



# Horticultural Lighting

V2.0 Application Process  
Overview Webinar

8/11/2021

• Date

# Webinar Team



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Q&A  
Moderators



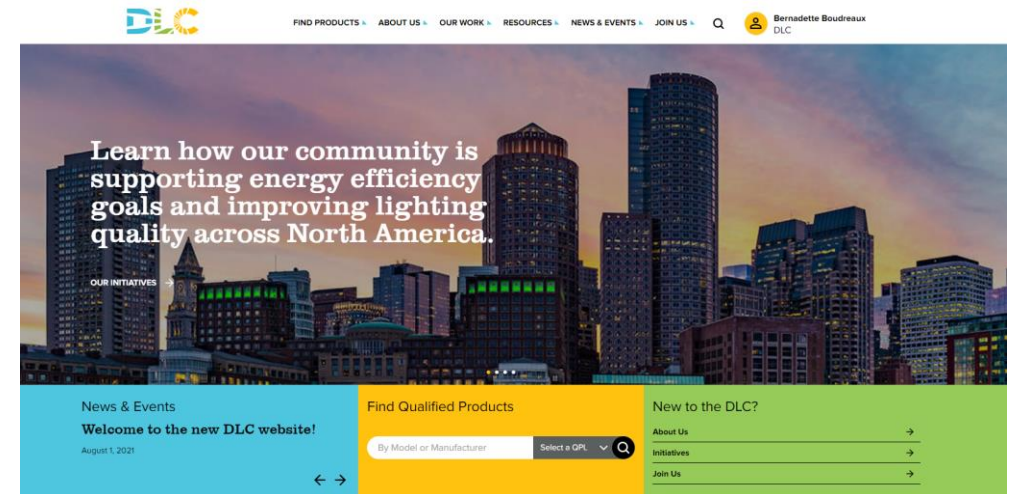
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# Webinar Logistics

- **Slides and recorded webinar will be posted on the *DLC Website* [www.designlights.org](http://www.designlights.org) shortly after today's presentation**
- All attendees are automatically muted
  - If you experience technical issues, please use the chat feature to let us know



# Q&A

- Please place all questions in the Q&A chat box and will answer during the meeting
- In the Q&A session at the end of the presentation we will address a set of questions to the entire audience



# Agenda

Manufacturing Account

New Types of Applications

Application Process Changes

Application Submission and Forms

Testing and Reporting Requirements

- HORT Single
- HORT Private Label
- HORT Family


Review Timeframes

Fees

QPL

Q&A



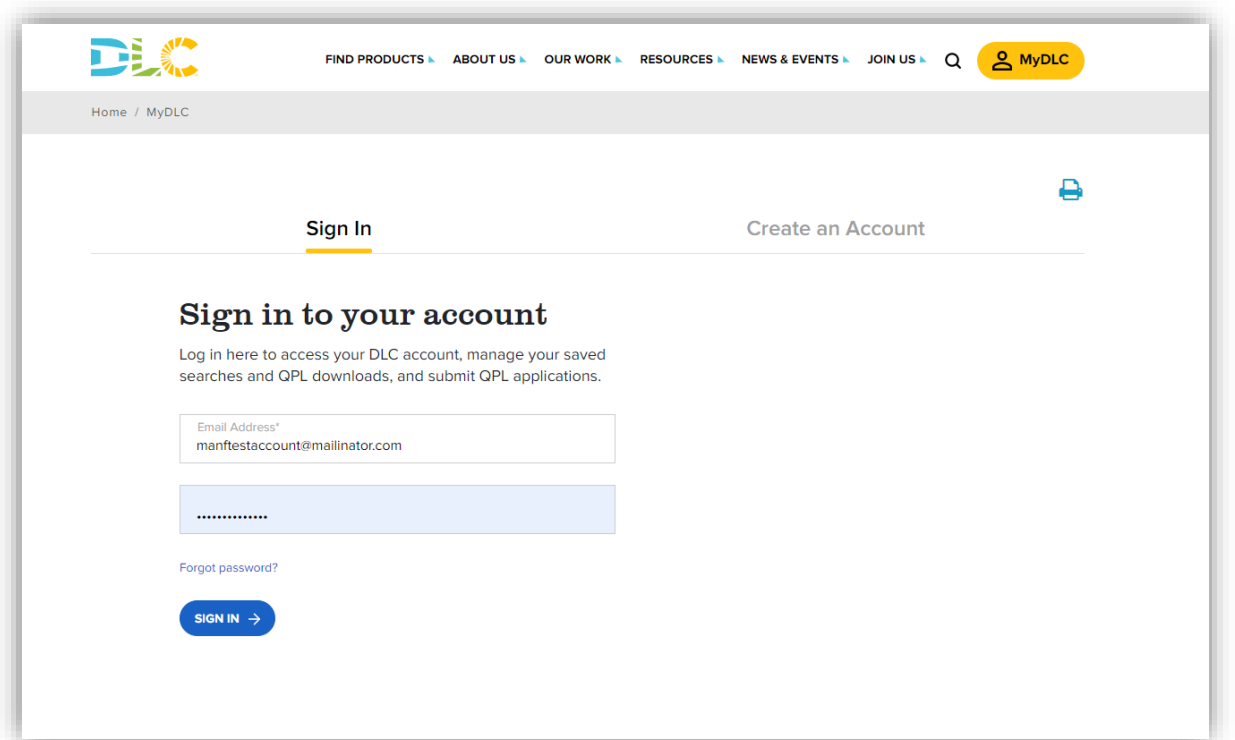


# **Manufacturer Accounts For All Programs**

# Manufacturer Account Sign In Existing Accounts

On the MyDLC home page, select the Sign In section to log in to an existing account

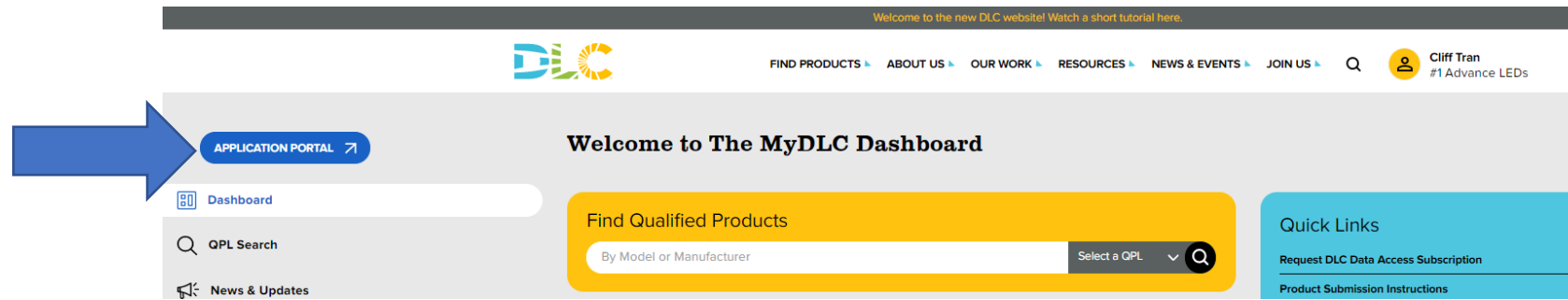
Users will be prompted to reset their password when first logging in to the new site for the first time



The screenshot shows the MyDLC website's sign-in interface. At the top, there is a navigation bar with the DLC logo on the left and menu items: FIND PRODUCTS, ABOUT US, OUR WORK, RESOURCES, NEWS & EVENTS, JOIN US, and a search icon. A yellow 'MyDLC' button is on the right. Below the navigation bar, the breadcrumb 'Home / MyDLC' is visible. The main content area has two tabs: 'Sign In' (which is underlined) and 'Create an Account'. A blue printer icon is in the top right corner. The 'Sign in to your account' section includes a sub-header, a brief description of account benefits, and two input fields: 'Email Address\*' with the value 'manfestaccount@mailinator.com' and a password field with masked characters. A 'Forgot password?' link is below the password field. At the bottom of the form is a blue 'SIGN IN →' button.

