

# ProLume<sup>®</sup>

LINEAR FLUORESCENT



15



# ProLume®

Advanced 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 a broad offering of reliable ProLume Fluorescent lamps and ballasts.

**Halco**  
LIGHTING TECHNOLOGIES  
ProLume Eco-Shield (Hg)  
F32T8/841/ECO/XL  
(E)

**Halco** ProLume Electronic Ballast  
Non-dimmable, Instant Start  
Indoor/Outdoor, No PCB, CdV 65W  
Complies with FCC Part 15 Class B, Not Consumer  
For US, Max. Size 11.5" x 1.5" x 0.75" for US  
Phosphor  
RoHS Compliant  
Halco Lighting Technologies | Norcross, GA  
Technical Sales/Support: (800) 477-5334  
www.halco-lighting.com



# Pro+

## ProPLUS ProLume System Warranty

- T8 & T5HO BALLAST - 60 MONTHS
- T8XL LAMP - 60 MONTHS
- T8 LAMP - 36 MONTHS
- T5HO LAMP - 36 MONTHS

Halco's Linear Fluorescent lamps are engineered to provide optimum performance when operated with a ProLume ballast. Halco stands behind the quality of ProLume lamps and ballasts increasing coverage on lamps. Now that's a Plus!

To receive the full benefits of Halco's ProPLUS ProLume System Warranty, please register your project at [warranty@halcolighting.com](mailto:warranty@halcolighting.com). For more information on Halco's ProPLUS ProLume System Warranty see page 31.

# Fluorescent Lighting Systems

## Fluorescent Lighting Systems

Fluorescent lighting systems are a combination of lamps and one or more ballasts. A Fluorescent lamp is available in different widths with different bases as well as varied light output and wattage options. Fluorescent ballasts deliver the proper voltage to start lamps and regulate the electric current flowing through the lamp after start-up or ignition then compensate for variations in line voltage.



**Halco** | ProLume Electronic Ballast  
*Performance* Ballast a semi-conductor

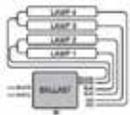
HIGH POWER FACTOR - INSTANT START  
 Sound Rated "A", Class P, Type 1 Outdoor, No PCBs, OCV 600V  
 Inherent terminal protection / Protection thermique intergrée  
 Install in accordance with National Electrical Code  
 Complies with FCC 47 CFR Part 18. Non Consumer  
 Type HL, Min Start Temp 0°F, 60°F for ES  
 PNM60172

Halco Lighting Technologies | Norcross, GA  
 Technical Information: (800) 677-3334  
 www.halcolighting.com



EP432IS/L/MV/HE		
LOW BALLAST FACTOR		
120-277V	50-60Hz	0.92 - 0.95 AMP
LAMP TYPE		
(H) F20T8	(H) F20T8/ES	(H) F15T8
(L) F30T8	(L) F25T8/ES	(L) F40T8
(H) F20T8	(H) F20T8	(L) F40T8
(L) F20T8	(L) F25T8	

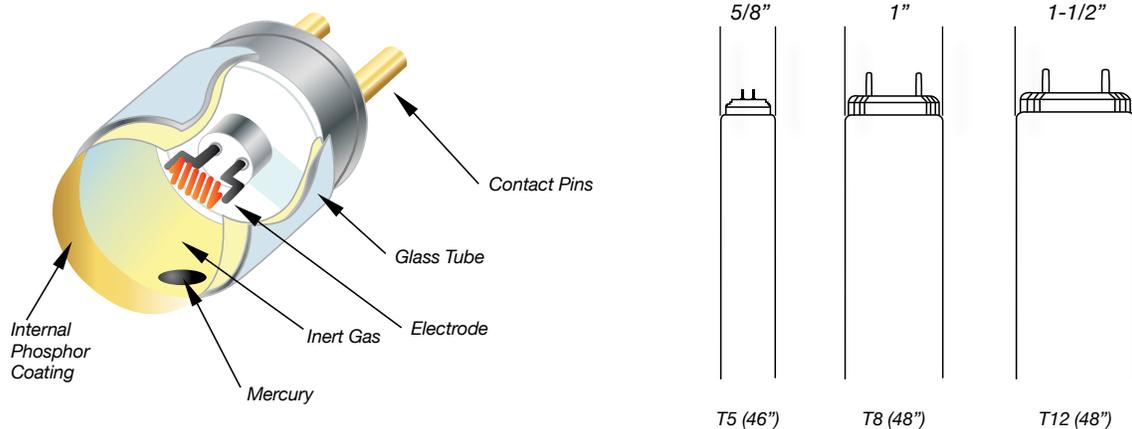
CAUTION: Disconnect power to ballast and fixture before installing or servicing.



