



# TITLE 20 / TITLE 24 & JA8

## FAQ

### ■ Q: What lighting products are effected for Title 20?

A: Two main categories are impacted. State-Regulated LED Lamps and State-Regulated Small Diameter Directional Lamps.

State-Regulated LED Lamps - SLED (meet the following criteria):

- Have an E12, E17, E26, or GU-24 type base
- Produce between 200-2600 lumens (products with candelabra bases produce 150+ lumens)
- Produce a white light CCT between 2200K-7000K with a Duv of +/- 0.012
- This category also includes retrofit kits with an E12, E17, E26, or GU24 type base

State-Regulated Small Diameter Directional Lamps - SDDL (meet the following criteria):

- Operates at 12, 24, or 120V
- Has an ANSI ANSLG C81.61-2009 (R2014) compliant pin or E26 base
- Diameter < 2.25"
- Lumen output < 850 lumens, wattage equivalency less than 75w incandescent

### ■ Q: What makes a State-Regulated LED Lamp or State-Regulated Small Diameter Directional Lamp acceptable to be sold in California for Title 20?

A: Lamps must meet the applicable design and performance standards, certified to the California Energy Commission (are listed in the state's MAEDBS database) and marked in accordance with TITLE 20.

### ■ Q: What is the difference between Tier I and Tier II performance for Title 20?

A: The CEC introduced requirements for LED lamps in two tiers (phases). Tier I's effective date is 1/1/2018 and Tier II is 7/1/19.

Performance under Tier II is significantly higher (efficacy and/or CRI is typically much higher). SDDL are subject to one set of requirements that went into effect 1/1/18.

### ■ Q: What are the differences between Title 20 and Title 24?

A: Both Title 20 and Title 24 include requirements for lamps and luminaires (light fixtures).

Title 20 requirements apply to covered lighting products when they are sold or offered for sale in California. Title 24, Part 6 applies to new construction, permitted retrofits and building alterations and requires all luminaires in new single-family homes, townhouses and dwelling units of new multifamily buildings to be high efficacy.

### ■ Q: What is the difference between Residential and Non-Residential for Title 24?

A: Title 24 include requirements for both residential and nonresidential buildings. Residential buildings are those low-rise residential buildings with three or fewer stories. Nonresidential buildings include hotels, motels, and high-rise residential buildings (those over three stories above grade in height).

### ■ Q: What is California TITLE 24, Part 6 JA8?

A: JA8 is Joint Appendix 8 and it specifies the requirements a light source (such as an LED lamp or array) needs to meet in order to be used in a Residential application including single family homes, townhomes, and the dwelling area in a multifamily building.

### ■ Q: What products are required to be JA8 certified for residential applications in the state of California?

A: High efficacy light sources comply with one of the groups below:

Light sources in this column other than those installed in ceiling recessed downlight luminaires are automatically classified as high efficacy and are not required to comply with Reference Joint Appendix JA8:

- Pin-based linear fluorescent
- Pin-based compact fluorescent
- GU-24 other than LEDs
- Inseparable SSL luminaires with colored light sources for decorative lighting purpose
- Pulse-start metal halide
- High pressure sodium
- Luminaires with hardwired high frequency generator and induction lamp
- Inseparable SSL luminaires that are installed outdoors

Light sources in this group are only considered to be high efficacy if they are certified to the Commission as High Efficacy Light Sources in accordance with Reference Joint Appendix JA8 and marked as required by JA8:

- LED luminaires with integral sources
- Screw-based LED lamps
- Pin-based LED lamps
- GU-24 based LED light source
- Recessed Ceiling (Can) Lights: Recessed ceiling downlights (can lights) CANNOT be screw base and must use an insulation contact & airtight (ICAT) rated can

### ■ Q: What are the lighting requirements in Title 24 that apply to Non-residential (commercial) applications?

A: Non-residential compliance can be achieved by combining control strategies for different space types (warehouses, classrooms, parking lots, etc.). Generally, as long as a lighting product meets (or is outside the scope of) Title 20, and can be continuously dimmed, it can be used to support compliance to a non-residential application.