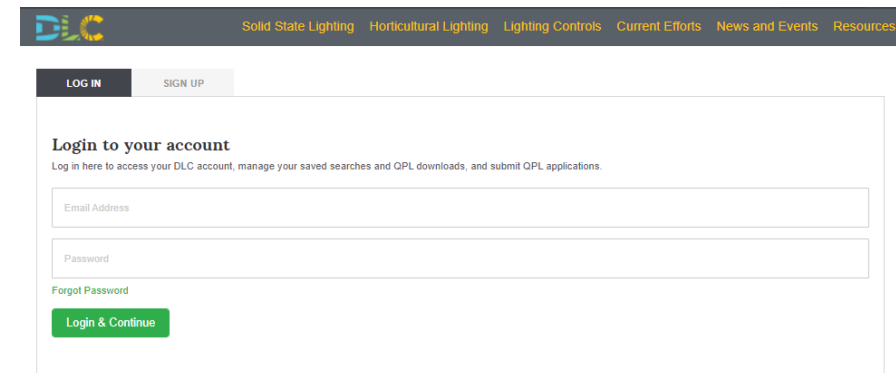
# Link to Manufacturer Portal

- After logging into MYDLC, you will click the Application Portal link to be directed to the Application Portal where you will have to log in again



- The same log in info from the old website will be used to login to the Portal
  - The login info that you use in MYDLC will not be the same as the log in used in the application portal

All Manufacturer Account Management functionality for the Application Portal will still exist in its current form.

A screenshot of the MyDLC login page. The page has a dark header with the DLC logo and navigation links for 'Solid State Lighting', 'Horticultural Lighting', 'Lighting Controls', 'Current Efforts', 'News and Events', and 'Resources'. Below the header, there are 'LOG IN' and 'SIGN UP' tabs. The main content area is titled 'Login to your account' and includes a sub-header: 'Log in here to access your DLC account, manage your saved searches and QPL downloads, and submit QPL applications.' There are two input fields for 'Email Address' and 'Password'. Below the password field is a link for 'Forgot Password'. At the bottom of the form is a green button labeled 'Login & Continue'.



# Manufacturer Account Creation

The screenshot shows the 'Create an Account' page on the MyDLC website. The page has a navigation bar at the top with links for 'FIND PRODUCTS', 'ABOUT US', 'OUR WORK', 'RESOURCES', 'NEWS & EVENTS', and 'JOIN US'. Below the navigation bar, there are two tabs: 'Sign In' and 'Create an Account', with 'Create an Account' being the active tab. The main heading is 'Sign Up & Request Approval'. Below this, there is a sub-heading and a paragraph of instructions: 'Please fill out the form below to create a new DLC account. You may use this account to save GPL search criteria, download GPL searches, and submit and manage your GPL applications.' The form consists of several input fields: 'First Name\*', 'Last Name\*', 'Phone Number\*', 'Ext.', 'Job Title\*', 'Email Address\*', 'Confirm Email Address\*', 'Password\*', 'Confirm Password\*', 'Country\*', and 'Role\*'. There is a red error message 'This field is required.' under the 'Confirm Email Address\*' field. At the bottom of the form, there is a section for 'Company / Organization' with a search prompt and an 'Organization Name\*' input field.

- On the MyDLC home page, select the Create an Account section to create a new account
- Fill in all required fields then select “Create Account”

The screenshot shows the 'Email Verification' page on the MyDLC website. The page has a navigation bar at the top with links for 'FIND PRODUCTS', 'ABOUT US', 'OUR WORK', 'RESOURCES', 'NEWS & EVENTS', and 'JOIN US'. Below the navigation bar, there is a large blue banner with the text 'Email Verification'. Below the banner, there is a message: 'Your email account has been verified. You can now Login to MyDLC!'. At the bottom of the page, there is a blue button labeled 'LOGIN'.

- The user will receive an email from DLC to verify the email address
- Once the email address is verified the user can log in to MyDLC

**An Application Portal Account must be created and approved in order to submit applications**

# Existing Company Association

If the user creating a new account is associated with an existing company, they will be prompted to search and select the existing organization

The existing company main contact will receive an email to approve the user

## Company / Organization

Search for your company / organization below.

Organization Name\*  
Test Company

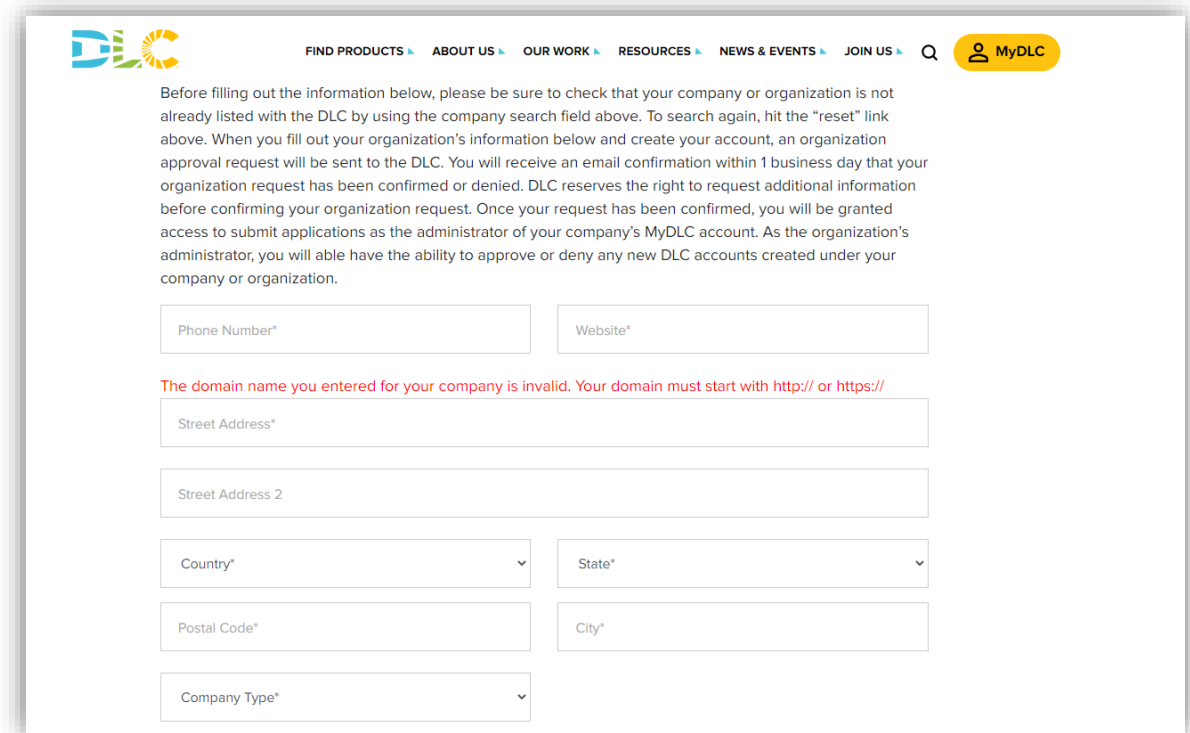
We've found a few accounts with similar names. If you are an employee of one of these organizations, please select it below.

