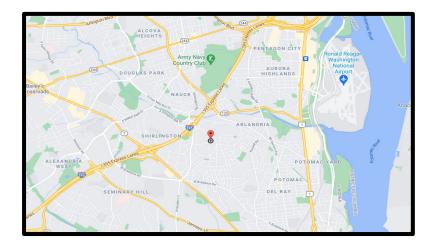
SITE SURVEY & LIGHTING ASSESSMENT



Parkfairfax Condominium - Alexandria, VA



3360 Gunston Road Alexandria, VA 22302

Inspection Date: 05.11.2021 Report Date: 07.09.2021



1111 Highway 25 North, Suite 201 . Buffalo, MN 55313 . Phone # 763-684-1548 . www.onsitelighting.com

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SUMMARY

During our visit to Parkfairfax on May 11th, 2021, we confirmed that the parking lots and surrounding walkways have very low light levels. Besides just switching out your existing fixtures into more powerful and resourceful LED fixtures, there are a few different options that we can explore.

Option 1) Add more floods to the existing buildings to provide more light to wherever you want your needs may be.

Option 2) Add more of the decorative post top fixtures that would be similar to the existing ones that are by the pools.

Option 3) Add some decorative bollards throughout to light up those dark walkways. There are also solar bollards that could be an option we could explore if that's something that interests you.

*All of these options would be dependent on how accessible power will be. Labor costs for projects like this would be hard to estimate. So once we really figure out what type of project you want to pursue, then a scope of work and more accurate labor numbers can be gathered.

Pages 2-7 are specification sheets and photos on what we recommend to replace the existing fixtures and the three options to add more fixtures.

Pages 8 will show the site map and pages 9-21 will show the footcandle levels found when we were on site. The table below is the IES Recommendations for lighting levels. Lighting zone 1 is the recommended light levels for the residential use of these areas. Comparing these recommended numbers to what we were reading, you can see that your existing light levels are much lower.

	Footcandles (Horizontal) (FC)		Footcandles	Range of Maintained Footcandles (Vertical) (FC)
Parking (Open) (Medium Activity)				
Lighting Zone 3 (Urban)	1.5	.75 - 3	0.8	.4 - 1.6
Lighting Zone 2 (Suburban)	1	.5 - 2	0.6	.3 - 1.2
**Lighting Zone 1 (Residential)	0.5	.25 - 1	0.4	.28

Shown below, is the specification sheet for the Sylvania UltraLED Mini Wallpack. This would be for the 50 existing wallpacks like the one shown in the photo to the right. We recommend the 15watt wallpack that is priced at around \$55 per fixture.



SYLVANIA Luminaires

UltraLED[™] Mini Wallpack

Application

The UltraLED Mini Wallpack luminaires are environmentally preferable LED alternatives to traditional HID luminaires, offering up to 70% in energy savings. Ideal in place of traditional luminaires, or as new installations, the Mini wall pack series is offered in several wattages/lumen packages for illuminating building exteriors, outdoor corridors, walkways, and stairwells.

Benefits and Features

- CCT Selectable (3000K, 4000K, or 5000K) enabled through switch located inside fixture
- IP65 rated body with aluminum backplate and polycarbonate lens offers easy mounting, reducing installation and maintenance costs
- High color rendering and DLC Premium listing ensure energy efficiency and provide uniform and even lighting
- Photosensor included provides additional energy savings - Up to 130 LPW
- Selectable CCT of 3000, 4000, or 5000K
- CRI >80
- Offered in 15 and 30 watts
- Non-cutoff distribution
- Energy savings up to 70%

Electrical

- 120-277Vac
- Power Factor > 90%
- THD < 20%
- 0-10V dimmable

Rated Life

- 150,000 hours (L70)
- Warranty

- 5-year

Ambient Operating Range

-40°F to +104°F (-40°C to +40°C)



