

DOCKET 05-BSTD-2
DATE JUL 12 2006
RECD. SEP 27 2006

California Title 24 - 2008

Residential Lighting

Cheryl English & Bob Heaton



Issues Being Evaluated

- Availability of Title 24 compliant residential lighting
 - IC/AT downlights
 - Sloped ceiling downlights
 - Attractive residential lighting
- Ability to identify Title 24 compliant residential lighting

Availability of T24 Downlights

- Downlights
 - Background on development
 - Focus on energy efficiency and reliable product
 - PIER project – CA Kitchen Downlight
 - Electronic ballasts: no flicker, instant on
 - Thermally enhanced performance – 5 year ballast warranty
 - Good color
 - Contractor friendly installation
 - Manufacturer commitment to:
 - Product development
 - Literature
 - Training
 - Point of purchase displays

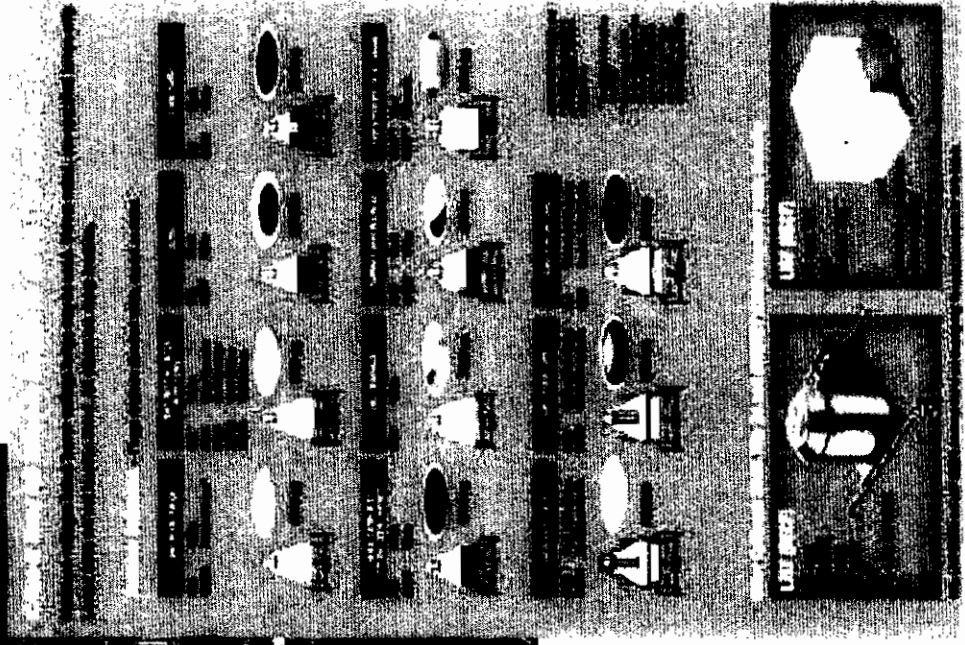
Distribution of T24 downlights since October 2005

- Lithonia Lighting has shipped approximately 45,000 T24 compliant downlights into CA since T24-2005 went into effect
- Over 6,000 unit inventory ready for immediate shipment from Lithonia Los Angeles distribution center
- Over 78% of the residential product being purchased is purchased at electrical distributors.
- All Home Depot stores in CA carry T24 compliant downlights – 195 stores in total.
- Home Centers serve less than 1/4 of the residential lighting purchases for downlights



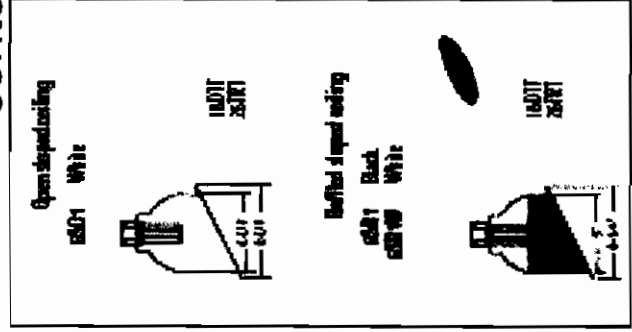
Wide variety of
product:

- Lamp wattages
- Aperture sizes
- Trim styles
- Installation options



Sloped Ceiling Downlights

- CFL IC/AT electronic ballast
- Lamp remains vertical for superior performance in sloped ceiling applications
- Stocked in CA distribution center



