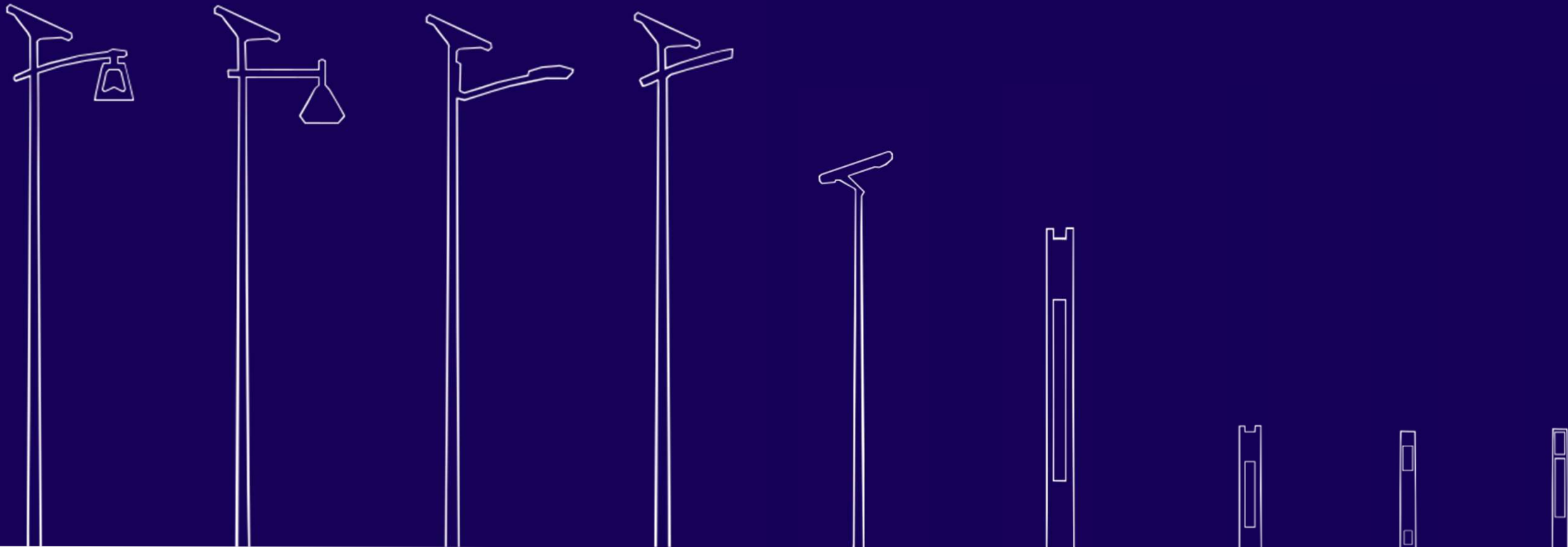


# Mission TX- Catholic War Veterans Park





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01 - Lighting Your Project

02 - Technical Specifications

03 - Projects



# LIGHTING YOUR PROJECT

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01

# ESSENTIAL

## Timeless Aesthetic – **Smartlight** Range

**ESSENTIAL luminaries** are designed to provide functional, uniform, and sustainable lighting for outdoor spaces. Its sleek design prioritizes photometric performance, reliability, and simplicity. Ideal for projects with functional requirements such as roads, parking lots, etc. The luminaire resembles the shape of a solar panel, allowing it to blend easily into your project's environment.

**ESSENTIAL is power and reliability.**



# Catholic War Veterans Park



2224 SE Loop 820, Building C  
 Fort Worth, TX 76140  
 Phone Number: (339) 225 4530  
 www.fonrochesolarlighting.com

Lighting Plan Rev C  
 Project Number: G7537

By: Cuong Vu  
 cuong.vu@fonroche.us  
 Date: 2/24/2026



Luminaire Schedule								
Symbol	Qty	Label	Arrangement	LLF	Luminaire Lumens	Luminaire Watts	Mounting Height	Arm
	17	T3-CK16B-4K-27W	Single	0.900	5049	27	22	4.577
	1	T4-CK16B-4K-37W	Single	0.900	6660	37	22	4.577

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Pathway	Illuminance	Fc	0.69	2.1	0.1	6.90	21.00
Playground	Illuminance	Fc	0.91	2.2	0.2	4.55	11.00

