



Program Overview and Membership Information

DesignLights Consortium
www.designlights.org

2024

About the DLC and our Members

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.

Mission

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

Members

DLC Members are utility energy efficiency programs and regional energy efficiency organizations throughout the U.S. and Canada. Members' contributions are integral to the success of the DLC's mission.

By requiring DLC qualified products for rebates, DLC Members can be confident their customers are installing quality products that save energy and will perform for years to come. Together, we're creating solutions to drive energy savings and help transform the market with more connected lighting solutions.

The DLC relies on both the financial contributions from our Members as well as market intelligence to advance the SSL, Hort, NLC, and LUNA programs; maintain all three Qualified Products Lists; and develop other technical resources to support commercial lighting rebate programs.

Values

Integrity.

We are dedicated to the work we do and are committed to honesty, transparency, and environmental stewardship.

Collaboration.

The input of our colleagues and stakeholders is paramount. We diligently pursue opportunities for cooperation and comprehensive feedback on our work.

Diversity.

We are committed to inclusion, representation, and a voice for all those affected by our work.

Impact.

We hold ourselves responsible and accountable for the outcomes of our work and actively pursue opportunities that best support our environmental mission.



Letter from the Executive Director

Dear DLC Members & Friends,

As we continue to face extreme weather and other disruptions, we at the DLC are working hard for a future that is sustainable for all people and the environment. The tools, data, and resources we provide have been driving energy efficiency forward since 2008. We continue to champion networked lighting controls as the next big opportunity for energy efficiency. The [potential study we released this August](#) makes a clear case for cost-effective solutions with NLCs as well as controls ready scenarios. Still, this is not going to be as simple as switching to LEDs. As a Member, your support and expertise have been invaluable for developing our next steps.



To advance energy efficiency over the next 5-7 years without excessive costs, it is crucial to invest promptly in controls and encourage their adoption, especially in large commercial buildings with heavy energy loads. Installing lighting systems that are compatible with controls (controls ready) is essential – every lighting retrofit without controls is a missed opportunity to reduce carbon and save customers money. **At the DLC, we have embraced this approach by updating the requirements for solid-state lighting to make dimming mandatory. Additionally, 75% of our qualified products now come with integrated controls, and we are piloting a program with user-friendly solutions to simplify the implementation of controls in hard-to-reach small and medium-sized buildings.**

In 2024 we are building and launching the tools to implement this pilot program at scale. You'll find our planned activities for 2024 below – from work on controls in the horticultural space to increasing products on the LUNA QPL x10 to gaining traction in NLC-HVAC integrations. Thank you for your contributions and partnership in our work. Your support helps us further our mission and achieve the results we need to decarbonize and save energy.

Sincerely,

A handwritten signature in black ink that reads "Ch Happenny". The signature is written in a cursive, flowing style.



2024 Program Plans:

Pathways to Connected Lighting

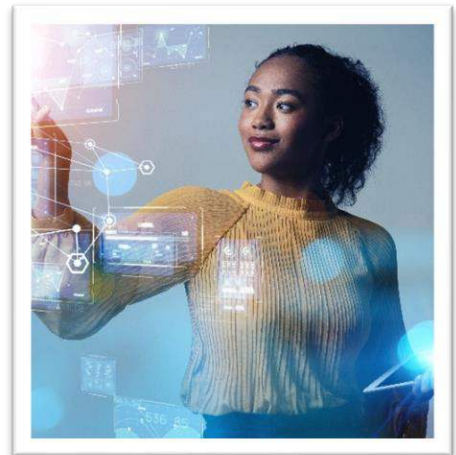
Goal: Transform the market to networked and connected lighting.

NLC for small/medium buildings: There is a potential savings of over 30 TWh annually for NLCs in buildings <50,000 sq ft. To meet this opportunity for energy savings we will develop a series of initiatives geared towards both small and medium buildings.

NLC for large buildings: Aggressive utility promotion of NLCs could save over 60 TWh of energy by 2035. When paired with HVAC and occupancy controls in large buildings, NLCs can save up to 30% of the building's energy.

