

# Fluorescent Lighting

High performance,  
energy-efficient,  
long life lamps

勝特力材料 886-3-5753170  
勝特力电子(上海) 86-21-54151736  
勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)

**Philips T5 Fluorescent Lamps** are incredibly powerful, environmentally-responsible, long life lamps with an ultra-slim profile. This translates into reduced maintenance and disposal costs and also allows the use of smaller fixtures—which reduces ceiling clutter. For the longest life in this lamp family, Philips SILHOUETTE™ Long Life T5 High Output lamps have a rated average life of 35,000 hours based on 12 hours per start!†

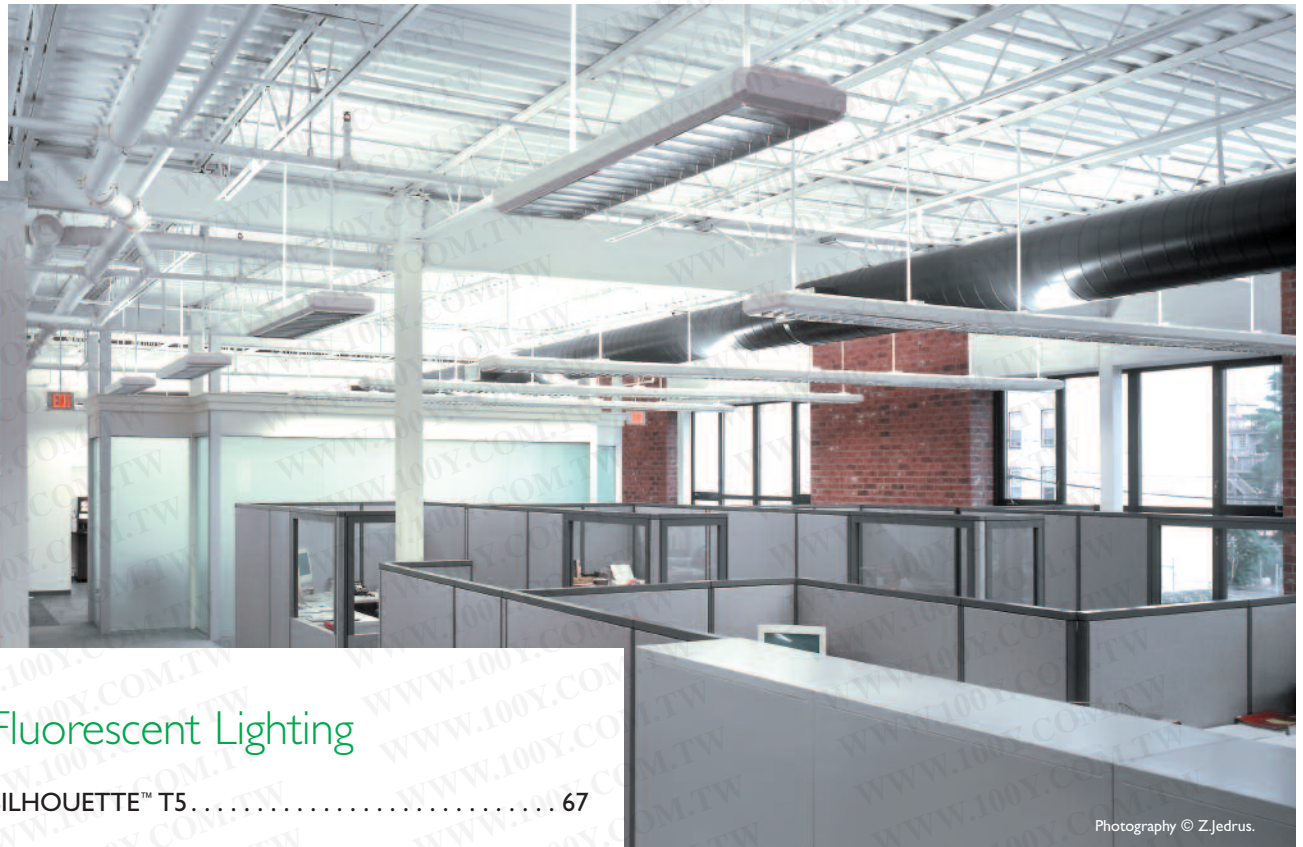
**Philips T8 Fluorescent Lamps** provide long life and high performance, which translates into reduced maintenance and disposal costs. ALTO® lamps are low mercury and TCLP-compliant††. This makes them a sustainable lighting solution, since less mercury combined with energy efficiency, reduces the impact on the environment. Hi-Vision® Phosphor combined with Philips' exclusive cathode guard delivers 95% lumen maintenance and reduced lamp-end blackening.

**Philips T12 Fluorescent Lamps** provide high-performance and long life in a wide range of sizes, shapes, and types. The Advantage T12 series of lamps provide ultimate performance with long life (24,000 hour rated average life), 85 CRI, and the highest lumen output (3600 initial lumens) of any 40-watt four-foot T12 lamp available.

† Average life under engineering data with lamps turned off and restarted once every 12 operating hours.

†† The TCLP is the US EPA's Toxicity Characteristic Leaching Procedure.





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# Fluorescent Lighting

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# Philips SILHOUETTE™ Long Life & Standard T5 Lamps featuring ALTO® Lamp Technology

SILHOUETTE T5 High Output Fluorescent Lamps:  
 Powerful, Environmentally-Responsible Ultra-Slim Lamps

Miniaturization: Slim Profile Lamp and Ballast

Operates on Programmed Start Electronic Ballasts

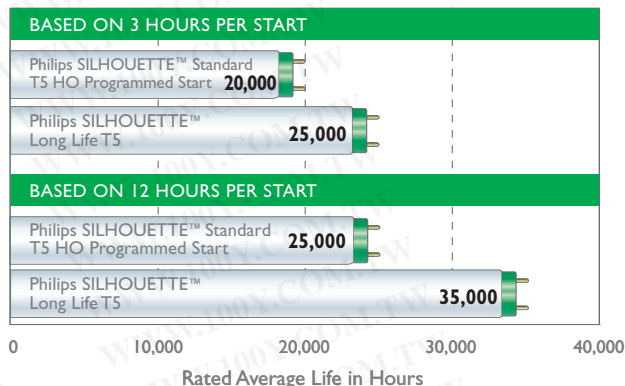
Environmentally Responsible: Low mercury—TCLP\*-compliant;  
 energy efficient; long life

Sustainable Lighting Solution: Less mercury combined with energy  
 efficiency reduces the impact on the environment

Ideal for: Medium and High Bay Retail; Industrial Applications

Look for the Green End Caps®: Our Green End-Caps mean you  
 are using ALTO® environmentally-responsible lamps

Philips SILHOUETTE™ Long Life and  
 Standard T5 Lamp Rated Average Life



**SILHOUETTE Long Life T5  
 Warranty Period: 36 months**

**SILHOUETTE T5 Warranty Period: 24 months**

Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty.	Description	Nom. Length (In.)	Rated Avg. Life, Hrs. 3-Hr. Start (202)	12-Hr. Start (241)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
<b>SILHOUETTE™ Long Life T5 High Output Fluorescent Lamps</b> T5 Miniature Bipin; Programmed Start											
54	29026-2	ⓔ Ⓢ	F54T5/830/HO/ALTO	40	TL 830, 3000K	46	25,000	35,000	5000	4750	85
	29028-8	ⓔ Ⓢ	F54T5/835/HO/ALTO	40	TL 835, 3500K	46	25,000	35,000	5000	4750	85
	29083-3	ⓔ Ⓢ	F54T5/841/HO/ALTO	40	TL 841, 4100K	46	25,000	35,000	5000	4750	85
	13510-3	ⓔ Ⓢ	F54T5/850/HO/ALTO	40	TL 850, 5000K	46	25,000	35,000	4850	4625	85
	14745-4	ⓔ Ⓢ	F54T5/865/HO/ALTO	40	TL 865, 6500K	46	25,000	35,000	4750	4500	85

Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty.	Description	Nom. Length (In.)	Rated Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
<b>SILHOUETTE Series 2'-5' T5 Fluorescent Lamps</b> T5 Miniature Bipin; Programmed Start										
14	23077-1	Ⓢ	F14T5/830/ALTO	40	TL 830, 3000K	22	20,000	1350	1275	85
	23079-7	Ⓢ	F14T5/835/ALTO	40	TL 835, 3500K	22	20,000	1350	1275	85
	23080-5	Ⓢ	F14T5/841/ALTO	40	TL 841, 4100K	22	20,000	1350	1275	85
21	23081-3	Ⓢ	F21T5/830/ALTO	40	TL 830, 3000K	34	20,000	2100	2000	85
	23082-1	Ⓢ	F21T5/835/ALTO	40	TL 835, 3500K	34	20,000	2100	2000	85
	23083-9	Ⓢ	F21T5/841/ALTO	40	TL 841, 4100K	34	20,000	2100	2000	85
28	23084-7	ⓔ Ⓢ	F28T5/830/ALTO	40	TL 830, 3000K	46	20,000	2900	2750	85
	23085-4	ⓔ Ⓢ	F28T5/835/ALTO	40	TL 835, 3500K	46	20,000	2900	2750	85
	23086-2	ⓔ Ⓢ	F28T5/841/ALTO	40	TL 841, 4100K	46	20,000	2900	2750	85
35	23088-8	Ⓢ	F35T5/830	40	TL 830, 3000K	58	20,000	3650	3450	85
	23091-2	Ⓢ	F35T5/835	40	TL 835, 3500K	58	20,000	3650	3450	85
	23095-3	Ⓢ	F35T5/841	40	TL 841, 4100K	58	20,000	3650	3450	85

Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty.	Description	Nom. Length (In.)	Rated Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
<b>SILHOUETTE Series 2'-5' T5 High Output Fluorescent Lamps</b> T5 Miniature Bipin; Programmed Start										
24	29019-7	Ⓢ	F24T5/830/HO/ALTO	40	TL 830, 3000K	22	20,000	2000	1900	85
	29020-5	Ⓢ	F24T5/835/HO/ALTO	40	TL 835, 3500K	22	20,000	2000	1900	85
	29021-3	Ⓢ	F24T5/841/HO/ALTO	40	TL 841, 4100K	22	20,000	2000	1900	85
39	29022-1	Ⓢ	F39T5/830/HO/ALTO	40	TL 830, 3000K	34	20,000	3500	3325	85
	29023-9	Ⓢ	F39T5/835/HO/ALTO	40	TL 835, 3500K	34	20,000	3500	3325	85
	29025-4	Ⓢ	F39T5/841/HO/ALTO	40	TL 841, 4100K	34	20,000	3500	3325	85
80	29084-1	Ⓢ	F80T5/830/HO	40	TL 830, 3000K	58	20,000	7000	6650	85
	14744-7	Ⓢ	F80T5/835/HO	40	TL 835, 3000K	58	20,000	7000	6650	85
	29088-2	Ⓢ	F80T5/841/HO	40	TL 841, 4100K	58	20,000	7000	6650	85

For the most current product information, go to the e-catalog on [www.philips.com](http://www.philips.com)

Fluorescent symbols and footnotes located on page 87

□ This product utilizes ALTO® Lamp Technology

\* The TCLP is the US EPA's Toxicity Characteristic Leaching Procedure.

# T5 Fluorescent Lamps

Colored High Output, SILHOUETTE™ Circular, SILHOUETTE™ High Output Circular, Preheat

Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty. *	Description	Nom. Length (In.)	Rated Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
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## Colored—Linear Fluorescent Lamps—T5 High Output

<b>24</b>	14637-3	± \$	<b>F24T5/Red/HO</b>	15	TL5HO Colored Pro 24W/150 Red	22	12,000	1540	N/A	N/A
	14638-1	± \$	<b>F24T5/Green/HO</b>	15	TL5HO Colored Pro 24W/170 Green	22	12,000	3000	N/A	N/A
	14639-9	± \$	<b>F24T5/Blue/HO</b>	15	TL5HO Colored Pro 24W/180 Blue	22	12,000	600	N/A	N/A
<b>54</b>	14640-7	± \$	<b>F54T5/Red/HO</b>	15	TL5HO Colored Pro 54W/150 Red	46	12,000	3800	N/A	N/A
	14641-5	± \$	<b>F54T5/Green/HO</b>	15	TL5HO Colored Pro 54W/170 Green	46	12,000	7590	N/A	N/A
	14642-3	± \$	<b>F54T5/Blue/HO</b>	15	TL5HO Colored Pro 54W/180 Blue	46	12,000	1650	N/A	N/A

NEW!

## SILHOUETTE™ Series T5 Circular Fluorescent Lamps 2GX13 Base; Programmed Start

<b>22</b>	16601-7	± \$	<b>TL5C 22W/830</b>	10	Formerly FC9T5/830	9 OD	16,000	1800	1530	85
	14856-9	± \$	<b>TL5C 22W/835</b>	10	Formerly FC9T5/835	9 OD	16,000	1800	1530	85
	16600-9	± \$	<b>TL5C 22W/840</b>	10	Formerly FC9T5/841	9 OD	16,000	1800	1530	85
<b>40</b>	16596-8	± \$	<b>TL5C 40W/830</b>	10	Formerly FC12T5/830	12 OD	16,000	3300	2805	85
	14859-3	± \$	<b>TL5C 40W/835</b>	10	Formerly FC12T5/835	12 OD	16,000	3300	2805	85
	16598-4	± \$	<b>TL5C 40W/840</b>	10	Formerly FC12T5/841	12 OD	16,000	3300	2805	85

NEW!

## SILHOUETTE Series T5 High Output Circular Fluorescent Lamps 2GX13 Base; Programmed Start

<b>55</b>	16593-6	± \$	<b>TL5C 55W/830</b>	10	Formerly FC12T5/830/HO	12 OD	16,000	4200	3580	85
	14862-7	± \$	<b>TL5C 55W/835</b>	10	FC12T5/835/HO	12 OD	16,000	4200	3580	85
	16592-8	± \$	<b>TL5C 55W/840</b>	10	Formerly FC12T5/841/HO	12 OD	16,000	4200	3580	85

NEW!

