

LINEAR FLUORESCENT LAMPS



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ProLume®

Advancing technologies and environmental focus have changed the face of Linear Fluorescent lighting. From ultra thin and efficient to specialized applications, Halco has your lighting needs covered with an assortment of reliable ProLume® Linear Fluorescent lamps and ballasts.

Eco-Shield®

The Eco-Shield mark indicates TCLP compliant lamps, a smart choice for environmental responsibility.

CEE

Halco is proud to offer one of the largest listings of CEE lamps in the industry, defining efficiency and high-performance lighting products and encouraging the use of energy-efficient products.

Participating utilities across the U.S. commonly offer significant rebates to commercial and industrial customers that utilize CEE qualified high performance and reduced wattage ballasts and lamps in new construction, replacement and retrofit projects. For an up-to-date list of our CEE listed items, please visit www.halcolighting.com/download.

Lamp and Ballast Systems

Imagine increasing lumens per watt performance while reducing total power consumption.

ProLume reduced wattage T8 lamps are perfect in applications that require near equivalent or slightly less light than standard 32W T8 lamps. ProLume lamps feature a performance-enhancing tri-phosphor coating that improves both the light quality (CRI) and efficiency of the lamps.

System Warranty

Halco's Linear Fluorescent lamps are engineered to provide optimum performance when operated by a ProLume ballast. In fact, Halco extends the warranty of its Linear Fluorescent lamps when installed with a new ProLume ballast for a maximum of three years from date of original installation. See warranty for details at www.halcolighting.com/download.

HOW TO READ A LINEAR FLUORESCENT LAMP TABLE

LAMP

Designations indicate shape and size. Illustrations can be found on page 69 and at the top of each page.

WATTS

Indicates the power consumed by the lamp during operation.

PRODUCT CODE

Abbreviated product description can also be used for ordering. A key to abbreviations can be found on page 75.

PACKAGE QUANTITY

Indicates minimum sell quantity and smallest shipping carton.

COLOR TEMP.

A term used to describe the color of a light source and is expressed in degrees "Kelvin"(K).

INITIAL LUMENS

The lamp's average light output after the initial 100 hours of operation.

AVERAGE LIFE

Average rated life expressed in hours.

Lamp	Watts	Product Number	Footnotes	Product Code	Description	Pkg. Qty.	Color Temp.	CRI	Initial Lumens	Mean Lumens	Avg. Life	Nom. Length
ProLume Preheat - Medium Bi-Pin												
T8	14	109370	1	F14T8CW	Cool White	25	4100	62	650	585	8000	14"
	15	9202	1	F15T8CW	Cool White	30	4100	62	770	690	8000	17"
	15	109212	1	F15T8DL	Daylight	30	6500	74	770	690	8000	17"
	15	109208	1	F15T8WW	Warm White	30	3000	53	845	750	8000	17"
	30	9225	1	F30T8CW	Cool White	30	4100	62	2100	1900	9000	35"

PRODUCT NUMBER

Use this number when placing an order.

FOOTNOTES & SYMBOLS

Related footnotes can be found on page 74.

DESCRIPTION

Lamp finish and other important information.

CRI

An international scale from 0 to 100 that indicates the relative color rendering value of a light source. The color rendering index expresses the degree to which colors will look "natural" under a given light source.

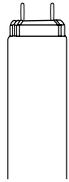
MEAN LUMENS

The lamp's average light output at 40% of rated life.

NOM. LENGTH

A measurement for fluorescent lamp length based on the length of the lamp plus an allowance for the luminaire's lamp holders.

