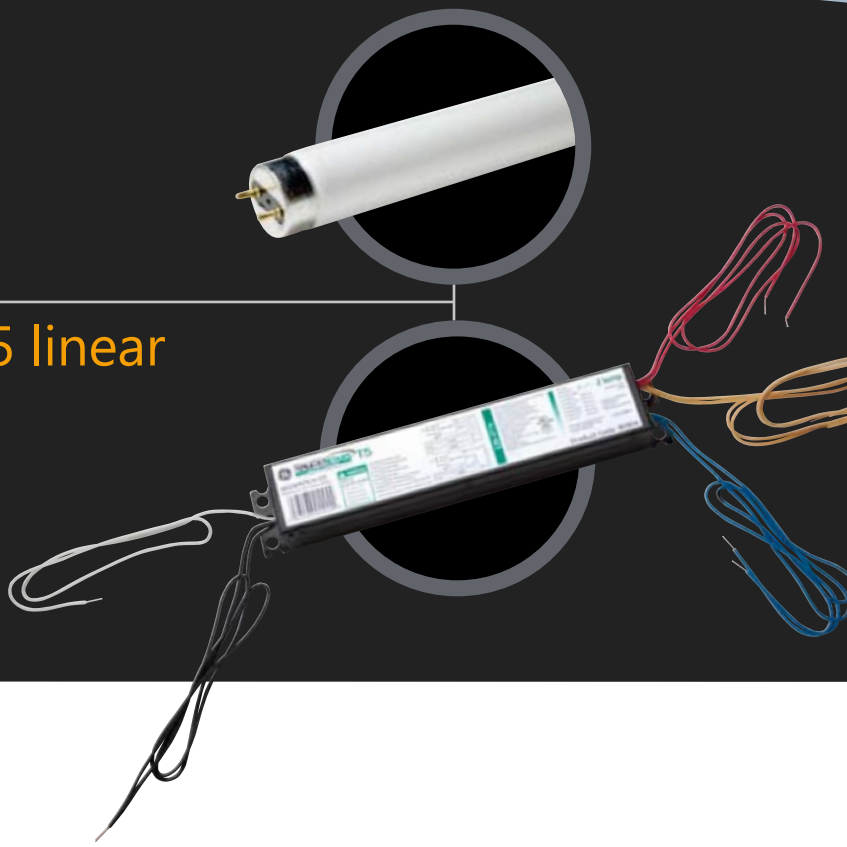
Maximize

Current energy-efficient T5 linear fluorescent systems



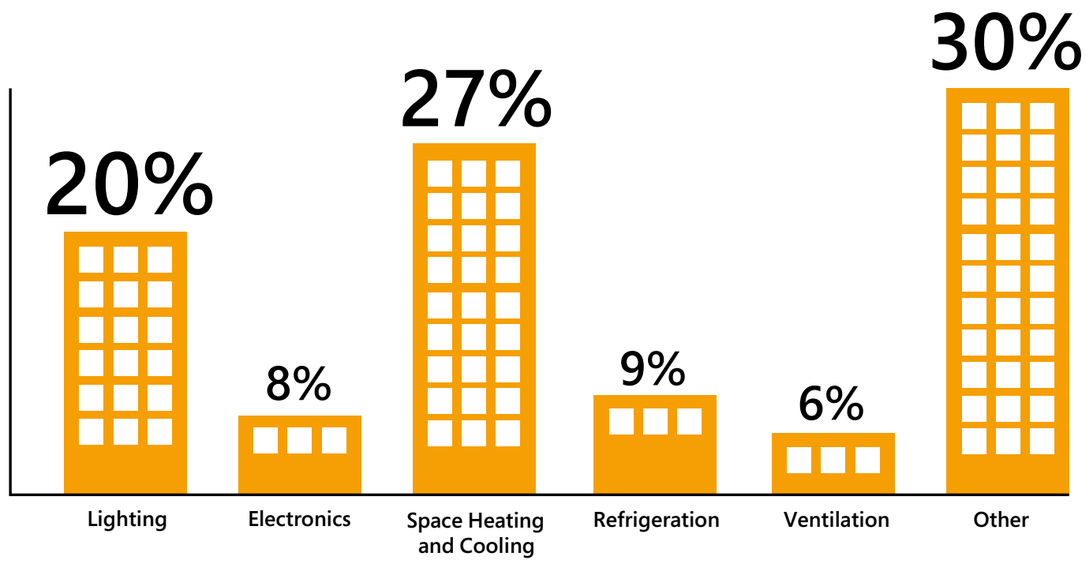
GE current
a Daintree company

A bright way to improve efficiency

Your business is valuable. And when workers have to take time out of the day to climb scaffolds and change energy-draining lamps, productivity and profits suffer. Current linear fluorescent systems offer the ideal solution — energy-efficiency and long life combine to create a system that lowers the cost of your energy bill, and the cost of maintenance.