**BALLAST MUST BE GROUNDED**  
 Install lamp within 3/4" of grounded metal cap off 1 Blue Wire for 3 Lamp Application

## Types of Fluorescent Lamps

Fluorescent lamps get their name from the fluorescent powders called phosphors, that are used to coat the inside surface of the tube. The cathodes located at the end of the tubes are heated by electricity. They release electrons that collide with other gases in the lamp to produce visual light. This process is repeated in different sizes and types of Fluorescent lamps. Standard lamp sizes include T8, T12 and T5.



## Types of Fluorescent Ballasts

Ballasts are available in different types and operate one or more lamps. Most common types of ballasts are Electronic and Magnetic.

Electronic ballasts are the most popular of Fluorescent ballasts because of their increased efficiency – by operating at a high frequency – and improved performance. Electronic ballasts are available with different starting types which affect overall lamp operation.

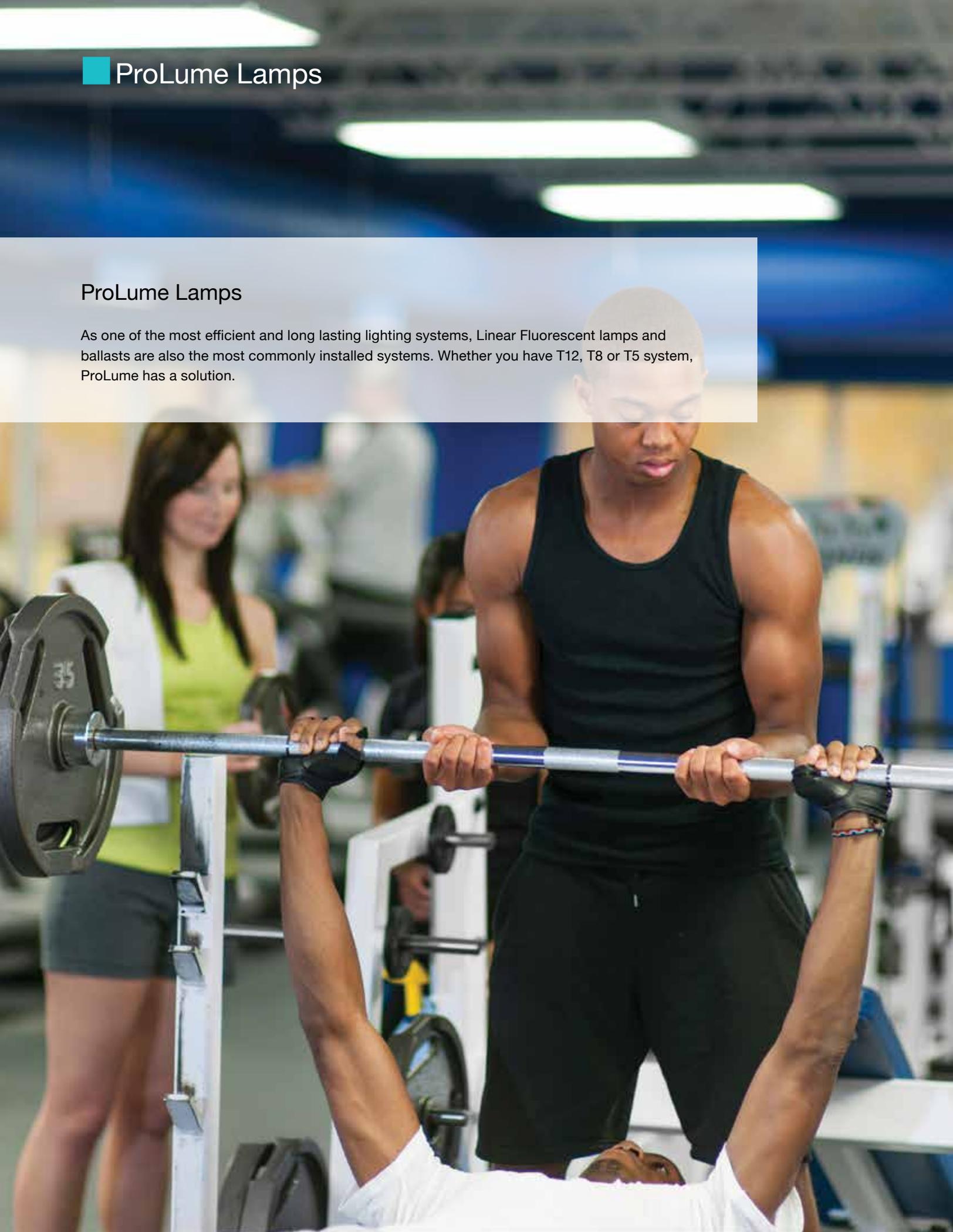
- Instant Start are ideal for applications that have long burn hours and minimal on-off switching.
- Rapid Start continue to heat the lamp's electrodes after the lamp has started, which allows for frequent on-off switching with no measurable loss in lamp life.
- Programmed Start are ideal for applications using occupancy sensors.  
All T5 and T5HO ballasts are programmed start type ballasts.