LEDLUM093R1 5-21





- DLC Premium

- IP65

Wattage Comparison

Traditional Source	Traditional System Wattage	LED System Wattage	Energy Savings
23W CFL	23	15	35%
35W HPS	45	15	67%
42W CFL	46	15	67%
100W Incandescent	100	30	68%
150W Incandescent	150	30	70%

Certifications and Listings

cULus

Item # Туре

Project Notes Date

- RoHS

- FCC

Installation

- Luminaire mounts to recessed outlet box or can be surface mounted



Shown below, is the specification sheet for the Sylvania ValueLED Slim Floodlight. This would be for the 309 existing flood fixtures like the one shown in the photo to the right. We recommend the 50-watt flood that is priced at around \$125 per fixture.



www.sylvania.com/luminaires

SYLVANIA Luminaires

ValueLED[™] Slim Floodlight

Application

The Slim Floodlight luminaires are lightweight, compact and designed for landscape, flood and signage applications.

Benefits and Features

- Compact profile for discrete exterior illumination
- IP65 rated with wide flood distribution
- Adjustable 1/2" NPS knuckle arm
- Meets DLC Premium requirements to maximize rebate opportunities
- Up to 117 LPW
- 4000K and 5000K color temperature
- CRI > 80
- Offered in 30 and 50 watts
- Energy savings up to 80%

Electrical

- 120-277VAC
- Power Factor >90%
- THD < 20%

Rated Life

- 150,000 hours (L70)

Warranty

- 5-year

Ambient Operating Range

-40°F to +104°F (-40°C to +40°C)

Certifications and Listings

- cULus
- RoHS
- FCC
- DLC Premium



Wattage Comparison

Traditional	Traditional System	LED System	Energy
Source	Wattage	Wattage	Savings
150W Inc	150	30	80%
50W HPS	62	30	52%
70W HPS	91	30	67%
100W HPS	120	30	67%
100W MH	130	30	69%
300W Inc	300	50	83%
150W HPS	170	50	71%
150W MH	188	50	73%
175W MH	210	50	76%

Installation

Item # Type

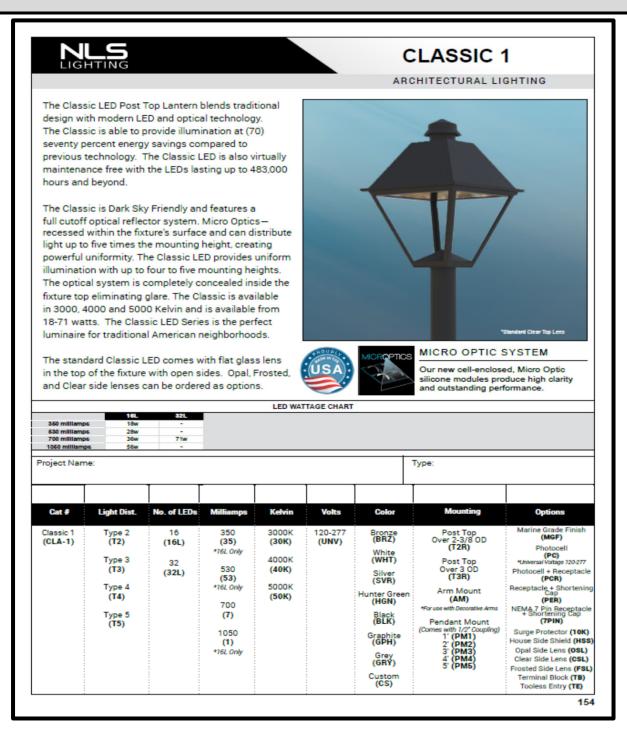
Project Notes Date

 ValueLED Slim Floodlight luminaires can be knuckle mounted with included 1/2" NPS for mounting to junction box (please see Ordering Information).





