

## **2013 RESIDENTIAL LIGHTING STANDARDS**

The following is summary for low-rise residential building lighting requirements from *2013 Building Energy Efficiency Standards* section 150.0(k) effective on July 1, 2014 (see [www.energy.ca.gov/title24](http://www.energy.ca.gov/title24) for more details).

### **KITCHENS LIGHTING:**

A minimum of 50% of the total rated wattage kitchen lighting shall be high efficacy. Kitchen lighting includes all lighting in the kitchen but does not include lighting internal to cabinets. Lighting in areas adjacent to the kitchen such as dining and nook areas, are considered kitchen lighting if they are not separately switched from kitchen lighting.

*EXCEPTION:* Up to 50 watts for dwelling units less than or equal to 2,500 ft<sup>2</sup> or 100 watts for dwelling units larger than 2,500 ft<sup>2</sup> may be exempt from the 50 percent high efficacy requirement when all low efficacy luminaires in the kitchen are controlled by a vacancy sensors or dimmers.

### **CABINETS INTERNAL LIGHTING:**

Shall use no more than 20 watts per linear foot.

### **BATHROOM LIGHTING:**

A minimum of one high efficacy luminaire must be installed. All other lighting installed in each bathroom shall be high efficacy OR controlled by vacancy sensors.

### **GARAGES, LAUNDRY ROOMS, AND UTILITY ROOMS LIGHTING:**

Shall be high efficacy luminaires AND controlled by vacancy sensors.

### **OTHER ROOMS OR AREAS LIGHTING:**

Shall be high efficacy OR controlled by either dimmers or by vacancy sensors. Closets less than 70 square feet are exempt. Lighting in detached storage buildings less than 1000 square feet located on a residential site are exempt.

### **OUTDOOR LIGHTING:**

Including entrances, patios, porches, balconies shall be high efficacy luminaires OR shall be controlled by a motion sensor not having an override or by pass switch that disable the motion sensor with one of the following devices: a photocontrol, an astronomical time clock, or an Energy Management Control System.

### **NIGHT LIGHTS:**

Permanently installed night lights and night lights integral to a permanently installed luminaires or exhaust fans shall contain only high efficacy lamps and not contain a line-voltage socket or line-voltage lamp holder; or shall be rated 5 watts maximum and shall not contain a medium screw-based socket.

### **EXHAUST FANS:**

Lighting integral to exhaust fans, in room other than kitchen, shall meet the applicable requirements of section 150.0(k). Exhaust fan housing is not required to be certified airtight but shall be sealed with a gasket or caulk between the exhaust fan housing and ceiling.

### **RECESSED LUMINAIRES IN CEILINGS:**

Shall be listed for zero clearance insulation contact (IC), labeled as airtight (AT) with air leakage less than 2.0 CFM, sealed with a gasket or caulk between the housing and ceiling, certified ballast rated for minimum 30,000 hours and have a ballast factor of not less than 0.90 for non-dimming and 0.85 for dimming, and readily accessible ballast from below ceiling for maintenance.

### **SWITCHING DEVICES AND CONTROLS:**

- High efficacy luminaires shall be switched separately from low efficacy luminaires.
- Exhaust fans shall be switched separately from lighting system except for an exhaust fan with integral lighting where the lighting system can be manually turned on/off.
- Luminaires shall be switched with readily accessible controls that permit manual on/off switching.
- No controls shall by pass the dimmer or vacancy sensor function.