## SILHOUETTE™ Series T5 Circular Fluorescent Lamps 2GX13 Base; Programmed Start

<b>22</b>	29010-6	X \$	<b>FC9T5/830</b>	10	TL 830, 3000K	9 OD	16,000	1800	1530	85
	29011-4	X \$	<b>FC9T5/835</b>	10	TL 835, 3500K	9 OD	16,000	1800	1530	85
	29012-2	X \$	<b>FC9T5/841</b>	10	TL 841, 4100K	9 OD	16,000	1800	1530	85
<b>40</b>	29014-8	X \$	<b>FC12T5/830</b>	10	TL 830, 3000K	12 OD	16,000	3300	2805	85
	29016-3	X \$	<b>FC12T5/835</b>	10	TL 835, 3500K	12 OD	16,000	3300	2805	85
	29017-1	X \$	<b>FC12T5/841</b>	10	TL 841, 4100K	12 OD	16,000	3300	2805	85

## SILHOUETTE Series T5 High Output Circular Fluorescent Lamps 2GX13 Base; Programmed Start

<b>55</b>	38479-2	X \$	<b>FC12T5/830/HO</b>	10	TL 830, 3000K	12 OD	16,000	4400	3750	85
	38480-0	X \$	<b>FC12T5/841/HO</b>	10	TL 841, 4100K	12 OD	16,000	4400	3750	85

## Preheat Fluorescent Lamps T5 Miniature Bipin; Requires Use of Starters

<b>4</b>	33236-1		<b>F4T5/CW</b>	25	Cool White, 4100K	6	6000	135	95	62
	33241-1		<b>F6T5/CW</b>	25	Cool White, 4100K	9	7500	295	230	62
<b>6</b>	33242-9		<b>F6T5/D</b>	25	Daylight, 6500K	9	7500	230	180	79
	33252-8		<b>F8T5/WW</b>	25	Warm White, 3000K	12	7500	400	300	53
	33247-8		<b>F8T5/CW</b>	25	Cool White, 4100K	12	7500	400	300	62
<b>8</b>	20702-7		<b>F8T5/30U</b>	25	Ultralume, 3000K	12	7500	450	360	85
	33249-4		<b>F8T5/D</b>	25	Daylight, 6500K	12	7500	330	265	79
	33253-6		<b>F13T5/CW</b>	25	Cool White, 4100K	21	7500	820	655	62
<b>13</b>	20703-5		<b>F13T5/30U</b>	25	Ultralume, 3000K	21	7500	1000	800	85

For the most current product information, go to the e-catalog on [www.philips.com](http://www.philips.com)

Fluorescent symbols and footnotes located on page 87

± Available Q1, 2006

X Orders will be shipped until inventory is depleted; no longer manufactured

## T5 Lumens at 35°C and 25°C

LAMP TYPE	APPROX. INITIAL LUMENS AT 35°C (203, 204)	APPROX. INITIAL LUMENS AT 25°C (203, 204)
F14T5	1350	1200
F21T5	2100	1900
F28T5	2900	2600
F35T5	3650	3300
F24T5/HO	2000	1800
F39T5/HO	3500	3150
F54T5/HO	5000	4500
F80T5/HO	7000	6300

## SILHOUETTE and SILHOUETTE High Output Dimensions (226)

TYPE	A MAX.		B MIN.		B MAX.		C MAX.	
	inches	mm	inches	mm	inches	mm	inches	mm
T5 14W/24W	21.61	549.0	21.80	553.7	21.89	556.1	22.17	563.2
T5 21W/39W	33.42	849.0	33.61	853.7	33.70	856.1	33.98	863.2
T5 28W/54W	45.24	1149.0	45.42	1153.7	45.52	1156.1	45.80	1163.2
T5 35W/80W	57.05	1449.0	57.23	1453.7	57.33	1456.1	57.61	1463.2

# Philips Universal T8 Lamps featuring ALTO® Lamp Technology

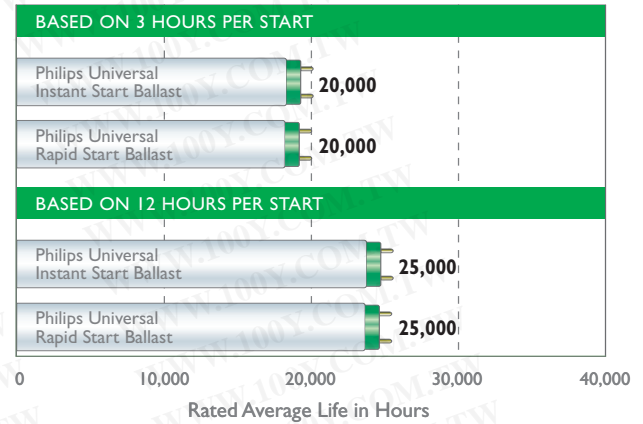
**Philips Exclusive Universal Design:** The only T8 lamps to deliver full rated average life on all T8 ballast types (Instant Start, Rapid Start, Programmed Start and Hybrid ballasts)

**Outstanding Lumen Maintenance:** HI-VISION® Phosphor combined with Philips exclusive cathode guard delivers 95% lumen maintenance and reduced lamp-end blackening

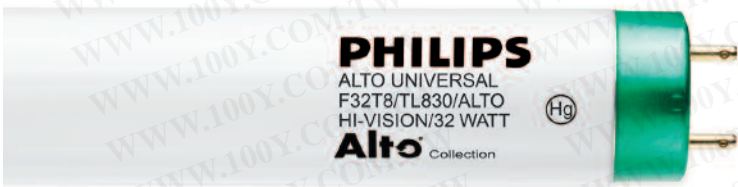
**Enhanced CRI:** 85 CRI for TL80 lamps; 78 CRI for TL70 lamps

**Ideal for:** Any application requiring maximum quality of light and maintained light output

Philips Universal T8 Lamp Rated Average Life



**Philips Universal T8 Warranty Period: 24 months**



Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty.	Description	Nom. Length (In.)	Rated Avg. Life, Hrs.		Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
							3-Hr. Start (202)	12-Hr. Start (241)			
<b>Universal T8 Fluorescent Lamps T8 Medium Bipin</b>											
<b>17</b>	36787-0	\$	<b>F17T8/TL830/ALTO</b>	25	TL 830, 3000K	24	20,000	25,000	1400	1300	85
	36791-2	\$	<b>F17T8/TL835/ALTO</b>	25	TL 835, 3500K	24	20,000	25,000	1400	1300	85
	36793-8	\$	<b>F17T8/TL841/ALTO</b>	25	TL 841, 4100K	24	20,000	25,000	1400	1300	85
	14123-4	\$	<b>F17T8/TL850/ALTO</b>	25	TL 850, 5000K	24	20,000	25,000	1400	1300	85
	36807-6	\$	<b>F17T8/TL730/ALTO</b>	25	TL 730, 3000K	24	20,000	25,000	1325	1200	78
	36808-4	\$	<b>F17T8/TL735/ALTO</b>	25	TL 735, 3500K	24	20,000	25,000	1325	1200	78
	36812-6	\$	<b>F17T8/TL741/ALTO</b>	25	TL 741, 4100K	24	20,000	25,000	1325	1200	78
<b>25</b>	36813-4	\$	<b>F25T8/TL830/ALTO</b>	25	TL 830, 3000K	36	20,000	25,000	2225	2050	85
	36814-2	\$	<b>F25T8/TL835/ALTO</b>	25	TL 835, 3500K	36	20,000	25,000	2225	2050	85
	36825-8	\$	<b>F25T8/TL841/ALTO</b>	25	TL 841, 4100K	36	20,000	25,000	2225	2050	85
	14124-2	\$	<b>F25T8/TL850/ALTO</b>	25	TL 850, 5000K	36	20,000	25,000	2225	2050	85
	36826-6	\$	<b>F25T8/TL730/ALTO</b>	25	TL 730, 3000K	36	20,000	25,000	2125	1925	78
	36828-2	\$	<b>F25T8/TL735/ALTO</b>	25	TL 735, 3500K	36	20,000	25,000	2125	1925	78
	36829-0	\$	<b>F25T8/TL741/ALTO</b>	25	TL 741, 4100K	36	20,000	25,000	2125	1925	78
<b>32</b>	24667-8	ⓔ	<b>F32T8/TL830/ALTO</b>	25	TL 830, 3000K	48	20,000	25,000	2950	2800	85
	27236-9	ⓔ	<b>F32T8/TL830/ALTO PLZ</b>	1350	TL 830, 3000K	48	20,000	25,000	2950	2800	85
	24670-2	ⓔ	<b>F32T8/TL835/ALTO</b>	25	TL 835, 3500K	48	20,000	25,000	2950	2800	85
	27233-6	ⓔ	<b>F32T8/TL835/ALTO PLZ</b>	1350	TL 835, 3500K	48	20,000	25,000	2950	2800	85
	24671-0	ⓔ	<b>F32T8/TL841/ALTO</b>	25	TL 841, 4100K	48	20,000	25,000	2950	2800	85
	27235-1	ⓔ	<b>F32T8/TL841/ALTO PLZ</b>	1350	TL 841, 4100K	48	20,000	25,000	2950	2800	85
	27229-4	ⓔ	<b>F32T8/TL850/ALTO</b>	25	TL 850, 5000K	48	20,000	25,000	2950	2800	85
	27252-6	ⓔ	<b>F32T8/TL730 ALTO</b>	25	TL 730, 3000K	48	20,000	25,000	2800	2660	78
	27282-3	ⓔ	<b>F32T8/TL730/ALTO PLZ</b>	1350	TL 730, 3000K	48	20,000	25,000	2800	2660	78
	27249-2	ⓔ	<b>F32T8/TL735/ALTO</b>	25	TL 735, 3500K	48	20,000	25,000	2800	2660	78
	27259-1	ⓔ	<b>F32T8/TL735/ALTO PLZ</b>	1350	TL 735, 3500K	48	20,000	25,000	2800	2660	78
	27248-4	ⓔ	<b>F32T8/TL741/ALTO</b>	25	TL 741, 4100K	48	20,000	25,000	2800	2660	78
	38351-3	ⓔ	<b>F32T8/TL741/ALTO</b>	10	TL 741, 4100K, 10PK	48	20,000	25,000	2800	2660	78
	27255-9	ⓔ	<b>F32T8/TL741/ALTO PLZ</b>	1350	TL 741, 4100K	48	20,000	25,000	2800	2660	78
	27268-2	ⓔ	<b>F32T8/TL750/ALTO</b>	25	TL 750, 5000K	48	20,000	25,000	2700	2550	78

For the most current product information, go to the e-catalog on [www.philips.com](http://www.philips.com)

Fluorescent symbols and footnotes located on page 87

☐ This product utilizes ALTO® Lamp Technology

\* The TCLP is the US EPA's Toxicity Characteristic Leaching Procedure.

# T8 Fluorescent Lamps

PLUS

勝特力材料 886-3-5753170  
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## Philips PLUS T8 Lamps featuring ALTO® Lamp Technology

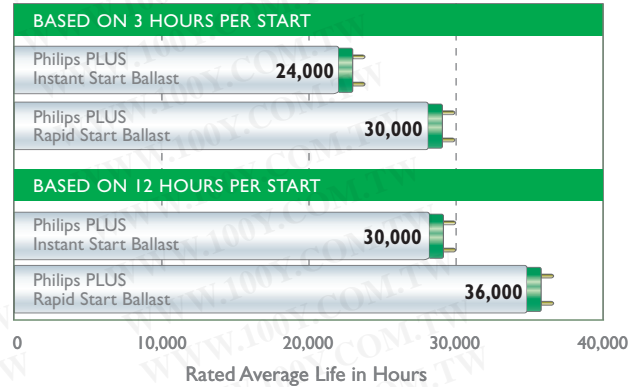
**Long Life:** 36,000 hours rated average life at 12 hours per start (see footnote 241); 50% more life than standard F32T8 lamps means reduced maintenance and disposal costs

**Outstanding Lumen Maintenance:** HI-VISION® Phosphor combined with Philips exclusive cathode guard delivers 95% lumen maintenance and reduced lamp-end blackening

**Enhanced CRI:** 85 CRI for TL80 lamps; 78 CRI for TL70 lamps

**Ideal for:** Any application requiring long life

Philips PLUS T8 Lamp Rated Average Life



**Philips PLUS T8 Warranty Period: 30 months**



Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty.	Description	Nom. Length (In.)	Rated Avg. Life, Hrs.		Approx. Initial Lumens (203, 204)	Design Lumens (208, 239)	CRI
							3-Hr. Start (202)	12-Hr. Start (241)			
<b>PLUS T8 Fluorescent Lamps</b> T8 Medium Bipin Featuring HI-VISION® Phosphor											
15	38419-8	ⓔ Ⓞ Ⓢ	<b>F15T8/TL865/PLUS/ALTO</b>	24	TL 865, 6500K	18	24,000	30,000	975	925	85
17	14552-4	ⓔ Ⓢ	<b>F17T8/TL830/PLUS/ALTO</b>	25	TL 830, 3000K	24	24,000	30,000	1400	1300	85
	14553-2	ⓔ Ⓢ	<b>F17T8/TL835/PLUS/ALTO</b>	25	TL 835, 3500K	24	24,000	30,000	1400	1300	85
	14554-0	ⓔ Ⓢ	<b>F17T8/TL841/PLUS/ALTO</b>	25	TL 841, 4100K	24	24,000	30,000	1400	1300	85
	14555-7	ⓔ Ⓢ	<b>F17T8/TL850/PLUS/ALTO</b>	25	TL 850, 5000K	24	24,000	30,000	1325	1225	85
	38215-0	ⓔ Ⓢ	<b>F17T8/TL865/PLUS/ALTO</b>	25	TL 865, 6500K	24	24,000	30,000	1300	1235	85
25	14556-5	ⓔ Ⓢ	<b>F25T8/TL830/PLUS/ALTO</b>	25	TL 830, 3000K	36	24,000	30,000	2225	2050	85
	14557-3	ⓔ Ⓢ	<b>F25T8/TL835/PLUS/ALTO</b>	25	TL 835, 3500K	36	24,000	30,000	2225	2050	85
	14558-1	ⓔ Ⓢ	<b>F25T8/TL841/PLUS/ALTO</b>	25	TL 841, 4100K	36	24,000	30,000	2225	2050	85
	14559-9	ⓔ Ⓢ	<b>F25T8/TL850/PLUS/ALTO</b>	25	TL 850, 5000K	36	24,000	30,000	2125	2000	85
	38258-0	ⓔ Ⓢ	<b>F25T8/TL865/PLUS/ALTO</b>	25	TL 865, 6500K	36	24,000	30,000	2150	2040	85
32	36000-8	ⓔ Ⓢ	<b>F32T8/TL830/PLUS/ALTO</b>	25	TL 830, 3000K	48	30,000	36,000	2950	2800	85
	36001-6	ⓔ Ⓢ	<b>F32T8/TL835/PLUS/ALTO</b>	25	TL 835, 3500K	48	30,000	36,000	2950	2800	85
	36002-4	ⓔ Ⓢ	<b>F32T8/TL841/PLUS/ALTO</b>	25	TL 841, 4100K	48	30,000	36,000	2950	2800	85
	13686-1	ⓔ Ⓢ	<b>F32T8/TL841/PLUS/ALTO PLZ</b>	1350	TL 841, 4100K	48	30,000	36,000	2950	2800	85
	36003-2	ⓔ Ⓢ	<b>F32T8/TL850/PLUS/ALTO</b>	25	TL 850, 5000K	48	30,000	36,000	2950	2800	85
	38261-4	ⓔ Ⓢ	<b>F32T8/TL865/PLUS/ALTO</b>	25	TL 865, 6500K	48	30,000	36,000	2800	2660	85
	36004-0	ⓔ Ⓢ	<b>F32T8/TL730/PLUS/ALTO</b>	25	TL 730, 3000K	48	30,000	36,000	2800	2660	78
	36005-7	ⓔ Ⓢ	<b>F32T8/TL735/PLUS/ALTO</b>	25	TL 735, 3500K	48	30,000	36,000	2800	2660	78
	38383-6	ⓔ Ⓢ	<b>F32T8/TL735/PLUS/ALTO PLZ</b>	1350	TL 735, 3500K	48	30,000	36,000	2800	2660	78
	36013-1	ⓔ Ⓢ	<b>F32T8/TL741/PLUS/ALTO</b>	25	TL 741, 4100K	48	30,000	36,000	2800	2660	78
	38384-4	ⓔ Ⓢ	<b>F32T8/TL741/PLUS/ALTO PLZ</b>	1350	TL 741, 4100K	48	30,000	36,000	2800	2660	78
36014-9	ⓔ Ⓢ	<b>F32T8/TL750/PLUS/ALTO</b>	25	TL 750, 5000K	48	30,000	36,000	2700	2550	78	

