**Light-Emitting Diode program options**

Florida Power & Light’s (FPL) Business Lighting program offers rebates for many different applications and types of lights. We offer Light-Emitting Diode (LED) rebates for 40 Watts and higher fixtures for parking garages and High Bay LED. Additional fixtures may qualify for rebate based on site-specific qualifications including a minimum 25 kWd reduction which we evaluate through our Business Custom Incentive (BCI) program.

Currently there are LED tubes available in the market for direct installation in existing 2x4 fixtures. In order for LED technology to qualify for a rebate the entire fixture should be replaced. Replacing only the lamp with an LED tube doesn't qualify for rebates.

For more information on whether your LED project might qualify for participation in our program, please contact your account manager or the program managers at Lighting.Rebates@FPL.com.

FPL incorporates testing results from national recognized research facilities, including the Energy Efficiency and Renewable Energy Division of DOE, Pacific Northwest Labs, Illuminating Engineering Society, Florida Solar Energy Center and others, in the design of all of our rebate programs. We continue to monitor the development of LED technology through scientific data supplied by these agencies. In addition, we run an economic analysis for each BCI project to ensure that it is cost effective for our customers.

Recommendations for customers evaluating LED lighting:

- Review manufacturer's specification against testing standards (see label below).
- Consider hiring a professional to evaluate different options and run photometric calculations that include site-specific factors such as mounting height, reflectance, work plane, etc.
- Manufacturers serve as another resource that can assist with photometrics as well as life cycle cost analysis to assure that the product will make economic sense.
- Check that selected product has been qualified by ENERGY STAR® or Design Lights Consortium at [www.energystar.gov](http://www.energystar.gov) and [www.designlights.org](http://www.designlights.org).
- Take into account that LED lamps do not burn out at the same rate as other lighting technologies. Their useful life is defined as the length of time it takes their output to deplete to 70% of the initial lumens (L70). The LED rated lamp life is the number of hours an LED lighting fixture will deliver a sufficient amount of light in a given application.
- Consider heat dissipation when retrofitting in recessed fixtures.
- Keep in mind that there are several factors to consider when installing LED lights, including beam angle, color rendering, color temperature, color stability, and dimming performance.
- Check for a Lighting Facts® label (see below)

Testing standards/reference material:

- LM-80 IESNA Approved Method for Measuring Lumen Maintenance of LED Light Sources
- TM-21 Long Term Lumen Maintenance of LED Light Sources