



NEW STREETLIGHTS MELROSE PARK

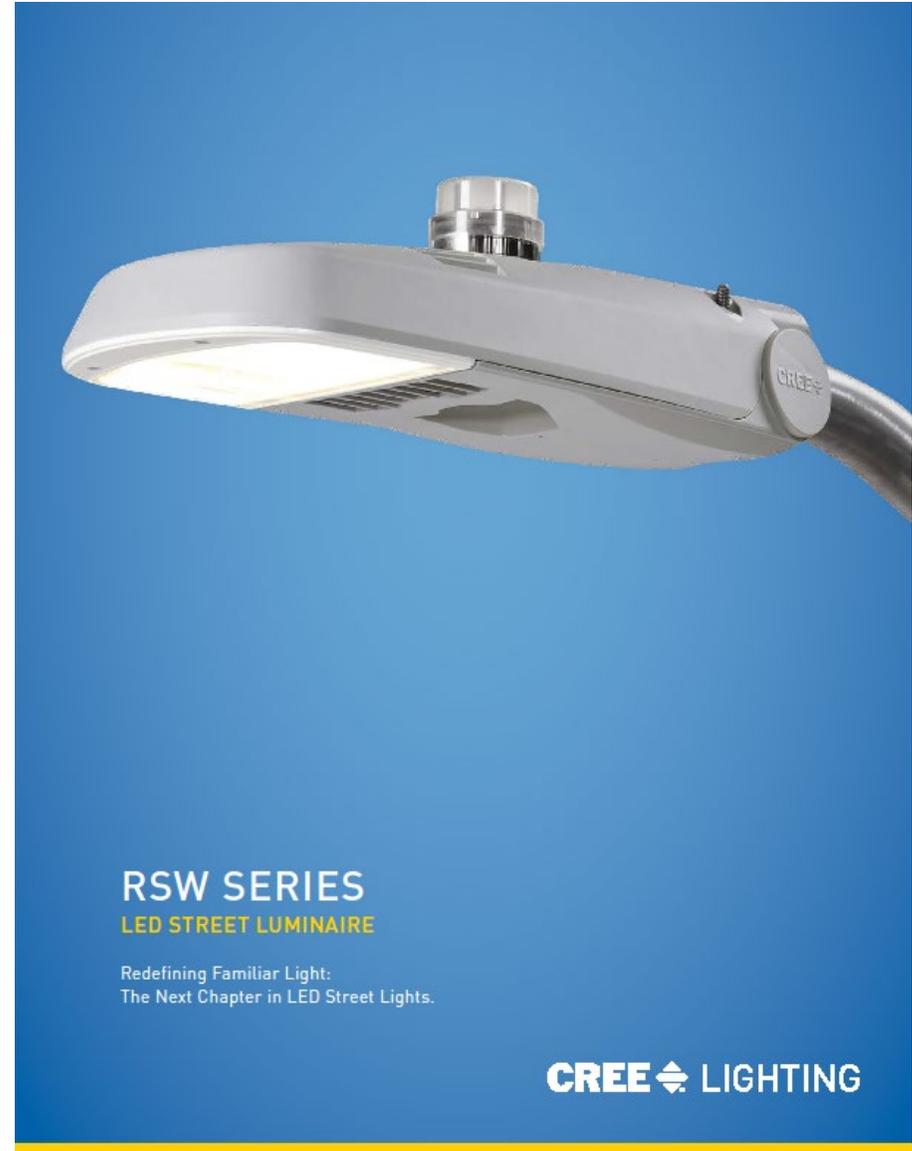
Public Meeting, July 28, 2021

NEW STREETLIGHTS MELROSE PARK



Meeting Agenda

- Introductions
- Project Presentation
 - Overall Project Description
 - Project Goal
 - Project Area
 - Preliminary Schedule
 - Cost Approach
 - Design Elements
- Open Discussion/Questions
- Closing Remarks/Next Steps
- Crime Statistics





