

Linear Fluorescent T5 Bulbs (2-foot)



Models at the top of the list below are most long-lasting and energy-efficient.

T5s below replace T12s, are more energy efficient, and meet these criteria for bulbs SF City staff are required to buy:

1. Run on energy-efficient electronic program start ballasts. (These lamps do not run on instant start ballasts.)
2. Have 85+ Color Rendering Index (CRI) for improved energy efficiency and visibility.
3. Have at least a two-year warranty and a rated life of 25,000+ hours (which is when 50% of the bulbs fail when tested on electronic program-start ballasts based on 3-hour start cycles).
4. Have no more than 3 mg of toxic mercury. Bulbs complying with European Union's Restriction of Hazardous Substances (RoHS) Directive are also lead-free.

Basic info			Buy it (Replacing a bulb? You don't have to use the same brand. Ask vendors if products below can be used.)	Hours it might last	Brightness		Toxicity	Sample Ordering Code for a bulb that helps your eyes see better (cool white / color temperature 4100K)
Manufacturer	Standard or High Output	Product line	For SF City depts.: contact approved vendors below. Then check prices here.	Rated Life (When tested on Program Start Ballasts with 3-hour starts)	Lumens: Initial (Brightness when first installed)*	Energy efficiency (Brightness/ lumens per watt (higher = more efficient))	Maximum mercury	
Sylvania	Standard	14-watt PENTRON Ecologic	armand@maltbyelectric.com, 415-863-5000	30,000	1350	96.4	1.8 mg	FP14/841/ECO
GE	Standard	14-watt Ecolux	nsmith@omegapacific.com, 415-642-2195	30,000	1350	96.4	2.5 mg	F14W/T5/841/ECO
Sylvania	High Ouput	21-watt PENTRON Supersaver (SS) Ecologic	armand@maltbyelectric.com, 415-863-5000	30,000	2000	95.2	1.8 mg	FP24/21W/841/HO/SS/ECO
Sylvania	High Ouput	24-watt PENTRON Ecologic	armand@maltbyelectric.com, 415-863-5000	30,000	2000	83.3	1.8 mg	FP24/841/HO/ECO
GE	High Ouput	24-watt Ecolux	nsmith@omegapacific.com, 415-642-2195	30,000	2000	83.3	2.5 mg	F24W/T5/841/ECO
Sylvania	Standard	13-watt PENTRON Supersaver (SS) Ecologic	armand@maltbyelectric.com, 415-863-5000	25,000	1350	103.8	1.8 mg	FP14/13W/841/SS/ECO
GE	Standard	13-watt Watt-Miser (WM) Ecolux	nsmith@omegapacific.com, 415-642-2195	25,000	1350	103.8	2.5 mg	F14T5/841/WM/ECO
Philips	Standard	14-watt ALTO	Troy.Vaughn@regencylighting.com, 415-845-2269	25,000	1350	96.4	1.4 mg	F14T5/841/ALTO
Philips	High Ouput	24-watt ALTO	Troy.Vaughn@regencylighting.com, 415-845-2269	25,000	1950	81.3	1.4 mg	F24T5/841/HO/ALTO

*Initial lumens may be different for 5000K or 6500K lamps
SFAApproved.org 2013-present lights

Linear Fluorescent T5 bulbs (3-foot)

Models at the top of this table have the longest rated life.



T5s below replace T12s, are more energy-efficient, and meet these criteria for bulbs SF City staff are required to buy:

1. Run on energy-efficient electronic program-start ballasts. (These lamps do not run on instant start ballasts.)
2. Have 85+ Color Rendering Index (CRI) for improved energy efficiency and performance.
3. Have at least a two-year warranty and a rated life of 25,000+ hours (which is when 50% of the bulbs fail when tested on electronic program-start ballasts based on 3-hour start cycles)
4. Have no more than 3 mg of toxic mercury. Bulbs complying with European Union's Restriction of Hazardous Substances (RoHS) Directive are also lead-free.