For the most current product information, go to the e-catalog on [www.philips.com](http://www.philips.com)

Fluorescent symbols and footnotes located on page 87

☐ This product utilizes ALTO® Lamp Technology

\* The TCLP is the US EPA's Toxicity Characteristic Leaching Procedure.

### Philips Advantage T8 Lamps featuring ALTO® Lamp Technology

**High Performance:** 3100 approximate initial lumens is 10% more than standard T8 lamps

**Long Life:** 36,000 hours rated average life at 12 hours per start (see footnote 241); 50% more life than standard F32T8 lamps means reduced maintenance and disposal costs

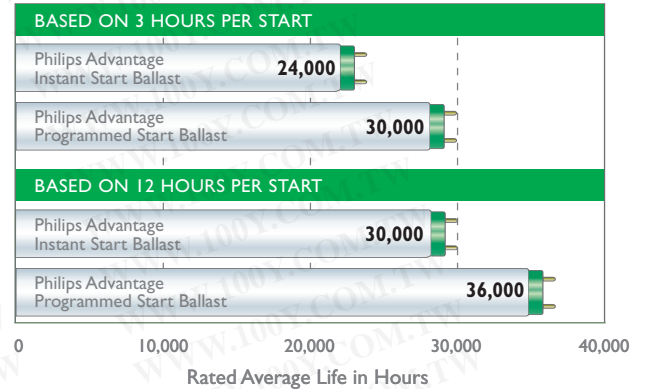
**Ultimate System Solution:** Higher lumens enables multiple system options to maximize energy saving and reduce lighting costs; fully dimmable without burn-in; ideal for light harvesting

**Outstanding Lumen Maintenance:** HI-VISION® Phosphor combined with Philips exclusive cathode guard delivers 95% lumen maintenance and reduced lamp-end blackening

**Enhanced CRI:** 85 CRI

**Ideal for:** T8 applications requiring maximum quality of light and maintained light output

Philips Advantage T8 Lamp Rated Average Life



**Philips Advantage T8 Warranty Period: 36 months**



Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty. • Description	Nom. Length (In.)	Rated Avg. Life, Hrs.		Approx. Initial Lumens (203, 204)	Design Lumens (208, 239)	CRI
						3-Hr. Start (202)	12-Hr. Start (241)			
<b>Advantage T8 Fluorescent Lamps</b> T8 Medium Bipin Featuring HI-VISION® Phosphor										
32	13987-3	(E) (U) (\$)	<b>F32T8/ADV830/ALTO</b>	25 Advantage 830, 3000K	48	30,000	36,000	3100	2950	85
	13988-1	(E) (U) (\$)	<b>F32T8/ADV835/ALTO</b>	25 Advantage 835, 3500K	48	30,000	36,000	3100	2950	85
	13989-9	(E) (U) (\$)	<b>F32T8/ADV841/ALTO</b>	25 Advantage 841, 4100K	48	30,000	36,000	3100	2950	85
	13990-7	(E) (U) (\$)	<b>F32T8/ADV850/ALTO</b>	25 Advantage 850, 5000K	48	30,000	36,000	3025	2875	85

#### Advantage T8 Systems vs. Standard T8 Systems

Energy Savings: 2 Lamp vs. 2 Lamp System							Energy Savings: 2 Lamp vs. 3 Lamp System						
Electronic Ballast	Ballast Factor	No. of Lamps	Lamp Watts	Standard T8 Lumens	Advantage T8 Lumens	System Watts Savings	Electronic Ballast	Ballast Factor	No. of Lamps	Lamp Watts	Standard T8 Lumens	Advantage T8 Lumens	System Watts Savings
Standard T8	0.87	2	32	2850		58	Standard T8	0.87	3	32	2850		88
Reduced Light Output T8	0.75	2	32		3100	\$2.80/yr	Increased Light Output T8	1.20	2	32		3100	78 \$4.00/yr

#### Combine Advantage T8 lamps with Reduced Light Output Electronic Ballasts, with these Results:

- ▶ Produce comparable light output
- ▶ Save 7 system watts vs. standard T8 system
- ▶ Save \$2.80 per fixture per year
- ▶ Energy savings based on 4000 hrs/yr @ \$.10 kw/hr

#### Combine Advantage T8 Lamps with Increased Light Output Ballasts. A 2 Lamp Advantage T8 System vs. a 3 Lamp Standard T8 System will:

- ▶ Produce comparable light output
- ▶ Save 10 system watts
- ▶ Save \$4.00 per fixture per year
- ▶ Energy savings based on 4000 hrs/yr @ \$.10 kw/hr
- ▶ Reduce lighting installation costs (lamps, ballasts, fixtures and labor)
- ▶ Philips Advantage T8 lamps operate on ballast with ballast factors up to 1.32 with warranty intact

For the most current product information, go to the e-catalog on [www.philips.com](http://www.philips.com)

Fluorescent symbols and footnotes located on page 87

This product utilizes ALTO® Lamp Technology

\* The TCLP is the US EPA's Toxicity Characteristic Leaching Procedure.

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**勝特力电子(上海) 86-21-54151736**  
**勝特力电子(深圳) 86-755-83298787**  
[Http://www.100y.com.tw](http://www.100y.com.tw)

# T8 Fluorescent Lamps

Energy Advantage Long Life 25W, 28W and 30W

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## Philips Energy Advantage Long Life 25W, 28W and 30W T8 Lamps featuring ALTO® Lamp Technology

**25 Watt T8 Lamp vs. Standard F32T8 Lamp:** Save 7 watts per lamp instantly and up to 25% in energy costs; save \$21.00 in energy costs over the rated average lamp life†

**Optimum Lamp Life:** When operated on Advance's Optanium™ Programmed Start Ballast

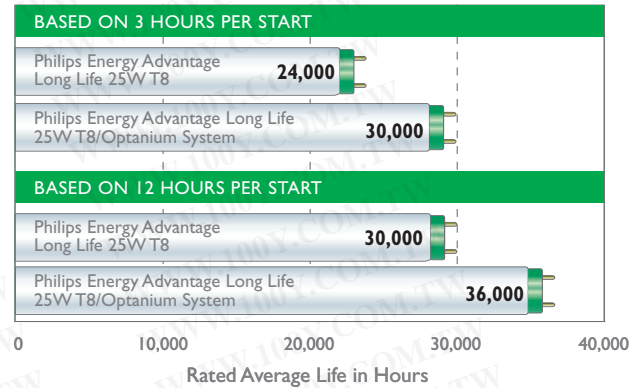
**Operates on:** Any Instant Start Ballast; Programmed Start Ballast that supplies equal to or greater than 550 starting voltage

**Sustainable Lighting Solution:** Less mercury combined with energy efficiency reduces the impact on the environment

**Ideal for:** Applications requiring the ultimate energy savings

† Based on 30,000 hour rated average life @ .10¢ per KWH @ 12 hours per start on an instant start ballast.

Philips Energy Advantage Long Life 25W, 28W and 30W T8 Lamp Rated Average Life



**Philips Energy Advantage Long Life T8 Warranty Period: 30 months**



Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty. *	Description	Nom. Length (In.)	Rated Avg. Life, Hrs.		Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
							3-Hr. Start (202)	12-Hr. Start (241)			
<b>Energy Advantage T8 Long Life 25 Watt Fluorescent Lamps</b> T8 Medium Bipin Featuring HI-VISION® Phosphor											
25	13781-0	ⓔ\$	<b>F32T8/ADV830/XEW/LL/ALTO</b>	25	Advantage 830, 3000K	48	24,000	30,000	2400	2280	85
			<b>25 Watt</b>								
	13782-8	ⓔ\$	<b>F32T8/ADV835/XEW/LL/ALTO</b>	25	Advantage 835, 3500K	48	24,000	30,000	2400	2280	85
			<b>25 Watt</b>								
	13783-6	ⓔ\$	<b>F32T8/ADV841/XEW/LL/ALTO</b>	25	Advantage 841, 4100K	48	24,000	30,000	2400	2280	85
			<b>25 Watt</b>								
	13784-4	ⓔ\$	<b>F32T8/ADV850/XEW/LL/ALTO</b>	25	Advantage 850, 5000K	48	24,000	30,000	2300	2180	85
			<b>25 Watt</b>								
<b>Energy Advantage T8 Long Life 28 Watt Fluorescent Lamps</b> T8 Medium Bipin Featuring HI-VISION® Phosphor											
28	14732-2	ⓔ\$	<b>F32T8/ADV830/EW/LL/ALTO</b>	25	Advantage 830, 3000K	48	24,000	30,000	2725	2555	85
			<b>28 Watt</b>								
	14733-0	ⓔ\$	<b>F32T8/ADV835/EW/LL/ALTO</b>	25	Advantage 835, 3500K	48	24,000	30,000	2725	2555	85
			<b>28 Watt</b>								
	14734-8	ⓔ\$	<b>F32T8/ADV841/EW/LL/ALTO</b>	25	Advantage 841, 4100K	48	24,000	30,000	2725	2555	85
			<b>28 Watt</b>								
	14735-5	ⓔ\$	<b>F32T8/ADV850/EW/LL/ALTO</b>	25	Advantage 850, 5000K	48	24,000	30,000	2625	2470	85
			<b>28 Watt</b>								
<b>Energy Advantage T8 Long Life 30 Watt Fluorescent Lamps</b> T8 Medium Bipin Featuring HI-VISION® Phosphor											
30	14771-0	ⓔ\$	<b>F32T8/ADV830/EW/LL/ALTO</b>	25	Advantage 830, 3000K	48	24,000	30,000	2850	2700	85
			<b>30 Watt</b>								
	14772-8	ⓔ\$	<b>F32T8/ADV835/EW/LL/ALTO</b>	25	Advantage 835, 3500K	48	24,000	30,000	2850	2700	85
			<b>30 Watt</b>								
	14773-6	ⓔ\$	<b>F32T8/ADV841/EW/LL/ALTO</b>	25	Advantage 841, 4100K	48	24,000	30,000	2850	2700	85
			<b>30 Watt</b>								
	14774-4	ⓔ\$	<b>F32T8/ADV850/EW/LL/ALTO</b>	25	Advantage 850, 5000K	48	24,000	30,000	2850	2700	85
			<b>30 Watt</b>								

For the most current product information, go to the e-catalog on [www.philips.com](http://www.philips.com)

Fluorescent symbols and footnotes located on page 87

□ This product utilizes ALTO® Lamp Technology

\* The TCLP is the US EPA's Toxicity Characteristic Leaching Procedure.

