LBNL Proposed Project Objective

- Demonstrate low-cost method (LuzLinc) for controlling LED luminaires
- Targeted at retrofit applications
  - Requires very little additional controls wiring
- Uses infra-red radiation (not visible light) for communications link

Features of LuzLinc

- Establishes an IR control infrastructure for communicating with 0-10 VDC analog drivers/ballasts
- Supports up to four independently controllable zones
- Multiple luminaires can be associated with each control group
- Requires very little additional controls wiring
- Potentially very low cost

Status of Project

- Have a working prototype of the IR communications link including:
  - Interface to analog dimmable LED luminaire
  - Command receiver wand
  - IR control emitter
- Have identified components for a larger "proof-of-concept" system

Potential Collaboration Opportunities

- Improving the reliability of the IR link by refining the optics of the IR transmitter and fixture-connected receiver
  - The use of non-imaging optics for the receivers may significantly improve reliability (UC Merced)
  - Commissioning, implementation and testing (UC Davis/CLTC)
- Other collaboration opportunities possible after proof-of-concept is completed (June 2010)