Basic info			Buy it (Replacing a bulb? You don't have to use the same brand. Ask vendors if products below can be used.)	Hours it might last	Brightness		Toxicity	Sample Ordering Code for a bulb that helps your eyes see better (cool white / color temperature 4100K)
Manufacturer	Standard or High Output	Product line	For SF City depts.: contact approved vendors below. Then check prices here.	Rated Life (When tested on Program Start Ballasts with 3-hour starts)	Lumens: Initial (Brightness when first installed)*	Energy efficiency (Brightness/ lumens per watt (higher = more efficient))	Maximum mercury	
Sylvania	High Output	35-watt PENTRON Supersaver (SS) Ecologic	armand@maltbyelectric.com, 415-863-5000	30,000	3500	100	1.8 mg	FP39/35W/841/HO/SS/ECO
GE	Standard	21-watt Ecolux	nsmith@omegapacific.com, 415-642-2195	30,000	2100	100	2.5 mg	F21W/T5/841/ECO
Sylvania	High Output	39-watt PENTRON Ecologic	armand@maltbyelectric.com, 415-863-5000	30,000	3500	90	1.8 mg	FP39/841/HO/ECO
GE	High Output	39-watt Ecolux	nsmith@omegapacific.com, 415-642-2195	30,000	3500	90	2.5 mg	F39W/T5/841/ECO
Sylvania	Standard	19-watt PENTRON Supersaver (SS) Ecologic	armand@maltbyelectric.com, 415-863-5000	25,000	2100	111	1.8 mg	FP21/19W/841/SS/ECO
GE	Standard	20-watt Watt-miser (WM) Ecolux	nsmith@omegapacific.com, 415-642-2195	25,000	2100	105	2.5 mg	F21T5/841/WM/ECO
Philips	Standard	21-watt ALTO	Troy.Vaughn@regencylighting.com, 415-845-2269	25,000	2100	100	1.4 mg	F21T5/841/ALTO
Sylvania	Standard	21-watt PENTRON Ecologic	armand@maltbyelectric.com, 415-863-5000	25,000	2100	100	1.8 mg	FP21/841/ECO
Philips	High Output	39-watt ALTO	Troy.Vaughn@regencylighting.com, 415-845-2269	25,000	3500	90	1.4 mg	F39T5/841/HO/ALTO

*Initial lumens may be different for 5000K or 6500K lamps
SFApproved.org 2013-present lights

Linear Fluorescent T5 bulbs (4-foot)



Models at the top of this table have the longest rated life.

T5s below replace T12s, and are more energy efficient and meet these criteria for bulbs SF City staff are required to buy:

1. Run on energy-efficient electronic program-start ballasts.
2. Have 85+ Color Rendering Index (CRI) for improved energy efficiency and visibility. 700 series lamps are prohibited.
3. Have at least a two-year warranty and a rated life of 25,000+ hours (which is when 50% of the bulbs fail when tested on electronic program-start ballasts based on 3-hour start cycles).
4. Have no more than 3 mg of toxic mercury. Bulbs complying with European Union's Restriction of Hazardous Substances (RoHS) Directive are also lead-free.

Basic info			Buy it (Replacing a bulb? You don't have to use the same brand. Ask vendors if products below can be used.)	Hours it might last	Brightness		Toxicity	Sample Ordering Code for a bulb that helps your eyes see better (cool white / color temperature 4100K)	Notes
Manufacturer	Standard or High Output	Product line	For SF City depts.: contact approved vendors below. Then check prices here.	Rated Life (When tested on Program Start Ballasts with 3-hour starts)	Lumens: Initial (Brightness when first installed)*	Energy efficiency (Brightness/ lumens per watt (higher = more efficient)	Maximum mercury		
GE	High Output	54-watt XL Ecolux	nsmith@omegapacific.com, 415-642-2195	50,000	5000	92.6	2.5 mg	F54T5/XL/841/ECO	
Sylvania	High Output	54-watt PENTRON Extended Life (XL) Ecologic	armand@maltbyelectric.com, 415-863-5002	45,000	5000	92.6	1.8 mg	FP54/841/HO/XL/ECO	
Sylvania	High Output	50-watt PENTRON Supersaver (SS) Ecologic	armand@maltbyelectric.com, 415-863-5004	40,000	5000	100.0	1.8 mg	FP54/50W/841/HO/SS/ECO	
Sylvania	High Output	47-watt PENTRON Supersaver (SS) Ecologic	armand@maltbyelectric.com, 415-863-5003	40,000	4575	97.3	1.8 mg	FP54/47W/841/HO/SS/ECO	
Sylvania	High Output	54-watt PENTRON Ecologic	armand@maltbyelectric.com, 415-863-5005	40,000	5000	92.6	1.8 mg	FP54/841/HO/ECO	
Philips	Standard	25-watt Energy Advantage (EA) ALTO	Troy.Vaughn@regencylighting.com, 415-845-2269	35,000	2900	116.0	1.4 mg	F28T5/841/EA/ALTO 25W	

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Basic info			Buy it (Replacing a bulb? You don't have to use the same brand. Ask vendors if products below can be used.)	Hours it might last	Brightness		Toxicity	Sample Ordering Code for a bulb that helps your eyes see better (cool white / color temperature 4100K)	Notes
Manufacturer	Standard or High Output	Product line	For SF City depts.: contact approved vendors below. Then check prices here.	Rated Life (When tested on Program Start Ballasts with 3-hour starts)	Lumens: Initial (Brightness when first installed)*	Energy efficiency (Brightness/ lumens per watt (higher = more efficient)	Maximum mercury		
Philips	High Output	44-watt Extra Energy Advantage (XEW) ALTO	Troy.Vaughn@regencylighting.com, 415-845-2271	35,000	4500	102.3	1.4 mg	F54T5/841/HO/XEW/ALTO 44W	
Philips	High Output	49-watt Energy Advantage (EA) ALTO	Troy.Vaughn@regencylighting.com, 415-845-2272	35,000	5000	102.0	1.4 mg	F54T5/841/HO/EA/ALTO 49W	
Philips	High Output	49-watt Extreme Temperature (A) Energy Advantage (EA) ALTO	Troy.Vaughn@regencylighting.com, 415-845-2272	35,000	5000	102.0	1.4 mg	F54T5/841/HO/A/EA/ALTO 49W	For "Extreme Temperature"
Sylvania	Standard	26-watt PENTRON Supersaver (SS) Ecologic	armand@maltbyelectric.com, 415-863-5001	30,000	2900	111.5	1.8 mg	FP28/26W/841/SS/ECO	
Sylvania	Standard	28-watt PENTRON Ecologic	armand@maltbyelectric.com, 415-863-5000	30,000	2900	103.6	1.8 mg	FP28/841/ECO	
GE	Standard	28-watt Ecolux	nsmith@omegapacific.com, 415-642-2195	30,000	2900	103.6	2.5 mg	F28W/T5/841/ECO	except high-lumen (HL) models
GE	High Output	51-watt Watt-Miser (WM) Ecolux	nsmith@omegapacific.com, 415-642-2195	30,000	4800	102.1	2.5 mg	F54T5/47W/841ECO	
GE	High Output	47-watt Watt-Miser (WM) Ecolux	nsmith@omegapacific.com, 415-642-2195	30,000	5000	98.0	2.5 mg	F54T5/841/WM/ECO	

