



## Los Angeles Community College District Design Standards

---

City • East • Harbor • Mission • Pierce • Southwest • Trade-Technical • Valley • West

### **LACCD Facilities Design Standards – General Lighting (LED)** **Campus Facility Standards Cross- Reference: Div. 26**

#### **GENERAL - ITEMS ARE NUMBERED FOR EASE OF REFERENCE**

1. All lighting to be installed at any facilities shall use LED technology. Exceptions may be granted on a case by case basis and only in cases where a new lighting technology is available that is more efficient than LED.
2. LED luminaires shall conform to the following standards:
  - a. A minimum efficacy (lumens per watt) of 100
  - b. A color rendering index (CRI) of 80 or above
  - c. Power factor of 0.9 or above
  - d. Total Harmonic Dissonance (THD) of 20% or lower
  - e. A minimum of five years manufacturer's warranty
  - f. Luminaires that are dimmable
  - g. Color temperature (CCT) of 4000 Kelvin (exceptions maybe granted on color temperature on a case by case basis, in accordance with specific requirements for a given space)
3. LACCD shall not accept tube-replacement LED lamps that can be installed in luminaires designed for fluorescent tubes. For example, a contractor shall not be allowed to install fluorescent luminaires with "plug-and-play" or "ballast-compatible" LED tubes.
4. Warranty period shall be longer than five years if available, and the project team shall investigate the feasibility and practicality of purchasing longer warranty periods if manufacturers offer that option.
5. Luminaires shall conform to Title 24 lighting and lighting control standards. The most recent version of the applicable code shall be used for these purposes.
6. Contractors may consider integral sensors for daylight harvesting and occupancy that can controls individual luminaires. Contractors may also consider luminaires that use wireless technology to communicate with each other or with other sensors in a given space.
7. Lighting systems shall meet the lighting levels recommended by the Illuminating Engineering Society of North America (IESNA) for each space or intended application within a space. The most recent version of the applicable code shall be used as the reference to determine lighting levels.



## Los Angeles Community College District Design Standards

---

City • East • Harbor • Mission • Pierce • Southwest • Trade-Technical • Valley • West

8. Luminaires shall conform to minimum qualifying criteria for lighting incentive programs offered by the given location's utility company (LADWP or Southern California Edison). The project team and/or contractor shall apply for lighting incentive funds if project qualifies.
9. Luminaires shall be easily accessible for cleaning and maintenance.