Planned Activities:

- Launch a program and tool to influence small and medium-sized buildings to install NLCs. A report generated by the tool will help multiple stakeholders understand and maintain the system and enable savings reporting for utilities.
- Break initial barriers to the integration of NLC-HVAC systems in large buildings.
- Create a working group and program resources to further NLC System Integration.
- Increasing adoption of NLCs with the release of NLC5.1, growing in listed systems, and adding case studies of projects
- Develop alliances to help drive strategies towards electrification, demand flexibility, and decarbonization.



2024 Program Plans:

The Future of LED/SSL

Goal: Adapt to changing markets with new technologies while improving the QPL experience.

Several research projects are currently in progress to examine the user experience and optimize our technical requirements documents and other resources. In 2024, we will use the results to update our TR and QPL to better serve stakeholders, as well as assess new technologies and tools.

Planned Activities:

- Investigate opportunities for implementing solar hybrid technologies in technical requirements.
- Identify and develop new tools that use our data, making it easier for manufacturers to submit products and for QPL users to find products.
- Continue to improve the useability of the QPL including adding product images.



2024 Program Plans:

Horticultural Lighting

Goal: Transform horticultural lighting from the ground up.

The LED market for cannabis crops alone is forecasted to grow more than 300% in the next five years, representing an enormous opportunity for energy savings in an energy-intense industry. In 2024, DLC will advance the Horticultural Lighting Program beyond fixtures to include controls and explore additional energy-saving technologies for greenhouses.

Planned Activities:

- Increase horticultural lighting efficacy with V3.0 qualified products.
- Identify market size and savings potential for fixtures and controls.
- Create a Hort Controls Working Group.
- Develop a roadmap for the potential of CEA energy efficiency.



LUNA and Light Pollution Mitigation

Goal: Maximize energy savings while minimizing light pollution.

Light pollution is continuing to increase by 10% each year and communities can now find energy efficient LED lighting with better controls, color attributes, and distribution to meet lighting ordinances while avoiding wasted light and energy. In 2024, the DLC will expand the LUNA QPL to create more options and increase focus on controls and policy.

Planned Activities:

- Increase the LUNA QPL listings by a factor of 10 with a goal of 1000 products by the end of 2024.
- Pilot a program to work with distributors for point-of-sale promotional models.
- Investigate the value of policy-related activities for LUNA.
- Promote the value of controls as dark sky-friendly product attributes.
- Work on industry standards for amber lighting.



Member Benefits

DATA.

Members benefit from unlimited access to the DLC QPLs – single data sources for objective product qualification that provide consistency and reliable performance information, saving valuable time and program resources to support commercial lighting programs.

EXPERTISE.

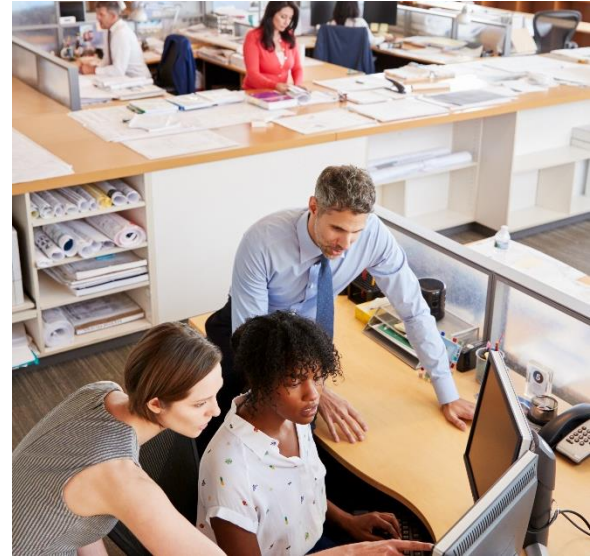
The DLC technical staff utilize their expertise in lighting and controls technology to develop a consistent set of performance criteria for products referenced by programs around the globe to ensure that products meet requirements for quality and energy efficiency. DLC members have a direct line of communication with these experts and input into this development.