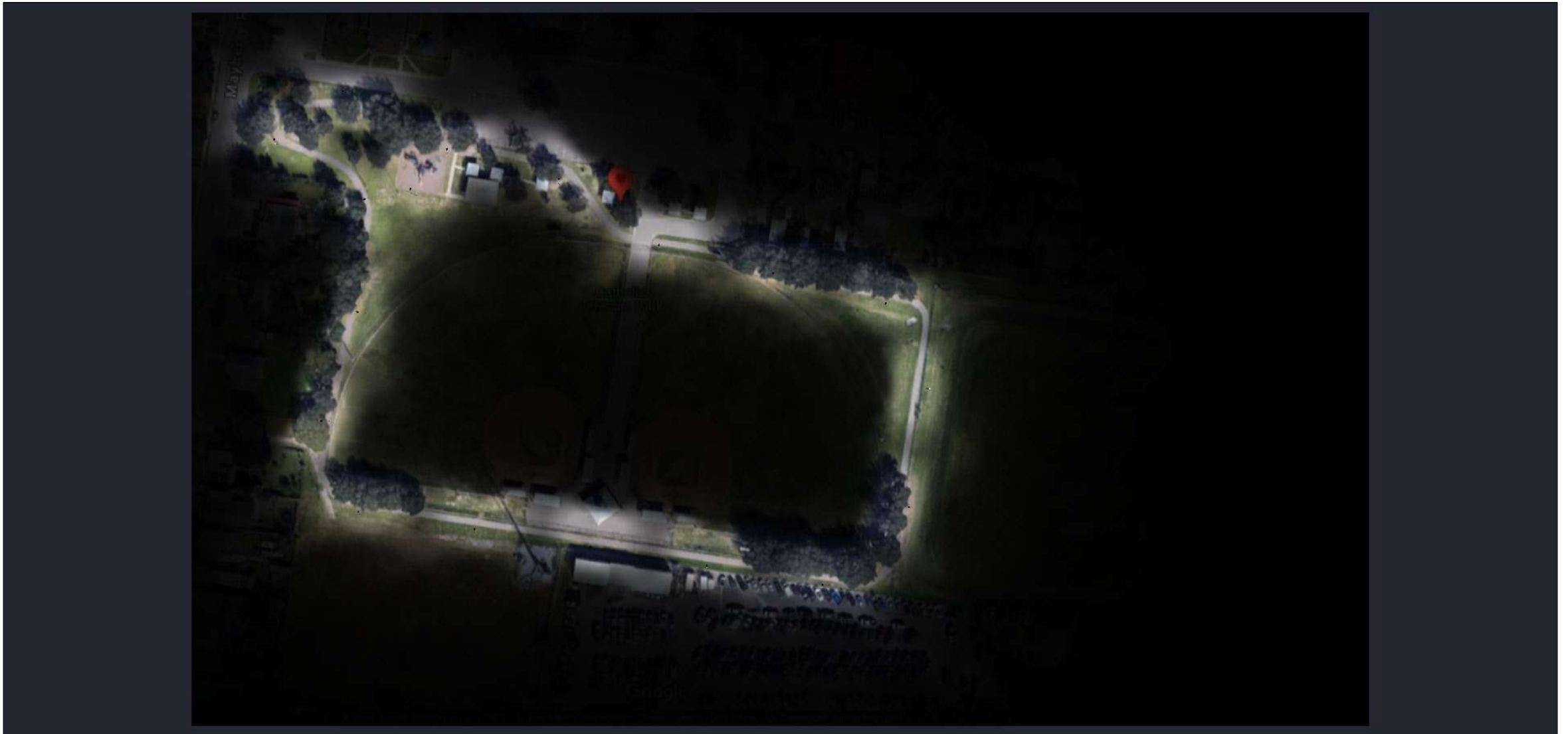
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# Catholic War Veterans Park