NEW STREETLIGHTS MELROSE PARK

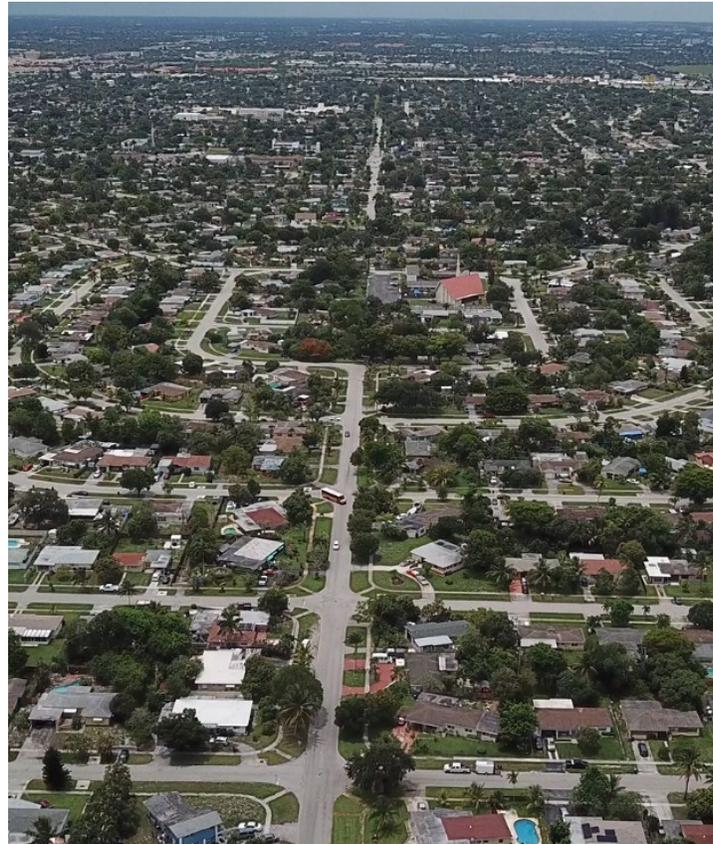
Project Goal

This project will provide new streetlighting throughout the Melrose Park Neighborhood Association to enhance the pedestrian and roadway safety. The City is planning to use Florida Power & Light Company (FPL) street lighting program where the streetlighting cost is paid based on established monthly fees.

NEW STREETLIGHTS MELROSE PARK



N.I.C.	E-02	E-03	E-04	E-05	E-06
E-07	E-08	E-09	E-10	E-11	E-12
E-13	E-14	E-15	E-16	E-17	E-18
E-19	E-20	E-21	E-22	E-23	E-24
E-25	E-26	E-27	E-28	E-29	E-30
E-31	E-32	E-33	E-34	E-35	E-36
E-37	E-38	E-39	E-40	E-41	E-42



Project Area

- 722 new streetlights are proposed to be installed throughout the entire Neighborhood Association limits and will be located within the City Right-Of-Way

NEW STREETLIGHTS MELROSE PARK



Preliminary Schedule



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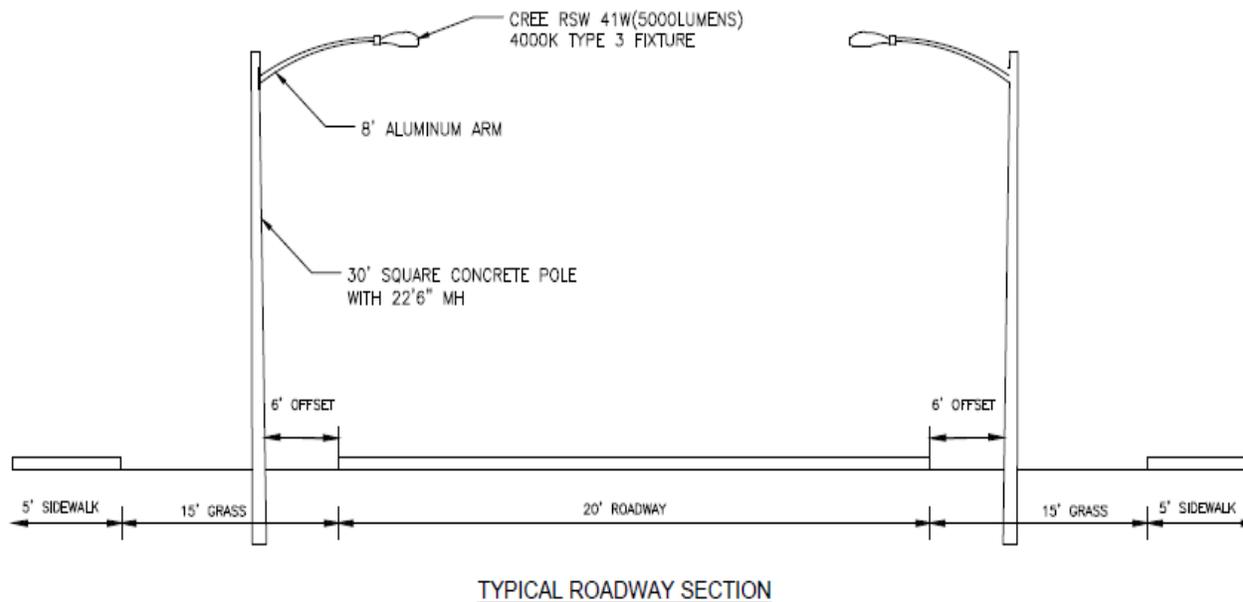


