

ADAPTIVE SOLUTIONS FOR OUTDOOR LIGHTING

Adaptive exterior lighting products are entering the marketplace at a rapid rate. By coupling features such as occupancy-based lighting controls with efficacious, dimmable sources, these solutions offer 30–75% energy savings over traditional systems.

The outdoor lighting products presented in this compendium utilize features that have been tested and verified through RD&D activities supported by the California Energy Commission. CLTC case studies demonstrated the commercial readiness of these technology features as they progressed from the lab to the marketplace. This collection focuses on the combination of occupancy-based lighting controls and dynamically tunable light sources. It is not intended as a comprehensive catalog, but offers a starting point for facility managers considering the implementation of adaptive lighting technologies today.

CASE STUDIES

- **PARKING LOT** Bi-level Street & Parking Area Luminaires, Cal Poly San Luis Obispo (05/10)
- **PARKING STRUCTURE** Bi-level Induction Parking Garage Luminaires, UC Davis (05/10)
- **WALKWAY** Bi-level LED Post Top Luminaires, Los Angeles Trade Technical College (05/12)
- **WALL PACK** Bi-level HID Wall Packs, CSU Chico (06/10) • Adaptive LED Wall Packs, UC Davis (03/13)

PARKING LOT

LED

- **CREE** 304 Series • SLM IP66
- **EATON'S COOPER LIGHTING BUSINESS** Galleon • Navion • Ventus
- **KENALL** TopDek
- **KIM LIGHTING** The Archetype • Warp 9
- **OSRAM SYLVANIA** ProPoint Cobrahead • ProPoint Shoebox

INDUCTION

- **NEPTUN LIGHT** Bi-level Dimming Shoebox

HID

- **SPAULDING LIGHTING** Cimmaron • Raven

PARKING STRUCTURE

LED

- **EATON'S COOPER LIGHTING BUSINESS** Quadcast • Valet
- **CREE** 304 Series • Edge
- **HYDREL** Ratio Canopy 1.5
- **KENALL** TekDek
- **KIM LIGHTING** PGL7
- **LAMAR LIGHTING** VOL Series LED with Occusmart
- **LED ERA** L Series
- **LITHONIA LIGHTING** Archway
- **OSRAM SYLVANIA** PermaLED Canopy • ProPoint Medium Round Canopy ProPoint Medium Square Canopy
- **PHILIPS GARDCO** ELG with LimeLight • VizorLED

INDUCTION

- **DECO LIGHTING** D511ib
- **ENVIRO TECH LIGHTING** Garage Light
- **EVERLAST LIGHTING** BioLume • Classic • Davenport

FLUORESCENT

- **COLUMBIA LIGHTING** Bi-level Luminaire
- **DECO LIGHTING** DSBL-CP
- **ENVIRO TECH LIGHTING** FLU-VT
- **LAMAR LIGHTING** VO Series with Occusmart
- **PHILIPS DAY-BRITE** Vaporlume



WALKWAY

LED

- **CREE** Edge
- **HYDREL** 3100 Louver Bollard
- **PHILIPS GARDCO** 830 Series Bollard
- **PHILIPS HADCO** LumiLock LED GX2
- **PHILIPS LUMEC** Domus Series • UrbanScape

INDUCTION

- **EVERLAST LIGHTING** Acorn Walkway

HID

- **EATON'S COOPER LIGHTING BUSINESS** Generation Series

WALL PACK

LED

- **CREE** Edge • XSP Series Wall Pack
- **EATON'S COOPER LIGHTING BUSINESS** Crosstour MAXX LED Wall Pack
- **JUNO LIGHTING** Finia LED LW Series Wall Mounted
- **LITHONIA LIGHTING** MRW LED • WSQ LED • WST LED
- **LSI INDUSTRIES** LED Greenbriar Wall Sconce • LED Patriot Wall Sconce
- **PHILIPS DAY-BRITE** LED Medium Full Cutoff Wall Pack
- **PHILIPS GARDCO** 121 Line
- **PHILIPS STONCO** Large Full Cutoff Wall Pack
- **STERNBERG LIGHTING** Solana SL270

INDUCTION

- **ENVIRO TECH LIGHTING** Wall Pack
- **EVERLAST LIGHTING** Classic Wall Pack
- **NEPTUN LIGHT** Wall Pack