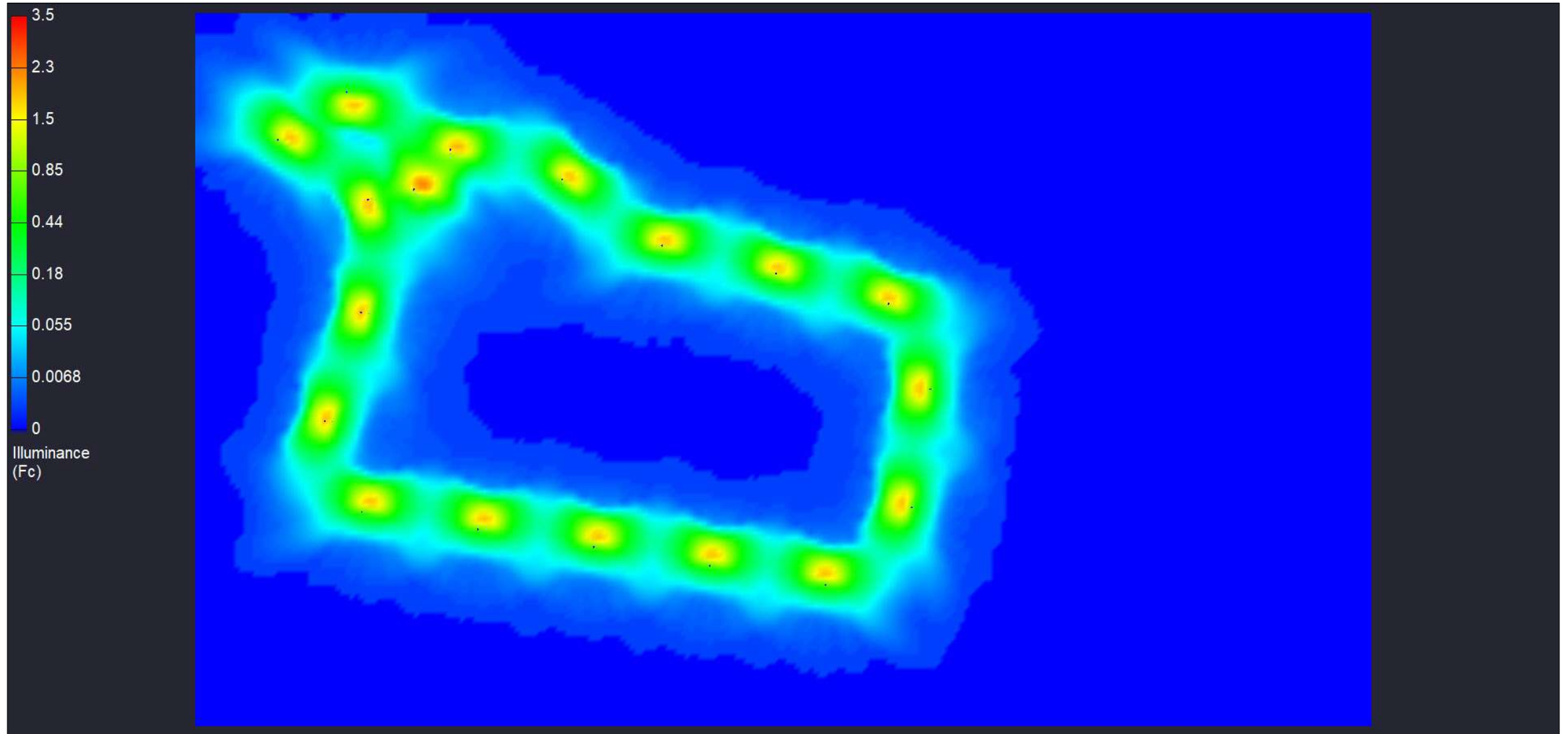
**FONROCHE**  
lighting AMERICA

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# TECHNICAL SPECIFICATIONS

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02

# Study Process

## For Lighting 365 Nights Per Year



### [1] Site Meteorological Data ANALYSIS

For your lighting project we have taken into account:  
The conditions of use (orientation, panel tilt)  
External parameters (shading, temperature, solar calendar)



### [3] SIZING to create a tailor-made project

The key criteria to optimize your project:

- Average state of charge of the battery in the year
- Minimum state of charge
- Comparison of energy created / energy consumed
- Worst case scenario (longest night; lowest solar radiation)



### [2] SIMULATION of products over a typical year

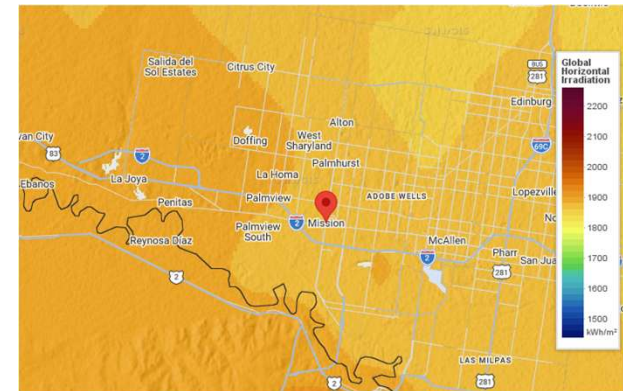
Our solar sizing software has made it possible to validate the lighting equipment for your needs.  
The operation is simulated over a typical year, average of the last 10 years.



### [4] RESULTS

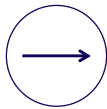
The solution we offer is the most optimized to fully fulfill lighting needs.

GPS Coordinates : 26.2159° N, 98.3253° W



# Fonroche Connect

## Remote management of your solar streetlights



Developed by our teams, Fonroche Connect is an intuitive remote communication tool that allows you to monitor and control your solar lighting network remotely. Thanks to advanced technology, you can geolocate your streetlights, access real-time diagnostics, and optimize their performance.