- **AW Test Company 1**
- **AW Test Company 2**
- **AW Test Company 5**
- **AW Test Company 3**
- **AW Test Company 7**

*If your organization isn't listed above, click to [create a new organization](#)*

# New Company Creation


- If the user creating a new account is also creating a new company, they will be prompted to confirm new company name and fill in additional organizational details
- The user will receive a notification on their home page to provide additional company information in order to verify the company
- Once all required material is submitted and DLC approves the new company request, the user can begin submitting products for qualification



The screenshot shows the MyDLC dashboard with a navigation bar at the top containing links for FIND PRODUCTS, ABOUT US, OUR WORK, RESOURCES, NEWS & EVENTS, JOIN US, and a search icon. A user profile icon labeled 'MyDLC' is also present. The main content area contains a paragraph of instructions: 'Before filling out the information below, please be sure to check that your company or organization is not already listed with the DLC by using the company search field above. To search again, hit the "reset" link above. When you fill out your organization's information below and create your account, an organization approval request will be sent to the DLC. You will receive an email confirmation within 1 business day that your organization request has been confirmed or denied. DLC reserves the right to request additional information before confirming your organization request. Once your request has been confirmed, you will be granted access to submit applications as the administrator of your company's MyDLC account. As the organization's administrator, you will be able to have the ability to approve or deny any new DLC accounts created under your company or organization.'

Below the text are several input fields: 'Phone Number\*', 'Website\*', 'Street Address\*', 'Street Address 2', 'Country\*', 'State\*', 'Postal Code\*', 'City\*', and 'Company Type\*'. A red error message is displayed: 'The domain name you entered for your company is invalid. Your domain must start with http:// or https://'. The form is partially filled out, with the 'Website\*' field containing a domain name.

Welcome to The MyDLC Dashboard  Notifications. [Click to view](#)

• Your company is pending DLC approval to submit products for qualification. [Click here](#) to verify your company or check the status of your pending approval. 

# Approval of New Application Submission Accounts

- For new manufacturing accounts, a new MYDLC account must be created and approved before a new account in the AMS can be approved

## STEP 1: MYDLC Create Account and Receive Approval

The screenshot shows the MYDLC website's sign-up page. At the top, there is a navigation bar with links for 'FIND PRODUCTS', 'ABOUT US', 'OUR WORK', 'RESOURCES', 'NEWS & EVENTS', and 'JOIN US', along with a search icon and a 'MyDLC' user icon. Below the navigation bar, there is a breadcrumb trail 'Home / MyDLC'. The main content area features a 'Sign In' link and a 'Create an Account' link, with the latter being highlighted in yellow. Below this, the heading 'Sign Up & Request Approval' is followed by a paragraph: 'Please fill out the form below to create a new DLC account. You may use this account to save QPL search criteria, download QPL searches, and submit and manage your QPL applications.' The form consists of several input fields: 'First Name\*', 'Last Name\*', 'Phone Number\*' (with an 'Ext.' field), 'Job Title\*', 'Email Address\*', 'Confirm Email Address\*', 'Password\*', and 'Confirm Password\*'. The 'Create an Account' link is underlined in yellow.

## STEP 2: Create Account in Application Portal and Receive Approval after MYDLC Account is approved

The screenshot shows the Application Portal's sign-up page. At the top, there is a navigation bar with links for 'Solid State Lighting', 'Horticultural Lighting', 'Lighting Controls', 'Current Efforts', 'News and Events', and 'Resources'. Below the navigation bar, there is a 'LOG IN' link and a 'SIGN UP' button, with the latter being highlighted in black. Below this, the heading 'Sign Up & Request Approval' is followed by a paragraph: 'Please fill out the form below to create a new DLC account. You may use this account to save QPL search criteria, download QPL searches, and submit and manage your QPL applications.' The form consists of several input fields: 'First Name\*', 'Last Name\*', 'Phone Number\*' (with an 'Ext.' field), 'Role\*', 'Email Address\*', 'Confirm Email Address\*', 'Password\*', and 'Confirm Password\*'. The 'SIGN UP' button is highlighted in black.



**V2.0**

New Types of Applications

# HORT 2.0 APPLICATION TYPES

Family

Single

Update  
(Private Label,  
Single, Family)

Private Label



# HORT APPLICATION UPDATES

## NEW APPLICATION TYPES

### Family Grouping

- Family Grouping Interim Solution no longer active

### Private Label

### Update

## APPLICATION CHANGES

- Update applications can now be submitted
- Invoicing and Publishing of products to the QPL at a different stages
- Application Style for Single Product Applications Changes
- Reported Data is required

# Submission process changes for All Applications

- Question Style format replaced with Application Excel form and upload of files
- Mimics SSL application process format

**Product Information** Section Guide -

This section asks for general product identification information.

#1. Is this a parent product?

If submitting a single product applications, enter a "no" answer to report product as a single product. If submitting a family grouping application, enter a "yes" answer to report the product as a parent product.

No

Post Comment

#2. Reported Performance Table for AMS

(Family Grouping Applications only) Please upload the Reported Performance Table for AMS received from DLC reviewer during initial review phase.

Post Comment

#3. Specification Sheet

Upload the most current version of the product's specification sheet (PDF).

JG\_G7\_User.pdf - 7/24/21 3:15 AM

Post Comment

#4. Marketing Brochure/Spectral Tuning Documentation (if applicable)

Upload a marketing brochure for the product. This will be used by your reviewer to understand the context of other product performance information, and can help save time in clarifying any questions they may have.

For spectrally tunable product applications (those with varying output channels beyond simple, single-axis dimming of the whole product), upload user-facing documentation narrating the control protocol and input parameters employed in controlled the output.

Post Comment

#5. Brand Name

Enter the name of the brand your product is sold under. This may be your name as a manufacturer, or may be a specific brand name. Please note that this brand name will appear on the QPL.

OLD STYLE

STATUS Not Submitted MANUFACTURER DLC ( view ) SUBMITTER Aaron Feldman REVIEWER None ( change )

Application Documents Reviewer Documents 0 Submit Application

Application Documents 1 / 23

Please Upload The HORT V2.0 Family Application Excel  
The HORT V2.0 Application Form can be found here:  
All applicable fields in the Application Form tab, Reported Performance Table tab, Spectrally Tunable tab (if applicable), and Components Tab, must be filled out. Omitting information in any of these tabs may delay the application review

HORT Import Form.xlsx  
7/27/21 8:20 AM  
Deleted

Choose File No file chosen

Please Upload A Specification Sheet For Each Product Included In Your Application.  
You must submit the specification sheet intended for use in the marketplace.  
Specification sheets created for DLC submission only are not acceptable. Product specification sheet must clearly detail dimming capabilities if products are capable of dimming. Multiple specification sheets are acceptable if all products are not included in a single document.

Choose File No file chosen

Please Upload A Marketing Brochure For The Product In PDF Format.  
Please upload a marketing brochure for the product. This will be used by your reviewer to understand the context of other product performance information, and can help save time in clarifying any questions.

Choose File No file chosen  
Add File

Please Upload Installation Instructions.  
Required for spectrally tunable product applications (those with varying output channels beyond simple, single-axis dimming of the whole product), including user-facing documentation narrating the control protocol and input parameters employed in controlled the output.