Ballasts have a measurement called Ballast Factor, which is the ability of the ballast to produce light from the lamps it is powering. The higher the ballast factor the more energy consumed powering the lamps. Likewise, the lower the ballast factor the less energy consumed. When deciding the correct Fluorescent lamp and ballast system, be sure to look at all of the factors.

Magnetic ballasts, while phased out by the Energy Policy Act of 2005, have recently reemerged. The new legislatively compliant versions are ideal replacements for ballasts in fixtures that operate T12 lamps or when replacing with High CRI T12 lamps and ballasts as part of regular maintenance.

## ProLume Lamps

As one of the most efficient and long lasting lighting systems, Linear Fluorescent lamps and ballasts are also the most commonly installed systems. Whether you have T12, T8 or T5 system, ProLume has a solution.



### ProLume T8

ProLume T8 lamps are the most popular of all Linear Fluorescent lamps, providing high light quality (86 CRI) and available in the full range of color temperatures with an average rated life of 24,000 hours.

### ProLume Reduced Wattage & Energy Saver

ProLume Reduced Wattage & Energy Saver (ES) T8 lamps replace standard 32W T8 lamps without compromise. These ProLume lamps feature performance-enhancing tri-phosphor coating that improves both light quality (CRI) and lamp efficiency.

### ProLume High Lumen (HL)

ProLume HL T8 lamps offer 10% more light output while consuming the same wattage as standard T8 lamps. High Lumen lamps are available in 3500K, 4100K and 5000K with a commercial life up-to 30,000 hours.

### ProLume Extended Life (XL)

ProLume XL T8 lamps (28W Energy Saver and 32W) surpass the lifetime of an LED lamp while maintaining the performance and value of a Linear Fluorescent lamp. ProLume Extended Life T8 lamps are the optimal solution for installations requiring life up-to 60,000 hours.

### ProLume High CRI F40T12

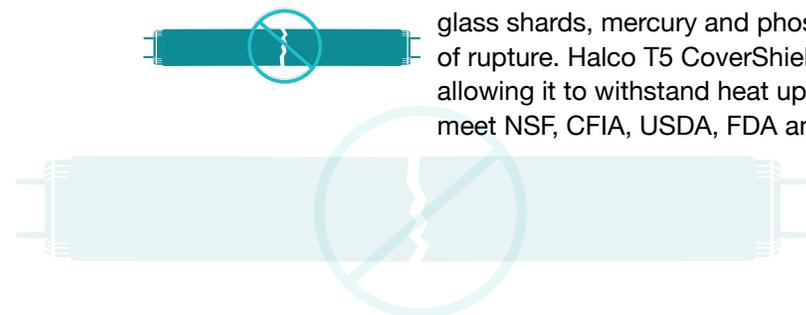
ProLume High CRI F40T12 lamps are a smart retrofit T12 solution, as they are not affected by Department of Energy (DoE) efficiency requirements and are available with high 90 CRI and in 4100K, 5000K and 6500K color temperatures.

### ProLume T5 & T5HO

ProLume T5 and T5HO lamps feature a compact tube uniform surface brightness for optimal light output. Coupled with an improved tri-phosphor coating which provides superior color rendering (up to-86 CRI), ProLume T5 and T5HO lamps are a super-efficient light source. T5 lamps operate at higher peak temperatures (95°F vs. 77°F for T8 and T12 lamps) making them ideal for warehouse high bay applications. T5 lamps are available in standard and Reduced Wattages in 3000K (standard only), 3500K, 4100K and 5000K.

### CoverShield®

CoverShield shatter-resistant lamps have a skin-tight coating that restricts glass shards, mercury and phosphors within the lamp's envelope in the event of rupture. Halco T5 CoverShield lamps are coated with the highest rated PFA, allowing it to withstand heat up-to 600°F. All Halco CoverShield linear lamps meet NSF, CFIA, USDA, FDA and OSHA regulations.





# ProLume Lamps

## ProLume Lamps

ProLume's broad Fluorescent lamp selection satisfies your need for energy savings, more or less light levels and even reducing lamp maintenance. ProLume lamps comply with environmental and legislative requirements to deliver the highest quality and reliable performance.



## Eco-Shield®

ProLume lamps carry the Eco-Shield mark. The U.S. Environmental Protection Agency's (EPA) Toxic Characteristic Leaching Procedure (TCLP) test determines the potential for the mercury contained within a Fluorescent lamp to seep into groundwater when it is disposed in a landfill. All ProLume Eco-Shield Low-Mercury Fluorescent lamps have been analyzed using the TCLP test and satisfy the requirements for non-hazardous products and in most states, require no unique method of disposal. Look for the shield logo for ProLume TCLP compliant lamps.