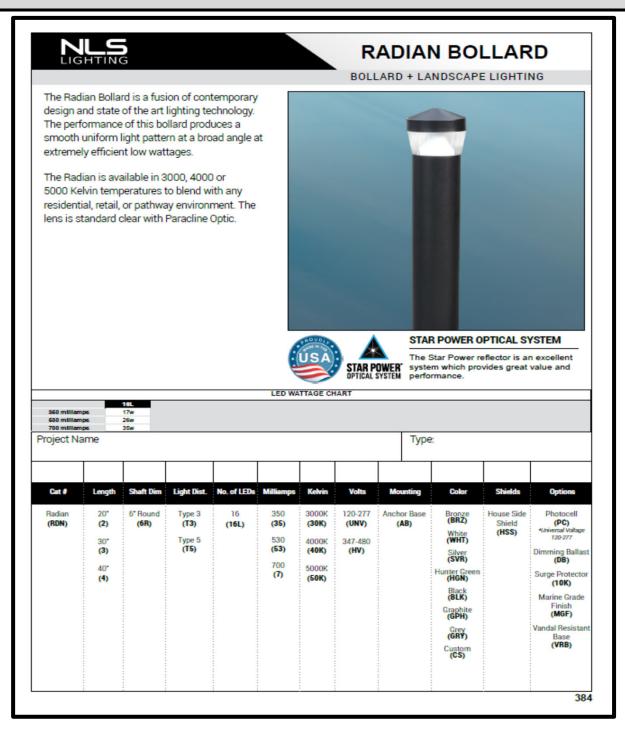
This is the NLS Classic 1 fixture that we recommend as an option to getting better light levels throughout the walkways on the property. We would need to get confirmation that power would be able to be provided before we start specifying locations for them. These are priced at \$745 per fixture, along with about \$600 per pole. The next page is a glimpse at what it would possibly look like with these installed in the walkways between buildings.



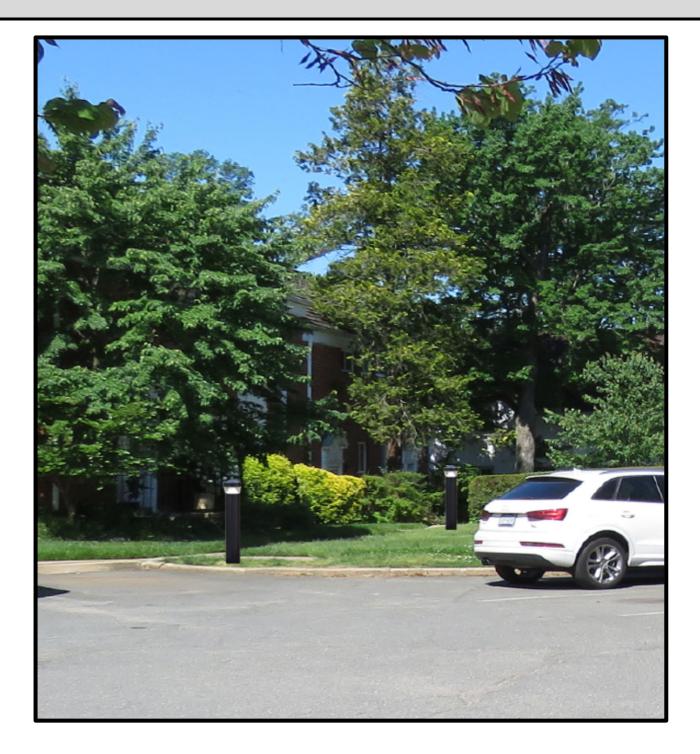
The photo below is a similar look at what the Classic 1 fixture would look like installed in the walkways from the parking lots to between the buildings.



This is the NLS Radian Bollard that we recommend as an option to getting better light levels throughout the walkways on the property. We would need to get confirmation that power would be able to be provided before we start specifying locations for them. These are priced at approximately \$635 per bollard. The next page is a glimpse at what it would possibly look like with these installed in the walkways between buildings. Another route that could be specified would be a solar bollard. If this is something that would interest you, options can be looked into.



The photo below is a look at what the Radian bollard would look like installed in the walkways from the parking lots to between the buildings.





Site Map: Parkfairfax- Alexandria, VA