Basic info			Buy it (Replacing a bulb? You don't have to use the same brand. Ask vendors if products below can be used.)	Hours it might last	Brightness		Toxicity	Sample Ordering Code for a bulb that helps your eyes see better (cool white / color temperature 4100K)	Notes
Manufacturer	Standard or High Output	Product line	For SF City depts.: contact approved vendors below. Then check prices here.	Rated Life (When tested on Program Start Ballasts with 3-hour starts)	Lumens: Initial (Brightness when first installed)*	Energy efficiency (Brightness/ lumens per watt (higher = more efficient))	Maximum mercury		
GE	High Output	54-watt Ecolux	nsmith@omegapacific.com, 415-642-2195	30,000	5000	92.6	2.5 mg	F54W/T5/841/ECO	
GE	Standard	26-watt Watt-Miser (WM) Ecolux	nsmith@omegapacific.com, 415-642-2195	25,000	2900	111.5	2.5 mg	F28T5/841/WM/ECO	
Philips	Standard	28-watt ALTO	Troy.Vaughn@regencylighting.com, 415-845-2270	25,000	2900	103.6	1.4 mg	F28T5/841/ALTO	
Philips	High Output	54-watt ALTO	Troy.Vaughn@regencylighting.com, 415-845-2273	25,000	5000	92.6	1.4 mg	F54T5/HO/841/ALTO	

Linear Fluorescent T5 bulbs (5-foot)



Models at the top of this table have the longest rated life.

T5s below replace T12s, are more energy efficient, and meet these criteria for bulbs SF City staff are required to buy:

1. Run on energy-efficient electronic program-start ballasts.
2. Have 85+ Color Rendering Index (CRI) for improved energy efficiency and visibility.
3. Have at least a two-year warranty and a rated life of 25,000+ hours (which is when 50% of the bulbs fail when tested on electronic program-start ballasts based on 3-hour start cycles).
4. Have no more than 3 mg of toxic mercury. Bulbs complying with European Union's Restriction of Hazardous Substances (RoHS) Directive are also lead-free.

Basic info			Buy it (Replacing a bulb? You don't have to use the same brand. Ask vendors if products below can be used.)	Hours it might last	Brightness		Toxicity	Sample Ordering Code for a bulb that helps your eyes see better (cool white / color temperature 4100K)	Notes
Manufacturer	Standard or High Output	Product Line	For SF City depts.: contact approved vendors below. Then check prices here.	Rated Life (When Tested on Program Start Ballasts With 3-hour Starts)	Lumens: Initial (Brightness when first installed)*	Energy efficiency (Brightness/ lumens per watt (higher = more efficient))	Maximum mercury		
GE	Standard	35-watt Ecolux	nsmith@omegapacific.com, 415-642-2195	30,000	3650	104.3	2.5 mg	F41W/T5/841/ECO	Tradeoff; The GS mostly has the right lamps; it includes a few WM models, which are more expensive
GE	High Output	80-watt Ecolux	nsmith@omegapacific.com, 415-642-2195	30,000	7000	87.5	2.5 mg	F80W/T5/841/ECO	No XL or WM models available.
GE	Standard	33-watt Watt-Miser (WM) Ecolux	nsmith@omegapacific.com, 415-642-2195	25,000	3650	110.6	2.5 mg	F41T5/841/WM/ECO	Tradeoff
Sylvania	Standard	35-watt Ecologic	armand@maltbyelectric.com, 415-863-5000	25,000	3650	104.3	1.8 mg	FP41/841/ECO	
Philips	Standard	35-watt ALTO	Troy.Vaughn@regencylighting.com, 415-845-2269	25,000	2900	82.9	1.4 mg	F41T5/841/ALTO	
Sylvania	High Output	80-watt PENTRON Ecologic	armand@maltbyelectric.com, 415-863-5000	25,000	6150	76.9	1.8 mg	FP80/841/HO/ECO	

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