## General Service Fluorescent Lamp Rule Marking

In 2009, the U.S. Department of Energy (DoE) issued updated minimum lumens per watt standards for four foot and eight foot Fluorescent lamps. All ProLume T5 and T5HO lamps passed the minimum efficiency standards. T12 lamps with 87 CRI or greater, including ProLume High CRI F40T12 lamps, are exempt from the minimum efficiency standards. ProLume 800 series T8, F28T8 Energy Saver, F25T8ES Energy Saver, and F32T8 High Lumen lamps pass DoE requirements while offering higher quality, more efficient light and are intelligent replacements for lamps that fail to meet efficiency standards. ProLume Eco-Shield Fluorescent lamps are ideal for U.S. Green Building Council's Leadership in Energy & Environmental Design (LEED) due to their low mercury content.

## Utility Rebate Eligibility

Some ProLume lamps qualify for savings through additional utility rebates. ProLume lamps are engineered to meet the requirements of most utility rebate programs. Many utilities use the Consortium for Energy Efficiency® (CEE) Qualified list to develop their utility rebate programs. Look for CEE Listed ProLume T8 lamps including Reduced Wattage, High Performance (HL) and Extended Life (XL) as well as Halco High Performance and Reduced Wattage Ballasts to take advantage of available rebate monies. Check your local utility programs for other opportunities to save on your energy bill. Energy efficient ProLume lamps help qualify for custom rebate programs by lowering your overall energy consumption.



# ProLume Ballasts

## ProLume Ballasts

As the engine of the lamp and ballast system, ProLume Fluorescent ballasts pair with ProLume lamps for an uncompromising lighting solution.



ProLume ballasts are available with low (L), normal and high (H) ballast factors. When coupled with Energy Saver and High Lumen ProLume lamps, the system can be customized to the application. ProLume ballasts standard sizes are ideal replacements when looking to increase light output or reduce energy savings without installing new lighting fixtures.



**32W T8 SYSTEMS**

	Standard	Low	High Efficiency
Ballast Code	EP332IS/MV/HE	EP332IS/L/MV/HE	EP332IS/H/M/HE
Ballast Factor	0.88	0.78	1.18
Number of Lamps	3	3	3
Lumen Output	3050	3050	3050
Total Lumen Output	8052	7137	10797
Change in Light Output	-	-11%	+34%
Input Power (@120V)	84	76	108
Annual Energy Cost	\$33.26	\$30.10	\$42.77
Annual Energy Change	-	-\$3.17	+\$9.50

## ProFormance

Halco's exclusive ProLume ProFormance® Electronic ballasts, identifiable by an "EP" in the product code prefix, feature high power factor, less than 10% THD and are available in both Multi-Volt and dedicated voltage models. They are renowned for versatility, efficiency and minimal power loss. ProFormance ballasts operate most Fluorescent lamp types including T5, T5HO, T8, T12 and T12HO and are available in instant start, rapid start and programmed start.

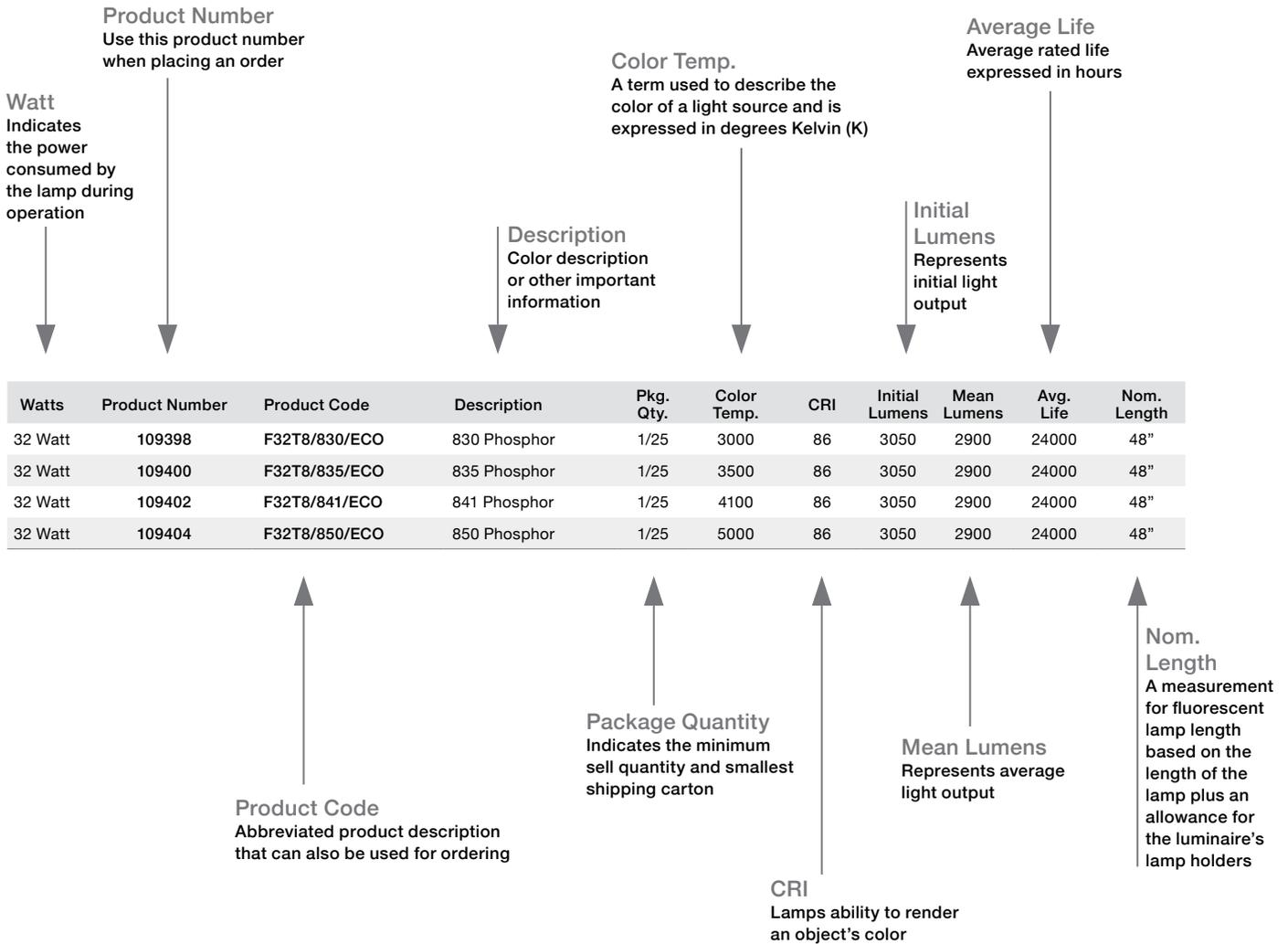
All ProLume Electronic ballasts are certified by Underwriters Laboratories® (UL) for use in the United States and are certified by either UL or Canadian Standards Association® (CSA) for use in Canada and backed by a 5-Year Warranty.

