



Dear DLC Consortium Members and Stakeholders:

The DLC is pleased to release the second draft of the LUNA Version 1 Technical Requirements for public comment. By establishing requirements and reporting standards for light distribution, spectral characteristics, and controllability, a LUNA qualification will identify energy efficient luminaires on the Solid-State Lighting (SSL) Qualified Products List (QPL) that also minimize light pollution, are controllable, provide appropriate visibility for people, and limit negative impacts to the environment.

Please submit all comments using the comment form linked below to comments@designlights.org by **Friday, October 22, 2021**.

[View Draft 2 LUNA V1 Technical Requirements](#)

DRAFT 2 LUNA V1 Technical Requirements

The DLC LUNA requirements are intended to mitigate negative impacts of lighting at night by establishing system performance specifications and best practices with the following goals:

- **Minimize light pollution.** Requirements for light distribution, spectral characteristics, and dimming control decrease the light scattered into the atmosphere so that light trespass and sky glow are reduced, resulting in darker skies and more controlled illumination to support the needs of wildlife, stargazers, and astronomers.
- **Minimize lighting energy use.** Baseline efficacy thresholds of DLC SSL V5.1 along with additional dimming and control requirements ensure efficient use of lighting energy, which will help efficiency programs meet their savings goals and end users reduce operational costs. LUNA provides allowances for energy efficiency in order to minimize light trespass with optical control.
- **Provide appropriate visibility for people.** The DLC's SSL V5.1 requirements for spectral quality and controllability, plus reporting of BUG rating, spectral power distribution, and intensity distribution, allow specifiers to choose the right product for the application so that installations meet recommended practices and voluntary guidelines.

Draft 2 includes changes resulting from comments received on Draft 1, summarized below:

1. General comments

- The DLC received a total of 243 comments on Draft 1. General comments including the need for disclaimers, more clear references, considerations of existing standards, and the need for education around light quality and LUNA product efficiency.
- To address the general comments, Draft 2 includes a new foreword that describes the DLC, as well as the scope and limitations of the LUNA Technical Requirements.

2. Light Distribution

- The DLC received 100 comments related to Light Distribution on Draft 1, which included the burden of submitting images of the intensity distribution, eligibility of primary use designations (PUDs), proposed tilt angle allowed, and the proposed requirement of shields.
- To address these comments, Draft 2 proposes that the DLC will create images based on submitted photometric data, removed some PUDs from LUNA eligibility, increased the allowed tilt angle, and allowed shields to be available as an accessory rather than an option.

3. Spectral Quality

- The DLC received 55 comments related to Spectral Quality, which included considering tunable products outside the LUNA eligible CCT range, the weak correlation of CCT to the impacts of light at night, and the potential of graphical representations of spectral data to be misleading when using them to infer specific impacts.
- To address these comments, Draft 2 maintains the proposal that tunable and static products are eligible if they only operate within the eligible range and, similar to distribution, the DLC is proposing to create SPD images based on submitted photometric data.

4. Controllability

- The DLC received 47 comments related to Controllability, which included support for requiring dimming to 20%, additional dimming protocols and standards, and clarifications to wording.
- To address these comments, the DLC is maintaining the dimming requirement, has added some of the suggested dimming protocols and standards, and has clarified language in the requirements.

Comment Form

The DLC is seeking stakeholder input on Draft 2 through the comment form linked below, before releasing the final LUNA requirements in December 2021. Please submit all comments using the comment form to comments@designlights.org by **Friday, October 22, 2021**.

[Download Comment Form](#)

Informational Webinar

The DLC will host an informational webinar on **Wednesday, September 22 at 1:00 pm ET** to review the proposed Technical Requirements.

[Register for Webinar](#)

If you have questions about the LUNA requirements, please contact info@designlights.org. We appreciate your comments and feedback and look forward to engaging with you as we continue to develop the LUNA program.

Best regards,

The DLC Team