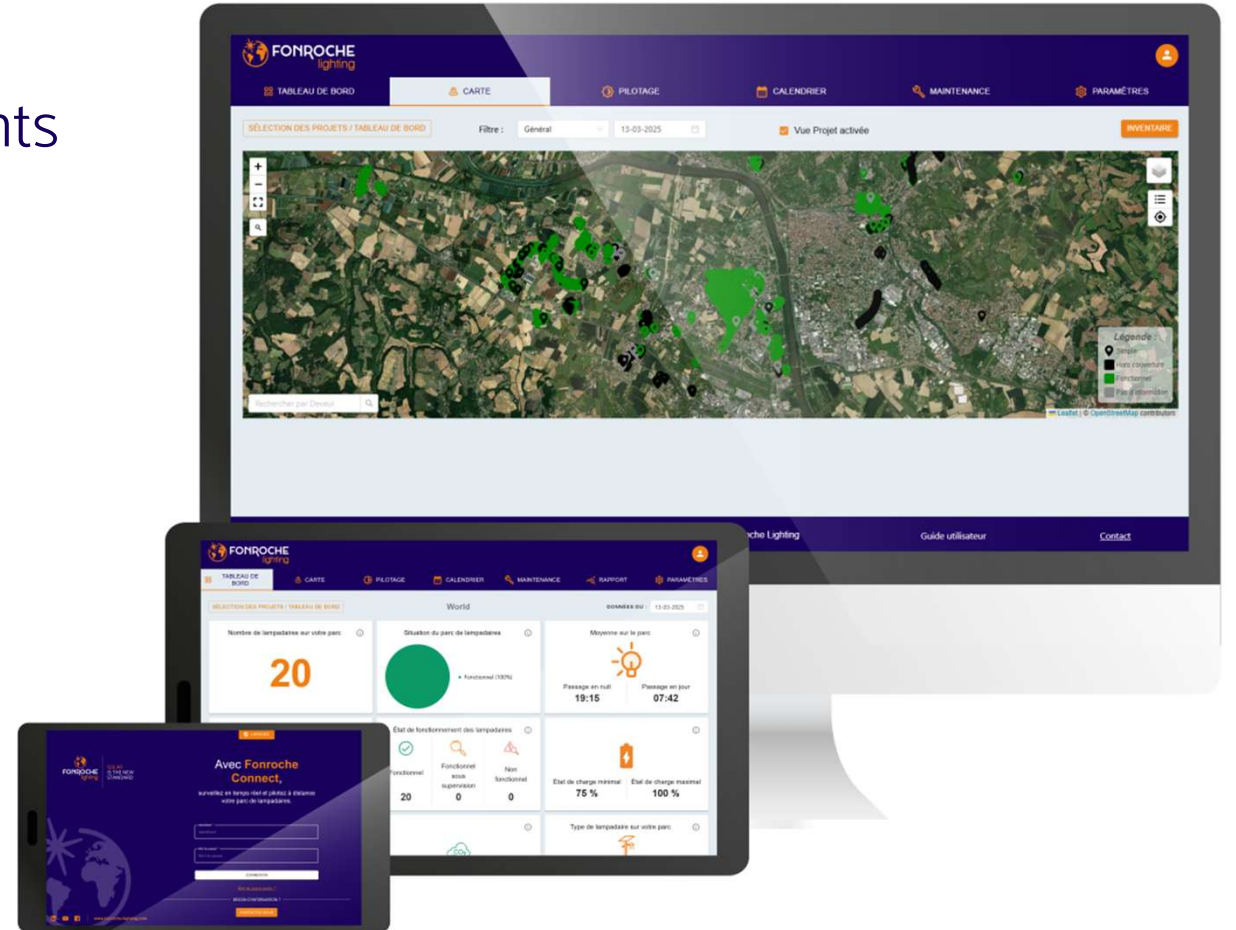
A gateway will be installed on one of the lampposts to collect and transmit data to the server.

Subject to the deployment of LoRa low-speed wireless radio communication and the availability of a 3G/4G network.





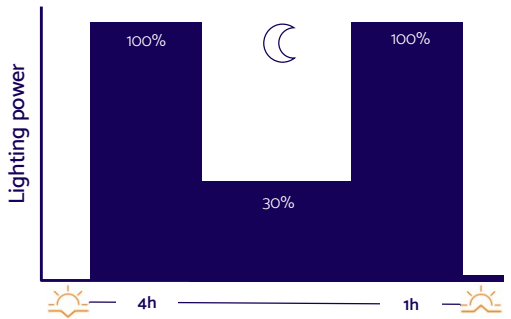
### Gateway Configuration:







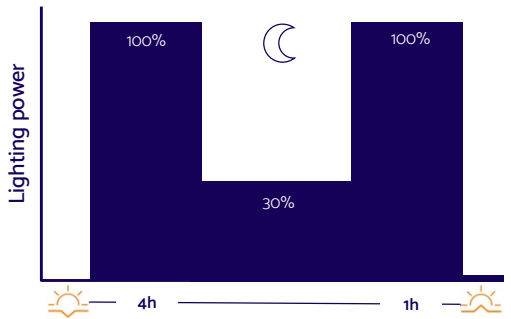
PV :	≥ 190 Wp
BATTERY :	≥ 936 Wh



# SMARTLIGHT Single – Quantity : 17 for pathway

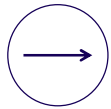
 <p><b>PHOTOVOLTAIC MODULE</b></p> <p><b>Power</b>   190 Wp</p> <p><b>Tilt</b>   10°</p>	 <p><b>BATTERY</b></p> <p><b>Capacity</b>   624 Wh</p> <p><b>Nominal voltage</b>   24 V</p>	 <p><b>LUMINAIRE</b></p> <p><b>LED Module</b>   T3 - 187 lm/W</p> <p><b>Color temp</b>   4000 K</p>
 <p><b>STRUCTURE</b></p> <p><b>Mounting height</b>   22'</p> <p><b>Arm length</b>   4'</p> <p><b>Base type</b>   Direct Burial</p>	<p><b>LIGHTING PROFILE</b></p>  <p>The lighting profile shows a 4-hour period of 100% power (daytime), followed by a 1-hour period of 30% power (dusk/dawn), and another 4-hour period of 100% power (nighttime). A moon icon is present above the 30% power section.</p>	