How lighting affects electricity usage

Lighting makes up 20% of a building's electricity use.



Source: U.S. Department of Energy

Compliant
Leading the Industry

Current has been lighting businesses for 130 years. The challenges are constantly evolving, but our products and our people continue to rise to the occasion. Our team offers expertise on everything from auditing to product selection, ensuring that you are always confident in your lighting decision.

In addition, Current delivers innovation coupled with the latest education, including lighting legislation and environmental regulations. As part of our initiatives, Current offers expansive online resources and tools to help businesses navigate the ever-changing market landscape.

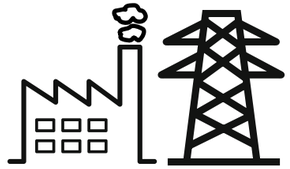
At **gecurrent.com**, you can find:

- Environmental data, regulations and certifications

A **smart** choice

Current T5 linear fluorescent lamps are a healthy choice for your budget. With system solutions that meet the Toxicity Characteristic Leaching Procedure (TCLP), we have the right selection of linear fluorescent systems for the needs of virtually any facility.

- Replace older technology to provide energy savings and lower maintenance costs.
- Re-lamp existing fixtures with energy-saving or long-life lamp options.
- Receive warranty support when using a Current UltraStart® or UltraMax® lamp and ballast system.



Did you know?

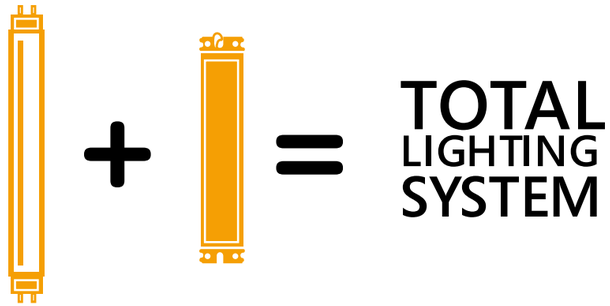
The total electrical energy used in the U.S. for lighting is equivalent to the output of about 100 large power plants. The cost is around $55 billion per year.

Source: Lighting Research Center website

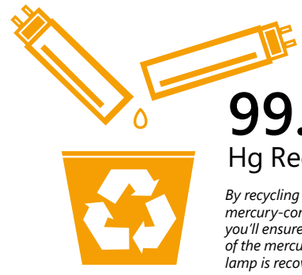
Reduce, Recover, **Recycle**

All fluorescent lamps require a very small amount of mercury to enable the lamp to operate with optimal energy efficiency and long life.

When you recycle fluorescent lamps, it allows us to recover and reuse that mercury, reducing environmental impact.



That's why Current works with recyclers who offer services for homeowners, retailers and distributors.



99.9%
Hg Recovered

By recycling a mercury-containing LFL, you'll ensure that 99.98% of the mercury used in the lamp is recovered.

Source: Based on information from ENERGY STAR® (2007) and Cain et. al. (2007).

Elevate
Comprehensive Solutions

Current offers a complete range of High Efficiency and High Output T5 lamp options. High Efficiency lamps deliver over 100 lumens per watt, giving you more light while using less energy. High Output lamps are an energy-efficient solution designed to produce the maximum amount of light.

High Efficiency and High Output T5 systems

	HIGH EFFICIENCY SYSTEMS	HIGH OUTPUT SYSTEMS
Benefits	• Smaller lamp profile allows for more aesthetic fixtures • Low operating costs • Ability to meet light needs with less glare	• Maximum light output • Lower maintenance costs and extend re-lamp cycles with longer life • Energy saving alternative to HID fixtures
When to use	• Ideal for indirect lighting applications • Low ceiling heights requiring less foot candles • Areas sensitive to glare	• Higher ceiling heights that require maximum light output
Common application/space	• Office buildings • Commercial spaces with lower ceilings	• High bay, industrial, warehouse facilities
Efficiency	• 112 lumens per watt (LPW)	• Replace HID fixtures
Rated life	• 36,000 hours	• ≥ to 60,000 hours

Where quality meets innovation

Current T5 lamps utilize the latest fluorescent technology combined with versatile design.