Choose File No file chosen  
Add File

Please Upload Warranty Documentation.  
Warranty documentation must cover the

NEW STYLE

# Family Grouping

- Compared to testing and listing all products individually
  - Reduce overall burden associated with listing multiple, similar product variations.
  - Reduce the total application fees.
- Familiarity with FG from SSL Program

Model	Wattage	Distribution	Spectrum	Voltage	
DLC	100	Distribution A	Spectrum A	120-277, 347, 480	Spectral Sub-Group
<i>DLC</i>	<i>100</i>	<i>Distribution B</i>	<i>Spectrum A</i>	<i>120-277, 347, 480</i>	
<i>DLC</i>	<i>200</i>	<i>Distribution A</i>	<i>Spectrum A</i>	<i>120-277, 347, 480</i>	
<i>DLC</i>	<i>200</i>	<i>Distribution B</i>	<i>Spectrum A</i>	<i>120-277, 347, 480</i>	
<i>DLC</i>	<i>300</i>	<i>Distribution A</i>	<i>Spectrum A</i>	<i>120-277, 347, 480</i>	
<i>DLC</i>	<i>300</i>	<i>Distribution B</i>	<i>Spectrum A</i>	<i>120-277, 347, 480</i>	
<i>DLC</i>	<i>400</i>	<i>Distribution A</i>	<i>Spectrum A</i>	<i>120-277, 347, 480</i>	
DLC	400	Distribution B	Spectrum A	120-277, 347, 480	
DLC	100	Distribution A	Spectrum B	120-277, 347, 480	Spectral Sub-Group
<i>DLC</i>	<i>100</i>	<i>Distribution B</i>	<i>Spectrum B</i>	<i>120-277, 347, 480</i>	
<i>DLC</i>	<i>200</i>	<i>Distribution A</i>	<i>Spectrum B</i>	<i>120-277, 347, 480</i>	
<i>DLC</i>	<i>200</i>	<i>Distribution B</i>	<i>Spectrum B</i>	<i>120-277, 347, 480</i>	
<i>DLC</i>	<i>300</i>	<i>Distribution A</i>	<i>Spectrum B</i>	<i>120-277, 347, 480</i>	
<i>DLC</i>	<i>300</i>	<i>Distribution B</i>	<i>Spectrum B</i>	<i>120-277, 347, 480</i>	
<i>DLC</i>	<i>400</i>	<i>Distribution A</i>	<i>Spectrum B</i>	<i>120-277, 347, 480</i>	
DLC	400	Distribution B	Spectrum B	120-277, 347, 480	
DLC	100	Distribution A	Spectrum C	120-277, 347, 480	Spectral Sub-Group
<i>DLC</i>	<i>100</i>	<i>Distribution B</i>	<i>Spectrum C</i>	<i>120-277, 347, 480</i>	
<i>DLC</i>	<i>200</i>	<i>Distribution A</i>	<i>Spectrum C</i>	<i>120-277, 347, 480</i>	
<i>DLC</i>	<i>200</i>	<i>Distribution B</i>	<i>Spectrum C</i>	<i>120-277, 347, 480</i>	
<i>DLC</i>	<i>300</i>	<i>Distribution A</i>	<i>Spectrum C</i>	<i>120-277, 347, 480</i>	
<i>DLC</i>	<i>300</i>	<i>Distribution B</i>	<i>Spectrum C</i>	<i>120-277, 347, 480</i>	
<i>DLC</i>	<i>400</i>	<i>Distribution A</i>	<i>Spectrum C</i>	<i>120-277, 347, 480</i>	
DLC	400	Distribution B	Spectrum C	120-277, 347, 480	
DLC	100	Distribution A	Spectrum D	120-277, 347, 480	Spectral Sub-Group
<i>DLC</i>	<i>100</i>	<i>Distribution B</i>	<i>Spectrum D</i>	<i>120-277, 347, 480</i>	
<i>DLC</i>	<i>200</i>	<i>Distribution A</i>	<i>Spectrum D</i>	<i>120-277, 347, 480</i>	
<i>DLC</i>	<i>200</i>	<i>Distribution B</i>	<i>Spectrum D</i>	<i>120-277, 347, 480</i>	
<i>DLC</i>	<i>300</i>	<i>Distribution A</i>	<i>Spectrum D</i>	<i>120-277, 347, 480</i>	
<i>DLC</i>	<i>300</i>	<i>Distribution B</i>	<i>Spectrum D</i>	<i>120-277, 347, 480</i>	
<i>DLC</i>	<i>400</i>	<i>Distribution A</i>	<i>Spectrum D</i>	<i>120-277, 347, 480</i>	
DLC	400	Distribution B	Spectrum D	120-277, 347, 480	

**32 individually tested** and listed on Hort QPL under V1.2

# Summary of Testing Requirements

Criterion	Which Model(s)	Test Required
Minimum PPF	Worst-case photosynthetic photon flux output variation	LM-79, including accompanying TM-33-18 document.  Note: A single LM-79 report may fulfill several criteria
Minimum Photosynthetic Photon Efficacy (PPE)	Worst-case efficacy	
Photosynthetic Photon Intensity Distribution (PPID)	Each unique optical and distribution pattern	
Minimum $Q_{90}$ Photon Flux Maintenance, Photosynthetic (PFM)	ISTMT at worst-case thermal conditions for each unique LED type	ISTMT
	LM-80 for each LED package/module/array as required for flux maintenance projection	LM-80/LM-84
		TM-21/TM-28
Driver Lifetime	Worst-case driver temperature for each non-relatable driver	ISTMT
Fan Lifetime	Worst-case fan temperature for each unique fan	ISTMT
Power Quality: Total Harmonic Distortion – Current (THDi) and Power Factor (PF)	Worst-case performing driver	Benchtop Electrical Testing or LM-79



# Family Grouping

- Reduce overall burden and cost by reviewing **worst-case models** within a family.
  - **Parent products** demonstrate compliance with the Technical Requirements for *child products*.
  - **Parent products** rely on tested data, **child products** rely on reported data.
- Worst-case criterion reporting and threshold requirements per V2.0.

Model	Wattage	Distribution	Spectrum	Voltage	
<b>DLC</b>	<b>100</b>	<b>Distribution A</b>	<b>Spectrum A</b>	<b>120-277, 347, 480</b>	Spectral Sub-Group
DLC	100	Distribution B	Spectrum A	120-277, 347, 480	
DLC	200	Distribution A	Spectrum A	120-277, 347, 480	
DLC	200	Distribution B	Spectrum A	120-277, 347, 480	
DLC	300	Distribution A	Spectrum A	120-277, 347, 480	
DLC	300	Distribution B	Spectrum A	120-277, 347, 480	
DLC	400	Distribution A	Spectrum A	120-277, 347, 480	
<b>DLC</b>	<b>400</b>	<b>Distribution B</b>	<b>Spectrum A</b>	<b>120-277, 347, 480</b>	Spectral Sub-Group
<b>DLC</b>	<b>100</b>	<b>Distribution A</b>	<b>Spectrum B</b>	<b>120-277, 347, 480</b>	
DLC	100	Distribution B	Spectrum B	120-277, 347, 480	
DLC	200	Distribution A	Spectrum B	120-277, 347, 480	
DLC	200	Distribution B	Spectrum B	120-277, 347, 480	
DLC	300	Distribution A	Spectrum B	120-277, 347, 480	
DLC	300	Distribution B	Spectrum B	120-277, 347, 480	
DLC	400	Distribution A	Spectrum B	120-277, 347, 480	
<b>DLC</b>	<b>400</b>	<b>Distribution B</b>	<b>Spectrum B</b>	<b>120-277, 347, 480</b>	Spectral Sub-Group
<b>DLC</b>	<b>100</b>	<b>Distribution A</b>	<b>Spectrum C</b>	<b>120-277, 347, 480</b>	
DLC	100	Distribution B	Spectrum C	120-277, 347, 480	
DLC	200	Distribution A	Spectrum C	120-277, 347, 480	
DLC	200	Distribution B	Spectrum C	120-277, 347, 480	
DLC	300	Distribution A	Spectrum C	120-277, 347, 480	
DLC	300	Distribution B	Spectrum C	120-277, 347, 480	
DLC	400	Distribution A	Spectrum C	120-277, 347, 480	
<b>DLC</b>	<b>400</b>	<b>Distribution B</b>	<b>Spectrum C</b>	<b>120-277, 347, 480</b>	Spectral Sub-Group
<b>DLC</b>	<b>100</b>	<b>Distribution A</b>	<b>Spectrum D</b>	<b>120-277, 347, 480</b>	
DLC	100	Distribution B	Spectrum D	120-277, 347, 480	
DLC	200	Distribution A	Spectrum D	120-277, 347, 480	
DLC	200	Distribution B	Spectrum D	120-277, 347, 480	
DLC	300	Distribution A	Spectrum D	120-277, 347, 480	
DLC	300	Distribution B	Spectrum D	120-277, 347, 480	
DLC	400	Distribution A	Spectrum D	120-277, 347, 480	
<b>DLC</b>	<b>400</b>	<b>Distribution B</b>	<b>Spectrum D</b>	<b>120-277, 347, 480</b>	

