

Changing the Way Florida Looks at Night

FPL LT-1 LED Lighting Tariff

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FOUNDED IN FLORIDA

The Founding Company – Florida Power & Light Company (FPL)

- Began in the final days of 1925
- Joined the New York Stock Exchange in 1950
- Largest electric utility in Florida
- A leading Florida employer (approximately 8,900 employees)

The Next Era Begins

- In 2010, FPL's parent company (FPL Group) was renamed NextEra Energy, a forward-looking enterprise that sees the future and gets there first
- Headquartered in Juno Beach, Florida
- Ranked the top "green utility" in the United States in 2015 and 2016

PIONEERS OF POWER

FPL

- Serves nearly 5 million accounts or more than 10 million people across nearly half of the state of Florida
- Residential and business rates among the lowest in the state and the nation
- One of the cleanest power plant fleets among all utilities nationwide

NextEra

- Operations in 30 states and Canada
- Largest generator of renewable energy in the world
- Capacity 45.9 GW

LEADERS IN LIGHT

FPL

- Providing street light services for more than 60 years
- Currently providing street light services for more than 500K owned and maintained street lights
- Services/replaces approximately 150K lights per year
 - Automobile accidents
 - Hurricanes
 - Routine maintenance
- Through smart grid technology, FPL owned street lights are now equipped with "Smart Nodes" that can auto-generate trouble tickets

NEW LT-1 TARIFF

Approved by the PSC on April 28, 2017, this tariff provides for the installation of FPL owned LED lights at no upfront cost to customers*.

- The Tariff allows us to offer a variety of LED street and area light solutions in a variety of different scenarios:
 - Convert HPS lights currently under SL-1
 - Convert customer owned and maintained lights to LED
 - Install new LED street and area lights
- Monthly fixture, maintenance, and energy charges are determined based on the fixture chosen by the customer
- Customers may pay additional monthly charges for dedicated light poles, underground construction and conversions

^{*} In cases where directional boring or other uncommon construction concerns exist, an upfront fee may be required

Proliferation of LED

LEDs are in our cars, our offices, our homes and even our pockets











JUST SOME OF THE US CITIES CONVERTING

- Los Angeles, CA
- Las Vegas, NV
- Boston, MA
- New York City, NY
- West Palm Beach
- Detroit, MI
- San Francisco, CA
- Cleveland, OH
- St. Louis, MO
- Portland, OR

- Orlando, FL
- Asheville, NC
- Raleigh, NC
- Oahu, HI
- Pittsburg, PA
- Pueblo, CO
- Austin, TX
- San Antonio, TX
- Seattle, WA
- Salt Lake City, UT

- Phoenix, AZ
- Anchorage, AK
- Topeka, KS
- Des Moines, IA
- Chattanooga, TN
- Canton, OH
- Mobile, AL
- Tampa, FL
- Chicago, IL
- Providence, RI

DEMAND IS HIGH FOR LED STREET LIGHTS UNDER LT-1

More than 40 cities have already signed up to do citywide conversions

















































BENEFITS OF LED

LEDs offer:

- Superior color rendition and differentiation
 - High color rendering index (CRI)
 - More natural colors than HPS
- High efficiency
 - Energy savings up to 50%+
- Greater variety of choices



Comparison of LED fixtures (left) versus High Pressure Sodium (HPS) fixtures (right)

Image from http://www.myLEDlighting guide.com

WHY CHOOSE LED OVER HPS?



Compare color rendering from HPS lights vs. LED on the building

Compare light pollution contribution from HPS lights vs. LED

LED ADVANTAGES

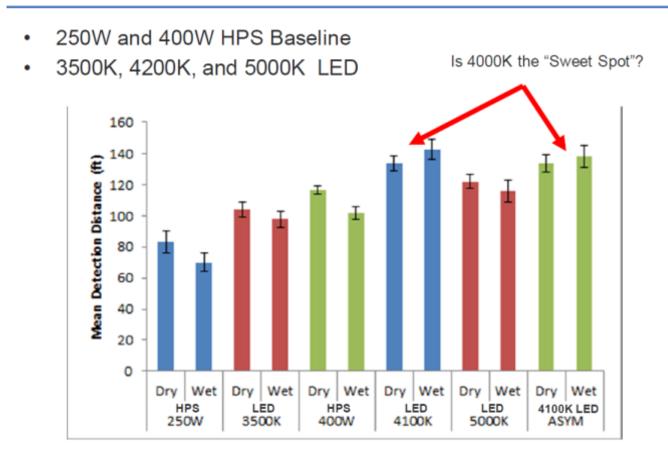
WHY CHOOSE LED OVER HPS?

Compare **uplight** component from HPS lights vs. LED



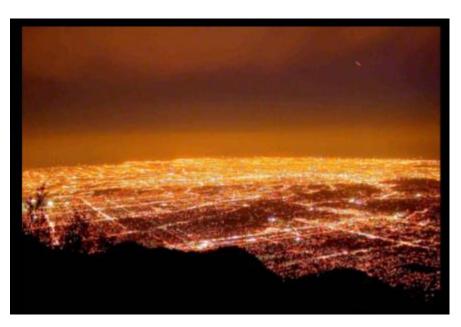
Compare **color rendering** from HPS lights vs. LED on the stripe colors

Object Detection Distance Example



Credit: Virginia Tech Transportation Institute

CITY OF LOS ANGELES





New Fixtures

