199—27.11(476) Exterior flood lighting.

27.11(1) *Newly installed lighting.* All newly installed exterior flood lighting owned by an electric cooperative or municipal electric utility are to be solid-state lighting or lighting with equivalent or better energy efficiency.

27.11(2) *In-service lighting replacement schedule.* In-service lighting is to be replaced with solid-state lighting or lighting with equivalent or better energy efficiency when worn out due to ballast, lamp, or fixture failure or for any other reason, such as vandalism or storm damage. Electric cooperatives and municipal electric utilities are to include in their annual report to be filed pursuant to 199—Chapter 23 a report stating the progress in converting to higher pressure sodium lighting or lighting with equivalent or higher energy efficiency.

27.11(3) *Efficacy standards.* Lighting other than solid-state has equivalent or better efficacy if one or more of the following can be established:

a. For fixtures, the mean lumens-per-watt lamp rating is greater than 100;

b. The new lighting uses no more energy per installation than comparable, suitably sized solid-state; or

c. The new lighting luminaires have a mean efficacy rating equal to or greater than 100 lumens per watt according to a Department of Energy (DOE) Lighting Facts label, testing under the DOE Commercially Available LED Product Evaluation and Reporting Program (CALiPER), Design Lights Consortium (DLC) or any other testing agency that follows Illuminating Engineering Society of North America LM-79-19, as approved May 14, 2019, test procedures.

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