LINEAR FLUORESCENT LAMPS



T8 Med.
Bi-Pin

Bulb	Watts	Product Number	Footnotes	Product Code	Description	Pkg. Qty.	Color Temp.	CRI	Initial Lumens	Mean Lumens	Avg. Life	Nom. Length
	25	109344	1	F25T8/741/ECO	741 Phosphor	25	4100	78	2150	2050	24000	36"
	25	109346	1	F25T8/750/ECO	750 Phosphor	25	5000	78	2150	2050	24000	36"
	25	109806	1	F25T8/830/ECO	830 Phosphor	25	3000	86	2250	2140	24000	36"
	25	109808	1	F25T8/835/ECO	835 Phosphor	25	3500	86	2250	2140	24000	36"
	25	109810	1	F25T8/841/ECO	841 Phosphor	25	4100	86	2250	2140	24000	36"
	25	35162	1,8	F25T8ES/830/ECO	830 Phosphor, Energy Saver	25	3000	86	2500	2380	24000	48"
	25	35172	1,8	F25T8ES/835/ECO	835 Phosphor, Energy Saver	25	3500	86	2500	2380	24000	48"
	25	35173	1,8	F25T8ES/841/ECO	841 Phosphor, Energy Saver	25	4100	86	2500	2380	24000	48"
	25	35174	1,8	F25T8ES/850/ECO	850 Phosphor, Energy Saver	25	5000	86	2500	2380	24000	48"
	28	35175	1	F28T8/830/ECO	830 Phosphor	25	3000	86	2800	2660	24000	48"
	28	109364	1	F28T8/835/ECO	835 Phosphor	25	3500	86	2800	2660	24000	48"
	28	90081	X 1	F28T8/835/ECO/IC/CS	835 Phosphor, CoverShield®	25	3500	86	2800	2660	24000	48"
	28	109366	1	F28T8/841/ECO	841 Phosphor	25	4100	86	2800	2660	24000	48"
	28	109368	1	F28T8/850/ECO	850 Phosphor	25	5000	86	2800	2660	24000	48"
	32	109412	L,1	F32T8/730/ECO	730 Phosphor	25	3000	78	2850	2700	24000	48"
	32	109414	L,1	F32T8/735/ECO	735 Phosphor	25	3500	78	2850	2700	24000	48"
	32	90084	1	F32T8/735/ECO/CS	735 Phosphor, CoverShield®	25	3500	78	2850	2700	24000	48"
	32	109398	1	F32T8/830/ECO	830 Phosphor	25	3000	86	3050	2900	24000	48"
	32	109400	1	F32T8/835/ECO	835 Phosphor	25	3500	86	3050	2900	24000	48"
	32	35176	1	F32T8/835/ECO/HL	835 Phosphor High Lumen	25	3500	86	3150	3000	24000	48"
	32	90094	1	F32T8/835/ECO/CS	835 Phosphor, CoverShield®	25	3500	86	3050	2900	24000	48"
	32	109402	1	F32T8/841/ECO	841 Phosphor	25	4100	86	3050	2900	24000	48"
	32	35177	1	F32T8/841/ECO/HL	841 Phosphor High Lumen	25	4100	86	3150	3000	24000	48"
	32	90095	1	F32T8/841/ECO/CS	841 Phosphor, CoverShield®	25	4100	86	3050	2900	24000	48"
	32	109404	1	F32T8/850/ECO	850 Phosphor	25	5000	86	3050	2900	24000	48"
	32	35178	1	F32T8/850/ECO/HL	850 Phosphor High Lumen	25	5000	86	3150	3000	24000	48"
	32	90096	1	F32T8/850/ECO/CS	850 Phosphor, CoverShield®	25	5000	86	3050	2900	24000	48"
	32	109428	1	F32T8/865/ECO	865 Phosphor	25	6500	86	3050	2900	24000	48"

Ⓜ Means this lamp meets Federal Minimum Efficiency standards.
Linear Fluorescent lamp symbols, footnotes and abbreviations are located on pages 74-75.

LINEAR FLUORESCENT

Symbols, Footnotes and Abbreviations

SYMBOLS

\$	Energy saving product.
ⓔ	This lamp meets Federal Minimum Efficiency standards.
♻️	ProLume® Eco-Shield® Low-Mercury Fluorescent lamps pass the Federal TCLP for hazardous wastes.
X	Product will be discontinued when inventory is depleted.
L	Legislated lamp will not be manufactured after July 14, 2014.

