

San Francisco's specifications for LED lamps

(Required & Suggested products)

Category	Product types	Environmental specifications
1A: LED Compact Lamps with Integrated Driver (except LED Filament Lamps)	<p>Most have either a medium screw base or a 2-pin GU24 base.</p> <ul style="list-style-type: none"> • Omni-directional LED Lamps (e.g., A19 standard incandescent size, A21, and A15 appliance size) • Directional/Flood LED Lamps (e.g., reflector flood lamps, PAR lamps, MR16s) • Decorative LED Lamps (e.g., globe, candle and bullet lamps) 	<p>Required products:</p> <ul style="list-style-type: none"> • Energy Star-certified OR on DesignLights Consortium (DLC) Qualified Product List (QPL) AND • CA Title 20-compliant <p>Suggested products must meet requirements above and be Title 24/JA8-compliant, DLC Premium Listed and/or RoHS-compliant¹.</p>
1B: LED Compact Filament Lamps (with integrated driver)	<p>Shapes:</p> <ul style="list-style-type: none"> • A19 (standard incandescent bulb shape) • Globes • Candles <p>They're clear, yellow (vintage models) or frosted with a visible filament.</p>	<p>Required products:</p> <ul style="list-style-type: none"> • Energy Star-certified OR CA Title 20-compliant <p>Suggested products must meet requirements above and be Title 24/JA8-compliant, RoHS-compliant¹, and/or have a rated life >15,000 hours.</p>
1C: LED Tube Lamps	<p>Shapes:</p> <ul style="list-style-type: none"> • Linear: T8s, T5s and T12s • U-shaped: T8s and T12s • Circular: T5s and T9s 	<p>Required products:</p> <ul style="list-style-type: none"> • Energy Star-certified OR on DLC QPL AND • Minimum 50,000 hours rated life <p>Suggested products must meet requirements above and be Title 24/JA8-compliant, DLC Premium Listed and/or RoHS-compliant¹.</p>
1D. LED Pin-based Compact Lamps (with an external power source (e.g., driver))	<p>These LEDs replace 4-pin and 2-pin compact fluorescent lamps (CFLs) and have an external power source (e.g., driver or ballast).</p> <p>LED replacement lamps for 2-pin CFLs that lack an integrated driver are not covered under DLC or ENERGY STAR.</p>	<p>Required products:</p> <ul style="list-style-type: none"> • On DLC QPL (for 4-pin LED (compact lamps ONLY) AND • Minimum 50,000 hours rated life <p>Suggested products must meet requirements above and be DLC Premium Listed, and/or RoHS-compliant¹.</p>
1E: LED Miniature Lamps	<p>Indicator lights and other very small LED lamps (e.g., C7 bulbs).</p> <p>Many of these products have either a miniature candelabra or bayonet base.</p>	<p>Required products:</p> <ul style="list-style-type: none"> • Minimum 15,000 hours rated life <p>Suggested products must meet requirements above and be Energy Star-certified, RoHS-compliant¹ and/or have a rated life >15,000 hours.</p>
1F: LED Exit Sign Lamps and Retrofit Kits	<ul style="list-style-type: none"> • Clear, red and green LED exit sign lamp • LED exit sign retrofit kits with base adapters. 	<p>Required products:</p> <ul style="list-style-type: none"> • Meet NFPA 101, NEC and OSHA Illumination Standards • LED exit sign retrofit kits must use 5 watts per face or less. <p>Suggested products must meet requirements above and be RoHS-compliant¹.</p>

Prohibited: All **other LED lamps**

ⁱ **RoHS:** The [European Union's Restriction of Hazardous Substances Directive](#) prohibits electrical equipment – including lighting products – that contain lead, cadmium, chromium VI, mercury and certain types of flame retardants (above certain amounts) from being sold in Europe. While there is no list of RoHS-compliant products, many manufacturers label their RoHS-compliant products on their technical data sheets, catalogs, website, and product. Lighting with a CE label also indicate that the product is RoHS compliant as well as other EU environmental directives.