ProLume ballasts are Restriction of Hazardous Substances (RoHS) compliant and do NOT include any of the banned substances such as mercury. RoHS compliant ballasts are deemed less harmful to the environment, reduce landfill waste and decrease occupational hazards during manufacturing and recycling.



When ProLume CEE Qualified T8 lamps are installed with ProLume ballasts, they offer additional energy savings and superior performance.

## Lamp Ordering Information





## Ordering Information

### F32T8



Watts	Product Number	Product Code	Description	Pkg. Qty.	Color Temp.	CRI	Initial Lumens	Mean Lumens	Avg. Life	Nom. Length
32 Watt	109398	F32T8/830/ECO*	830 Phosphor	1/25	3000	86	3050	2900	24000	48"
32 Watt	109400	F32T8/835/ECO*	835 Phosphor	1/25	3500	86	3050	2900	24000	48"
32 Watt	109402	F32T8/841/ECO*	841 Phosphor	1/25	4100	86	3050	2900	24000	48"
32 Watt	109404	F32T8/850/ECO*	850 Phosphor	1/25	5000	86	3050	2900	24000	48"
32 Watt	109428	F32T8/865/ECO	865 Phosphor	1/25	6500	86	3050	2900	24000	48"

F32T8 ballasts can be found on pg.19-20  
\*CEE Listed Lamp

### F32T8 CoverShield®

Watts	Product Number	Product Code	Description	Pkg. Qty.	Color Temp.	CRI	Initial Lumens	Mean Lumens	Avg. Life	Nom. Length
32 Watt	90094	F32T8/835/ECO/CS	835 Phosphor, CoverShield®	1/25	3500	86	3050	2900	24000	48"
32 Watt	90095	F32T8/841/ECO/CS	841 Phosphor, CoverShield®	1/25	4100	86	3050	2900	24000	48"
32 Watt	90096	F32T8/850/ECO/CS	850 Phosphor, CoverShield®	1/25	5000	86	3050	2900	24000	48"

F32T8 ballasts can be found on pg. 19-20

### F32T8HL High Lumen



Watts	Product Number	Product Code	Description	Pkg. Qty.	Color Temp.	CRI	Initial Lumens	Mean Lumens	Avg. Life	Nom. Length
32 Watt	35176	F32T8/835/ECO/HL*	835 Phosphor, High Lumen	1/25	3500	86	3150	3000	24000	48"
32 Watt	35177	F32T8/841/ECO/HL*	841 Phosphor, High Lumen	1/25	4100	86	3150	3000	24000	48"
32 Watt	35178	F32T8/850/ECO/HL*	850 Phosphor, High Lumen	1/25	5000	86	3150	3000	24000	48"

