

SOLAR PARKING LOT LIGHTING

Ten years of dependable light at Palm Springs United Methodist Church

LEADSUN
Limitless Light. Beyond the Grid.



Project Snapshot



Location

Palm Springs, CA



Application

Church parking lot lighting



Systems Installed

14 LeadSun solar lighting systems



Technology

AE3CR8030N integrated solar lighting

Project Implementation

Leadsun Solution

LeadSun delivered a decentralized solar lighting solution for Palm Springs United Methodist Church, whose main parking lot sat dark and unwelcoming next to a vacant lot, with low visibility for drivers and pedestrians at night. The Sonoran Desert demands hardware that survives extreme heat, intense UV, and dramatic temperature swings that degrade batteries and electronics over time. Fourteen AE3CR8030N systems were installed, each integrating an 80W solar panel, battery storage, controller, and 30W LED luminaire into a single pole-mounted unit. With no trenching or cabling required, installation finished in a single day with minimal disruption. Adaptive output runs at 30% from dusk, ramping to 100% on motion detection. More than ten years on, the same systems still operate flawlessly — proof of LeadSun durability in one of the world's harshest climates.

Project Impact

- ✓ Over a decade of operation with no repairs or upgrades
- ✓ Withstood extreme desert heat exceeding 110°F
- ✓ Improved nighttime safety and visibility for the congregation
- ✓ Created a welcoming space for evening worship and gatherings
- ✓ Installed in a single day without trenching or cabling

System Performance

Decade-Proven Durability: More than ten years of continuous operation in extreme desert conditions, with no repairs or upgrades required to date.

Thermal & UV Resilience: Engineered to withstand 110°F-plus heat, intense UV, and sharp day-night temperature swings that prematurely fail lesser solar hardware.

Targeted Optical Design: T3 distribution at 4000K places light precisely across the lot, with adaptive 30%-to-100% output maximizing battery life nightly.