# SMARTLIGHT Single – Quantity : 1 for playground

 <p><b>PHOTOVOLTAIC MODULE</b></p> <p><b>Power</b>   190 Wp</p> <p><b>Tilt</b>   10°</p>	 <p><b>BATTERY</b></p> <p><b>Capacity</b>   936 Wh</p> <p><b>Nominal voltage</b>   24 V</p>	 <p><b>LUMINAIRE</b></p> <p><b>LED Module</b>   T4 - 180 lm/W</p> <p><b>Color temp</b>   4000 K</p>
 <p><b>STRUCTURE</b></p> <p><b>Mounting height</b>   22'</p> <p><b>Arm length</b>   4'</p> <p><b>Base type</b>   Direct Burial</p>	<p><b>LIGHTING PROFILE</b></p>  <p>The chart shows lighting power levels over a 24-hour cycle. During daylight hours (4h), the power is at 100%. During nighttime hours (1h), the power is at 30%. A moon icon is shown above the nighttime bar.</p>	

# INSTALLATION SERVICES

Customer support is an integral part of every Fonroche Lighting America project and does not end once an order is placed. As the World's largest infrastructure grade solar lighting manufacturer, we have the expertise and resources to deliver turn-key installation to our customers.



## **Turnkey Project Delivery**

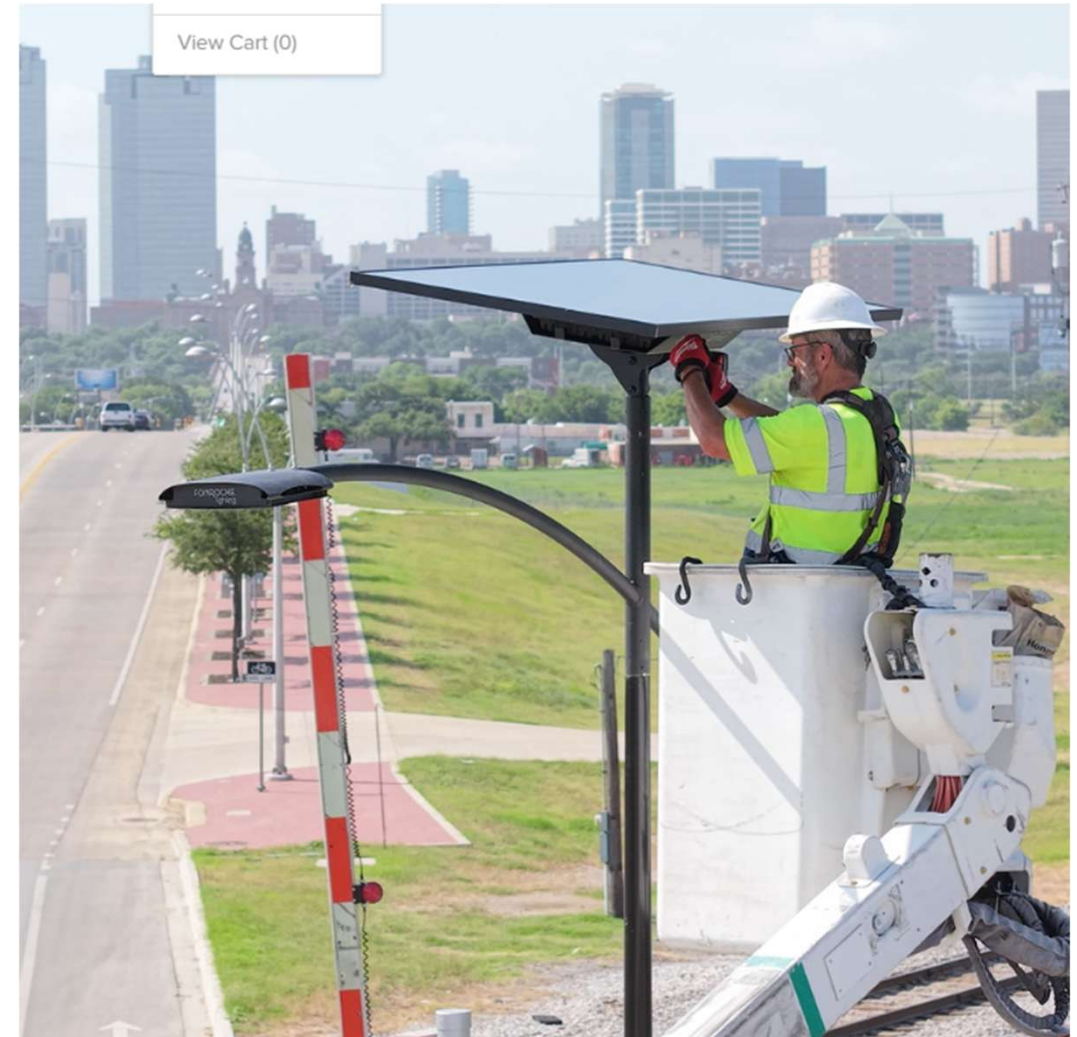
One stop shop to make your projects easy, smooth, and fast

## **Government Direct Purchasing and Installation Contracting**

Utilize one of our many purchasing coops to direct purchase without RFP

## **Single-Partner Accountability**

One manufacturer, one system, one point of support—before, during, and after installation.