**8 individually tested, 32 listed on Hort QPL**

# Private Labeling

- V2.0 allows re-listing of products under multiple organizations and brands
  - Private Label products must be **exactly the same** as the OEM products
  - OEM products must already be listed on the Horticultural QPL
- Private Label products should not need to go through redundant testing
  - Overall, a **simplified application review process** for pre-approved products
  - Manufacturer and product relationships must be **clearly understood and documented**

**DesignLights Consortium® Private Label Agreement**  
Solid-State Lighting, Horticultural Lighting, Networked Lighting Controls

\_\_\_\_\_ [NAME OF ORIGINAL EQUIPMENT MANUFACTURER (OEM)], hereby represents and authorizes \_\_\_\_\_ [NAME OF PRIVATE LABELER] to list our product(s)/system under their private label brand.

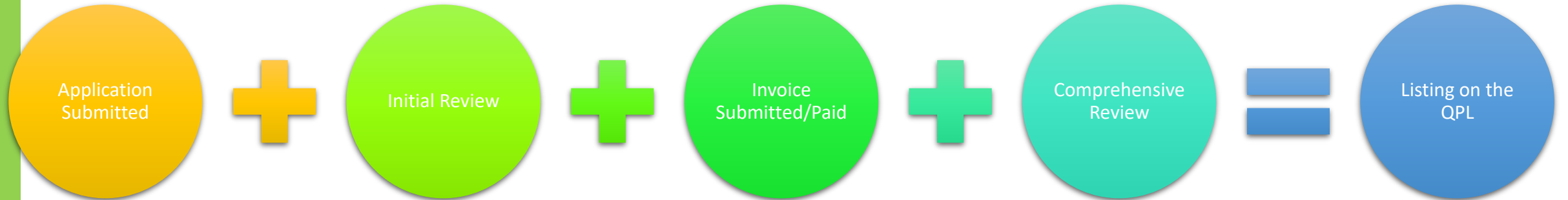
\_\_\_\_\_ [NAME OF PRIVATE LABELER] declares that the product(s)/system is identical in design, performance and components. Branding and packaging of the product are the only authorized changes. Product(s)/system(s) listed below:

OEM SYSTEM or MODEL NUMBER(S)	PRIVATE LABEL SYSTEM or MODEL NUMBER(S)



# Application Process Changes

# New Application Process Overview (Mimics SSL)



Submitter will be notified that the application has been submitted and a reviewer will be assigned.

Reviewer will review application and supporting documentation to ensure it is complete and work with submitter to resolve any issues

Submitter will receive and invoice. Payment of this invoice starts the next step in the review process

Reviewer will review application and supporting documentation to ensure all Technical and Reporting Requirements are met and work with submitter to resolve any issues

Products will be published to the QPL after completion of Comprehensive Review

NOTE: Products no longer published after invoicing



# **V2.0 Application Submission**

## Excel Application Forms

# Application Submission Instructions Single/Family

Complete Product Application Form (.xls) for all applicable tabs

Start New Application in Your Account

Create NEW Application with the correct application type on Applications Tab

Enter the required Application Details and Application Contact information.

- Upload ALL required application materials (examples below)
  - Completed Product Application Form (.xlsx)
  - Manufacturer product specification sheet
  - LED package/module/array specification sheet
  - IES LM-79 report(s)
  - ISTMT (Product Level Worst Case and Driver)
  - LM-80 and TM-21
  - TM-33
  - Supplemental power quality test report
  - Legal warranty document explaining warranty terms and conditions
  - Proof of safety certification from an appropriate safety certification body relevant in the US or Canada
  - Driver Specification sheet
  - Fan Specification sheet where applicable

Digitally sign the Application Agreement and submit the application.

# Private Label Application Submission Instructions

Complete Product Application Form (.xls) for all applicable tabs

Start New Application in Your Account

Create NEW Application with the correct application type on Applications Tab

Enter the required Application Details and Application Contact information.

- Upload ALL required application materials (example below)
  - Completed Private Label Application Form (.xlsx)
  - A product specification sheet for any new model numbers being submitted
  - OEM product specification sheet for the model numbers being private labeled
  - Proof of safety certification under the private labeler's organization name
  - Proof of safety certification under the OEM's organization name and model number(s)
  - Multiple Listing Correlation Sheet issued by the approved safety organization which cross references the OEM model numbers with private label model numbers.
  - Signed Private Label Agreement form
  - Warranty document from the private labeler covering the private label models in the applications

Digitally sign the Application Agreement and submit the application.

# HORT 2.0 APPLICATION EXCELS



Horticultural Single/Family Application

Family

Single

Horticultural Single/Family Application

- Horticultural Update Application (Single/Family)
- Horticultural Private Label Update Application

Update  
(Private Label,  
Single/Family)