- Watt-Miser® lamps: Current's best fluorescent technology is at the heart of our most energy-efficient lamp, delivering the same or similar lumen output as standard fluorescent lamps with less energy used.
- covRguard® lamps: A shatter-resistant coating offers strong protection with minimum light loss. These lamps block most ultraviolet light emissions, and meet FDA, NSF and OSHA standards.

All Current T5 lamps include:

- Starcoat® technology: A proprietary coating technology that eliminates the need for traditional, lower quality halophosphor coating by reflecting the UV-light more effectively.
- Ecolux® technology: Lamps are low in mercury, TCLP-compliant and feature outstanding performance and reliability.

Customize
Variety you can rely on

Current T5 lamps are available in both High Efficiency and High Output technologies, ensuring that no matter what type of light you need, we have you covered.

The charts below show Current's T5 product offering, including standard lamps, Watt-Miser® lamps and covRguard® lamps in both High Efficiency and High Output categories.

High Efficiency

Length	Standard High Efficiency lamps	Watt-Miser® High Efficiency lamps	covRguard® High Efficiency lamps
2'	14W	13W	–
3'	21W	20W	–
4'	28W	26W	28W
5'	35W	–	–

High Output

Length	Standard High Output lamps	Watt-Miser® High Output lamps	covRguard® High Output lamps
2'	24W	–	–
3'	39W	–	–
4'	54W 54W XL (extra-life)	47W, 51W	54W

Did you know?

In 1938, GE invented the first practical low-pressure discharge lamp, now referred to as the fluorescent lamp.

Exceed
Ballast Benefits & Features

Start **Right**

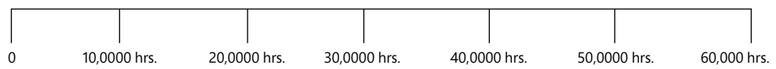
UltraStart® is a family of High Efficiency Current programmed Rapid Start ballasts with parallel operation and fast starting. They are specifically designed to optimize the performance of Current T5 lamps, providing over 100,000 starts before 50 percent lamp failure. That means your lamps last longer, and your systems remain efficient.

Did you know?

In 1938, GE showcased the first fluorescent ballast at the World's Fair in New York City.

T8 System Life Ratings

T5 LAMP TYPE		HOURS/ START*	T5 system rated life using programmed Rapid Start ballasts
High Efficiency	Standard	3 hr	30,000
		12 hr	36,000
	Watt-Miser®	3 hr	25,000
		12 hr	30,000
High Output	Standard	3 hr	30,000
		12 hr	36,000
	Watt-Miser®	3 hr	30,000
		12 hr	36,000
	Extra-Life	3 hr	50,000
		12 hr	60,000



The **UltraStart®** family

This feature-rich new generation of programmed start ballasts offer longer life in frequently switched applications common with use of sensors.

UltraStart® ballast benefits and features

BENEFITS		FEATURES	ULTRASTART®
Energy savings	• Ballast consumes <10% of the total system power	High Efficiency (>90%)	✔
	• Cuts unneeded power to lamp filaments • Operates at instant-start high-efficiency levels	Continuous cathode cutout	✔
Lamp Life	• Recommended with sensors • Extends lamp life and warranty sensors	Programmed start	✔
	• ANSI requirements <1.7 (A crest factor of 1.41 or less is optimal to extend lamp life)	Current crest factor	<1.7
	• If one lamp fails, others remain lit • Reduces spot re-lamping by 50%, group re-lamping by 15%	Parallel lamp operation	✔
Performance	• Simplifies installation, adapting to any voltage from 108V to 305V	Multi-voltage technology	✔
	• Eliminates maintenance issues caused by striating or spiraling lamps	Anti-striation control	✔
	• Important with sensors • Provides needed convenience	Fast starting time	<700ms
	• High-performance starting with F54T5HO lamps in cold temperatures	Minimum starting temperature	0˚F

Information provided is subject to change without notice. Please verify all details with Current. All values are design or typical values when measured under laboratory conditions, and Current makes no warranty or guarantee, expressed or implied, that such performance will be obtained under end-use conditions.

