

street lighting case study Copper Ridge HOA



Snapshot

Energy Savings
42%

Lamp Power

Reduced from 100W to 90W
Dimmed to 55W, 50% of time

Annual kWh Saved

251,160 kWh

Annual CO₂ Saved

180 metric tons

ROI

4.33 years

Total Annual Saving

\$2,592

Background

As part of the largest lighting manufacturer in North America, Lightolier's Energy Services Group had joined with Republic Energy Services Group, a division of Republic Electric, to provide a breadth of products creating innovative and efficient solutions for any lighting application.

Copper Ridge is a smaller gated community in the Green Valley area of Henderson, Nevada which was approach by the partnership of Philips Lightolier and Republic Energy with an energy efficient street lighting solution which included Metrolight' SmartHID™ ballasts.

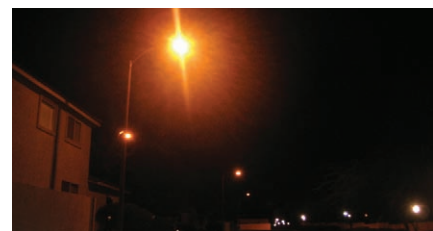
Original Situation

Copper Ridge Community Association site included a replacement of 34 single 100W HPS cobra head streetlight fixtures.

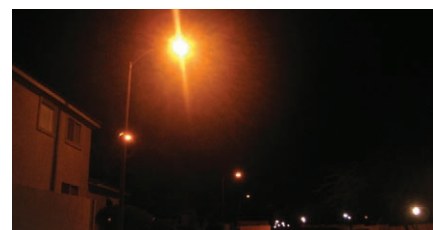
The Result

Retrofit of existing fixtures by replacing the lamps with 90 Watt Philips Cosmopolis MH Lamps and Metrolight' Street SmartHID™ 90W MH ballasts. The ballasts were pre-programmed to activate a dimming profile of 55W for five hours during the burn cycle.

Features	Before Installation	After Installation	Savings
Fixture Power Consumption W	135	97/59	38/76
Operating Hours/Days	4,368	2,184/2,184	-
Annual Lighting-Related Energy Cost	\$2,835	\$1,063	\$1,772
Total Annual Savings	\$3,865	\$1,273	\$2,592



100W HPS Before Installation



100W HPS Before Installation

ISRAEL OFFICE (Corporate Head Office)

Metrolight Ltd.,
9 Haomanut St.,
P.O. Box 8194, Netanya, 42160
T +(972) 9.863.3060
F +(972) 9.863.3050

U.S. Headquarters

Metrolight Inc.,
34197 Pacific Coast Highway,
Dana Point, CA 92629
T 949.542.7048
F 949.542.7050

U.S. Operations Center

Metrolight Inc.,
1724-B General George Patton Drive,
Brentwood, TN 37027
T 615.457.2060
F 615.457.2063