# T8 Fluorescent Lamps

## Rapid Start, U-Bent Rapid Start, Preheat

Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty.	Description	Nom. Length (In.)	Rated Avg. Life, Hrs. 3-Hr. Start (202)	12-Hr. Start (241)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
<b>Rapid Start Fluorescent Lamps</b> T8 Medium Bipin; High CRI											
17	22154-9	\$	F17T8/TL950	25	TL 950, 5000K	24	20,000	20,000	910	850	98
25	22158-0	\$	F25T8/TL930	25	TL 930, 3000K	36	20,000	20,000	1550	1450	95
	22159-8	\$	F25T8/TL950	25	TL 950, 5000K	36	20,000	20,000	1550	1450	98
32	20904-9	\$	F32T8/TL930	25	TL 930, 3000K	48	20,000	20,000	2000	1860	95
	20905-6	\$	F32T8/TL950	25	TL 950, 5000K	48	20,000	20,000	2000	1860	98

Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty.	Description	Nom. Length (In.)	Rated Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
<b>U-Bent Rapid Start Fluorescent Lamps</b> T8 Medium Bipin with 6" Long Spacing (212)										
32	37897-6	\$	FB32T8/TL830/6/ALTO	20	TL 830, 3000K	22 7/8	20,000	2800	2535	85
	37900-8	\$	FB32T8/TL835/6/ALTO	20	TL 835, 3500K	22 7/8	20,000	2800	2535	85
	37902-4	\$	FB32T8/TL841/6/ALTO	20	TL 841, 4100K	22 7/8	20,000	2800	2535	85
	37880-2	\$	FB32T8/TL850/6/ALTO	20	TL 850, 5000K	22 7/8	20,000	2750	2500	84
	37892-7	\$	FB32T8/TL730/6/ALTO	20	TL 730, 3000K	22 7/8	20,000	2650	2370	75
	37893-5	\$	FB32T8/TL735/6/ALTO	20	TL 735, 3500K	22 7/8	20,000	2650	2370	75
	37894-3	\$	FB32T8/TL741/6/ALTO	20	TL 741, 4100K	22 7/8	20,000	2650	2370	75
	37882-8	\$	FB32T8/TL750/6/ALTO	20	TL 750, 5000K	22 7/8	20,000	2600	2325	75

Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty.	Description	Nom. Length (In.)	Rated Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
<b>Rapid Start Fluorescent Lamps</b> T8 Medium Bipin										
40	36831-6	\$	F40T8/TL830/ALTO	25	TL 830, 3000K	60	20,000	3775	3500	86
	36834-0	\$	F40T8/TL835/ALTO	25	TL 835, 3500K	60	20,000	3775	3500	86
	36847-2	\$	F40T8/TL841/ALTO	25	TL 841, 4100K	60	20,000	3775	3500	86
	36851-4	\$	F40T8/TL730/ALTO	25	TL 730, 3000K	60	20,000	3600	3250	78
	36852-2	\$	F40T8/TL735/ALTO	25	TL 735, 3500K	60	20,000	3600	3250	78
	36853-0	\$	F40T8/TL741/ALTO	25	TL 741, 4100K	60	20,000	3600	3250	78

Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty.	Description	Nom. Length (In.)	Rated Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
<b>Preheat Fluorescent Lamps</b> T8 Medium Bipin Linear Fluorescent Lamps; Requires Use of Starters (202)										
15	37823-2		F15T8D/ALTO	24	Daylight, 6500K	18	7500	750	660	79
	38298-6		F15T8/WW/ALTO	24	Warm White, 3000K	18	7500	870	740	53
	36720-1		F15T8/CW/ALTO	24	Cool White, 4100K	18	7500	870	765	62
	36436-4		F15T8/CW BULK	96	Cool White, 4100K	18	7500	850	750	62
	39226-6		F15T8/PLANT	6	Plant Lite, Sleeved	18	7500	410	—	—
30	26063-8		F30T8/D	24	Daylight, 6500K	36	7500	1500	1350	79
	38691-2		F30T8/CW/ALTO	24	Cool White, 4100K	36	7500	2200	2000	62

### Energy Advantage 25W T8 Savings

Save 7 Watts Instantly			
7 watts per lamp saved	Energy Savings Calculator		
	Annual Operating Hours*	Savings Over Lamp Life	
<b>KWH Rate</b>	<b>4380</b>	<b>8760</b>	<b>25,000 hrs.</b>
\$0.06	\$1.84	\$3.68	\$10.50
\$0.08	\$2.45	\$4.90	\$14.00
\$0.10	\$3.07	\$6.13	\$17.50
\$0.12	\$3.68	\$7.36	\$21.00
\$0.20	\$6.13	\$12.26	\$35.00

\*4380 hours are based on operating the lamps 12 hours per day/7 days per week.  
8760 hours are based on operating the lamps 24 hours per day/7 days per week.

**Cost of Ownership Savings**  
Energy Advantage T8 Fluorescent Lamps vs. Standard T8 Lamps.

**General Overview**  
Energy Advantage 25 watt T8 fluorescent lamps provide energy savings of up to 25% versus standard 32 watt T8, so the benefits and financial impact can be significant.

**Benefits**  
By using Energy Advantage 25W T8 lamps the energy savings of 7 watts per lamp can be achieved instantly by simply changing the lamp.

**Financial Impact**

Energy Savings per Lamp	7 Watts
Operating Hours per Year	8760 hours, continuous burn
Cost per KWh	\$.10

**Cost of Ownership Savings = \$6.13 per lamp per year**

For the most current product information, go to the e-catalog on [www.philips.com](http://www.philips.com)

Fluorescent symbols and footnotes located on page 87

This product utilizes ALTO® Lamp Technology

\* The TCLP is the US EPA's Toxicity Characteristic Leaching Procedure.

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# T8 Fluorescent Lamps

PLUS Slimline T8 8-Ft.

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## Philips PLUS Slimline T8 8-Ft. Lamps featuring ALTO® Lamp Technology

**Long Life:** Up to 30,000 hours rated average life at 12 hours per start (see footnote 241); Up to 60% more life than standard slimline T8 lamps means reduced maintenance and disposal costs

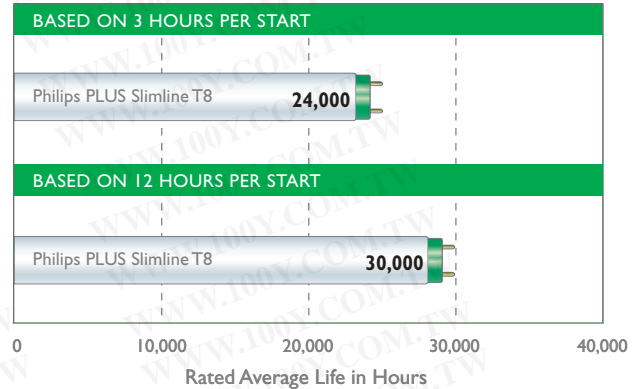
**Environmentally Responsible:** Low mercury—TCLP\*-compliant; energy efficient; long life

**Sustainable Lighting Solution:** Less mercury combined with energy efficiency reduces the impact on the environment

**Outstanding Lumen Maintenance:** HI-VISION® Phosphor combined with Philips exclusive cathode guard delivers 90% lumen maintenance and reduced lamp-end blackening

**Enhanced CRI:** 86 CRI for TL80 lamps; 78 CRI for TL70 lamps

Philips PLUS Slimline Lamp Rated Average Life



**Philips PLUS Slimline T8 Warranty Period: 24 months**



Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty.	Description	Nom. Length (In.)	Rated Avg. Life, Hrs.		Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
							3-Hr. Start (202)	12-Hr. Start (241)			
<b>PLUS Slimline T8 8-Foot Fluorescent Lamps</b> T8 Single Pin; Featuring ALTO® Lamp Technology; Instant Start											
59	38800-9	ⓔ □ Ⓞ \$	<b>F96T8/TL830/PLUS/ALTO</b>	24	TL 830, 3000K	96	24,000	30,000	5900	5490	86
	38801-7	ⓔ □ Ⓞ \$	<b>F96T8/TL835/PLUS/ALTO</b>	24	TL 835, 3500K	96	24,000	30,000	5900	5490	86
	38802-5	ⓔ □ Ⓞ \$	<b>F96T8/TL841/PLUS/ALTO</b>	24	TL 841, 4100K	96	24,000	30,000	5900	5490	86
	38803-3	ⓔ □ Ⓞ \$	<b>F96T8/TL850/PLUS/ALTO</b>	24	TL 850, 5000K	96	24,000	30,000	5780	5375	86
	38805-8	ⓔ □ Ⓞ \$	<b>F96T8/TL735/PLUS/ALTO</b>	24	TL 735, 3500K	96	24,000	30,000	5700	5190	78
	38806-6	ⓔ □ Ⓞ \$	<b>F96T8/TL741/PLUS/ALTO</b>	24	TL 741, 4100K	96	24,000	30,000	5700	5190	78

### PLUS Slimline T8 8-Foot Cost of Ownership Savings

PLUS Slimline 8-foot T8 Fluorescent Lamps vs. Standard 8-foot T8 Lamps

#### General Overview

PLUS Slimline 8-foot T8 fluorescent lamps may provide up to 60% longer life than standard 8-foot T8 products. With an incremental cost as little as \$1.00 per lamp, benefits and financial impact can be significant.

#### Benefits

By using PLUS Slimline 8-foot T8 lamps the lamp replacement and labor costs are extended by an extra 2 years on a facility that operates an average of 4000 hours per year. For example, a standard 8-foot T8 product, with a rated average life expectancy of 15,000 hours, will last nearly 4 years (15,000 hours rated average life / 4000 hours per year = 3 3/4 years). Conversely, PLUS Slimline 8-foot T8 lamps will operate for 6 years due to their rated average life expectancy of 24,000 hours (24,000 hours rated average life / 4000 hours per year = 6 years).

#### Financial Impact

With the extended life expectancy of 2 years and the benefits of Philips' exclusive TCLP-compliant low mercury technology, the positive financial impact of installing PLUS Slimline 8-foot T8 lamps may provide cost of ownership savings per lamp as follows:

Incremental Cost	\$ (1.00)
Material Cost Avoidance <sup>A</sup>	\$ 4.00
Labor Cost Avoidance <sup>B</sup>	\$ 3.72
Disposal Cost Avoidance <sup>C</sup>	\$ 0.72
<b>Cost of Ownership Savings</b>	<b>\$ 7.44</b>

**A** Material Cost Avoidance is the annualized acquisition cost per lamp (average cost per lamp of \$7.50 for standard 8-Foot T8 product / 3 3/4 years = \$2.00 per year). By installing PLUS Slimline 8-Foot T8 lamps, a material cost per lamp of \$4.00 is avoided due to the extra 2 years of life expectancy. Note that the average cost per lamp may vary.

**B** Labor Cost Avoidance is the annualized labor replacement cost per lamp (labor replacement cost per lamp of \$7.00 / 3 years = \$1.86 per year). By installing PLUS Slimline 8-Foot T8 lamps, a labor replacement cost per lamp of \$3.72 is avoided due to the extra 2 years life expectancy. Note that the labor replacement cost per lamp may vary.

**C** Disposal Cost Avoidance is based on an average of \$.09 per foot for lamp recycling or \$.72 per 8-foot lamp. Philips Lighting Company encourages the recycling of all fluorescent lamps.

For the most current product information, go to the e-catalog on [www.philips.com](http://www.philips.com)

Fluorescent symbols and footnotes located on page 87

□ This product utilizes ALTO® Lamp Technology

\* The TCLP is the US EPA's Toxicity Characteristic Leaching Procedure.

# Philips PLUS High Output T8 Lamps featuring ALTO® Lamp Technology

**Long Life:** 30,000 hours rated average life at 12 hours per start (see footnote 241); 50% more life than standard T8 HO 8-foot lamps means reduced maintenance and disposal costs

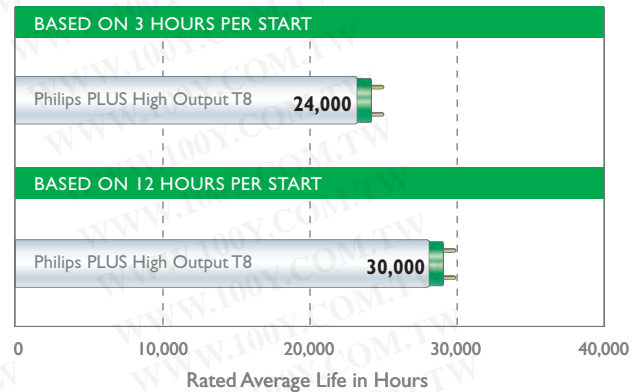
**Environmentally Responsible:** Low mercury—TCLP\*-compliant; energy efficient; long life

**Sustainable Lighting Solution:** Less mercury combined with energy efficiency reduces the impact on the environment

**Outstanding Lumen Maintenance:** HI-VISION® Phosphor combined with Philips exclusive cathode guard delivers 95% lumen maintenance and reduced lamp-end blackening

**Enhanced CRI:** 86 CRI for TL80 lamps; 78 CRI for TL70 lamps

Philips PLUS High Output Lamp  
Rated Average Life



**Philips PLUS High Output T8  
Warranty Period: 24 months**

Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty.	Description	Nom. Length (In.)	Rated Avg. Life, Hrs.		Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
							3-Hr. Start (202)	12-Hr. Start (241)			
<b>PLUS High Output T8 8-Foot Fluorescent Lamps</b> T8 Recessed D.C.; Featuring ALTO® Lamp Technology											
86	38826-4	ⓔⓈ	<b>F96T8/TL830/HO/PLUS/ALTO</b>	24	TL 830, 3000K	96	24,000	30,000	8200	7625	86
	38827-2	ⓔⓈ	<b>F96T8/TL835/HO/PLUS/ALTO</b>	24	TL 835, 3500K	96	24,000	30,000	8200	7625	86
	38828-0	ⓔⓈ	<b>F96T8/TL841/HO/PLUS/ALTO</b>	24	TL 841, 4100K	96	24,000	30,000	8200	7625	86
	38831-4	ⓔⓈ	<b>F96T8/TL741/HO/PLUS/ALTO</b>	24	TL 741 4100K	96	24,000	30,000	7900	7100	78

Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty.	Description	Nom. Length (In.)	Average Life, Hours (205)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
44	38808-2	Ⓢ	<b>F48T8/TL830/HO/ALTO</b>	24	TL 830, 3000K	48	18,000	4000	3600	86
	38809-0	Ⓢ	<b>F48T8/TL835/HO/ALTO</b>	24	TL 835, 3500K	48	18,000	4000	3600	86
	38810-8	Ⓢ	<b>F48T8/TL841/HO/ALTO</b>	24	TL 841, 4100K	48	18,000	4000	3600	86
55	38814-0	Ⓢ	<b>F60T8/TL830/HO/ALTO</b>	24	TL 830, 3000K	60	18,000	5050	4545	86
	38815-7	Ⓢ	<b>F60T8/TL835/HO/ALTO</b>	24	TL 835, 3500K	60	18,000	5050	4545	86
	38816-5	Ⓢ	<b>F60T8/TL841/HO/ALTO</b>	24	TL 841, 4100K	60	18,000	5050	4545	86
65	38820-7	Ⓢ	<b>F72T8/TL830/HO/ALTO</b>	24	TL 830, 3000K	72	18,000	6100	5490	86
	38821-5	Ⓢ	<b>F72T8/TL835/HO/ALTO</b>	24	TL 835, 3500K	72	18,000	6100	5490	86
	38822-3	Ⓢ	<b>F72T8/TL841/HO/ALTO</b>	24	TL 841, 4100K	72	18,000	6100	5490	86

For the most current product information, go to the e-catalog on [www.philips.com](http://www.philips.com)  
Fluorescent symbols and footnotes located on page 87

This product utilizes ALTO® Lamp Technology

\* The TCLP is the US EPA's Toxicity Characteristic Leaching Procedure.