RESOURCES.

Members have access to exclusive market research reports, whitepapers, and fact sheets to inform program design and evaluation, and help communicate important lighting topics to customers and trade allies.

ENGAGEMENT.

Members have opportunities to participate in committees and working groups to help develop solutions, influence DLC strategy, and provide direction for new policies. Member registration is always waived for in-person events.



Exclusive Member Resources and Opportunities

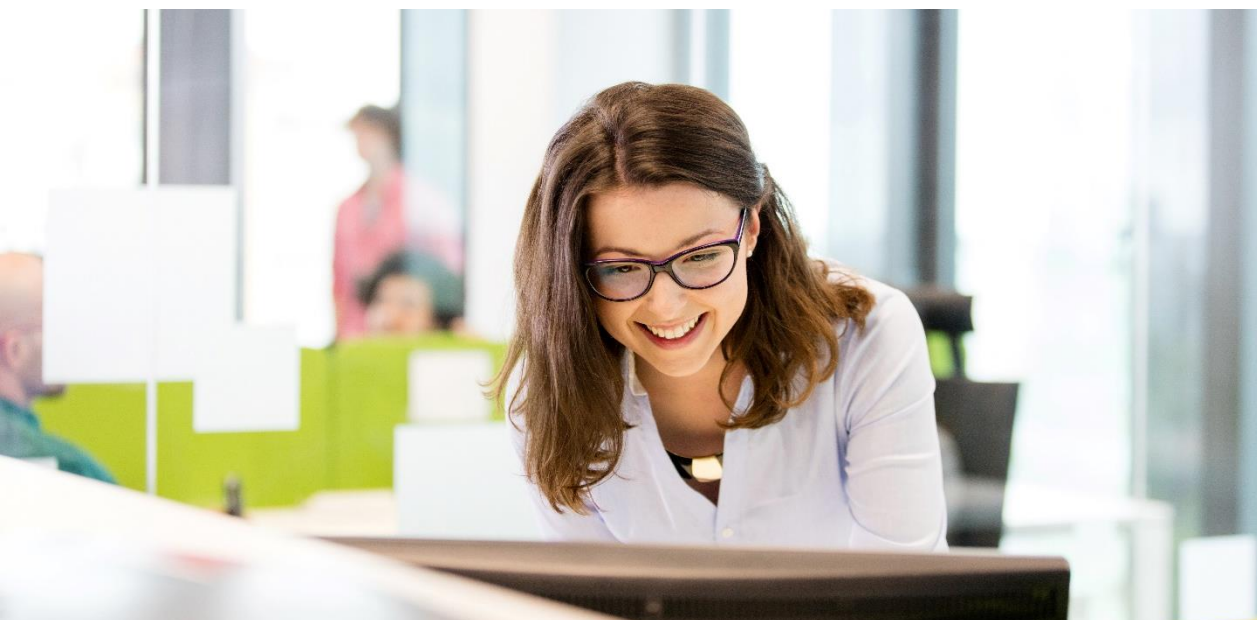
DLC members have exclusive access to data and resources to support their lighting rebate programs. The SSL and LUNA, NLC, and Hort QPLs are an objective source of reliable lighting performance information.

2024 Data and Resources

- Full dataset of each QPL in Excel format
- Excel lists of products delisted and listed in last 30 days
- Free API connection
- DLC QPL Analysis Tool
- DLC LED Cost Effectiveness Analysis Tool
- NEW - QPL Dashboard and Portal for Members
- NEW - Resources to communicate about important lighting topics to support rebate programs
- NEW – Potential Study - Economic Potential of Networked Lighting Controls in Commercial Buildings: Tapping the Added Value of HVAC Connections

2024 Expertise and Engagement Opportunities

- Member Meetings
- Technical Committee Meetings
- Hort Working Group
- One-on-one meetings with any DLC staff
- Free event registration
- NEW - Newsletters by topic area
- NEW - Networking dinners
- NEW - Quantify members' collective impact



Join Us

Whether you are a new member or looking to continue your membership with the DLC, follow these three easy steps to join us.