6" IC Housing

IC Housing Size Notes: * Approx. maximum input power based on temperature of air inlet and ambient air. Power & duty cycle are limited to 2 sec. at application temperature and maximum average input power. Maximum temperature

LI6F REC F

Power input, 100 W
400 W

Power input, 100 W, 400 W
400 W

Power input, 100 W, 400 W
400 W

Power input, 100 W
400 W

Power input, 100 W
400 W

Power input, 100 W, 400 W
400 W

Power input, 100 W, 400 W
400 W

Power input, 100 W, 400 W
400 W

Power input, 100 W, 400 W
400 W

Power input, 100 W
400 W

Power input, 100 W
400 W

Power input, 100 W
400 W

Power input

Power input, 100 W, 400 W
400 W

Power input

Power input, 100 W, 400 W
400 W

Power input

Power input, 100 W, 400 W
400 W

Ordering Information

Power input, 100 W, 400 W
400 W

Example: LMF 2000T 120 REC FAD REC

Power input, 100 W, 400 W
400 W

Power input, 100 W, 400 W
400 W

100

1/1 LITHIUM-ION BATTERY

A collage of various lighting fixtures, including pendant lights, chandeliers, and sconces, arranged in a collage. The fixtures are shown in black and white, highlighting their shapes and designs. Some are modern and minimalist, while others are more traditional or ornate. The arrangement is scattered across the page, with some fixtures appearing larger and more prominent than others.

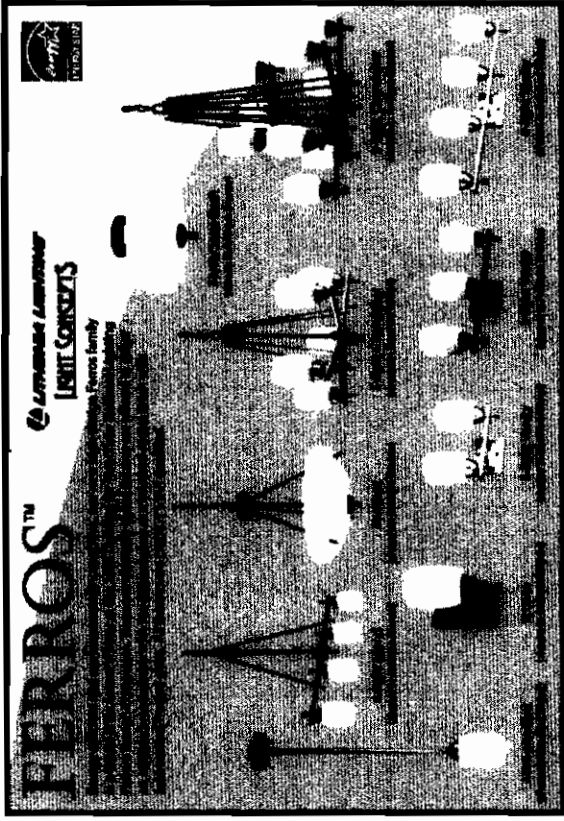


MARCH 2006

www.BurkardLighting.com



1st Place Indoor Fixtures Family



Around
the World in **18**
THE ENERGY-EFFICIENCY
MOVEMENT GOES GLOBAL

Identifying T24 Compliant Lighting

- Catalog sheets clearly identify Energy Star products



LITHONIA LIGHTING
FEATURES & SPECIFICATIONS

WARRANTY
Lithonia Lighting warrants its products to be free from defects in materials and workmanship for a period of five (5) years from the date of purchase. This warranty is limited to the original purchaser and does not cover damage caused by misuse, abuse, or neglect. Lithonia Lighting is not responsible for consequential or incidental damages. For more information, please contact your local distributor or Lithonia Lighting at 1-800-451-7777.

INSTALLATION
All wiring must be done in accordance with the National Electrical Code (NEC) and all applicable local codes. Lithonia Lighting products are designed for use in dry locations unless otherwise specified. For more information, please contact your local distributor or Lithonia Lighting at 1-800-451-7777.

MAINTENANCE
Lithonia Lighting products are designed for long life and low maintenance. However, regular cleaning of the lens and housing is recommended to maintain optimal performance. For more information, please contact your local distributor or Lithonia Lighting at 1-800-451-7777.