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# T12 Fluorescent Lamps

Rapid Start, Advantage Rapid Start, Rapid Start "Long Life," Rapid Start 800, U-Bent

Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty. •	Description	Nom. Length (In.)	Rated Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
<b>Rapid Start Fluorescent Lamps</b> T12 Medium Bipin										
25	27247-6	\$	F25T12/CW/RS/EW/ALTO	30	Cool White, 4100K	36	18,000	1950	1650	62
	31365-0	\$	F25T12/WW/RS/EW	30	Warm White, 3000K	36	18,000	2000	1700	53
30	31377-5		F30T12/30U/RS	30	Ultralume, 3000K	36	18,000	2400	2160	85
	31379-1		F30T12/35U/RS	30	Ultralume, 3500K	36	18,000	2400	2160	85
	31380-9	□	F30T12/41U/RS	30	Ultralume, 4100K	36	18,000	2400	2160	85
	31381-7	□	F30T12/50U/RS	30	Ultralume, 5000K	36	18,000	2380	2140	85
	31369-2		F30T12/SPEC30/RS	30	SPEC30, 3000K	36	18,000	2350	2080	70
	31371-8		F30T12/SPEC35/RS	30	SPEC35, 3500K	36	18,000	2350	2080	73
	31372-6		F30T12/SPEC41/RS	30	SPEC41, 4100K	36	18,000	2350	2080	70
	31376-7		F30T12/C50/RS	30	Colortone 50, 5000K	36	18,000	1550	1300	92
	37649-1		F30T12/D/RS/ALTO	30	Daylight, 6500K	36	18,000	1950	1700	79
	27242-7		F30T12/CW/RS/ALTO	30	Cool White, 4100K	36	18,000	2250	1900	62
	31221-7		F30T12/WW/RS/ALTO	30	Warm White, 3000K	36	18,000	2300	1950	53

Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty. •	Description	Nom. Length (In.)	3-Hr. Start (202)	12-Hr. Start (241)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
<b>Advantage Rapid Start Ultimate Performance Fluorescent Lamps</b> T12 Medium Bipin											
NEW!	14257-0		F34T12/ADV30/EW/ALTO	30	Advantage 30,T12, 3000K	48	24,000	30,000	3100	2945	85
	14258-8		F34T12/ADV35/EW/ALTO	30	Advantage 35,T12, 3500K	48	24,000	30,000	3100	2945	85
	14259-6		F34T12/ADV41/EW/ALTO	30	Advantage 41,T12, 4100K	48	24,000	30,000	3100	2945	85
	14260-4		F34T12/ADV50/EW/ALTO	30	Advantage 50,T12, 5000K	48	24,000	30,000	3000	2845	85

Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty. •	Description	Nom. Length (In.)	Rated Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI	
<b>Rapid Start "Long Life" Fluorescent Lamps</b> T12 Medium Bipin											
NEW!	14251-3		F34/CW/RS/EW/LL/ALTO	30	Cool White, 4100K	48	24,000	30,000	2650	2300	62
	14252-1		F34/WW/RS/EW/LL/ALTO	30	Warm White, 3000K	48	24,000	30,000	2700	2350	53

Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty. •	Description	Nom. Length (In.)	Rated Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
<b>Rapid Start 800 Series Fluorescent Lamps</b> T12 Medium Bipin										
NEW!	14253-9		F34T12/830/EW/ALTO	30	TL 830, 3000K	48	20,000	2800	2660	82
	14254-7		F34T12/835/EW/ALTO	30	TL 835, 3500K	48	20,000	2800	2660	82
	14255-4		F34T12/841/EW/ALTO	30	TL 841, 4100K	48	20,000	2800	2660	82
	14256-2		F34T12/850/EW/ALTO	30	TL 850, 5000K	48	20,000	2800	2660	82

Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty. •	Description	Nom. Length (In.)	Rated Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
<b>Rapid Start Fluorescent Lamps</b> T12 Medium Bipin										
34	26659-3	\$	F34/DX/RS/EW/ALTO	30	Daylight Deluxe, 6500K	48	20,000	2025	1775	84
	24470-7	\$	F34/CW/RS/EW/ALTO	30	Cool White, 4100K	48	20,000	2650	2300	62
	22046-7	\$	F34/CW/RS/EW/ALTO	10	Cool White, 4100K, 10PK	48	20,000	2650	2300	62
	24472-3	\$	F34/CW/RS/EW/ALTO PLZ	650	Cool White, 4100K	48	20,000	2650	2650	62
	25686-7	\$	F34/WW/RS/EW/ALTO	30	Warm White, 3000K	48	20,000	2700	2350	53

Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty. •	Description	Nom. Length (In.)	Rated Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
<b>U-Bent Fluorescent Lamps</b> T12 Medium Bipin										
34	37871-1	\$	FB34/SPEC30/6/EW/ALTO	12	SPEC30, 3000K	22 3/8	18,000	2760	2500	70
	37872-9	\$	FB34/SPEC35/6/EW/ALTO	12	SPEC35, 3500K	22 3/8	18,000	2760	2500	73
	37874-5	\$	FB34/SPEC41/6/EW/ALTO	12	SPEC41, 4100K	22 3/8	18,000	2760	2500	70
	37863-8		FB34/CW/6/EW/ALTO	12	Cool White, 4100K	22 3/8	18,000	2400	2050	62
	37865-3		FB34/LW/6/EW/ALTO	12	Lite White, 4200K	22 3/8	18,000	2500	2150	62
	37862-0		FB34/WW/6/EW/ALTO	12	Warm White, 3000K	22 3/8	18,000	2400	2050	53
	20704-3		FB34/CW/3/EW	12	Cool White, 4100K	22 3/8	18,000	2350	2050	62
	20705-0		FB34/WW/3/EW	12	Warm White, 3000K	22 3/8	18,000	2425	2125	51

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# T12 Fluorescent Lamps

Advantage Rapid Start, Rapid Start 800, Rapid Start, U-Bent

Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty.	Description	Nom. Length (In.)	Rated Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
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## Advantage Rapid Start Ultimate Performance Fluorescent Lamps T12 Medium Bipin Linear Fluorescent Lamps

40	26604-9	<input type="checkbox"/>	<b>F40T12/ADV30/ALTO</b>	30	Advantage 30,T12, 3000K	48	24,000	3600	3250	85
	26631-2	<input type="checkbox"/>	<b>F40T12/ADV35/ALTO</b>	30	Advantage 35,T12, 3500K	48	24,000	3600	3250	85
	26640-3	<input type="checkbox"/>	<b>F40T12/ADV41/ALTO</b>	30	Advantage 41,T12, 4100K	48	24,000	3600	3250	85
	26643-7	<input type="checkbox"/>	<b>F40T12/ADV50/ALTO</b>	30	Advantage 50,T12, 5000K	48	24,000	3600	3250	85

## Rapid Start 800 Series Fluorescent Lamps T12 Medium Bipin

40	14261-2		<b>F40T12/830/ALTO</b>	30	TL 830, 3000K	48	20,000	3200	3040	82
	14262-0		<b>F40T12/835/ALTO</b>	30	TL 835, 3500K	48	20,000	3200	3040	82
	14263-8		<b>F40T12/841/ALTO</b>	30	TL 841, 4100K	48	20,000	3200	3040	82
	14264-6		<b>F40T12/850/ALTO</b>	30	TL 850, 5000K	48	20,000	2700	2900	82

NEW!

## Rapid Start Fluorescent Lamps T12 Medium Bipin Linear Fluorescent Lamps

40	33464-9		<b>F40/C75</b>	30	Colortone 75, 7500K	48	20,000	2000	1720	95
	30203-4		<b>F40/C50</b>	30	Colortone 50, 5000K	48	20,000	2200	1915	92
	27359-9		<b>F40/DX/ALTO</b>	30	Daylight Deluxe, 6500K	48	20,000	2325	2025	84
	36765-6		<b>F40/CWX</b>	30	Cool White Deluxe, 4200K	48	20,000	2200	1800	89
	39228-2		<b>F40/PLANT</b>	6	Plant Light, Sleeved	48	20,000	1600	1360	—
	20189-7		<b>F40/BB</b>	6	Special Blue	48	20,000	550	385	—

## U-Bent Fluorescent Lamps T12 Medium Bipin

40	37879-4		<b>FB40/30U/6/ALTO</b>	12	Ultralume, 3000K	22 7/8	18,000	3100	2850	85
	37840-6		<b>FB40/35U/6/ALTO</b>	12	Ultralume, 3500K	22 7/8	18,000	3100	2850	85
	37876-0		<b>FB40/41U/6/ALTO</b>	12	Ultralume, 4100K	22 7/8	18,000	3100	2850	85
	37866-1		<b>FB40/SPEC30/6/ALTO</b>	12	SPEC30, 3000K	22 7/8	18,000	3050	2775	70
	37854-7		<b>FB40/SPEC35/6/ALTO</b>	12	SPEC35, 3500K	22 7/8	18,000	3050	2775	73
	37868-7		<b>FB40/SPEC41/6/ALTO</b>	12	SPEC41, 4100K	22 7/8	18,000	3050	2775	70
	21993-1		<b>FB40/DX/6</b>	12	Daylight Deluxe, 6500K	22 7/8	18,000	2250	1950	84

For the most current product information, go to the e-catalog on [www.philips.com](http://www.philips.com)

Fluorescent symbols and footnotes located on page 87

This product utilizes ALTO® Lamp Technology

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# T12 Fluorescent Lamps

Slimline, Slimline "Long Life," Slimline 800,

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Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty. •	Description	Nom. Length (In.)	Rated Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
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## Slimline Fluorescent Lamps T12 Single Pin Linear Fluorescent Lamps; Instant Start

30	14140-8	\$	F36T12/CW	24	Cool White, 4100K	36	7500	1850	1630	62
	36609-6	\$	F48T12/SPEC41/EW/ALTO	15	SPEC41, 4100K	48	9000	2575	2350	70
	38700-1	\$	F48T12/CW/EW/ALTO	15	Cool White, 4100K	48	9000	2400	2150	62
39	36613-8		F48T12/SPEC35/ALTO	15	SPEC35, 3500K	48	9000	3000	2800	73
	36219-4		F48T12/D/ALTO	15	Daylight, 6500K	48	9000	2500	220	79
	38702-7		F48T12/CW/ALTO	30	Cool White, 4100K	48	9000	2950	2600	62
	36660-9		F48T12/WW/ALTO	15	Warm White, 3000K	48	9000	2950	2650	53
50	35564-4		F60T12/D	15	Daylight, 6500K	60	12,000	3150	2850	79
	35563-6		F60T12/CW	15	Cool White, 4100K	60	12,000	3450	3050	62
51	35577-6		F64T12/D	15	Daylight, 6500K	64	12,000	3200	2800	79
	35576-8		F64T12/CW	15	Cool White, 4100K	64	12,000	3750	3050	62
56	36614-6		F72T12/30U/ALTO	15	Ultralume, 3000K	72	12,000	4850	4550	85
	36618-7		F72T12/35U/ALTO	15	Ultralume, 3500K	72	12,000	4850	4550	85
	36621-1		F72T12/41U/ALTO	15	Ultralume, 4100K	72	12,000	4850	4550	85
	36623-7		F72T12/SPEC35/ALTO	15	SPEC35, 3500K	72	12,000	4700	4400	73
	36985-0		F72T12/D/ALTO	15	Daylight, 6500K	72	12,000	3800	3350	79
	36989-2		F72T12/CW/ALTO	15	Cool White, 4100K	72	12,000	4450	3900	62
	36661-7		F72T12/WW/ALTO	15	Warm White, 3000K	72	12,000	4550	4000	53

## Slimline "Long Life" Fluorescent Lamps T12 Single Pin Linear Fluorescent Lamps; Instant Start

60	14747-0		F96T12/CW/EW/LL/ALTO	15	Cool White, 4100K	96	15,000	5400	4750	62
	14748-8		F96T12/841/EW/LL/ALTO	15	TL841, 4100K	96	15,000	5900	5550	85

## Slimline 800 Series Fluorescent Lamps T12 Single Pin Linear Fluorescent Lamps; Instant Start

60	14269-5		F96T12/830/EW/ALTO	15	TL830, 3000K	96	12,000	5900	5550	85
	14270-3		F96T12/835/EW/ALTO	15	TL835, 3500K	96	12,000	5900	5550	85
	14271-1		F96T12/841/EW/ALTO	15	TL841, 4100K	96	12,000	5900	5550	85
	14272-9		F96T12/850/EW/ALTO	15	TL850, 5000K	96	12,000	5800	5450	85

## Slimline Fluorescent Lamps T12 Single Pin Linear Fluorescent Lamps; Instant Start

60	36624-5	X \$	F96T12/30U/EW/ALTO	15	Ultralume, 3000K	96	12,000	5900	5550	85
	36625-2	X \$	F96T12/35U/EW/ALTO	15	Ultralume, 3500K	96	12,000	5900	5550	85
	36627-8	X \$	F96T12/41U/EW/ALTO	15	Ultralume, 4100K	96	12,000	5900	5550	85
	36628-6	X \$	F96T12/50U/EW/ALTO	15	Ultralume, 5000K	96	12,000	5850	5500	85
	36630-2	X \$	F96T12/SPEC30/EW/ALTO	15	SPEC30, 3000K	96	12,000	5750	5400	70
	26018-2	X \$	F96T12/SPEC35/EW/ALTO	15	SPEC35, 3500K	96	12,000	5750	5400	73
	26022-4	X \$	F96T12/SPEC41/EW/ALTO	15	SPEC41, 4100K	96	12,000	5750	5400	70
	34198-2	X \$	F96T12/C50/EW	15	Colortone 50, 5000K	96	12,000	4100	3700	92
	36654-2		F96T12/DX/EW/ALTO	15	Daylight Deluxe, 6500K	96	12,000	4200	3675	84
	25840-0		F96T12/CW/EW/ALTO	15	Cool White, 4100K	96	12,000	5400	4750	62
	36656-7		F96T12/WW/EW/ALTO	15	Warm White, 3000K	96	12,000	5500	4850	53
	36655-9	X	F96T12/LW/EW/ALTO	15	Lite White, 4200K	96	12,000	5600	4950	51

## Slimline "Long Life" Fluorescent Lamps T12 Single Pin Linear Fluorescent Lamps; Instant Start

75	14749-6		F96T12/841/LL/ALTO	15	TL841, 4100K	96	15,000	6600	6225	85
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## Slimline 800 Series Fluorescent Lamps T12 Single Pin Linear Fluorescent Lamps; Instant Start