1. Designate a main point of contact for your program.
2. Complete the DLC Member Commitment Form, providing your all-in commercial & industrial efficiency program budget to calculate your member fee.
3. List all individuals involved with your commercial lighting programs to invite them to create a MyDLC account, which provides access to:
 - Updates
 - Member exclusive tools and resources
 - The opportunity to provide input and comments on draft policies
 - The opportunity to participate in DLC meetings, webinars, events, and more.

Our Members



2023 Consortium Activities

- At the [2023 DLC Controls Summit](#), members and stakeholders came together to ideate solutions to increase the adoption of networked lighting controls. To demonstrate our NLC pilot program, DLC created the first ever lighting controls-themed escape room experience.
- Reached 300,000 products listed to SSL V5.1 on the SSL QPL.
- Published and promoted a [potential study](#) and [webinar](#) that showed clear value with NLCs, especially when integrated with HVAC in large buildings.
 - Hosted a Working Group on NLC-HVAC control integration based on results from the Savings Potential Study, to plan how the DLC will be able to help members increase the cost effectiveness and energy savings from NLC systems.
 - Presented the potential study findings at AESP and a poster session at ACEEE with NV5.
- Conducted process mapping of NLC projects to help identify barriers to NLC growth.
- Increased the number of NLC systems on the QPL by 18%.
- Added additional cybersecurity pathway to the NLC5 requirements.
- Led an effort to standardize NLC Configuration Reports that will help efficiency programs claim NLC savings more easily and reliably.
- Increased the number of Hort products on the QPL by 37%.
- Launched Hort 3.0 QPL with product imaging for better product selection.
- Began accepting Hort V3.0 products initiating an increase in efficacy (PPE).
- Educated horticulture growers with a DLC booth and presentation at Cultivate 2023 trade show and conference.
- Released guidance on accounting for savings with field adjustable lighting.
- Doubled the qualified products on LUNA QPL.
- Hosted a one year in review [webinar](#) and blog on light at night in equity and public projects.
- Released [guidance resources and modeled bylaws](#) for the use of responsible light at night for local governments and municipalities.
- Developed a [comprehensive list and corresponding map](#) to lighting ordinances across North America.
- Hosted the [Impacts of Outdoor Lighting: Considerations to Reduce Energy, Save Money and Minimize Light Pollution for People and the Environment](#) with IES Hawaii and Hawaii Energy.
- Conducted internal education and training on diversity, equity, and inclusion to embody our values.

Thank you for your participation and support in 2023!



Membership Fees

Membership fees support the DLC's operations; development to advance the SSL, Hort, NLC, and LUNA programs; maintenance of all three Qualified Products Lists; and development of other technical resources to support your commercial lighting rebate programs. Collectively, membership fees support the tools and resources needed to administer commercial lighting rebate programs that would not be cost effective for any single program to develop and maintain.

The full membership fee is calculated at a rate of \$0.50 per \$1,000.00 of the C&I Lighting Budget with a cap of \$50,000 per company. (50,000 max applies to individual utility energy efficiency programs. Fees for regional organizations representing multiple energy efficiency programs will be calculated per program or on a case-by-case basis.)

DLC Tools, Resources, and Member Services Provided	Estimated Annual Value
Development of and updates to Technical Requirements	\$1,000,000
Independent product performance evaluation of SSL, NLC, Hort, and LUNA product applications	\$3,600,000
Ongoing maintenance of the DLC's SSL, NLC, and Hort QPLs	\$300,000
Unlimited QPL download access and API access to full SSL product data	\$10,000
Exclusive tools and resources developed to support member programs	\$100,000
TOTAL ESTIMATED VALUE OF SERVICES	\$5,000,000+

Have questions on any of the 2024 program plans or membership information?

Contact Steve White, COO, at swhite@designlights.org.

