

90+ LIGHTING

Compliant EVERYTIME

What You Need to Know and Why: CA Codes for LED Lamps Explained

You may not realize that despite the wide range of LED products now on the market, very few manufacturers offer LED lighting products that meet California's current standards. All 90+ Lighting products are listed for BOTH Title 20 and JA8 Title 24 standards simultaneously. This means you don't have to compromise on lighting quality or reliability in order to have code complaint product on your projects.

The California Energy Commission (CEC) is the state's California's primary energy policy and planning agency. In order to avoid consumer dissatisfaction and to facilitate market transition from incandescent and fluorescent lamps to more efficient LED technology, the CEC updated Title 20 & Title 24 JA8 in 2016 to delineate minimum quality and performance requirements for LED lamps.

- Title 20, effective January 1, 2018, sets efficacy requirements that all LED lamp products covered must meet in order to be sold in California. Products must also be registered with the CEC prior to entering the market.

- JA8 Title 24 is a subset of requirements that fall under the umbrella of Title 20 and only applies to residential installations. In order to be sold in California, lamps must meet Title 20 requirements, not only JA8 Title 24.

Title 20 LED Lamp Requirements

In order to be Title 20 eligible, LED lamps must have an American National Standards Institute (ANSI) standard base.

Products covered

- E12, E17, E26 or GU24 base lamps
- Retrofit cans for these bases
- Bi-pin lamps including MR16 and MR11

Performance requirements

- CRI must be greater than 82
- Power factor must be greater than 0.7
- Rated life must be greater than 10,000 hours (25,000 for MR16s)
- Dimmable to 10% if lamp is dimmable

Product details

- A-lamps must be ENERGY STAR® V2.0 omni-directional
- Decorative lamps must be ENERGY STAR V1.1 light distribution
- MR16 lamps must have efficiency greater than 80 lm/W for 82 CRI lamps or greater than 70 lm/W for 90 CRI lamps

JA8/Title 24 LED Lamp Requirements

CEC JA8 Title 24, also known as the California Building Standards Code, is only required for residential new construction use. These requirements primarily relate to lamp quality and are more stringent than those covered in Title 20.

Performance requirements

- CRI must be greater than 90
- R9 must be greater than 50
- Flicker must be less than 30%
- CCT lower than 4000K
- Rated life greater than or equal to 15,000 hours
- 10% dimming required



90+ EVERYTIME

90+ Lighting | a SaveEnergy Company

1094 Cudahy Place, Suite 212, San Diego CA 92110
(619) 340-1203 | contact@90pluslighting.com
www.90pluslighting.com