75	14273-7		F96T12/830/ALTO	15	TL830, 3000K	96	12,000	6600	6225	85
	14274-5		F96T12/835/ALTO	15	TL835, 3500K	96	12,000	6600	6225	85
	14275-2		F96T12/841/ALTO	15	TL841, 4100K	96	12,000	6600	6225	85
	14276-0		F96T12/850/ALTO	15	TL850, 5000K	96	12,000	6500	6125	85

## Slimline Fluorescent Lamps T12 Single Pin Linear Fluorescent Lamps; Instant Start

75	36633-6	X	F96T12/30U/ALTO	15	Ultralume, 3000K	96	12,000	6600	6225	85
	36634-4	X	F96T12/35U/ALTO	15	Ultralume, 3500K	96	12,000	6600	6225	85
	36635-1	X	F96T12/41U/ALTO	15	Ultralume, 4100K	96	12,000	6600	6225	85
	36636-9	X	F96T12/50U/ALTO	15	Ultralume, 5000K	96	12,000	6500	6125	85
	36647-6	X	F96T12/SPEC30/ALTO	15	SPEC30, 3000K	96	12,000	6425	6050	70
	36648-4	X	F96T12/SPEC35/ALTO	15	SPEC35, 3500K	96	12,000	6425	6050	73
	36650-0	X	F96T12/SPEC41/ALTO	15	SPEC41, 4100K	96	12,000	6425	6050	70
	34170-1		F96T12/C50	15	Colortone 50, 5000K	96	12,000	4650	4200	92
	34165-1	X	F96T12/N	15	Natural, 3700K	96	12,000	4300	3850	90
	37282-1		F96T12/DX/ALTO	15	Daylight Deluxe, 6500K	96	12,000	4500	3950	84

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□ This product utilizes ALTO® Lamp Technology X No longer manufactured, available until inventory depleted

# T12 Fluorescent Lamps

High Output

Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty.	Description	Nom. Length (In.)	Rated Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
<b>High Output Fluorescent Lamps (800ma) T12 Recessed D.C. Linear Fluorescent Lamps (207, 214)</b>										
<b>35</b>	14144-0		<b>F24T12/D/HO</b>	30	Daylight, 6500K	24	9000	1400	1180	79
	14145-7		<b>F24T12/CW/HO</b>	30	Cool White, 4100K	24	9000	1650	1390	62
<b>40</b>	14141-6		<b>F30T12/D/HO</b>	30	Daylight, 6500K	30	9000	1920	1590	79
	14142-4		<b>F30T12/CW/HO</b>	30	Cool White, 4100K	30	9000	2290	1900	62
<b>50</b>	14138-2		<b>F36T12/D/HO</b>	30	Daylight, 6500K	36	9000	2500	2150	79
	14139-0		<b>F36T12/CW/HO</b>	30	Cool White, 4100K	36	9000	2800	2450	62
<b>55</b>	14136-6		<b>F42T12/D/HO</b>	30	Daylight, 6500K	42	9000	3000	2610	79
	14137-4		<b>F42T12/CW/HO</b>	30	Cool White, 4100K	42	9000	3400	2950	62
<b>60</b>	13222-5		<b>F48T12/41U/HO/ALTO</b>	15	Ultralume, 4100K	48	12,000	4400	4000	85
	26773-2		<b>F48T12/41U/HO</b>	15	Ultralume, 4100K	48	12,000	4400	4000	85
	21896-6		<b>F48T12/SPEC30/HO</b>	15	SPEC30, 3000K	48	12,000	4250	3830	70
	21897-4		<b>F48T12/SPEC35/HO</b>	15	SPEC35, 3500K	48	12,000	4250	3830	73
	26775-7		<b>F48T12/SPEC41/HO</b>	15	SPEC41, 4100K	48	12,000	4250	3830	70
	36984-3		<b>F48T12/D/HO/ALTO</b>	15	Daylight, 6500K	48	12,000	3400	3000	79
	36978-5		<b>F48T12/CW/HO/ALTO</b>	15	Cool White, 4100K	48	12,000	4050	3500	62
	21816-4		<b>F48T12/WW/HO</b>	15	Warm White, 3000K	48	12,000	4100	3550	53
<b>75</b>	35567-7		<b>F60T12/D/HO</b>	15	Daylight, 6500K	60	12,000	4400	3800	79
	35566-9		<b>F60T12/CW/HO</b>	15	Cool White, 4100K	60	12,000	5150	4500	62
<b>80</b>	35584-2		<b>F64T12/D/HO</b>	15	Daylight, 6500K	64	12,000	4900	4250	79
	35578-4		<b>F64T12/CW/HO</b>	15	Cool White, 4100K	64	12,000	5600	4850	62
<b>85</b>	27305-2		<b>F72T12/30U/HO</b>	15	Ultralume, 3000K	72	12,000	6800	6200	85
	26723-7		<b>F72T12/35U/HO</b>	15	Ultralume, 3500K	72	12,000	6800	6200	85
	26742-7		<b>F72T12/41U/HO</b>	15	Ultralume, 4100K	72	12,000	6800	6200	85
	30001-2		<b>F72T12/SPEC35/HO</b>	15	SPEC35, 3500K	72	12,000	6650	6000	73
	30756-1		<b>F72T12/SPEC41/HO</b>	15	SPEC41, 4100K	72	12,000	6650	6000	70
	21204-3		<b>F72T12/N/HO</b>	15	Natural, 3700K	72	12,000	4200	3610	90
	36653-4		<b>F72T12/D/HO/ALTO</b>	15	Daylight, 6500K	72	12,000	5600	4850	79
	36651-8		<b>F72T12/CW/HO/ALTO</b>	15	Cool White, 4100K	72	12,000	6350	5500	62
33053-0		<b>F72T12/WW/HO</b>	15	Warm White, 3000K	72	12,000	6500	5700	53	
<b>100</b>	21206-8		<b>F84T12/D/HO</b>	15	Daylight, 6500K	84	12,000	6900	6000	79
	21205-0		<b>F84T12/CW/HO</b>	15	Cool White, 4100K	84	12,000	7800	6800	62

For the most current product information, go to the e-catalog on [www.philips.com](http://www.philips.com)

Fluorescent symbols and footnotes located on page 87

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# T12 Fluorescent Lamps

High Output 800, High Output

Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty. *	Description	Nom. Length (In.)	Rated Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
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## High Output 800 Series Fluorescent Lamps (800ma)

<b>NEW!</b>	95	14277-8		<b>F96T12/830/HO/EW/ALTO</b>	15	TL830, 3000K	86	12,000	8625	7750	85
		14278-6		<b>F96T12/835/HO/EW/ALTO</b>	15	TL835, 3500K	96	12,000	8625	7750	85
		14279-4		<b>F96T12/841/HO/EW/ALTO</b>	15	TL841, 4100K	96	12,000	8625	7750	85
		14280-4		<b>F96T12/850/HO/EW/ALTO</b>	15	TL850, 5000K	96	12,000	8520	7675	85

## High Output Fluorescent Lamps (800ma) T12 Recessed D.C. Linear Fluorescent Lamps (207, 214)

<b>NEW!</b>	95	27319-3	X \$	<b>F96T12/30U/HO/EW</b>	15	Ultralume, 3000K	96	12,000	8625	7750	85
		34862-3	X \$	<b>F96T12/41U/HO/EW</b>	15	Ultralume, 4100K	96	12,000	8620	7750	85
		20525-2	X \$	<b>F96T12/50U/HO/EW</b>	15	Ultralume, 5000K	96	12,000	8520	7675	85
		34861-5	X \$	<b>F96T12/SPEC30/HO/EW</b>	15	SPEC30, 3000K	96	12,000	8350	7500	70
		22117-6	X \$	<b>F96T12/SPEC35/HO/EW</b>	15	SPEC35, 3500K	96	12,000	8350	7500	73
		34848-2	X \$	<b>F96T12/SPEC41/HO/EW</b>	15	SPEC41, 4100K	96	12,000	8350	7500	70
		21471-8	\$	<b>F96T12/DX/HO/EW</b>	15	Daylight Deluxe, 6500K	96	12,000	5850	5000	84
		26660-1	\$	<b>F96T12/CW/HO/EW/ALTO</b>	15	Cool White, 4100K	96	12,000	8000	6950	62
		34219-6	X \$	<b>F96T12/WW/HO/EW</b>	15	Warm White, 3000K	96	12,000	8100	7050	53
		34216-2	X \$	<b>F96T12/LW/HO/EW</b>	15	Lite White, 4200K	96	12,000	8300	7200	51

## High Output 800 Series Fluorescent Lamps (800ma)

<b>NEW!</b>	110	14281-0		<b>F96T12/830/HO/ALTO</b>	15	TL830, 3000K	96	12,000	9500	8550	85
		14282-8		<b>F96T12/835/HO/ALTO</b>	15	TL835, 3500K	96	12,000	9500	8550	85
		14283-6		<b>F96T12/841/HO/ALTO</b>	15	TL841, 4100K	96	12,000	9500	8550	85
		14284-4		<b>F96T12/850/HO/ALTO</b>	15	TL850, 5000K	96	12,000	9350	8350	85

## High Output Fluorescent Lamps (800ma) T12 Recessed D.C. Linear Fluorescent Lamps (207, 214)

<b>NEW!</b>	110	34863-1	X	<b>F96T12/30U/HO</b>	15	Ultralume, 3000K	96	12,000	9500	8550	85
		26710-4	X	<b>F96T12/35U/HO</b>	15	Ultralume, 3500K	96	12,000	9500	8550	85
		34864-9	X	<b>F96T12/41U/HO</b>	15	Ultralume, 4100K	96	12,000	9500	8550	85
		34865-6	X	<b>F96T12/50U/HO</b>	15	Ultralume, 5000K	96	12,000	9350	8350	85
		27276-5	X	<b>F96T12/SPEC30/HO</b>	15	SPEC30, 3000K	96	12,000	9300	8375	70
		27681-6	X	<b>F96T12/SPEC35/HO</b>	15	SPEC35, 3500K	96	12,000	9300	8375	73
		27279-9	X	<b>F96T12/SPEC41/HO</b>	15	SPEC41, 4100K	96	12,000	9300	8375	70
		34226-1		<b>F96T12/C50/HO</b>	15	Colortone 50, 5000K	96	12,000	6300	5400	92
		34230-3	X	<b>F96T12/N/HO</b>	15	Natural, 3700K	96	12,000	6250	5400	90
		34222-0		<b>F96T12/CWX/HO</b>	15	Cool White Deluxe, 5000K	96	12,000	6600	5500	89
		21489-0		<b>F96T12/DX/HO</b>	15	Daylight Deluxe, 6500K	96	12,000	6750	5800	84

## High Output Fluorescent Lamps (800ma) T12 Recessed D.C. Linear Fluorescent Lamps; For Low Temperature Applications (223)

<b>NEW!</b>	110	38177-4		<b>F96T12/D/HO-O/ALTO</b>	15	Daylight, 6500K	96	12,000	7800	6800	79
		38176-4		<b>F96T12/CW/HO-O/ALTO</b>	15	Cool White, 4100K	96	12,000	8800	7650	62

For the most current product information, go to the e-catalog on [www.philips.com](http://www.philips.com)

Fluorescent symbols and footnotes located on page 87

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**X** No longer manufactured, available until inventory depleted

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# T12 Fluorescent Lamps

Very High Output, Outdoor Very High Output, Gold

Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty.	Description	Nom. Length (In.)	Rated Avg. Life, Hrs. 3-Hr. Start (202)	12-Hr. Start (241)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
<b>Very High Output Fluorescent Lamps (1500ma)</b> T12 Recessed D.C. Linear Fluorescent Lamps (214)											
110	21819-8		F48T12/CW/VHO	15	Cool White, 4100K	48	12,000	12,000	7050	4950	62
135	21785-1		F60T12/CW/VHO	15	Cool White, 4100K	60	12,000	12,000	9000	6300	62
160	33054-8		F72T12/D/VHO	15	Daylight, 6500K	72	12,000	12,000	12,000	6400	79
	21210-0		F72T12/CW/VHO	15	Cool White, 4100K	72	12,000	12,000	11,000	7600	62
185	34232-9	\$	F96T12/CW/VHO/EW	15	Cool White, 4100K	96	12,000	12,000	13,000	9000	62
	34233-7	\$	F96T12/LW/VHO/EW	15	Lite White, 4200K	96	12,000	12,000	14,400	10,100	51
215	38213-5	□	F96T12/41U/VHO/ALTO	15	Ultralume, 4100K	96	12,000	12,000	17,500	16,100	85
	34237-8		F96T12/D/VHO	15	Daylight, 6500K	96	12,000	12,000	12,505	8750	79
	34234-5		F96T12/CW/VHO	15	Cool White, 4100K	96	12,000	12,000	15,200	10,700	62

Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty.	Description	Nom. Length (In.)	Rated Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI	
<b>Outdoor Very High Output Fluorescent Lamps (1500ma)</b> T12 Recessed D.C. Linear Fluorescent Lamps											
116	21820-6		F48T12/CW/VHO-O	12	Cool White, 4100K	48	10,000	10,000	7000	4900	62
140	37543-6		F60T12/50U/VHO-O	15	Ultralume, 5000K	60	10,000	10,000	7300	5200	85
	21786-9		F60T12/CW/VHO-O	12	Cool White, 4100K	60	10,000	10,000	8900	8250	62
162	21211-8		F72T12/CW/VHO-O	8	Cool White, 4100K	72	10,000	10,000	11,250	7750	62
212	34243-6		F96T12/CW/VHO-O	8	Cool White, 4100K	96	10,000	10,000	14,900	10,400	62

Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty.	Description	Nom. Length (In.)	Rated Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI	
<b>Preheat Fluorescent Lamps</b> T12 Medium Bipin Linear Fluorescent Lamps											
14	14151-5		F14T12/CW	30	Cool White, 4100K	15	9000	710	590	62	
15	14147-3		F15T12/D	30	Daylight, 6500K	18	9000	650	535	79	
	14149-9		F15T12/CW	30	Cool White, 4100K	18	9000	800	695	62	
20	31399-9		F20T12/30U	30	Ultralume, 3000K	24	9000	1350	1270	85	
	31401-3		F20T12/41U	30	Ultralume, 4100K	24	9000	1350	1270	85	
	31403-9		F20T12/50U	30	Ultralume, 5000K	24	9000	1340	1260	85	
	31386-6		F20T12/SPEC30	24	SPEC30, 3000K	24	9000	1275	1190	70	
	31388-2		F20T12/SPEC35	24	SPEC35, 3500K	24	9000	1275	1190	73	
	31396-5		F20T12/C50	30	ColorTone 50, 5000K	24	9000	850	755	92	
	27328-4		F20T12/D/ALTO	30	Daylight, 6500K	24	9000	960	960	79	
	27332-6		F20T12/CW/ALTO	30	Cool White, 4100K	24	9000	1200	1050	62	
	27349-0		F20T12/WW/ALTO	30	Warm White, 3000K	24	9000	1250	1100	53	
	39227-4		F20T12/PLANT	6	Plant Lite, Sleeved	24	9000	600	500	—	
31745-3		F20T12/BB	6	Special Blue	24	9000	225	180	—		
25	26030-7		F25T12/CW	30	Cool White, 4100K	33	7500	1900	1710	62	

Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty.	Description	Nom. Length (In.)	Rated Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI	
<b>Gold Fluorescent Lamps</b> Blocks UV Emissions											
32	14746-2	±	F32T8/GOLD	25	Gold Sleeved	48	20,000	1750	1480	—	
40	14750-4	±	F40T12/GOLD	30	Gold Sleeved	48	20,000	1700	1465	—	

**NEW!**

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# Fluorescent Lamps

## Appliance, T9 4-Pin Circline

Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty. *	Description	Nom. Length (In.)	Rated Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
<b>Appliance Fluorescent Lamps</b> T8 Medium Bipin Linear Fluorescent Lamps; For Use With Starters										
14	25914-3		F14T8/CW/I5	24	Cool White, 4100K	15	7500	700	595	62
16	25989-5		F16T8/CW/26	24	Cool White, 4100K	26	7500	1275	1020	62
17	25990-3		F17T8/CW/28	24	Cool White, 4100K	28	7500	1300	1030	62
18	38302-6		F18T8/CW/30/ALTO	24	Cool White, 4100K	30	7500	1350	1070	62
	36520-5		F18T8/CW/24	24	Cool White, 4100K	24	7500	1175	940	62

<b>Appliance Fluorescent Lamps</b> T12 Medium Bipin Linear Fluorescent Lamps; For Use With Starters										
25	14135-8		F25T12/CW/28	30	Cool White, 4100K	28	7500	1600	1280	62

<b>Circline Fluorescent Lamps</b> T9 4-Pin Circular Fluorescent Lamps										
20	24982-1		FC6T9/Cool White Plus	12	Cool White, 4100K	6 1/2 OD	12,000	800	590	62
22	39222-5		FC8T9/Soft White	12	3000K	8 OD	12,000	1150	875	85
	26234-5		FC8T9/D	12	Daylight, 6500K	8 1/4 OD	12,000	910	675	79
	39235-7		FC8T9/DayDLX	12	6500K	8 OD	12,000	910	675	79
	39116-9		FC8T9/Cool White Plus	12	Cool White, 4100K	8 OD	12,000	1050	775	62
32	39122-7		FC12T9/Soft White	12	3000K	12 OD	12,000	1900	1600	85
	26260-0		FC12T9/D	12	Daylight, 6500K	12 OD	12,000	1570	1300	79
	39117-7		FC12T9/Cool White Plus	12	Cool White, 4100K	12 OD	12,000	1800	1500	62
40	39118-5		FC16T9/Cool White Plus	12	Cool White, 4100K	16 OD	12,000	2500	1975	62

For the most current product information, go to the e-catalog on [www.philips.com](http://www.philips.com)

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For Black Light lamps, turn to page 111.

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## HomeLight Fluorescent Lamps

HomeLight Collection	<b>Cool White Plus</b>	<b>Soft White</b>	<b>Natural Sunshine</b>	<b>Daylight Deluxe</b>
The mood of the light	General purpose light for the home. Ideal for the garage, workshop or basement.	Comfortable, pleasant light that shows color accurately. Ideal for the kitchen, bathroom, or any room.	Simulates natural, full-spectrum light. Bright white light. Ideal for any room where more natural light is desired.	Creates a cool, refreshing environment. Arctic white light. Can be used in any room.
Color Scale: 3000 = Soft light 6500 = Vibrant, white light (a)	4100K	3000K	5000K	6500K
On a scale of 0 to 100, the lamp's ability to show colors accurately (b)	62	85	92	79
Also known as . . .	Cool, Cool White, Residential, Shoplight	Warm Deluxe, Kitchen & Bath, Warm White	Full Spectrum, Sunshine, Sunlight	Daylight, Daybright
(a) Color is a personal preference. Select a bulb that creates the mood you desire to have in the room. (b) A higher number can make a big difference, even in laundry rooms. You will be able to distinguish between similar colors.				

## Philips Specialty Fluorescent Lamps

### PLANT & AQUARIUM

Helps promote plant growth. Enhances the appearance of aquarium fish.



### BLACKLIGHT

True blacklight-blue fluorescent light. Great special effects.



Color is a personal preference. Select a bulb that creates the mood you desire to have in the room.



Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty. • Description	Nom. Length (In.)	Rated Avg. Life, Hrs. (202)	Rated Avg. Life, Years (240)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
<b>HomeLight T5 Fluorescent Lamps</b> Blister-Carded Linear Fluorescent Lamps; Miniature Bipin										
4	39218-3		F4T5/Soft White	12/1 3000K	6	6000	3	150	120	85
6	39219-1		F6T5/Soft White	12/1 3000K	9	7500	3	325	260	85
8	39220-9		F8T5/Soft White	12/1 3000K	12	7500	3	450	360	85
	39114-4		F8T5/Cool White Plus	12/1 4100K	12	7500	3	400	300	62
13	39221-7		F13T5/Soft White	12/1 3000K	21	7500	3	1000	800	85

## HomeLight T8 Fluorescent Lamps

 Individually Sleeved Fluorescent Lamps; Medium Bipin

15	39212-6		F15T8/Soft White	6/1 3000K	18	7500	3	1000	900	85
	39207-6		F15T8/Cool White Plus	6/1 4100K	18	7500	3	870	765	62
	39108-6		F15T8/Cool White Plus	6/1 4100K	24	7500	3	1175	1035	62
	39232-4		F15T8/DayDLX	6/1 6500K	18	7500	3	750	660	79
	39229-0		F15T8/Natural Sunshine	6/1 5000K	18	7500	3	590	475	92
	39223-3		F15T8/Blacklight	6/1 —	18	7500	—	—	—	—
39226-6			F15T8/Plant	6/1 —	18	7500	—	410	—	—
30	39216-7		F30T8/Soft White	6/1 3000K	36	7500	3	2500	2250	85
	39210-0		F30T8/Cool White Plus	6/1 4100K	36	7500	3	2200	1760	62
32	13360-3		F32T8/Cool White Plus	72/2 4100K, Coffin Pack	48	20,000	7	2850	2710	78
	13427-0		F32T8/Natural Sunshine	6 5000K	48	20,000	7	2950	2800	86
	13426-2		F32T8/Soft White	6 3000K	48	20,000	7	2950	2800	86

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Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty.	Description	Nom. Length (In.)	Rated Avg. Life, Hrs. (202)	Rated Avg. Life, Years (240)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
<b>HomeLight T12 Fluorescent Lamps</b> Individually Sleeved Fluorescent Lamps; Medium Bipin											
14	14150-7		F14T12/Soft White	6/1	3000K	15	9000	4	700	560	85
15	14146-5		F15T12/Soft White	6/1	3000K	18	9000	4	800	720	85
	14148-1		F15T12/Cool White Plus	6/1	4100K	18	9000	4	800	695	62
20	39120-1	ALTO	F20T12/Soft White	6/1	3000K	24	9000	4	1350	1215	85
	39209-2	ALTO	F20T12/Cool White Plus	6/1	4100K	24	9000	4	1200	1050	62
	39230-8		F20T12/Natural Sunshine	6/1	5000K	24	9000	4	850	755	92
	39233-2	ALTO	F20T12/DayDLX	6/1	6500K	24	9000	4	1075	960	79
	39224-1		F20T12/Blacklight	6/1	—	24	9000	—	—	—	—
	39227-4		F20T12/Plant	6/1	—	24	9000	—	600	—	—
30	39215-9	ALTO	F30T12/Soft White	6/1	3000K	36	18,000	7	2400	2160	85
	39109-4	ALTO	F30T12/Cool White Plus	6/1	4100K	36	18,000	7	2250	1900	62
40	39121-9	ALTO	F40T12/Soft White	6/1	3000K	48	20,000	7	3300	2970	85
	14751-2	ALTO	F40T12/Soft White	6/2	3000K	48	20,000	7	3300	2970	85
	39240-7	ALTO	F40T12/Soft White/15/2PK	15/2	3000K	48	20,000	7	3300	2970	85
	39217-5	ALTO	F40T12/Soft White/84/2PK	84/2	3000K	48	20,000	7	3300	2970	85
	39111-0	ALTO	F40T12/Cool White Plus	6/1	4100K	48	20,000	7	3200	2880	70
	22606-8	ALTO	F40T12/Cool White Plus	10	4100K	48	20,000	7	3200	2880	70
	39239-9	ALTO	F40T12/Cool White Plus/15/2PK	15/2	4100K	48	20,000	7	3200	2880	70
	39211-8	ALTO	F40T12/Cool White Plus/84/2PK	84/2	4100K	48	20,000	7	3200	2880	70
	39231-6	ALTO	F40T12/Natural Sunshine	6/1	5000K	48	20,000	7	2200	1915	92
	29491-8	ALTO	F40/HL EVERYWHERE	15/2	5000K	48	20,000	7	2200	1800	89
	39234-0	ALTO	F40T12/DayDLX	6/1	6500K	48	20,000	7	2325	2025	84
	38752-2	ALTO	F40T12/DayDLX	10	6500K	48	20,000	7	2325	2025	84
	39241-5	ALTO	F40T12/DayDLX/15/2PK	15/2	6500K	48	20,000	7	2325	2025	84
	39123-5	ALTO	F40T12/DayDLX/84/2PK	84/2	6500K	48	20,000	7	2325	2025	84
	39225-8		F40T12/Blacklight	6/1	—	48	20,000	—	—	—	—
	39228-2		F40T12/Plant	6/1	—	48	20,000	—	1600	—	—
60	20523-7	ALTO	F96T12/CW/EW/8/2PK	8/2	4100K	96	12,000	5	5400	4750	62
	13349-6	ALTO	F96T12/CW/EW/36/2PK	8/2	4100K	96	12,000	5	5400	4750	62
75	37663-2	ALTO	F96T12/DayDLX/8/2PK	8/2	6500K	96	12,000	5	4500	3950	84

**HomeLight Circline Fluorescent Lamps** T9 Circular 4-Pin Fluorescent Lamps

22	39222-5		FC8T9/Soft White	12/1	3000K	8 OD	12,000	4	1150	875	85
	39116-9		FC8T9/Cool White Plus	12/1	4100K	8 OD	12,000	4	1050	775	62
	39235-7		FC8T9/DayDLX	12/1	6500K	8 OD	12,000	4	910	675	79
32	39122-7		FC12T9/Soft White	12/1	3000K	12 OD	12,000	4	1900	1600	85
	39117-7		FC12T9/Cool White Plus	12/1	4100K	12 OD	12,000	4	1800	1500	62
40	39118-5		FC16T9/Cool White Plus	12/1	4100K	16 OD	12,000	4	2500	1975	62

For the most current product information, go to the e-catalog on [www.philips.com](http://www.philips.com)

Fluorescent symbols and footnotes located on page 87

This product utilizes ALTO® Lamp Technology



# Fluorescent Lamps

Individually Packaged

Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty.	Description	Nom. Length (In.)	Rated Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
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## UPC Lamps Labeled For Retail Sale (225)

### Silhouette T5 Fluorescent Lamp

<b>28</b>	14695-0	±	<b>F25T5/835/ALTO UPC</b>	40	TL835, 3500K	46	20,000	2900	2750	85
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### Preheat T8 T8 Medium Bipin Linear Fluorescent Lamps; Requires Use of Starters

<b>30</b>	13348-8	Ⓢ	<b>F30T8/Cool White Plus UPC</b>	24	Cool White, 4100K	36	7500	2200	2000	62
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### Rapid Start T8 T8 Medium Bipin Linear Fluorescent Lamps

<b>17</b>	13599-5		<b>F17T8/TL950 UPC</b>	25	TL90, 5000K	24	20,000	910	850	98
	16069-0	Ⓢ	<b>F17T8/Soft White UPC</b>	25	TL80, 3000K	24	20,000	1400	1300	85
<b>32</b>	13600-2		<b>F32T8/TL950 UPC</b>	25	TL90, 5000K	48	20,000	2000	1860	98
	13555-6	Ⓢ	<b>F32T8/TL850 UPC</b>	25	TL80, 5000K	48	20,000	2950	2800	86
	27278-1	Ⓢ	<b>F32T8/TL730 UPC</b>	25	TL70, 3000K	48	20,000	2850	2710	78
	27274-0	Ⓢ	<b>F32T8/TL735 UPC</b>	25	TL70, 3500K	48	20,000	2850	2710	78
	27269-0	Ⓢ	<b>F32T8/TL741 UPC</b>	25	TL70, 4100K	48	20,000	2850	2710	78

### Rapid Start U-Bent T8 T8 Medium Bipin

<b>32</b>	37888-5	Ⓢ	<b>FB32T8/TL735/6 UPC</b>	20	TL70, 3500K	22 3/8	20,000	2650	2370	75
	37889-3	Ⓢ	<b>FB32T8/TL741/6 UPC</b>	20	TL70, 4100K	22 3/8	20,000	2650	2370	75

### Preheat T12 T12 Medium Bipin Linear Fluorescent Lamps

<b>20</b>	38693-8		<b>F20T12/SPEC35 UPC</b>	30	SPEC, 3500K	24	9000	1275	1190	73
	21331-4	Ⓢ	<b>F20T12/D UPC</b>	30	Daylight, 6500K	24	9000	1075	960	79
	33948-1		<b>F20T12/Cool White Plus UPC</b>	30	Cool White, 4100K	24	9000	1200	1050	62

