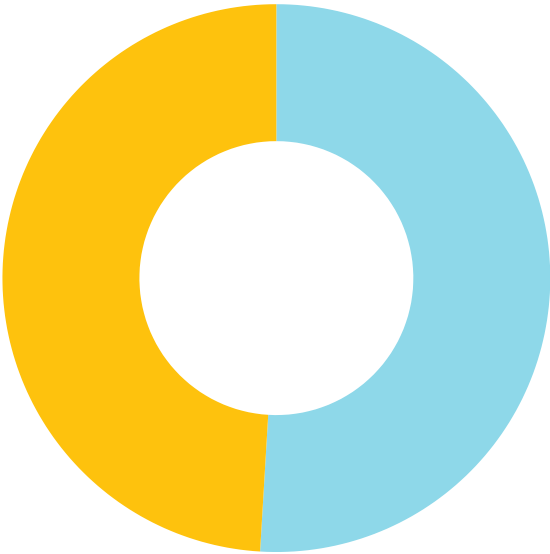
INTEGRATION FOR THE FUTURE

Held October 15–16, the sold out 2024 Controls Summit, themed “Integration for the Future,” featured:

- Pre Summit meetings with DLC members, manufacturers, contractors, engineers, and researchers helped tee up topics that shaped future DLC guidance
- Networking dinner reception to connect Energy Efficiency Programs with Manufacturers and other stakeholders
- Pathways to Connected Lighting: panel presentation and discussion session to review draft document
- HVAC Integration: Draft of toolkit presented with Toolkit working review session
- Breakout Tracks:
 - Horticulture Controls in CEA,
 - Wasted Light at Night, and
 - NLC-HVAC Integration Panel

FINANCIAL PERFORMANCE

- **TOTAL REVENUE** - \$7,798,382
- **TOTAL EXPENSES** - \$8,099,554



REVENUE

- **EVENTS & WORKSHOPS** - \$33,736
- **SURVEILLANCE TESTING** - \$92,400
- **TRAINING & DATA SUBSCRIPTIONS** - \$110,138
- **OTHER** - \$173,053
- **MEMBERSHIP FEES** - \$536,805
- **DLC QPL'S** - \$6,852,250



EXPENSES

- **OTHER PROGRAMS** - \$175,600
- **SURVEILLANCE TESTING** - \$185,476
- **OUTREACH & ENGAGEMENT** - \$686,372
- **INFORMATION TECHNOLOGY** - \$910,137
- **GENERAL & ADMINISTRATIVE** - \$1,001,547
- **APPLICATION REVIEW & QPL'S** - \$5,140,422

LOOKING AHEAD

A woman with long dark hair, wearing a blue sleeveless dress, stands in profile looking out a large window. She is holding a tablet in her hands. The background outside the window shows a bright sunset or sunrise over a body of water, with a city skyline visible in the distance. The scene is bathed in warm, golden light.

In 2025, we will turn knowledge into momentum—delivering powerful new tools that will help our community lead the way in lighting innovation and energy efficiency.

Several new resources will be delivered for our Member utility and energy efficiency programs including: Pathways to Connected Lighting, a Member-exclusive playbook designed to empower utilities and implementers with strategies to strengthen programs and unlock deeper savings through advanced controls and Technical Reference Manual (TRM) updates.

To drive integration of lighting with other building systems, we will publish an NLC-HVAC Integration Toolkit—a hands-on guide to help energy professionals and decision-makers unite lighting and HVAC systems for deeper energy savings.



THANK YOU



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