

University of California, Davis

**CLTC**

CALIFORNIA LIGHTING TECHNOLOGY CENTER

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# PIER Lighting Technology Candidates for 2008 Title 24

CEC Residential Sector  
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# Hybrid LED Exterior Fixtures

## *Overview*

- 5-Watt LED operates all night
- High light level triggered with occupancy
- Wall-mount for buildings
- Post-mount for walkways



# Hybrid LED Exterior Fixtures

## *Overview*

- Wall- & post-mount commercially available  
... “High-cost” version (~\$200)  
from one supplier now  
... “Low-cost” version (~\$85)  
from another supplier in early 2006
- Publicly available product specification

# Hybrid LED Exterior Fixtures

## *Overview*

- Universal “mounting plate” in development  
... possible in 2006
- “Security” version in discussion
- Other manufacturers interested too



# Hybrid LED Exterior Fixtures

## *Key Features*

- Very low-wattage all night  
... beats CFLs
- “Full” lighting when needed  
... built-in security indicates occupancy
- LED life ~10-20+ years  
... beats CFLs
- Integrated occupancy controls

# Hybrid LED Exterior Fixtures

## *Key Benefits*

Higher energy savings than operating CFLs all night

## *Code Opportunity*

Stimulate use of high-low exterior lighting

# Summary

- All products commercially available ... or will be within 6 months
- Most products have multiple manufacturers or generic, non-proprietary specifications ... more manufacturers “coming soon”