### Rapid Start T12 T12 Medium Bipin Linear Fluorescent Lamps

<b>30</b>	38694-6		<b>F30T12/SPEC35 UPC</b>	30	SPEC, 3500K	36	18,000	2350	2080	73
	13579-8		<b>F30T12/C50 UPC</b>	30	Colortone 50, 5000K	36	18,000	1650	1400	92
	38692-0	Ⓢ	<b>F30T12/D UPC</b>	30	Daylight, 6500K	36	18,000	1950	1700	79
	33949-9	Ⓢ	<b>F30T12/Cool White Plus UPC</b>	30	Cool White, 4100K	36	18,000	2250	1900	62
<b>34</b>	26793-0	Ⓢ	<b>F34/SPEC35/EW UPC</b>	30	SPEC, 3500K	48	20,000	2800	2520	73
	38695-3	Ⓢ	<b>F34/SPEC41/EW UPC</b>	30	SPEC, 4100K	48	20,000	2800	2520	70
	22046-7		<b>F34/CW/RS/EW</b>	10	Cool White, 4100K	48	20,000	2650	2300	62
	14121-8		<b>F34/CW/RS/EW</b>	10	Cool White, 4100K	48	20,000	2650	2300	62
	24475-6		<b>F34/CW/RS/EW UPC</b>	30	Cool White, 4100K	48	20,000	2650	2300	62
	39088-0		<b>F34/CW/RS/EW CONTRACTOR</b>	—	Cool White, 4100K	48	20,000	2650	2300	62

### Rapid Start U-Bent T12 T12 Medium Bipin

<b>34</b>	37839-8	Ⓢ	<b>FB34/CW/6/EW UPC</b>	12	Cool White, 4100K	22 3/8	18,000	2400	2050	62
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### Rapid Start T12 T12 Medium Bipin Linear Fluorescent Lamps

<b>40</b>	37530-3	Ⓢ	<b>F40/DX UPC</b>	30	Daylight, 6500K	48	20,000	2325	2025	84
	13096-2		<b>F40/Cool White Plus UPC</b>	30	Cool White Plus, 4100K	48	20,000	3200	2880	70
	26790-6		<b>F40/C50 UPC</b>	30	Colortone 50, 5000K	48	20,000	2200	1915	92

### Rapid Start U-Bent T12 T12 Medium Bipin

<b>40</b>	37875-8	Ⓢ	<b>FB40/SPEC35/6 UPC</b>	12	SPEC, 3500K	22 3/8	18,000	3050	2775	73
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### Slimline T12 T12 Single Pin Linear Fluorescent Lamps; Instant Start

<b>39</b>	38703-5	Ⓢ	<b>F48T12/CW UPC</b>	15	Cool White, 4100K	48	9000	2950	2600	62
<b>56</b>	36999-1	Ⓢ	<b>F72T12/CW UPC</b>	15	Cool White, 4100K	72	12,000	4450	3900	62
<b>60</b>	36631-0	Ⓢ	<b>F96T12/SPEC35/EW UPC</b>	15	SPEC, 3500K	96	12,000	5750	5400	73
	33994-5	Ⓢ	<b>F96T12/CW/EW UPC</b>	15	Cool White, 4100K	96	12,000	5400	4750	62
<b>75</b>	20574-0		<b>F96T12/C50 UPC</b>	15	Colortone 50, 5000K	96	12,000	4650	4200	92

### High Output T12 T12 Recessed D.C. Linear Fluorescent Lamps (207, 214)

<b>60</b>	36982-7	Ⓢ	<b>F48T12/CW/HO UPC</b>	15	Cool White, 4100K	48	12,000	4050	3500	62
<b>85</b>	36652-6	Ⓢ	<b>F72T12/CW/HO UPC</b>	15	Cool White, 4100K	72	12,000	6350	5500	62
<b>110</b>	38178-0	Ⓢ	<b>F96T12/CW/HO-O UPC</b>	15	Cool White, 4100K	96	12,000	8800	7650	62

For the most current product information, go to the e-catalog on [www.philips.com](http://www.philips.com)

Fluorescent symbols and footnotes located on page 87

Ⓢ This product utilizes ALTO® Lamp Technology

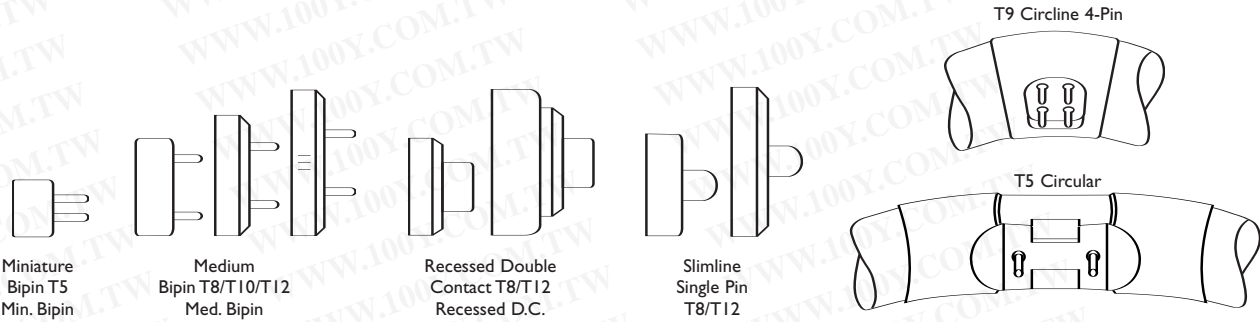
± Available Q1, 2006

**勝特力材料 886-3-5753170**  
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# T12 Fluorescent Lamps

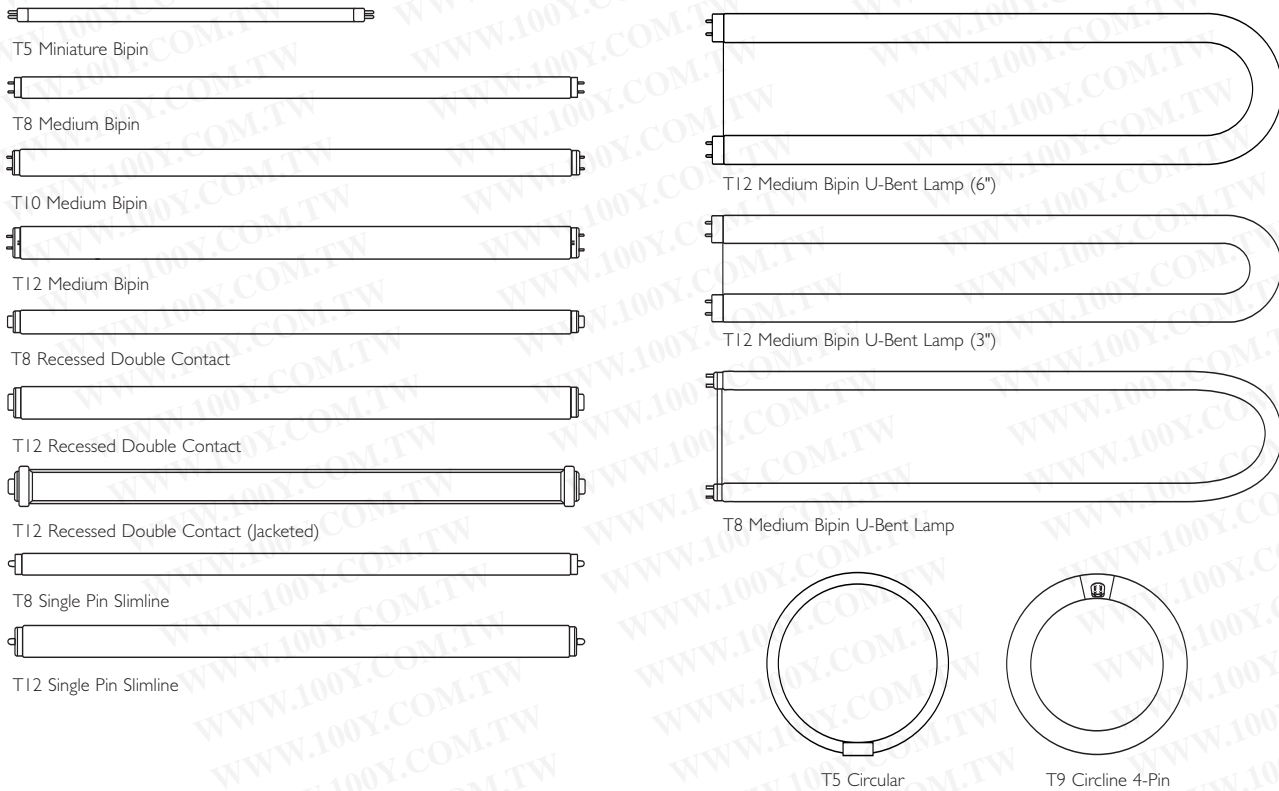
## Base Types and Bulb Shapes

### Base Types (Not Actual Sizes)



### Bulb Shapes (Not Actual Sizes)

The size and shape of a bulb is designated by a letter or letters followed by a number. The letter indicates the shape of the bulb while the number indicates the diameter of the bulb in eighths of an inch. For example, "T12" indicates a tubular shaped bulb having a diameter of 1 1/2 inches. The following illustrations show some of the more popular bulb shapes and sizes.



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- Exclusive to Philips Lighting Company
- Quantity shown is minimum shipping container—refer to Net Price Schedule for number of lamps to qualify as a standard case.
- § Energy Saving Product
- ENERGY STAR®
- ♦ Maximum Beam Candlepower
- X Orders will be shipped until inventory is depleted; no longer manufactured
- ⓔ This Bulb Meets US Federal Minimum Efficiency Standard
- † New since last printing
- ◇ Designed for Instant Start Operation

(202) Average life under specified test conditions with lamps turned off and restarted no more frequently than once every 3 operating hours. Lamp life is appreciably longer if lamps are started less frequently.

(203) Approximate initial lumens. The lamp lumen output is based upon lamp performance after 100 hours of operating life, when the output is measured during operation on a reference ballast under standard laboratory conditions.

(204) For expected lamp lumen output, commercial ballast manufacturers can advise the appropriate ballast factor for each of their ballasts when they are informed of the designated lamp. The ballast factor is a multiplier applied to the designated lamp lumen output.

(205) Approximate hours of life for F40 lamps operated by standard rapid start ballasts at three hours per start. When these lamps are operated on modified rapid start or preheat circuits the operating life will be reduced by approximately 25 percent. When employing dimming systems or energy-saving device systems, the device manufacturer can advise of the effect of their system upon lamp life.

(206) The pins of these lamps are short-circuited inside the end caps and the lamp will not operate on preheat or rapid start ballast circuits.

(207) Approximate initial lumens are for 800 ma. operation. For 1000 ma. operation, lumens are approximately 10% higher and watts approximately 15% higher.

(208) Design lumens are the approximate lamp lumen output at 40% of the lamp's rated average life. This output is based upon measurements obtained during lamp operation on a reference ballast under standard laboratory conditions.

(209) Operation on existing single lamp ballasts is not recommended because of marginal starting.

(210) Approximate initial lumens are for operation at 200 ma.

(211) Designed for service other than illumination.

(212) Nominal length measured from face of base to maximum distant outside point of U. Measurement does not include base pins. Leg spacing center to center approximately 6", for 1/6 and 3/8" for 1/3 lamps.

(213) Unique construction maintains light output over a wide range of operating temperatures.

(214) Econ-o-watt® lamps are only recommended for use on high power factor lead, indoor ballasts that meet ANSI standards. The lamps are not recommended for use in drafty areas, or locations where the ambient temperature is less than 60°F, except as noted. Also they should not be operated on low power factor ballasts, reduced light or reduced current ballasts, dimming ballasts or emergency system inverter ballasts.

(215) This lamp will operate on rapid start circuits provided ambient temperature is above 60°F, line voltage is 116 volts or higher and the lamps are located within 1/4" of the grounded starting aid (usually the reflector).

(216) The use of Amalgam Technology results in relatively stable light output across a broad range of ambient temperatures and operating positions.

(217) All Marathon® lamps are suitable for indoor or outdoor use down to -10°F. Outdoor use requires weather-protected fixture. All these products comply with part 18 of the FCC rules. These products may cause interference with AM radios, cordless telephones, and remote control devices. Interference may be caused after a brief 90-second lamp warm-up period. If interference continues, relocate the lamp away from the device or plug into a different outlet.

(218) All lamps are electronically ballasted and designed for 120 volt operation. Lamps operated in extreme environments will have reduced life (ie. recessed or enclosed lighting fixtures with elevated line voltage). Caution: except for lamps marked dimmable, do not use with dimmers. Before using these lamps with electronic timing or photocell devices, check to determine whether the device is compatible with compact fluorescent lamps. Use with incompatible devices will result in premature lamp failure. These products are UL listed.

(219) PL-S 5W lamps should not be used in sockets or adapters intended for PL-S 7W and PL-S 9W lamps.

(220) Total wattage consumption for adapter systems is higher than lamp wattage due to ballast losses. Total system wattage equals lamp wattage plus 2 ballast watts.

(221) The PL-C13W/27 is physically and electrically incompatible with the more popular PL-C13W/27/USA types.

(222) Low temperature starting down to -20°F at nominal line voltage.

(223) Meets the National Energy Policy Act of 1992 exemption for outdoor or cold temperature applications only.

(225) Lamp includes scannable Universal Product Code (UPC).

(226) SILHOUETTE™ T5 nominal lamp lengths are shorter than standard sizes. See chart on page 65 for details.

(227) Do not use in recessed cans or totally enclosed fixtures.

(228) Use in recessed cans or enclosed indoor fixtures could result in reduced lamp life.

(230) Average life under specified test conditions with lamps turned off and restarted no more frequently than once every 3 operating hours.

(231) Approximate initial lumens. The lamp lumen output is based upon lamp performance after 100 hours of operating life under standard laboratory conditions.

(232) Lamp is designed for use with most standard incandescent dimmers.

(233) Rated average life of 7,000 hours when wired in recessed cans or totally enclosed fixtures.

(234) Rated average life 15,000 hours. Operate on Instant Start ballasts only.

(235) Universal T8 lamps have full rated average life on Instant Start, Rapid Start and Programmed Start ballasts.

(236) Use base down only.

(237) Do not use in totally enclosed indoor fixtures.

(238) UL approved for outdoor wet location applications when used base up. Base down use requires a weather-protected enclosed fixture.

(239) Design lumens rated at 3 hours per start on Instant Start ballast.

(240) Life is based upon household usage of 6 hours average usage per day, 7 days per week. See individual product packaging for details.

(241) Average life under engineering data with lamps turned off and restarted once every 12 operating hours.

(242) HTA (High Temperature Application) HTA lamps are designed to achieve optimum light output in higher temperature applications (approx. 140–150°F). HTA lamps are not recommended for dimming.

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