FOOTNOTES

1	Average life under specified test conditions with lamps turned off and restarted every three hours. Lamp life is longer if lamps are started less frequently.
2	Commercial average rated life under specified test conditions with lamps turned off and restarted every twelve hours. Lamp life is longer if lamps are started less frequently.
3	Nominal length is measured from face of base to maximum distant outside point of U-Bend. Leg spacing measured center to center is approximately 6" for /6 product, 3-5/8" for /3 product and 1-5/8" for FB31 product.
4	Initial lumens are based on 800-mA. operation. For 1000mA. operation, lumens are approximately 10% higher and wattage approximately 15% higher.
5	This energy saving lamp is only recommended for use on high power factor lead, indoor ballasts that meet ANSI standards. The lamp is not recommended for use in drafty areas or locations where the ambient temperature drops below 60°F, except as noted. Do not operate on low power factor ballasts, reduced light or reduced current ballasts, dimming ballasts or emergency system inverter ballasts.
6	Meets the National Energy Policy Act (EPACT) of 1992 exemption for outdoor or cold temperature applications only.
7	Lamp designed for use with Programmed Start ballast.
8	This lamp should only be operated on high efficiency or anti-striation type ballasts.

LINEAR FLUORESCENT

Symbols, Footnotes and Abbreviations

ABBREVIATIONS

3	Code abbreviation for 3-5/8" U-Bend lamps.
6	Code abbreviation for 6" U-Bend lamps.
/730	Suffix used to indicate lamps with CRI of 70+ and color temperature of 3000K.
/735	Suffix used to indicate lamps with CRI of 70+ and color temperature of 3500K.
/741	Suffix used to indicate lamps with CRI of 70+ and color temperature of 4100K.
/750	Suffix used to indicate lamps with CRI of 70+ and color temperature of 5000K.
/765	Suffix used to indicate lamps with CRI of 70+ and color temperature of 6500K.
/830	Suffix used to indicate lamps with CRI of 80+ and color temperature of 3000K.
/835	Suffix used to indicate lamps with CRI of 80+ and color temperature of 3500K.
/841	Suffix used to indicate lamps with CRI of 80+ and color temperature of 4100K.
/850	Suffix used to indicate lamps with CRI of 80+ and color temperature of 5000K.
/865	Suffix used to indicate lamps with CRI of 80+ and color temperature of 6500K.
BL	Code abbreviation for Blacklight lamps.
BLB	Code abbreviation for Blacklight-Blue lamps.
/CS	Suffix used to indicate CoverShield® safety coated lamps.
CW	Code abbreviation for Cool White lamps.
CWS	Code abbreviation for Cool White Supreme lamps.
CWX	Code abbreviation for ProLume® Cool White Deluxe lamps.
DL	Code abbreviation for Daylight lamps.
DX	Code abbreviation for Daylight lamps.
/ECO	Suffix used to indicate Eco-Shield® TCLP compliant lamps.
/ES	Suffix used to indicate Energy Saving Fluorescent lamps.
FB	Prefix used to indicate for Fluorescent U-Bend lamps.
FC	Prefix used to indicate for Fluorescent Circline lamps.
/HL	Suffix used to indicate High Lumen lamps.
/HO	Suffix used to indicate High Output lamps.
HOES	Code abbreviation to indicate High Output Energy Saver lamps.
HOO	Code abbreviation to indicate High Output lamps for outdoor or low temperature operation.
/IC	Suffix used to indicate ProLume® Industrial/Commercial service lamps.
/M	Suffix used to indicate Major brand Fluorescent lamps (GE, Philips, Osram/Sylvania).
/VHO	Suffix used to indicate Very High Output lamps.
WW	Code abbreviation for Warm White lamps.
/XL	Suffix used to indicate Extended Life lamps.