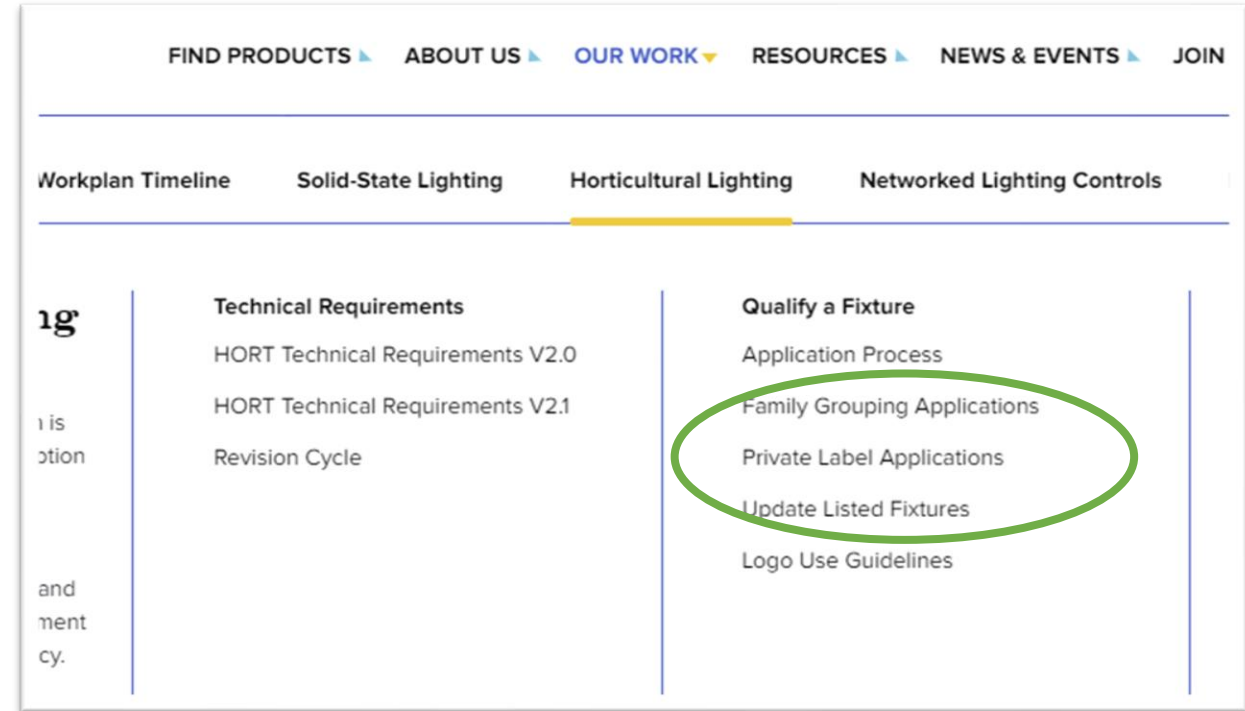
Private Label

Horticultural Private Label Application




# Application Form Excel

- Location of Excel Forms on DLC Website
- All tabs in the excel that are to be filled out by the Submitter



# Application Form Tab

- Includes General Application/Product Info
  - Company, Brand Name, Contact Info
- Includes General Product Info
  - Intended Use/Product Description,
  - Product Model Number Breakdown
  - Scaling Methodology
  - Housing Variation

 DLC Qualified Products List Horticultural Family Submission Form															
Entire application form must be filled out and submitted online using your manufacturer account.															
<b>Company</b>															
<b>Brand Name</b>															
<b>Contact Name</b>															
<b>Phone</b>															
<b>Email</b>															
<b>Website</b>															
<b>Product Information</b>															
<b>Intended Use</b> Enter the intended usage of the product in a horticultural setting. For example, "sole-source", "supplemental", and "intra-canopy" are common applications. This will not appear on the GPL, and is for the DLC's use in understanding product trends to support potential future segmentation of the GPL based on single categories.															
<b>Description of Product</b> Describe the product, how it is used in the field, and any other information that may be useful to describe for the reviewer. This information will not be displayed on the GPL and will help the reviewer understand the various product constructions and process.															
<b>Scaling Methodology</b> Provide a detailed explanation of how the reported data included in the excel upload have been determined. Please upload supporting documentation if available. This information will not be displayed on the GPL. A more detailed explanation of the scaling methodology may reduce reviewer questions as the application is processed.															
Please list out the different housing variations available within your product (ex. 1X4, 2X2, 2X4). This information will not be displayed on the GPL and will help the reviewer understand the various product constructions and process your application.															
<b>Housing Variation A</b>															
<b>Housing Variation B</b>															
<b>Housing Variation C</b>															
<b>Housing Variation D</b>															
<b>Housing Variation E</b>															
<b>Product Identifier Information</b>															
You must provide a breakdown of your ordering code below. Be sure to follow the format of the example															
<table border="0" style="width: 100%;"> <tr> <td style="width: 30%;"><b>Example Model Number:</b></td> <td><b>ABC-V-W-XXX-Y-Z</b></td> </tr> <tr> <td></td> <td><b>ABC = Family Series</b></td> </tr> <tr> <td></td> <td><b>V = CCT; 30 = 3000K; 40 = 4000K</b></td> </tr> <tr> <td></td> <td><b>W = Wattage; 2 = 20W; 4 = 40W; 6 = 60W</b></td> </tr> <tr> <td></td> <td><b>XXX = Optic Type; TTT - Type 1; SSS - Type 2; RRR - Type 2 Medium; QQQ - Type 3; PPP - Type 4; NNN -</b></td> </tr> <tr> <td></td> <td><b>YY = Drive Current; 35 - 350mA; 53 - 530mA; 70 - 700mA</b></td> </tr> <tr> <td></td> <td><b>Z = Mounting Option; Mounting 1; Mounting 2; Mounting 3</b></td> </tr> </table>		<b>Example Model Number:</b>	<b>ABC-V-W-XXX-Y-Z</b>		<b>ABC = Family Series</b>		<b>V = CCT; 30 = 3000K; 40 = 4000K</b>		<b>W = Wattage; 2 = 20W; 4 = 40W; 6 = 60W</b>		<b>XXX = Optic Type; TTT - Type 1; SSS - Type 2; RRR - Type 2 Medium; QQQ - Type 3; PPP - Type 4; NNN -</b>		<b>YY = Drive Current; 35 - 350mA; 53 - 530mA; 70 - 700mA</b>		<b>Z = Mounting Option; Mounting 1; Mounting 2; Mounting 3</b>
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	<b>YY = Drive Current; 35 - 350mA; 53 - 530mA; 70 - 700mA</b>														
	<b>Z = Mounting Option; Mounting 1; Mounting 2; Mounting 3</b>														

# Reported Performance Table

- **Reported data is reported performance data** from the manufacturer that describes the expected performance of the product(s)
- This data is **derived by the luminaire manufacturer** and these claims are entered into the application excel form
- The DLC evaluates reported performance claims based on the information manufacturers choose to report in their **product specification sheets and/or other marketing materials.**
  - If the performance claims reported in specification sheets and/or other marketing material are below the Technical Requirements, the DLC reviewer will reject the application as marketing material cannot indicate that the product's marketed performance is below any of the Technical Requirements.
  - To avoid delays in review, please review all marketing material prior to submitting an application to ensure it accurately reflects the product submitted, and does not contain outdated or incorrect information, or typographical errors.

Reported Minimum Input Voltage	Reported Maximum Input Voltage	Reported Photosynthetic Photon Flux ( $\mu\text{mol/s}$ ) (400-700nm)	Reported Photon Flux Blue ( $\mu\text{mol/s}$ ) (400-500nm)	Reported Photon Flux Green ( $\mu\text{mol/s}$ ) (500-600nm)	Reported Photon Flux Red ( $\mu\text{mol/s}$ ) (600-700nm)

# Component Tab

Instructions:			
1 - Please fill in your component information below.			
2 - Driver, fan, and LED model numbers listed below must exactly match driver, fan, and LED model numbers listed in the Reported Performance Table.			
			For LED components Only
Component Model Number	Manufacturer	Component Type	Max LED Current within application

- Enter LED, Driver and Fan Information
  - Driver, fan, and LED model numbers listed below must **exactly match** driver, fan, and LED model numbers listed in the Reported Performance Table.
  - Component model numbers especially LED must be the complete model number not a series designation or partial model numbers.

# Spectral Tuning Products

- If product has spectral tuning capabilities for each model number, please enter spectral tuning performance at each isolated channel to the right.
- Each Spectral Channel has unique information to be entered

**Instructions:**  
If product has spectral tuning capabilities for each model number, please enter spectral tuning performance at each isolated channel to the right. Please enter channel 1 information below.