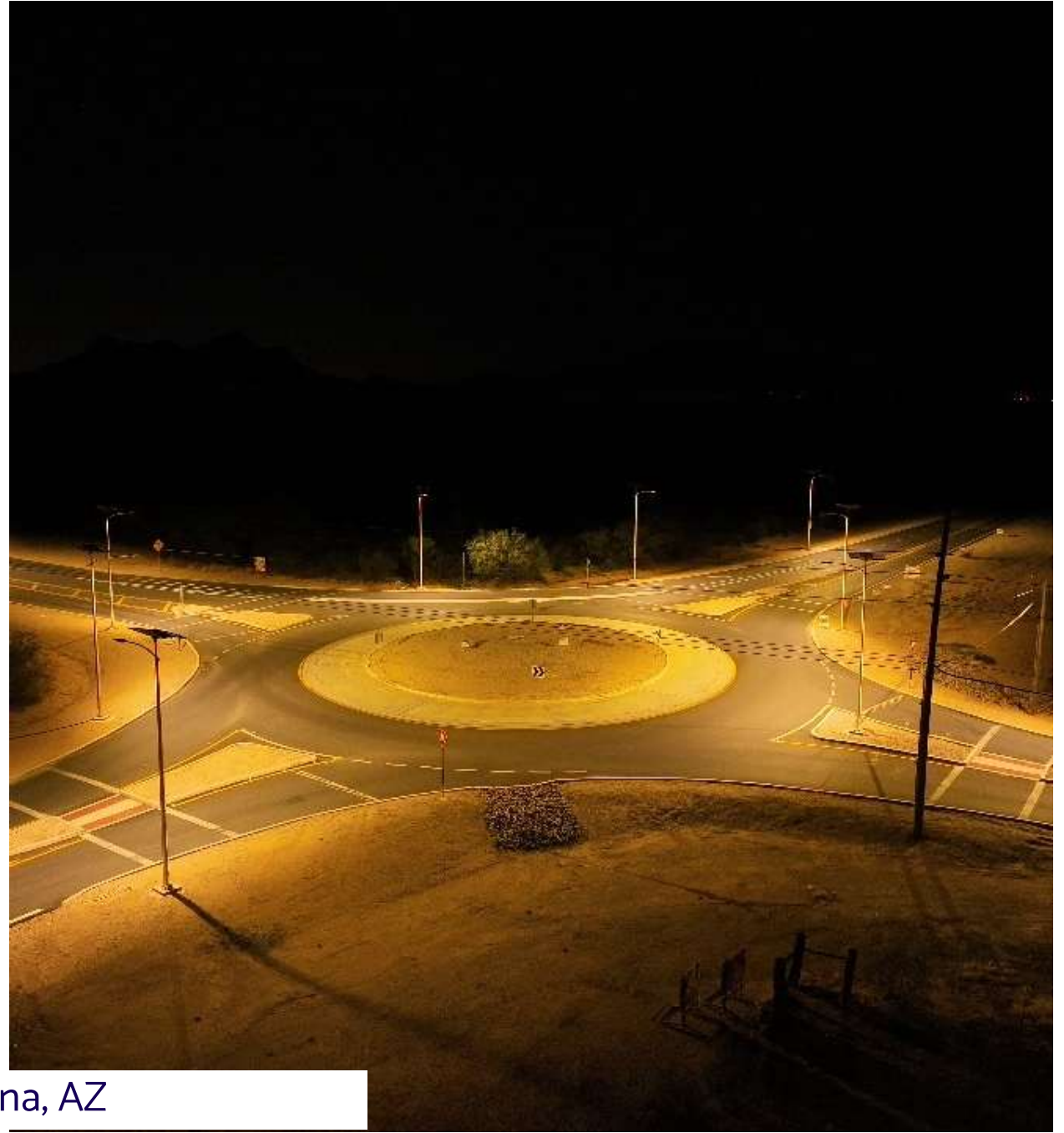
PROJECTS

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03

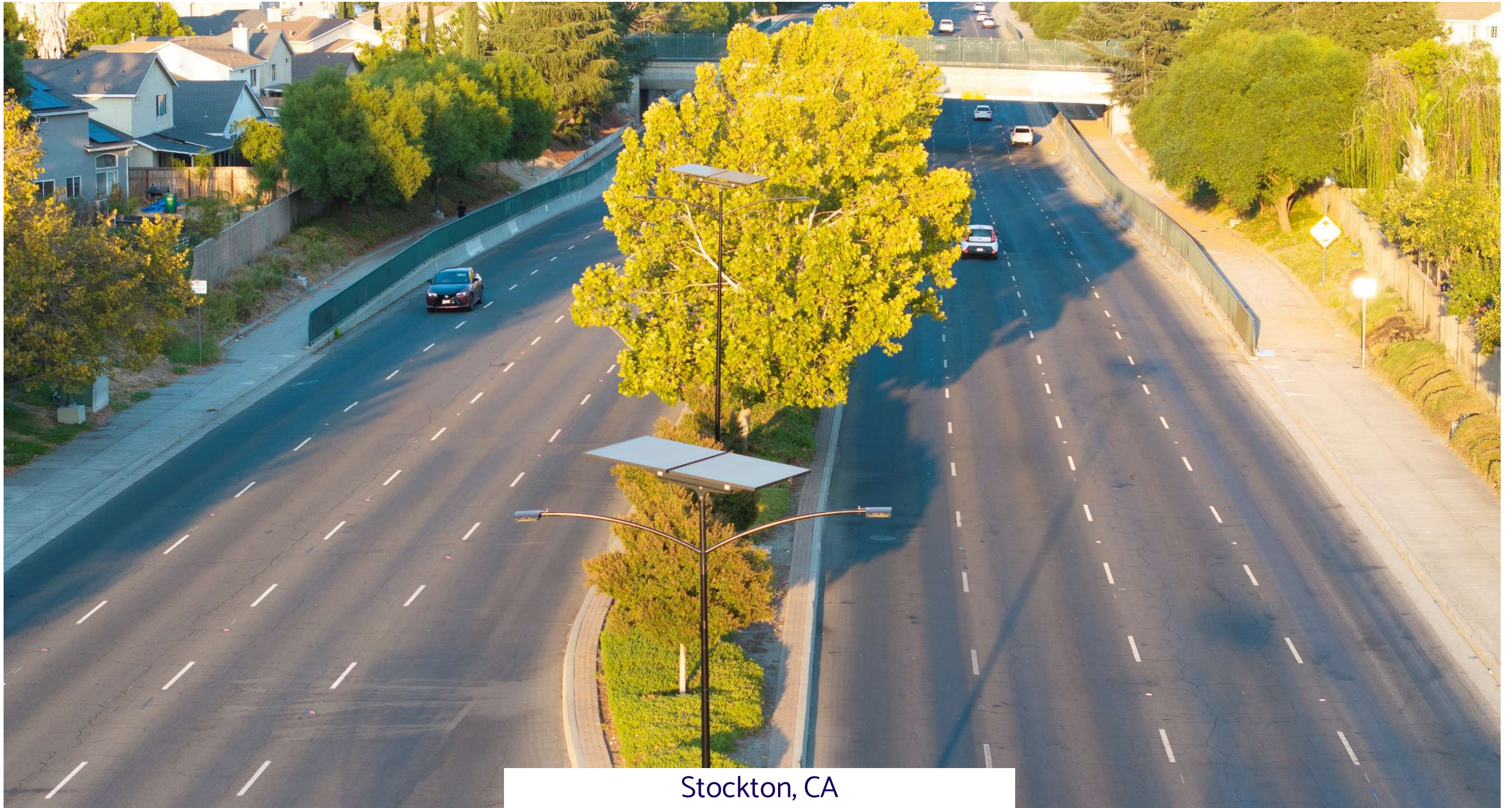


Marana, AZ