F32T8 ballasts can be found on pg. 19-20  
\*CEE Listed Lamp

### F32T8XL Extended Life



Watts	Product Number	Product Code	Pkg. Qty.	Color Temp.	CRI	Initial Lumens	Mean Lumens	Nom. Length	Instant Start		Programmed Start	
									3 Hrs Start	12 Hrs Start	3 Hrs Start	12 Hrs Start
32 Watt	35159	F32T8/835/ECO/XL*	1/25	3500	86	2950	2800	48"	36000	40000	55000	60000
32 Watt	35160	F32T8/841/ECO/XL*	1/25	4100	86	2950	2800	48"	36000	40000	55000	60000
32 Watt	35161	F32T8/850/ECO/XL*	1/25	5000	86	2950	2800	48"	36000	40000	55000	60000

F32T8 ballasts can be found on pg. 19-20  
\*CEE Listed Lamp

### F28T8XL Extended Life



Watts	Product Number	Product Code	Pkg. Qty.	Color Temp.	CRI	Initial Lumens	Mean Lumens	Nom. Length	Instant Start		Programmed Start	
									3 Hrs Start	12 Hrs Start	3 Hrs Start	12 Hrs Start
28 Watt	35181	F28T8/835/ECO/XL*	1/25	3500	86	2700	2550	48"	36000	40000	55000	60000
28 Watt	35182	F28T8/841/ECO/XL*	1/25	4100	86	2700	2550	48"	36000	40000	55000	60000
28 Watt	35183	F28T8/850/ECO/XL*	1/25	5000	86	2700	2550	48"	36000	40000	55000	60000

F28T8 ballasts can be found on pg. 21-22  
\*CEE Listed Lamp

# ProLume T8 Lamps



## Ordering Information

### F28T8 Reduced Wattage



Watts	Product Number	Product Code	Description	Pkg. Qty.	Color Temp.	CRI	Initial Lumens	Mean Lumens	Avg. Life	Nom. Length
28 Watt	35175	F28T8/830/ECO*	830 Phosphor, Reduced Wattage	1/25	3000	86	2800	2660	24000	48"
28 Watt	109364	F28T8/835/ECO*	835 Phosphor, Reduced Wattage	1/25	3500	86	2800	2660	24000	48"
28 Watt	109366	F28T8/841/ECO*	841 Phosphor, Reduced Wattage	1/25	4100	86	2800	2660	24000	48"
28 Watt	109368	F28T8/850/ECO*	850 Phosphor, Reduced Wattage	1/25	5000	86	2800	2660	24000	48"

F28T8 ballasts can be found on pg. 21-22  
 \*CEE Listed Lamp

### F25T8 Energy Saver



Watts	Product Number	Product Code	Description	Pkg. Qty.	Color Temp.	CRI	Initial Lumens	Mean Lumens	Avg. Life	Nom. Length
25 Watt	35162	F25T8ES/830/ECO*	830 Phosphor, Energy Saver	1/25	3000	86	2500	2380	24000	48"
25 Watt	35172	F25T8ES/835/ECO*	835 Phosphor, Energy Saver	1/25	3500	86	2500	2380	24000	48"
25 Watt	35173	F25T8ES/841/ECO*	841 Phosphor, Energy Saver	1/25	4100	86	2500	2380	24000	48"
25 Watt	35174	F25T8ES/850/ECO*	850 Phosphor, Energy Saver	1/25	5000	86	2500	2380	24000	48"

F25T8ES ballasts can be found on pg. 23  
 \*CEE Listed Lamp

### F25T8



Watts	Product Number	Product Code	Description	Pkg. Qty.	Color Temp.	CRI	Initial Lumens	Mean Lumens	Avg. Life	Nom. Length
25 Watt	109340	F25T8/730/ECO	730 Phosphor	1/25	3000	78	2150	2050	24000	36"
25 Watt	109342	F25T8/735/ECO	735 Phosphor	1/25	3500	78	2150	2050	24000	36"
25 Watt	109344	F25T8/741/ECO	741 Phosphor	1/25	4100	78	2150	2050	24000	36"
25 Watt	109346	F25T8/750/ECO	750 Phosphor	1/25	5000	78	2150	2050	24000	36"
25 Watt	109806	F25T8/830/ECO	830 Phosphor	1/25	3000	86	2250	2140	24000	36"
25 Watt	109808	F25T8/835/ECO	835 Phosphor	1/25	3500	86	2250	2140	24000	36"
25 Watt	109810	F25T8/841/ECO	841 Phosphor	1/25	4100	86	2250	2140	24000	36"