*Rated life is given for programmed Rapid Start ballasts. Life ratings are based on engineering data with lamps cycled every 3 or 12 operating hours.

High Efficiency Lamps

Standard												
LENGTH	NOMINAL LENGTH (IN)	WATTS	BASE	PRODUCT CODE	DESCRIPTION	CASE QTY	RATED LIFE (3 HRS/ START)*	RATED LIFE (3 HRS/ START)*	INITIAL LUMEN^	MEANS LUMEN^	COLOR TEMP (K)	CRI
2'	22	14		31590	F14W/T5/830/ECO	40	30,000	36,000	1,350	1,240	3,000	85
2'	22	14		46671	F14W/T5/835/ECO	40	30,000	36,000	1,350	1,240	3,500	85
2'	22	14		46673	F14W/T5/841/ECO	40	30,000	36,000	1,350	1,240	4,100	85
3'	33	21		46677	F21W/T5/830/ECO	40	30,000	36,000	2,100	1,930	3,000	85
3'	33	21		46684	F21W/T5/835/ECO	40	30,000	36,000	2,100	1,930	3,500	85
3'	33	21		46687	F21W/T5/841/ECO	40	30,000	36,000	2,100	1,930	4,100	85
4'	45	28		46704	F28W/T5/830/ECO	40	30,000	36,000	2,900	2,660	3,000	85
4'	45	28		46705	F28W/T5/835/ECO	40	30,000	36,000	2,900	2,660	3,500	85
4'	45	28		46706	F28W/T5/841/ECO	40	30,000	36,000	2,900	2,660	4,100	85
4'	45	28		46707	F28W/T5/850/ECO	40	30,000	36,000	2,750	2,530	5,000	85
4'	45	28		46708	F28W/T5/865/ECO	40	30,000	36,000	2,700	2,480	6,500	85
5'	57	35		46724	F35W/T5/830/ECO	40	30,000	36,000	3,650	3,350	3,000	85
5'	57	35		46727	F35W/T5/835/ECO	40	30,000	36,000	3,650	3,350	3,500	85
5'	57	35		46735	F35W/T5/841/ECO	40	30,000	36,000	3,650	3,350	4,100	85
Watt-Miser®												
2'	22	13		71633	F14T5/835/WM/ECO	40	25,000	30,000	1,350	1,240	3,500	85
2'	22	13		71634	F14T5/841/WM/ECO	40	25,000	30,000	1,350	1,240	4,100	85
3'	33	20		71638	F21T5/835/WM/ECO	40	25,000	30,000	2,100	1,930	3,500	85
4'	45	26		71643	F28T5/835/WM/ECO	40	25,000	30,000	2,900	2,660	3,500	85
4'	45	26		71644	F28T5/841/WM/ECO	40	25,000	30,000	2,900	2,660	4,100	85
covRguard®												
4'	45	28		81547	F28W/T5/835/ECO/CVG	40	30,000	36,000	2,813	2,672	3,500	85
4'	45	28		81548	F28W/T5/841/ECO/CVG	40	30,000	36,000	2,813	2,672	4,100	85

High Output Lamps

Standard												
LENGTH	NOMINAL LENGTH (IN)	WATTS	BASE	PRODUCT CODE	DESCRIPTION	CASE QTY	RATED LIFE (3 HRS/ START)*	RATED LIFE (3 HRS/ START)*	INITIAL LUMEN^	MEANS LUMEN^	COLOR TEMP (K)	CRI
2'	22	24		46699	F24W/T5/830/ECO	40	30,000	36,000	2,000	1,840	3,000	85
2'	22	24		46700	F24W/T5/835/ECO	40	30,000	36,000	2,000	1,840	3,500	85
2'	22	24		46701	F24W/T5/841/ECO	40	30,000	36,000	2,000	1,840	4,100	85
3'	33	39		46744	F39W/T5/830/ECO	40	30,000	36,000	3,500	3,220	3,000	85
3'	33	39		46745	F39W/T5/835/ECO	40	30,000	36,000	3,500	3,220	3,500	85
3'	33	39		46746	F39W/T5/841/ECO	40	30,000	36,000	3,500	3,220	4,100	85
4'	45	54		46759	F54W/T5/830/ECO	40	30,000	36,000	5,000	4,600	3,000	85
4'	45	54		46760	F54W/T5/835/ECO	40	30,000	36,000	5,000	4,600	3,500	85
4'	45	54		46761	F54W/T5/841/ECO	40	30,000	36,000	5,000	4,600	4,100	85
4'	45	54		46762	F54W/T5/850/ECO	40	30,000	36,000	4,800	4,410	5,000	85
4'	45	54		46763	F54W/T5/865/ECO	40	30,000	36,000	4,750	4,370	6,500	85
Watt-Miser®												
4'	45	51		71629	F54T5/841/WM/ECO	40	30,000	36,000	5,000	4,600	4,100	85
4'	45	51		71630	F54T5/850/WM/ECO	40	30,000	36,000	4,790	4,410	5,000	85
4'	45	47		62022	F54T5/47W/841ECO	40	30,000	36,000	4,800	4,410	4,100	84
4'	45	47		62023	F54T5/47W/850ECO	40	30,000	36,000	4,600	4,230	5,000	84