Cost Approach

- The City is planning to use Florida Power & Light Company (FPL) street lighting program to implements the improvements where the streetlighting cost is paid based on established monthly fees.
- The monthly cost is currently estimated by FPL to be \$17,259 and is planned be paid by the City as part of the streetlight bill
- There is no proposed financial impact to the Melrose Park Neighborhood Association for this project, all costs are currently planned to be paid by the City. The agreement will require Commission approval.

TOTAL			\$	-	\$	17,258.92
LED Lighting Plan City of Fort Lauderdale - Melrose Park						
Going Green <i>This plan reduces power consumption by: and that eliminates: or removing:</i> kWh / year metric tons of CO ₂ every year ¹ cars from the road ²						
Installation Details						
		Existing		Option 1		
1	select fixture:			RSW 41 Watt 4000K		
	fixture / pole:	1		1		
	select pole:			Standard Concrete		
	Quantity:	723	Fixture*	\$	3,249.89	
	FPL Conversion:	No	Pole	\$	5,176.68	
	Full/Hybrid:	Full	Maintenance	\$	932.67	
			Energy**	\$	577.50	
			Monthly Total	\$	9,936.74	
SUB TOTAL				\$	-	\$ 9,936.74
Installation Details						
		Existing		Proposed		
Wire	select wire:	SL-1 UCNP		SL-1 UCNP		
	Footage					
	select wire:	SL-1 UCUP		SL-1 UCUP		
	Footage					
	select wire:			LT-1 UC		
	Footage			180750		
	Total		\$	-	\$	7,322.18
TOTAL				\$	-	\$ 17,258.92

NEW STREETLIGHTS MELROSE PARK



Design Elements

- Concrete Poles 22'-6" above ground (30' overall)
- 8' aluminum arm
- CREE RSW 41W LED light 5000 lumens, 4000K
- Concrete poles will provide attractive appearance and longevity, low maintenance versus wood poles

NEW STREETLIGHTS MELROSE PARK



Design Elements

- CREE RSW 41W LED light 5000 lumens, 4000K
- LED lights are very energy efficient, reduce glare and provide optimized target illumination versus high pressure sodium lights

APPLICATIONS



Residential Street Lighting

As you leave or approach your driveway, the RSW Series, with WaveMax® Technology, reduces glare while delivering optimized target illumination. Residents no longer have to live with street lights shining into their living rooms and bedrooms at night.



