



Case Studies



Casa Grande Mall

Shopping Center LED Conversion

Verified illumination



Brighten the Sales

- This shopping center parking lot located in Casa Grande, AZ, reached out to PLG in hopes of finding a LED solution to replace their existing 1000W MH and HPS parking lot lights. The owner's budget did not have enough room for an entire new head, so the approach for this project was to use a LED retrofit kit. Several other LED retrofits were tested at the location, but all of them under performed when it came to illumination. That's when PLG was contacted to find a solution.

The PLG Photometric Approach

- **Before Light Readings** – PLG visited the site at night and took light level and color readings at specific locations.
- **Photometric Design and Site Layout** – Using this information, PLG designed a LED light fixture that provided the most savings and least initial investment possible, while still increasing existing light levels and color quality.
- **Demo Install and Post Install Light Readings** – PLG stands behind the process. We back this up by installing Demo fixtures, and taking post installation light readings.



“I could tell that the lighting improved after the retrofit.”

- Chris Hinkson, Owner

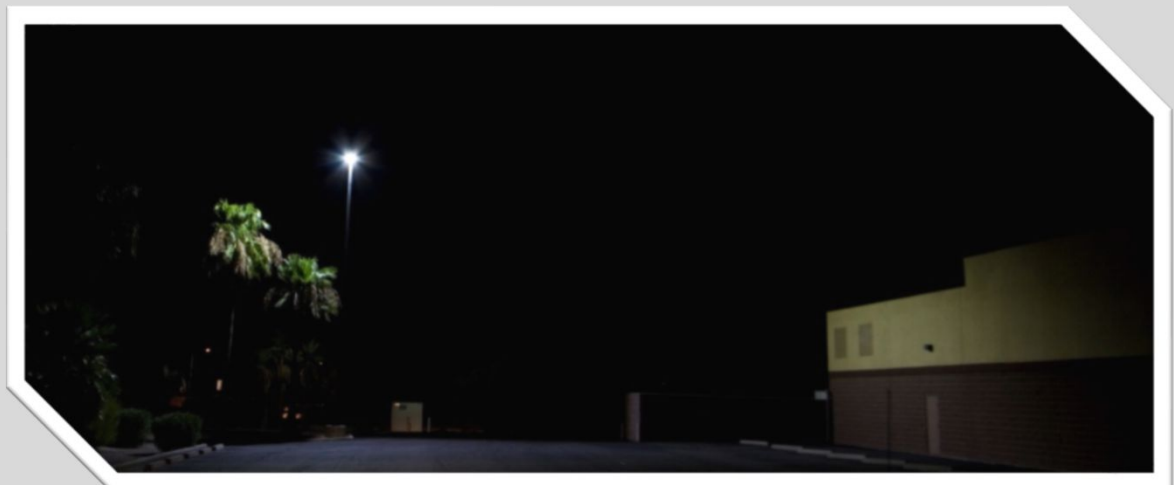
Before and After

Measurement Point	Existing Light Levels (fc)	PLG LED Levels (fc)
1	4.4	6.1
2	2.1	2.4
3	2.1	1.4
4	3.0	3.6
5	2.9	2.7
6	0.6	0.7
7	3.6	5.6
8	0.6	1.4
9	1.6	1.0
10	2.0	1.1
Average	2.3	2.6



**Before:
1000W HPS**

**After:
220W LED**





PLGLED.com

By The Numbers:

Energy Reduced: 80%

Illumination Increased: 13%

Lamp Life: 100,000 Hrs

Warranty: 5 year