**TITLE 20 / TITLE 24 & JA8 PRODUCT LIST - LAMPS**

Product	Model	TITLE 20			TITLE24 & JA8	Product	Model	TITLE 20			TITLE24 & JA8
		SLED		SDDL				SLED		SDDL	
		Tier I	Tier II					Tier I	Tier II		
98024	9.5BR30DIM/927/GU24	✓			✓	98242	3.3FB11DIM/927/E26		✓		
98023	9.5BR30DIM/927/R	✓			✓	98377	3.8FG25DIM/927		✓		✓
98029	8.5MR16DIM/930SP15/R			✓	✓	98481	7MR16DIM/927SP15			✓	✓
98030	8.5MR16DIM/930NF25/R			✓	✓	98482	7.5MR16DIM/927NF25			✓	✓
98031	8.5MR16DIM/930FL35/R			✓	✓	98483	7.5MR16DIM/927FL35			✓	✓
98151	5.5GU10DIM/927FL35			✓	✓	98484	7MR16DIM/930SP15			✓	✓
98152	5.5GU10DIM/930FL35			✓	✓	98485	7.5MR16DIM/930NF25			✓	✓
98154	7MR16DIM/930FL35			✓	✓	98486	7.5MR16DIM/930FL35			✓	✓
28395	9A19DIM/927	✓			✓	98153	7MR16DIM/927FL35			✓	✓
97911	9A19DIM/927/GU24	✓			✓	34901	11PAR30DIM/930SP15		✓		
16329	18.5A21DIM/927	✓			✓	34902	11PAR30DIM/930NF25		✓		
98279	9FA19DIM/927		✓			34903	11PAR30DIM/930FL40		✓		
98241	3.3FB11DIM/927		✓			98155	7MR16DIM/940FL35			✓	
98559	9A19DIM/927		✓		✓	34904	11PAR30DIM/940FL40		✓		
98560	9A19DIM/930		✓			34905	11PAR30DIM/930FL40/B		✓		
98561	9A19DIM/940		✓			34906	11PAR30SNDIM/927SP15		✓		
98565	9A19DIM/927/GU24/R		✓		✓	34907	11PAR30SNDIM/927NF25		✓		
98141	11A19DIM/927		✓		✓	34908	11PAR30SNDIM/927FL40		✓		
98142	11A19DIM/930		✓			34909	11PAR30SNDIM/930SP15		✓		
98143	11A19DIM/940		✓			34910	11PAR30SNDIM/930NF25		✓		
98562	9A19/927/277V		✓			34911	11PAR30SNDIM/930FL40		✓		
98563	9A19/930/277V		✓			34912	11PAR30SNDIM/940FL40		✓		
98564	9A19/940/277V		✓			34913	11PAR30SNDIM/930FL40/B		✓		
98147	15A21DIM/927/N		✓		✓	34916	15.5PAR38DIM/927SP15		✓		
98148	15A21DIM/930/N		✓			34917	15.5PAR38DIM/927NF25		✓		
98149	15A21DIM/940/N		✓			34918	15.5PAR38DIM/927FL40		✓		
34890	6.5PAR20DIM/927SP15		✓			34919	15.5PAR38DIM/930SP15		✓		
34891	6.5PAR20DIM/927NF25		✓			34920	15.5PAR38DIM/930NF25		✓		
34892	6.5PAR20DIM/927FL40		✓			34921	15.5PAR38DIM/930FL40		✓		
34893	6.5PAR20DIM/930SP15		✓			34922	15.5PAR38DIM/940FL40		✓		
34894	6.5PAR20DIM/930NF25		✓			34923	15.5PAR38DIM/930NF25/B		✓		
34895	6.5PAR20DIM/930FL40		✓			34924	15.5PAR38DIM/930FL40/B		✓		
34896	6.5PAR20DIM/940FL40		✓			34925	15.5PAR38DIM/930FL40/GU24		✓		
34897	6.5PAR20DIM/930FL40/B		✓			34914	11PAR30/930FL40/277V		✓		
34898	11PAR30DIM/927SP15		✓			34915	11PAR30/940FL40/277V		✓		