Model: L7XF REC
Finish: White
Mounting: Surface Mount
Dimensions: 12" x 12" x 4"

Specifications:
Wattage: 15W
Voltage: 120V
Frequency: 60Hz
Beam Spread: 60°
Color Temperature: 4000K

ORDERING INFORMATION

Please refer to the following table for ordering information. For more information, please contact your local distributor or Lithonia Lighting at 1-800-451-7777.

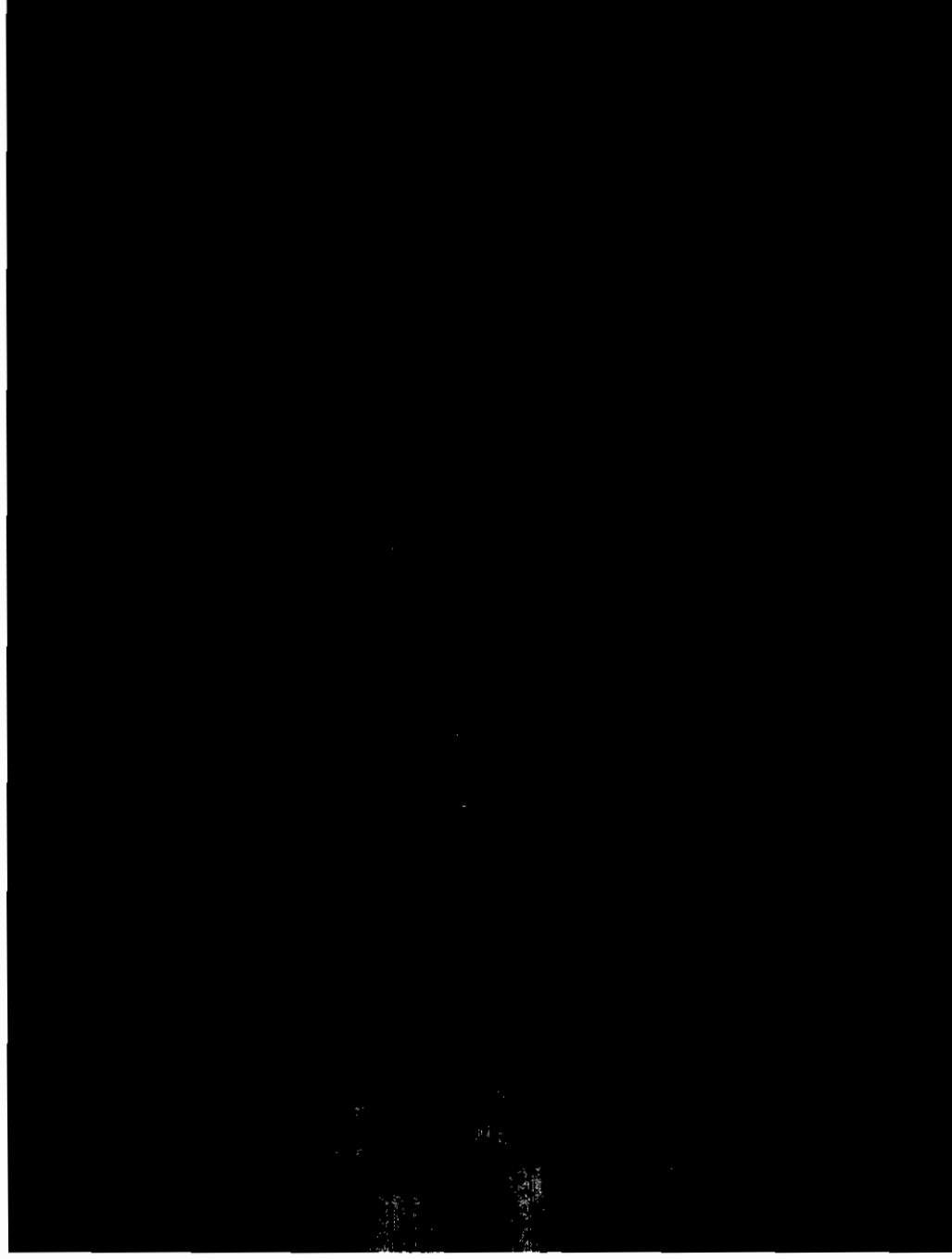
Model	Wattage	Beam Spread	Color Temperature
L7XF REC	15W	60°	4000K
L7XF REC	15W	60°	5000K
L7XF REC	15W	60°	6000K