F25T8 ballasts can be found on pg. 24

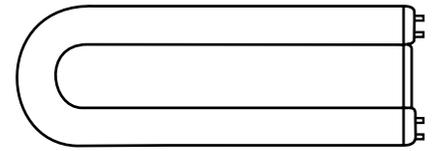
### F17T8



Watts	Product Number	Product Code	Description	Pkg. Qty.	Color Temp.	CRI	Initial Lumens	Mean Lumens	Avg. Life	Nom. Length
17 Watt	109320	F17T8/730/ECO	730 Phosphor	1/25	3000	78	1350	1280	24000	24"
17 Watt	109322	F17T8/735/ECO	735 Phosphor	1/25	3500	78	1350	1280	24000	24"
17 Watt	109324	F17T8/741/ECO	741 Phosphor	1/25	4100	78	1350	1280	24000	24"
17 Watt	109326	F17T8/750/ECO	750 Phosphor	1/25	5000	78	1350	1280	24000	24"
17 Watt	35170	F17T8/830/ECO	830 Phosphor	1/25	3000	86	1400	1300	24000	24"
17 Watt	109802	F17T8/835/ECO	835 Phosphor	1/25	3500	86	1400	1300	24000	24"
17 Watt	109804	F17T8/841/ECO	841 Phosphor	1/25	4100	86	1400	1300	24000	24"
17 Watt	35180	F17T8/850/ECO	850 Phosphor	1/25	5000	86	1400	1300	24000	24"

F17T8 ballasts can be found on pg. 25-26

## ProLume U-Bend Lamps



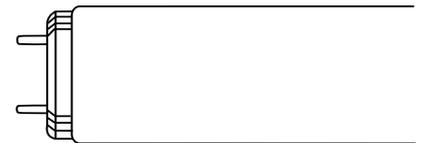
### Ordering Information

#### T8 U-Bend Lamps

Watts	Product Number	Product Code	Description	Pkg. Qty.	Color Temp.	CRI	Initial Lumens	Mean Lumens	Avg. Life	Nom. Length
28 Watt	35307	FB28/835/6/ECO/IC*	835 Phosphor 6"	20	3500	86	2650	2450	24000	22.6"
28 Watt	35321	FB28/841/6/ECO*	841 Phosphor 6"	20	4100	86	2650	2450	24000	22.6"
31 Watt	30301	FB31/830/ECO	830 Phosphor 1-5/8"	12	3000	86	2750	2600	24000	22.6"
31 Watt	30302	FB31/835/ECO	835 Phosphor 1-5/8"	12	3500	86	2750	2600	24000	22.6"
31 Watt	30303	FB31/841/ECO	841 Phosphor 1-5/8"	12	4100	86	2750	2600	24000	22.6"
31 Watt	30304	FB31/850/ECO	850 Phosphor 1-5/8"	12	5000	86	2750	2600	24000	22.6"
32 Watt	109812	FB32/830/6/ECO	830 Phosphor 6"	20	3000	86	2900	2750	24000	22.6"
32 Watt	109814	FB32/835/6/ECO	835 Phosphor 6"	20	3500	86	2900	2750	24000	22.6"
32 Watt	109816	FB32/841/6/ECO	841 Phosphor 6"	20	4100	86	2900	2750	24000	22.6"
32 Watt	109818	FB32/850/6/ECO	850 Phosphor 6"	20	5000	86	2900	2750	24000	22.6"

\*CEE Listed Lamp

## ProLume T12 Lamps



### Ordering Information

#### F40T12

Watts	Product Number	Product Code	Description	Pkg. Qty.	Color Temp.	CRI	Initial Lumens	Mean Lumens	Avg. Life	Nom. Length
40 Watt	35200	F40CWX/ECO	941 Cool White Deluxe	30	4100	90	2500	2300	24000	48"
40 Watt	35201	F40/950/ECO	950 Natural White Deluxe	30	5000	90	2250	2050	24000	48"
40 Watt	35202	F40DX/ECO	965 Daylight Deluxe	30	6500	90	2200	2000	24000	48"

F40T12 ballasts can be found on pg. 26

# ProLume T5 Lamps



## Ordering Information

### F28T5



Watts	Product Number	Product Code	Description	Pkg. Qty.	Color Temp.	CRI	Initial Lumens	Mean Lumens	Avg. Life	Nom. Length
28 Watt	35041	F28T5/830/ECO/IC	830 Phosphor	1/25	3000	86	2900	2750	24000	46"
28 Watt	35042	F28T5/835/ECO/IC	835 Phosphor	1/25	3500	86	2900	2750	24000	46"
28 Watt	35043	F28T5/841/ECO/IC	841 Phosphor	1/25	4100	86	2900	2750	24000	46"
28 Watt	35044	F28T5/850/ECO/IC	850 Phosphor	1/25	5000	86	2900	2750	24000	46"

F28T5 ballasts can be found on pg. 27

### F21T5



Watts	Product Number	Product Code	Description	Pkg. Qty.	Color Temp.	CRI	Initial Lumens	Mean Lumens	Avg. Life	Nom. Length
21 Watt	30125	F21T5/830/ECO/IC	830 Phosphor	1/25	3000	86	2100	1990	24000	34"
21 Watt	30126	F21T5/835/ECO/IC	835 Phosphor	1/25	3500	86	2100	1990	24000	34"
21 Watt	30127	F21T5/841/ECO/IC	841 Phosphor	1/25	4100	86	2100	1990	24000	34"