eliminating over 63,800 miles driven by an average vehicle

saving 60+ barrels of oil

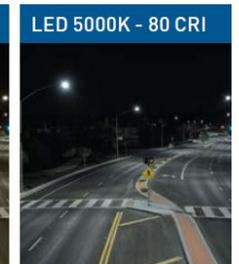
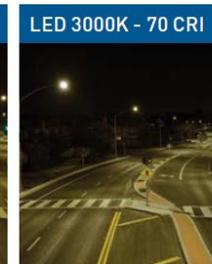
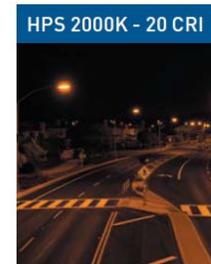
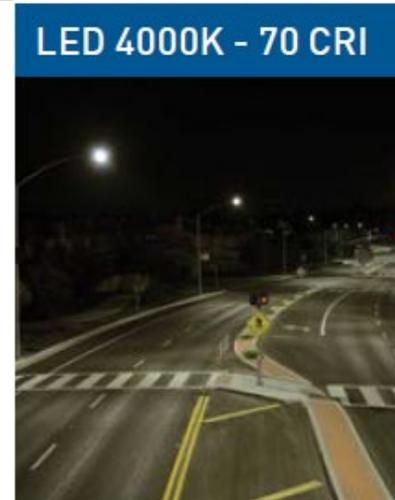
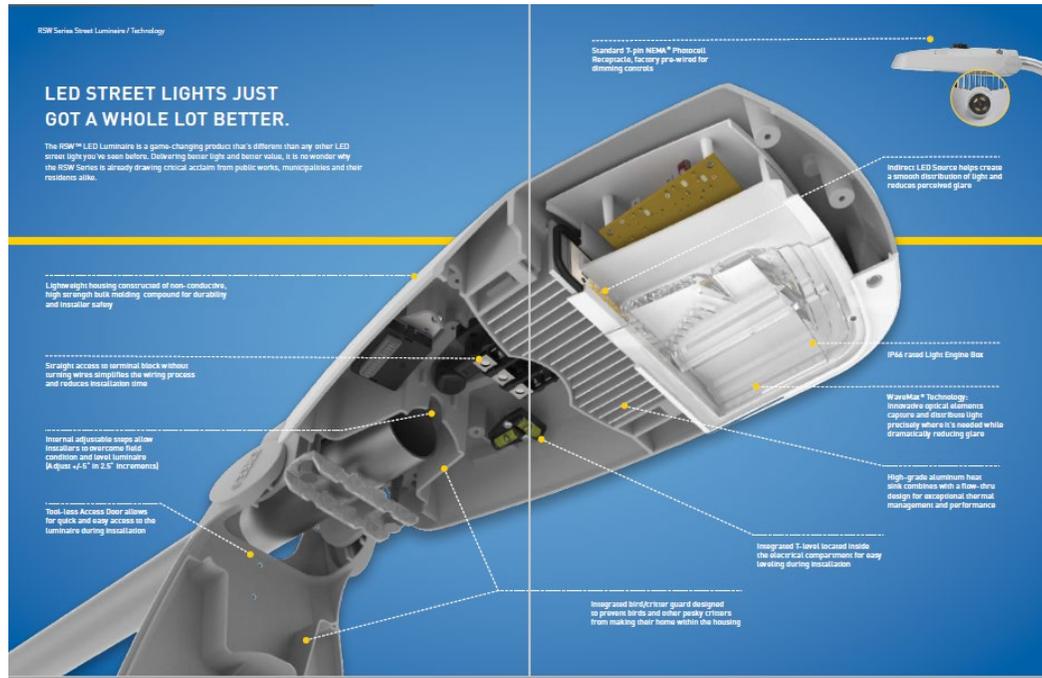
carbon sequestered by 675 seedlings grown for 10 years

NEW STREETLIGHTS MELROSE PARK



Design Elements

- CREE RSW 41W LED light 5000 lumens, 4000K
- RSW light is best suited for residential streets, cost effective, has high color rendition 70 CRI
- Higher CRI improves visibility, drivers can see nearby vehicles, surrounding areas and traffic signs better to avoid unsafe surroundings



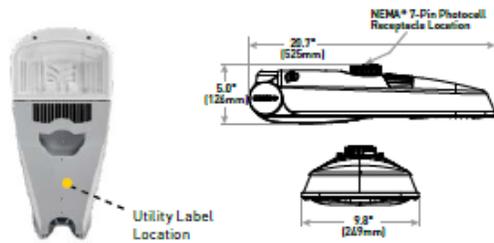
NEW STREETLIGHTS MELROSE PARK



Design Elements

- **CREE RSW 41W LED light 5000 lumens, 4000K**
 - **5000 lumens lights will allow for more even light distribution and fewer poles**

