***Standards for Outdoor Lighting***

*When purchasing outdoor lighting, buyers have several options for energy certifications available to them including ENERGY STAR, FEMP-designated products, DLC, and DLC Premium. Buyers should specify one or multiple certification levels that all outdoor lighting products supplied must comply with. Our team has assessed the four lighting standards and determined that in general for commercial applications, DLC Premium has the highest efficacy requirements for outdoor lighting categories.*

*The table below gives an example of the variability in efficacy levels for the different types of certifications available for outdoor lighting.*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Brands** | [FEMP-designated](https://www.energy.gov/eere/femp/purchasing-energy-efficient-exterior-lighting)\* | [DLC](https://www.designlights.org/solid-state-lighting/qualification-requirements/v5-1-technical-requirements-tables/)\*\* | [DLC Premium](https://www.designlights.org/solid-state-lighting/qualification-requirements/v5-1-technical-requirements-tables/)\*\* | [ENERGY STAR](https://www.energystar.gov/sites/default/files/Luminaires%20V2.2%20Final%20Specification.pdf)\*\*\* |
| **Minimum Lamp Efficacy** | ≥ 45-119 Lm/W | ≥ 105 Lm/W | ≥ 120 Lm/W | ≥ 60 Lm/W |

\*Category is *Exterior Lighting - Bollards to Outdoor pole/arm-mounted area and roadway luminaires*

\*\*Category is *Low Output (250-5,000 lm)*

\*\*\*Category is *Outdoor, Wall- ,Porch- ,Prendant- , Post-Mounted and Security Luminaires*

**Cut-and-Paste Acquisition Language for Outdoor Lighting [Product Solicitation]**

**Statement of Work [*Include in solicitation AND contract language*]**

According to [*your organization’s*] goals to optimize energy performance at [*your site*], the Vendor shall ensure that all outdoor lighting products supplied meet or exceed [DLC Premium](https://www.designlights.org/search/) qualifications.

**Technical Specifications [*Include in solicitation AND contract language*]**

The Vendor shall supply outdoor lighting products that meet or exceed DLC Premium standards. Search for DLC Premium outdoor lighting products on the DLC Qualified Products List (make sure to filter out the ‘Classification’ as DLC Premium): <https://www.designlights.org/search/>.

|  |
| --- |
| **V5.1 Efficacy Requirements for Luminaires and Retrofit Kits [ DLC Premium Classifications]** |
| **Category** | **DLC Premium Minimum Efficacy (lm/W)** |
| Outdoor Luminaires | 120 |
| Outdoor Retrofit Kits | 120 |

Source: <https://www.designlights.org/solid-state-lighting/qualification-requirements/technical-requirements-v5-1/>

Products that do not meet or exceed DLC Premium standards **will not** be considered for the bid.

**Document Requirements [*Include in solicitation AND contract language*]**

The Vendor shall submit manufacturer cut sheets for each model of outdoor lighting product supplied indicating an energy efficiency rating that meets or exceeds [DLC Premium](https://www.designlights.org/search/) qualifications.\*

\*If your product meets or exceeds DLC Premium standards, but is not officially listed as DLC Premium, please also submit a third-party testing result indicating how your product meets the prescribed energy efficiency requirement.

**Evaluation Criteria**

[*Option 1*] The Vendor will be evaluated based on the Vendor’s ability to verify that all outdoor lighting products supplied meet or exceed [DLC Premium](https://www.designlights.org/search/) qualifications.

[*Option 2*] The Vendor will be evaluated based on Best Value as assessed through life cycle cost analysis. Vendors are required to provide the cost for each product using the life cycle cost formula below:

LCC = I + Repl − Res + E + W + OMR + X

where:

LCC = Total LCC in present-value dollars of a given alternative

I = Present-value investment costs

Repl = Present-value capital replacement costs

Res = Present-value residual value (resale value, scrap value, salvage value) less disposal costs

E = Present-value energy costs

W = Present-value water costs

OMR = Present-value non-fuel operating, maintenance, and repair costs

X = Present-value other costs (benefits treated as negative costs)

For more information on how to calculate life cycle cost, refer to <https://nvlpubs.nist.gov/nistpubs/hb/2020/NIST.HB.135-2020.pdf>

**Reporting** **[*Optional - For recurring purchases/indefinite delivery/blanket purchase orders*]**

[*Insert in* ***Document Requirements*** *section*] Vendors shall submit a sample Green Products Report to [*your organization*] with every invoice. This report will serve as an example of the regular Green Products Report expected during the duration of the contract and should include the type of product supplied, quantity, dollar value, and type of green certification the product qualifies for, for all outdoor lighting products supplied.

[*Insert in* ***Evaluation Criteria*** *section*] Additional points shall be awarded to Vendors able to provide a Green Products Report with every invoice for the duration of the contract. The Green Products report must include all of the information specified in the **Document Requirements** section for all outdoor lighting products supplied.

[*Insert in* ***Document Requirements*** *section \*Include in contract language*] Vendors shall provide a Green Products Report to [*your organization*] with every invoice. This report should include the type of product supplied, quantity, dollar value, and type of green certification the product qualifies for, for all outdoor lighting products supplied.

Reference: SF Tool Green Procurement Compilation - <https://sftool.gov/greenprocurement>