High Output Lamps Continued

Extra-Life												
LENGTH	NOMINAL LENGTH (IN)	WATTS	BASE	PRODUCT CODE	DESCRIPTION	CASE QTY	RATED LIFE (3 HRS/ START)*	RATED LIFE (3 HRS/ START)*	INITIAL LUMEN^	MEANS LUMEN^	COLOR TEMP (K)	CRI
4'	45	54		68837	F54T5/XL/835/ECO	40	50,000	60,000	5,000	4,600	3,500	84
4'	45	54		68838	F54T5/XL/841/ECO	40	50,000	60,000	5,000	4,600	4,100	84
4'	45	54		68839	F54T5/XL/850/ECO	40	50,000	60,000	4,800	4,410	5,000	84
covRguard®												
4'	45	54		48436	F54T5/835/HO/ECO/CVG	40	30,000	36,000	4,850	4,560	3,500	85
4'	45	54		48458	F54T5/841/HO/ECO/CVG	40	30,000	36,000	4,850	4,560	4,100	85
4'	45	54		80311	F54T5/850/HO/ECO/CVG	40	30,000	36,000	4,650	4,370	5,000	85

T5 High Efficiency Ballasts

2-LAMP T5 HIGH EFFICIENCY BALLASTS												
PRODUCT CODE	DESCRIPTIONS	EXTENDED DESCRIPTION	LINE VOLTS	# OF LAMPS	LAMP TYPE	INPUT WATTS	NOMINAL LINE AMPS	BALLAST FACTOR	POWER FACTOR	HARMONIC TOTAL	CREST FACTOR	MINIMUM STARTING TEMP
68993	GE228MVPS-MC	2 or 1 - F14-F35HE 120 to 277 UltraStart® PRS Normal Light 0.95 BF Mini Can	120-277	2	F14T5/WM	32	0.27/0.13	0.99	>0.99	<9%	1.5	5°F
				2	F14T5/HE	34	0.29/0.14	1.03	>0.99	<9%	1.5	5°F
				2	F21T5/WM	45	0.38/0.18	1.01	>0.99	<9%	1.5	5°F
				2	F21T5/HE	48	0.40/0.18	1.01	>0.99	<9%	1.5	5°F
				2	F28T5WM	57/58	0.48/0.21	0.95	>0.99	<9%	1.5	5°F
				2	F28T5HE	60/59	0.50/0.23	0.95	>0.99	<10%	1.6	5°F
				2	F35T5HE	74/73	0.62/0.27	0.95	>0.99	<9%	1.7	5°F

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*Rated life is given for programmed Rapid Start ballasts. Life ratings are based on engineering data with lamps cycled every 3 or 12 operating hours.
^T5 Starcoat® Ecolux® lamp initial and mean lumen ratings reflect light output at 95˚F (35˚C).
Note: All T5 lamps included in product charts have a Miniature Bi-Pin (G5) base.