Model number	Spectral Channel 1						
	Spectral Channel Name 1	Reported Photosynthetic Photon Flux (μmol/s) (400-700nm) Channel 1	Reported Photon Flux Blue (μmol/s) (400-500nm) Channel 1	Reported Photon Flux Green (μmol/s) (500-600nm) Channel 1	Reported Photon Flux Red (μmol/s) (600-700nm) Channel 1	Reported Photon Flux Far Red (μmol/s) (700-800nm) Channel 1	Reported Photon Flux (μmol/s) (280-800nm) Channel 1

# Resources Available

Resources are available on the website that give more detail to testing and reporting requirements

FIND PRODUCTS ▾ ABOUT US ▾ OUR WORK ▾ RESOURCES ▾ NEWS & EVENTS ▾ JOIN US ▾ Q Bernadette Boudreau  
DLC

Workplan Timeline Solid-State Lighting **Horticultural Lighting** Networked Lighting Controls LUNA

ng	Technical Requirements	Qualify a Fixture	Learn
n is	HORT Technical Requirements V2.0	Application Process	Hort Lighting Resources ←
ption	HORT Technical Requirements V2.1	Family Grouping Applications	Hort FAQs
.	Revision Cycle	Private Label Applications	Past Technical Requirements
		Update Listed Fixtures	

1 **Testing and Reporting Requirements for**  
2 **LED-based Horticultural Lighting**  
3 **Version 2.0**  
4 **Effective Date: March 31, 2021**

5 Horticultural lighting products using LEDs must comply with the provisions of this document to be  
6 eligible for listing on the DLC Solid-State Horticultural Lighting Qualified Products List ("Horticultural  
7 QPL", "Hort QPL"). Products eligible for DLC qualification must be complete LED light fixtures. That is,  
8 they must be electromagnetic radiation-generating devices analogous to luminaires (or fixtures) as

1 **Private Label Application Requirements for**  
2 **LED-based Horticultural Lighting**  
3 **Version 2.0**  
4 **Effective Date: March 31, 2021**

5 *Note: The DLC will begin accepting private label applications for horticultural fixtures in June 2021.*  
6 *Please reference the [Interim Application Period Guidance for V2.0](#) for details.*



# Timelines



# New Review Timelines

<b>Application Type</b>	<b>Initial Review</b>	<b>Comprehensive Review</b>
<b>Single Product</b> <i>Including Advanced Products</i>	9 Business Days	7 Business Days
<b>Family Grouping</b>	9 Business Days	10 Business Days
<b>Private Label</b>	6 Business Days	6 Business Days
<b>Product Updates</b>	9 Business Days	10 Business Days

# Fees



## New Product Application Fees

Horticultural Fixture Feature	Price
<b>Single Product and/or Parent Product(s)</b>	
Basic fixture*, with one LED type, one driver, no fan, and no spectral tuning	\$750
Additional LED type included in fixture (Q <sub>90</sub> verification)	\$115
Additional driver available in fixture (lifetime & efficiency verification)	\$105
Internal fan included in fixture (lifetime verification)	\$45
Spectral tuning (per channel flux verification)	\$125
<b>Child Product</b>	
Each additional family member (child) after the parent	\$30
<b>Private Label Product</b>	
Private Label Application	\$500
Each additional family member (child) after the parent	\$30

Horticultural Update Application (Including Private Label Updates)	Price
Performance-affecting updates	\$500
Non-radiometric and/or non-worst-case performance affecting updates	\$375
Nomenclature updates	\$0



**QPL**



NEW QPL

## Search the DLC Qualified Products Lists

The DLC Qualified Products Lists are the largest verified lists of high performing and energy saving LED lighting solutions in the world. Qualified products undergo thorough vetting and review by DLC experts to ensure they meet our rigorous energy and quality requirements. Choose between solid-state lighting products, horticultural lighting products, or networked lighting controls systems below to begin your search for energy efficient lighting solutions.



### Solid-State Lighting

Search over 80 categories of indoor and outdoor commercial LED luminaires, retrofit kits, and replacement lamps.

[Browse Qualified Products](#)



### Horticultural Lighting

Browse the greenest horticultural lighting fixtures on the market to capture energy and cost savings for your facility.

[Browse Qualified Products](#)



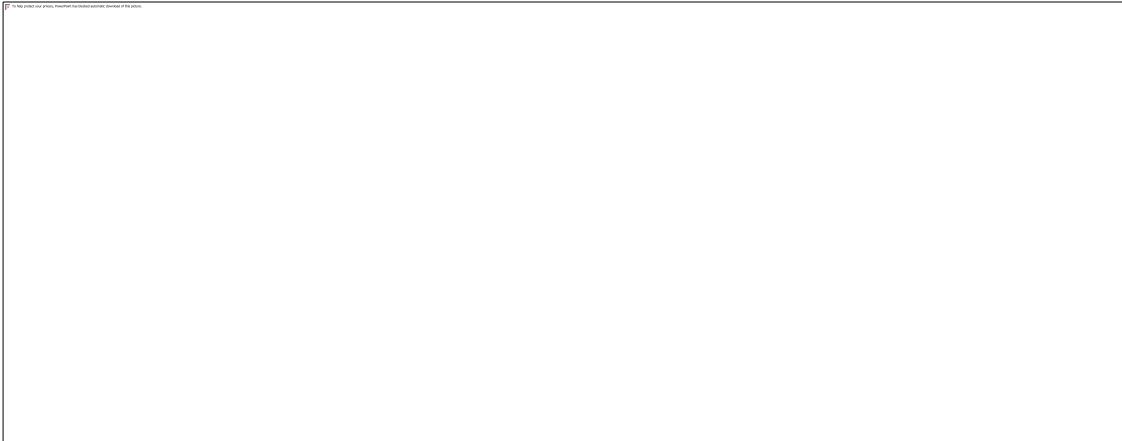
### Networked Lighting Controls

Find out what networked lighting controls can do for your facility while saving up to 50% more energy than LED lighting alone.

[Browse Qualified Products](#)

The DLC QPLs will have an improved look and feel, but with the same great features you're used to:

- Search for specific model or Product IDs
- Narrow your search by using all the same product filters you're familiar with
- Download specific groups of products and save searches for easy product verification



### **NEW features:**

- Search products by Brand
- Print detailed product listings
- Add specific products to lists to download or go back and access later
- View improved product listings with more detailed product or system data

# HORT QPL Searches/Filters

## Product Info

You have 0 saved items

Save Search View Saved Searches

Listed Products

Manufacturer

filter this list X

- 4D BIOS INC
- AEssense
- AGxano
- ALD Green
- Active Grow

Brand

filter this list X

- 4D BIOS
- AELIUS LED
- AEssenseGrows
- AGxano
- ALD GREEN

Technical Requirements Version

- 2.0
- 1.2
- 1.0

Product Features

- Dimmable
- Fan Presence
- Spectrally Tunable

## Performance Data

State Compliance

- Illinois Cannabis Regulation And Tax Act Compliance
- Massachusetts CCC Compliance

Tested Performance Criteria

Tested Photosynthetic Photon Flux ( $\mu\text{mol/s}$ )

0 - 2500

Tested Photon Flux Blue ( $\mu\text{mol/s}$ )

0 - 400

Tested Photon Flux Green ( $\mu\text{mol/s}$ )

0 - 1000

Tested Photon Flux Red ( $\mu\text{mol/s}$ )

0 - 1600

Tested Input Wattage

0 - 1000

Tested Photosynthetic Photon Efficacy ( $\mu\text{mol/J}$ )

