

Proposed Solar Light Pilot Installation Summary

Purpose: A concise summary of the proposed pilot solar lighting installation to provide the Board with all core specifications, pricing, and performance details prior to voting. The primary purpose of this single-light pilot is to evaluate the light's appearance, illumination, and overall performance—particularly during the winter months—before the Board considers or approves any additional purchases.

1. Equipment Overview & Visuals

- **Fixture:** [Gama Sonic Grand Imperial Fixture](#)
- **Pole:** [10-foot Commercial Pole](#)



2. Key Product Specifications & Technical Details

- **Brightness:** 700 lumens, with adjustable color temperature (2700K warm white or 6000K).

- **Illumination:** Approximately 21 feet of coverage when mounted on a 10-foot pole.
- **Battery Performance:** Up to 5 nights on the high setting or 8 nights on the low setting with a full charge.
- **Solar Requirements:** Approximately 5 hours of direct sunlight daily for reliable performance. Shorter days, extended cloudy periods, or partial shade may reduce brightness and battery duration.
- **Winter Performance:** The fixture and pole are constructed from weather-resistant cast aluminum and designed to withstand harsh winter conditions, including those experienced in the Northeast.
- **Warranty:** Five-year warranty covering the fixture, pole, and battery.
- **Maintenance:** Expected battery life of approximately 4–5 years, with replacement batteries currently costing approximately \$100. The LEDs have an estimated lifespan of 12–15 years.

3. Cost Breakdown & Budget

Item Description	Cost (USD)
Gama Sonic Grand Imperial Fixture	\$799.99
10-Foot Commercial Pole	\$429.99
Shipping & Taxes	Free Shipping / \$0 Sales Tax
Total Equipment Cost	\$1,229.98
Installation (Chad's Quote)	\$250.00
Total Estimated Pilot Cost	\$1,479.98

Action Item / Confirmation Pending: Confirm whether Chad’s \$250.00 installation price includes the concrete footing and any related installation materials so the document reflects full final cost certainty.

4. Location & Installation Scope

- **Proposed Pilot Location:** At the bend in the road.

- **Installation Scope:** One-light pilot installation to evaluate performance and aesthetics before considering future expansion.
- **Future Expansion Guidelines:** Gama Sonic recommends spacing future lights approximately 30 feet apart and alternating sides of the road.

5. Alternative Option Status

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Vendor: SolarPath Sun Solutions
- **Status:** Engineering team completed an initial photometric analysis. A revised analysis was requested using poles no higher than 10 feet.
- **Pending Items:** Final fixture specifications, system configuration, and exact pricing are still pending.