T5 High Output Ballasts

4-LAMP T5 HIGH OUTPUT BALLASTS												
PRODUCT CODE	DESCRIPTIONS	EXTENDED DESCRIPTION	LINE VOLTS	# OF LAMPS	LAMP TYPE	INPUT WATTS	NOMINAL LINE AMPS	BALLAST FACTOR	POWER FACTOR	HARMONIC TOTAL	CREST FACTOR	MINIMUM STARTING TEMP
67566	GE454MVPS90-F	4-1 F54T5HO 120-277V UltraStart® High Temp	120-277	4	F54T5/47W	206/202	1.85/0.79	1	>0.98	<8%	1.4	32ºF
				4	F54T5/WM(51W)	214/210	1.79/0.78	1	>0.98	<8%	1.4	0ºF
				4	F54T5/HO	220/216	1.84/0.80	1	>0.98	<8%	1.4	- 20ºF
62731	GE454PS347-E	4-1 F54T5HO 347V UltraStart® High Temp	347	4	F54T5/47W	229	0.68	1	>0.98	<7%	1.4	0ºF
				4	F54T5/WM(51W)	219	0.65	1	>0.98	<7%	1.4	0ºF
				4	F54T5/HO	206	0.63	1	>0.98	<7%	1.4	- 20ºF
2-LAMP HIGH OUTPUT BALLASTS												
67562	GE254MVPS-A	2-1 F54T5HO 120-277V UltraStart® High Temp with lead wires	120-277	2	F54T5/47W	105/103	0.38/0.23	1	>0.96	<14%	1.4	0ºF
				2	F54T5/WM(51W)	109/107	0.40/0.25	1	>0.96	<8%	1.4	0ºF
				2	F54T5/HO	117/114	0.42/0.26	1	>0.96	<10%	1.4	- 20ºF
62728	GE254PS347/480-E	2-1 F54T5HO 347/480V UltraStart® High Temp with lead wires	347-480	2	F54T5/47W	104	0.31/0.22	1	>0.95	<8%	1.4	0ºF
				2	F54T5/WM(51W)	113	0.31/0.23	1	>0.95	<8%	1.4	0ºF
				2	F54T5/HO	118	0.32/0.26	1	>0.95	<8%	1.4	- 20ºF

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Assurance

Whether you're using our linear fluorescent systems, using our ballasts as a component, selling them across your counter, installing them at your job site or enjoying their energy-saving performance and value, Current supports you by efficiently addressing warranty issues that may arise.

You will have the **assurance** of:

- A simple, clear limited warranty
- Toll-free dedicated technical support at 1-800-327-0097
- Claim-tracking status
- Access to our national service network

Current lamp and ballast systems limited warranty summary

For full details and specific lamp cycle requirements, see the Current limited warranty, applicable to your system, lamp or ballast type.

LINEAR FLUORESCENT LAMP	LAMP WARRANTY ON CURRENT BALLASTS		
	When operated on Current programmed Rapid Start ballasts	When operated on Current Instant Start ballasts	Electronic ballast warranty
F17T8/XL; F25T8/XL; F32T8 (SP, SPP & SPX)	3 years	2.5 years	5 years
F17T8/XL/WM; F25T8/XL/WM	3 years	3 years	5 years
F32T8/XL (SP & SPX); F28T8/XL/SPP; F32T8/25W/SPP	4 years	3 years	5 years
F32T8/XL/HL	4 years	4 years	5 years
F32T8/SXL; F28T8/XL; F32T8/25W	5 years	4 years	5 years
F96T8; F96T8/HO	–	2 years	5 years
F96T8/XL (SP; SPP & SPX); F96T8/54W/SP; F96T8/XL/WMP; F96T8/49W (SPP & SPX)	–	3 years	5 years
F28WT8/HL	3 years	–	5 years
F14T8/WM; F21T8/WM; F28T8/WM; F35T8/WM	3.5 years	–	5 years
F14T8HE; F21T8HE; F28T8HE; F35T8HE; F24T8HO; F54T8/WM; F54T8/47W; F39T8HO; F80T8HO	4 years	–	5 years
F54T8/XL	5 years	–	5 years

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Experience **efficiency** and **energy savings** the moment you turn on **Current T5 linear fluorescent systems.**

When the right lighting illuminates your space, you notice the difference – in productivity and in your energy bill. That's why Current offers energy-efficient T5 linear fluorescent systems that are long-lasting and smart for your budget. Not only do workers have more time to get their jobs done, you experience the financial benefits of environmentally-sound lighting.

Our T5 linear fluorescent systems can change the way you light your space. To find out more and schedule your free lighting audit, visit **gecurrent.com/LFL.**

ENERGY STAR® and NEMA Premium® are registered US marks.

Lamps Contains Mercury
Manage in Accord with Disposal Laws

See: www.lamprecycle.org or 1-800-327-0097

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