0 - 5

Tested Power Factor

0.87 - 1

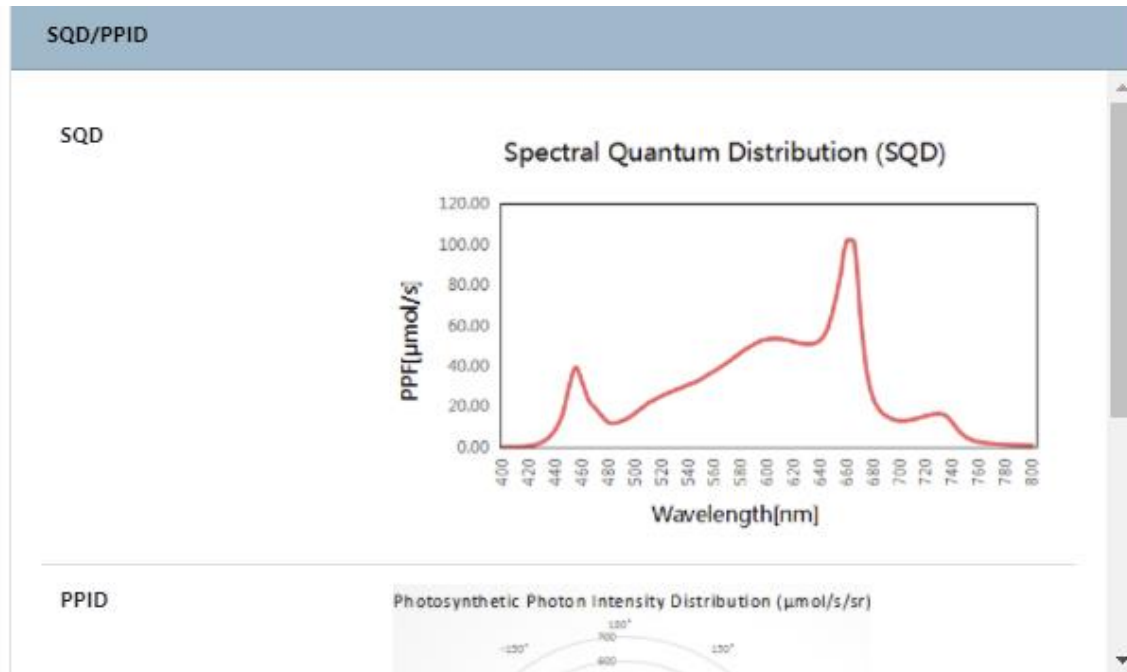
Tested Total Harmonic Distortion

0 - 0.25



# SQD and PPID Images

Images can be viewed on the QPL or the Print feature can be used to save and download these images



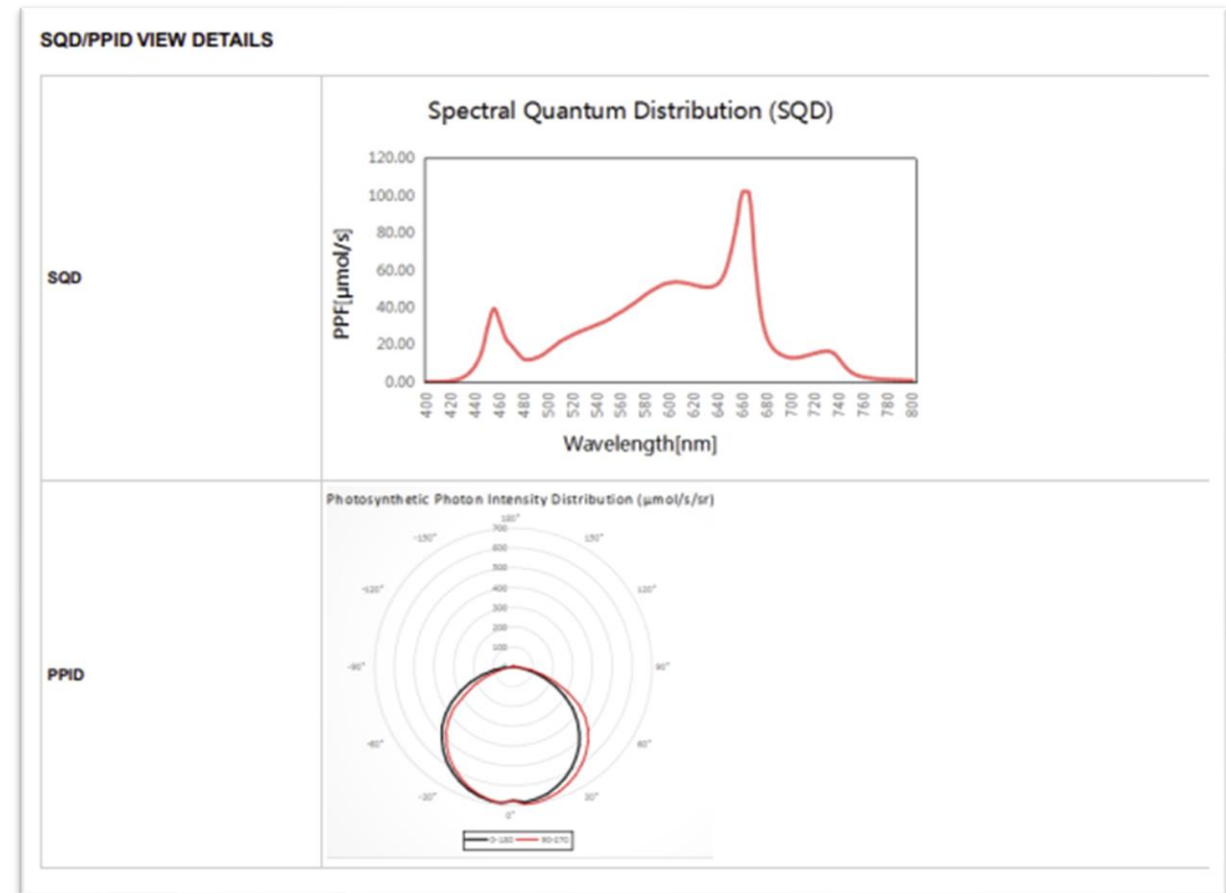
VERSION HISTORY

VIEW DETAILS

Save to List

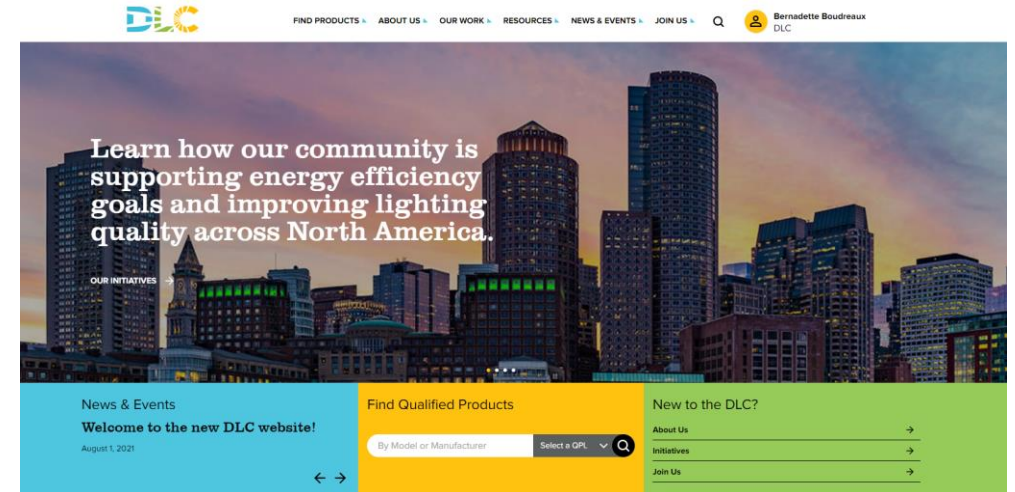
Print this Page

Close



# Webinar Logistics

- **Slides and recorded webinar will be posted on the *DLC Website* [www.designlights.org](http://www.designlights.org) shortly after today's presentation**



# Thank you!

- For additional questions on the horticultural program or applications specifics please reach out to:

[Horticulture@designlights.org](mailto:Horticulture@designlights.org)

- If you'd like to reach out to us directly our emails are:

[bboudreaux@designlights.org](mailto:bboudreaux@designlights.org)

[afeldman@designlights.org](mailto:afeldman@designlights.org)