HALCO LIGHTING TECHNOLOGIES LAMP LIMITED WARRANTY

Halco Lighting Technologies (hereinafter called "Halco"), 2940 Pacific Drive, Norcross, GA 30071, warrants to the purchaser that Halco lamps will be free from defect in the material and workmanship from the date of manufacture for the following time periods:

Lamp Category	Warranty
Self-Ballasted CFL 42 watts or less:	2 years
Self-Ballasted CFL greater than 42 watts:	1 years
Plug-in Compact Fluorescent:	1 years
High Power LED:	5 years
IP65 Rated JC LED (40,000 hour rated life):	5 years
Standard JC LED (20,000 hour rated life), C7 and C9 LED:	2 years
Linear Fluorescent, non-pre-heat > 14 watts:	2 years
<i>ProLume Linear Fluorescent</i> , non-pre-heat > 14 watts operated on a <i>ProLume Ballast</i> :	3 years

All other lamps are covered under our Quality Assurance noted below.

Explicit Operating Conditions:

Self-Ballasted and Plug-In Compact Fluorescent Lamps: Based on maximum of 10 hours use per day.

Should any product fail to meet the warranty specified above, Halco, at its option, shall correct any defect by issuing a credit for the product or providing a free replacement lamp. This warranty is conditioned upon proper storage, installation, use and maintenance. Remedy is expressly limited to credit or replacement only.

This warranty is not applicable to any lamp, which is not installed and operated in accordance with the current edition of the National Electric Code (NEC), the Standards for Safety of Underwriters Laboratory, Inc. (UL), the Standards for the American National Standards Institute (ANSI), and with Halco instructions and guidelines for the lamp. This warranty is not applicable to any lamp subjected to abnormal stresses and operating conditions. Use of occupancy sensors, dimmers or programmable systems with some lamp types may void the warranty.

Halco reserves the right to examine all lamps prior to the determination of warranty status. All lamps must be retained for warranty claims. The warranty period starts on the date of installation. If the date of installation cannot be determined or is unknown, the warranty period will start with the date of the original purchase from Halco.

Warranty Exclusion Clause for Products Exported:

This warranty shall be void for products that are exported outside of the U.S. and its territories. The distributor, private labeler or OEM assumes all responsibility imposed by statute, regulation or law on products sold into these markets.

NO IMPLIED STATUTORY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE SHALL APPLY BEYOND THE AFOREMENTIONED WARRANTY PERIOD.

The foregoing warranty is exclusive of all other statutory, written or oral warranties, and no other warranties of any kind, statutory or otherwise, are given or herein expressed. The warranty sets forth Halco's responsibilities regarding the ballast and claimant's exclusive remedy.

Warranty claims are to be made in accordance with Halco's published Warranty Program, made available upon request.

LIMITATION OF LIABILITY. Halco will not under any circumstances, whether as a result of breach of contract, breach of warranty, tort, strict liability or otherwise, be liable for consequential, incidental, special or exemplary damages including, but not limited to, loss of profits or revenues, loss of use of lamp or any other goods or associated equipment or damage to any associated equipment, cost of capital, cost of substitute products, facilities of service, down time cost, or claims of claimant's customers. Halco's liability on any claim of any kind for any loss of damages arising out of, resulting from or concerning any aspect of this agreement from the products or services furnished hereunder shall not exceed the price of the specific lamp or lamps which gives rise to the claim.

Some states do not allow the exclusion of limitation of damages or the length of time for an implied warranty. Therefore, the limitations or exclusions of consequential or incidental damages and implied warranties may not apply to certain claimants. This warranty gives the claimant specific legal rights. The claimant may also have other rights, which vary from state to state.

Quality Assurance Guarantee

At Halco Lighting Technologies, we are committed to quality and service. We measure our success by one standard, customer satisfaction. With this in mind, we offer you the following: Should you encounter any product from Halco Lighting Technologies that fails to perform according to specifications, contact your account representative immediately. If our product is found to be defective in either material or workmanship, we will credit your account or replace the product at no charge. In order to better maintain our standard of quality, we reserve the right to inspect any defective products. We make this assurance to clearly demonstrate our commitment to your satisfaction.