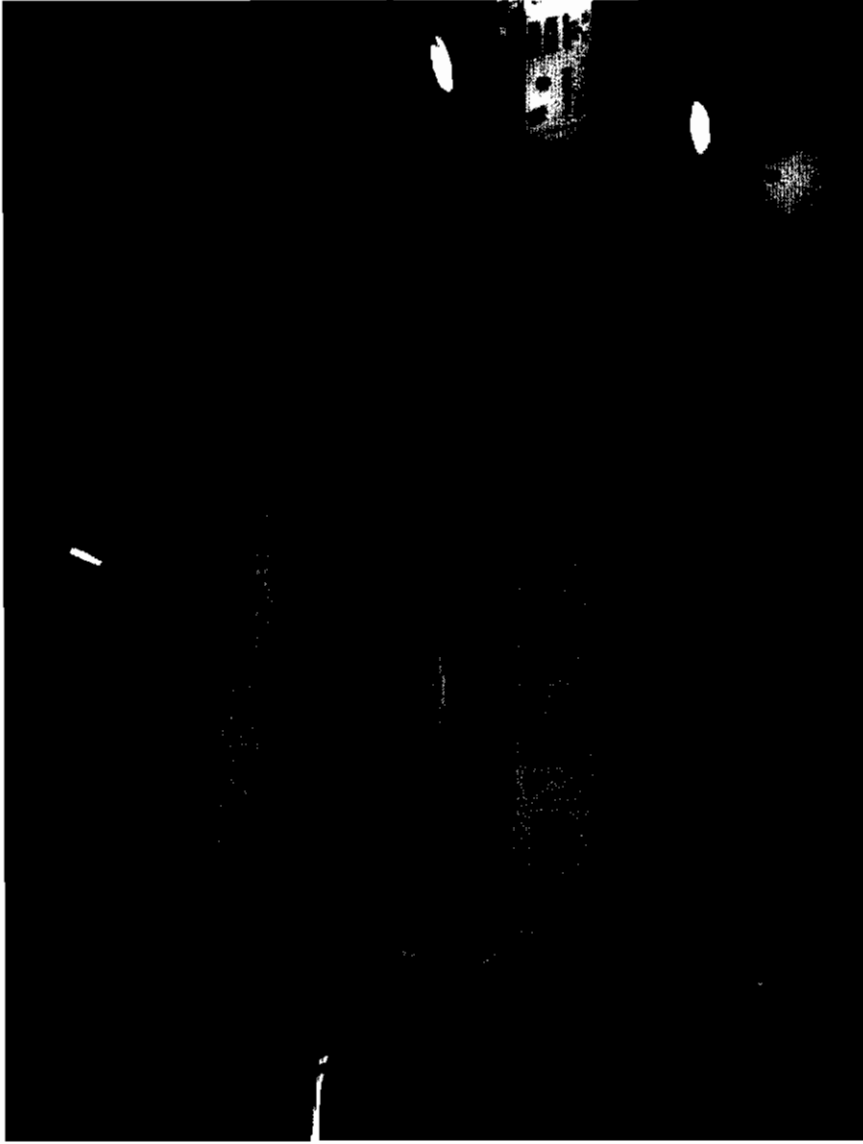
ENERGY STAR

ENERGY STAR is a symbol of energy efficiency. It is a program of the U.S. Environmental Protection Agency (EPA) and the U.S. Department of Energy (DOE). For more information, please visit www.energystar.gov.



Identifying Product at Home Centers





T24 identifier is on:

- Display
- Shelf
- Packaging

Summary

- During the 2005 standards development, CEC made a case that residential energy use was critical to CA energy efficiency and demand management.
- CA cannot afford to progress backwards with energy standards
- Industry has responded with quality product solutions that have excellent performance and reliability.
- Manufacturers have invested significant cost and time in developing compliant products, marketing communications, point of purchase displays and training.
- Manufacturers and retailers cannot afford the stranded costs (and lost time) required to support new energy standards, when there is a question about whether they will be supported by the Energy Commission.
- CEC must maintain the requirement for 50% of lighting power in kitchens to be high efficacy systems