RSW SMALL 70-150W HPS REPLACEMENT



PERFORMANCE SUMMARY

Initial Delivered Lumens: Up to 7,000 lumens

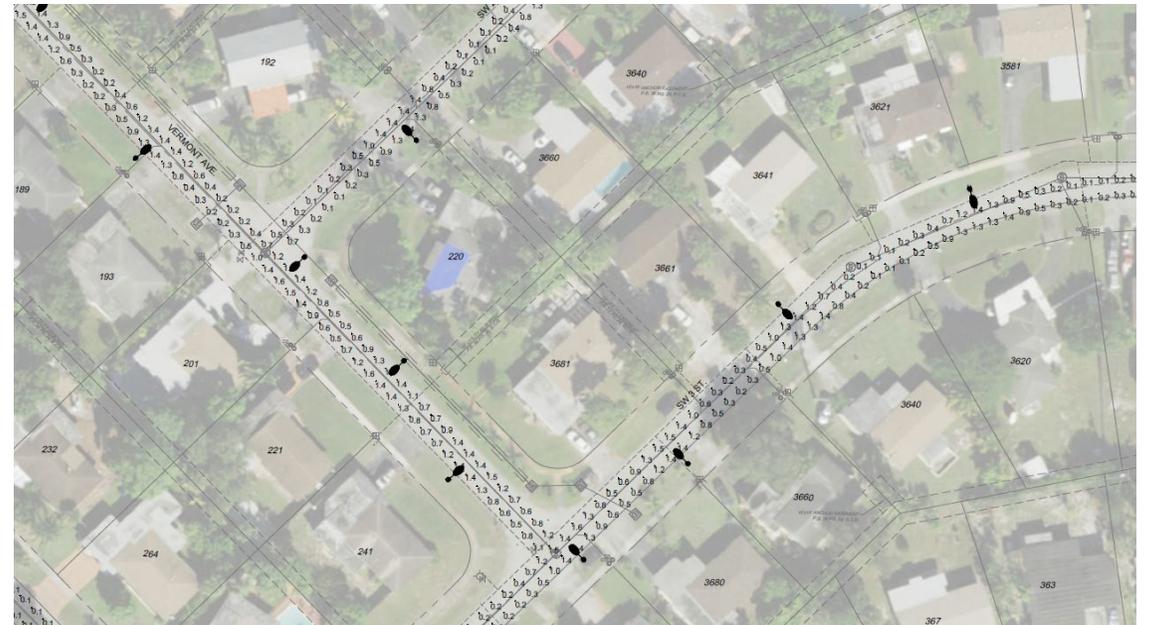
Input Power: Up to 51 watts

Color Rendering Index (CRI): 70 or 80 (3L/5L)

CCT: 2700K (3L/5L), 3000K, 4000K, 5000K

Dimensions: L: 20.7" [525mm] / W: 9.8" [249mm] / H: 5.0" [126mm]

Weight: 9.4 lbs. [4.3kg]



NEW STREETLIGHTS MELROSE PARK

Open Discussion, Questions



RSW SERIES
LED STREET LUMINAIRE

Redefining Familiar Light:
The Next Chapter in LED Street Lights.

CREE ⚡ **LIGHTING**

The image shows a CREE RSW Series LED street luminaire, a modern, sleek, white fixture with a curved, horizontal design. It is shown against a solid blue background. The luminaire has a silver-colored mounting arm and a clear lens. The CREE logo is visible on the side of the fixture. Below the luminaire, the text "RSW SERIES" and "LED STREET LUMINAIRE" is displayed in white and yellow. Further down, the tagline "Redefining Familiar Light: The Next Chapter in LED Street Lights." is written in white. At the bottom right, the CREE Lighting logo is shown in white.

Melrose Park Proposed Streetlighting Project

* Conceptual Project Costs Developed / Neighbor Support – October 2015

- * **97,100 linear feet of roadway / spacing of approximately 70 feet per light**
- * **1,387 streetlights required / approximately \$7,800 cost per light installed**
- * **Approximately \$11 million project using solar lighting**

* Interest Survey Mailed to Community / Neighbor Support – September 15, 2016

- * **1961 total mailings**
- * **454 responses received / 23% response rate**
- * **367 YES / 81% in favor of those that responded**
- * **83 NO / 18% not in favor of those that responded**
- * **4 Unmarked / No indication of preference**

* Next Steps – November 18, 2016

- * **Transferred to Public Works Project Management Team**
- * **Public Works, along with Neighbor Support, working to solidify recommendations and refine costs**
- * **Lighting Consultant Required / Need to Identify Funding for Task Order**