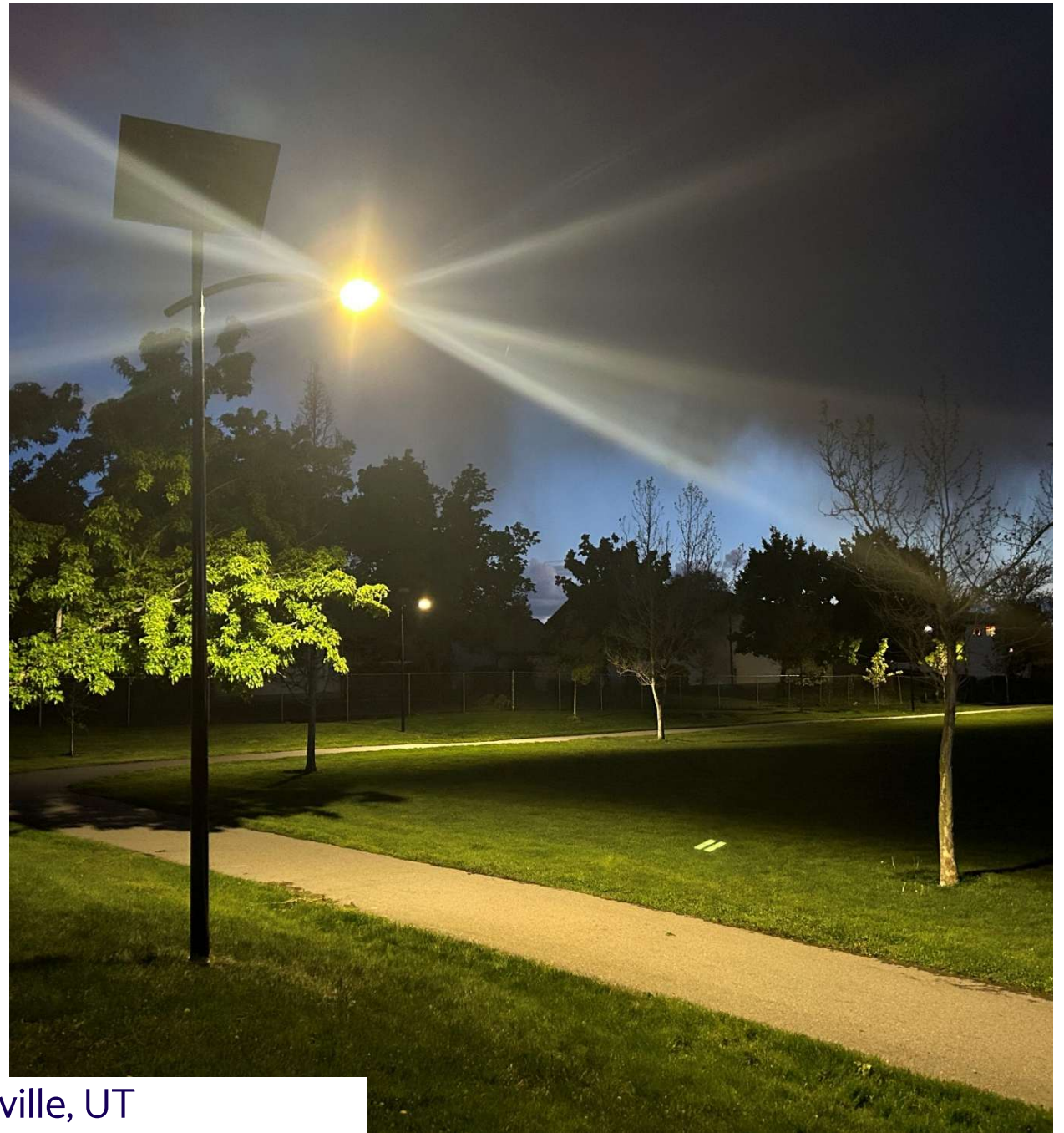
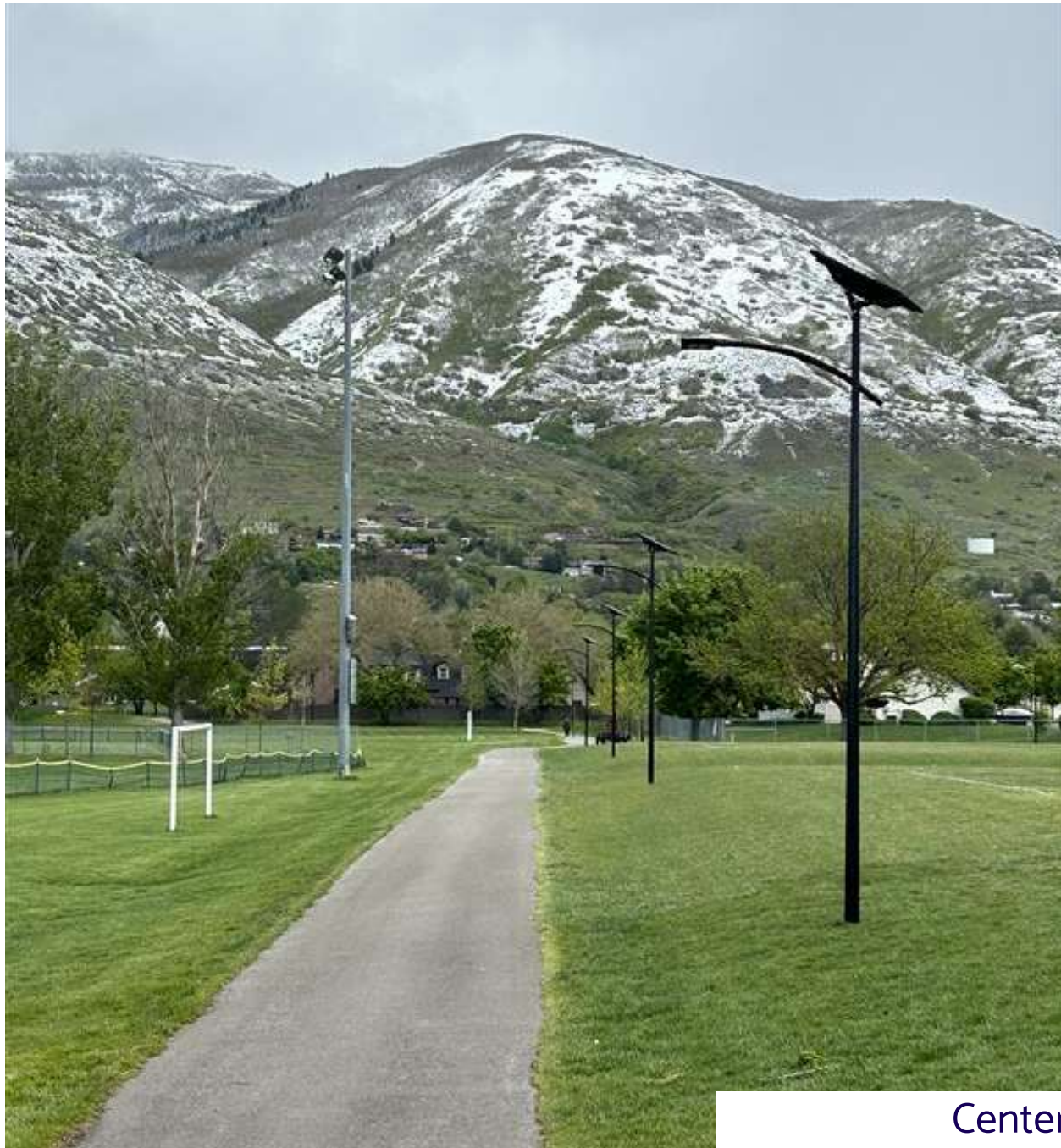




Rowlett, TX



Stockton, CA



Centerville, UT



SOLAR  
IS THE NEW  
STANDARD

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Sales Contact: Marcus Collier – [marcus.collier@fonroche.us](mailto:marcus.collier@fonroche.us)

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