F21T5 ballasts can be found on pg. 27

### F14T5



Watts	Product Number	Product Code	Description	Pkg. Qty.	Color Temp.	CRI	Initial Lumens	Mean Lumens	Avg. Life	Nom. Length
14 Watt	30117	F14T5/830/ECO/IC	830 Phosphor	1/25	3000	86	1350	1270	24000	22"
14 Watt	30118	F14T5/835/ECO/IC	835 Phosphor	1/25	3500	86	1350	1270	24000	22"
14 Watt	30119	F14T5/841/ECO/IC	841 Phosphor	1/25	4100	86	1350	1270	24000	22"

F14T5 ballasts can be found on pg. 27



## Ordering Information

### F54T5HO



Watts	Product Number	Product Code	Description	Pkg. Qty.	Color Temp.	CRI	Initial Lumens	Mean Lumens	Avg. Life	Nom. Length
54 Watt	35081	F54T5/830/HO/ECO/IC	830 Phosphor High Output	1/25	3000	86	5000	4850	24000	46"
54 Watt	35082	F54T5/835/HO/ECO/IC	835 Phosphor High Output	1/25	3500	86	5000	4850	24000	46"
54 Watt	35083	F54T5/841/HO/ECO/IC	841 Phosphor High Output	1/25	4100	86	5000	4850	24000	46"
54 Watt	35084	F54T5/850/HO/ECO/IC	850 Phosphor High Output	1/25	5000	86	5000	4850	24000	46"
54 Watt	35086	F54T5/865/HO/ECO/IC	865 Phosphor High Output	1/25	6500	86	5000	4850	24000	46"

F54T5HO ballasts can be found on pg. 28

### F49T5HO



Watts	Product Number	Product Code	Description	Pkg. Qty.	Color Temp.	CRI	Initial Lumens	Mean Lumens	Avg. Life	Nom. Length
49 Watt	35085	F49T5/830/HO/ECO	835 Phosphor High Output, Energy Saver	1/25	3500	86	4900	4700	24000	46"
49 Watt	35088	F49T5/841/HO/ECO	841 Phosphor High Output, Energy Saver	1/25	4100	86	4900	4700	24000	46"
49 Watt	35089	F49T5/850/HO/ECO	850 Phosphor High Output, Energy Saver	1/25	5000	86	4900	4700	24000	46"

F49T5HO ballasts can be found on pg. 28

### F39T5HO



Watts	Product Number	Product Code	Description	Pkg. Qty.	Color Temp.	CRI	Initial Lumens	Mean Lumens	Avg. Life	Nom. Length
39 Watt	35061	F39T5/835/HO/ECO/IC	835 Phosphor High Output	1/25	3500	86	3500	3320	24000	34"
39 Watt	35062	F39T5/841/HO/ECO/IC	841 Phosphor High Output, Energy Saver	1/25	4100	86	3500	3320	24000	34"

F39T5HO ballasts can be found on pg. 29

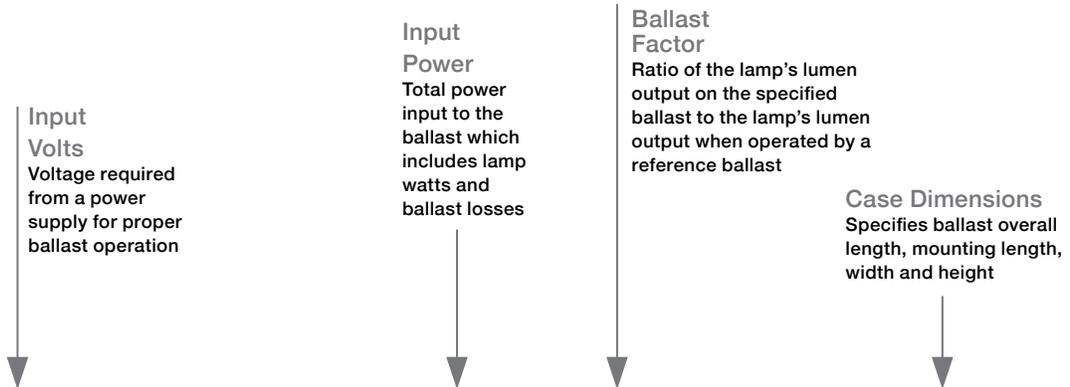
### F24T5HO



Watts	Product Number	Product Code	Description	Pkg. Qty.	Color Temp.	CRI	Initial Lumens	Mean Lumens	Avg. Life	Nom. Length
24 Watt	30134	F24T5/835/HO/ECO/IC	835 Phosphor High Output	1/25	3500	86	2000	1900	20000	22"
24 Watt	30135	F24T5/841/HO/ECO/IC	841 Phosphor High Output	1/25	4100	86	2000	1900	20000	22"

F24T5HO ballasts can be found on pg. 29

## Ballast Ordering Information



Lamp Type			Input Volts	Product Number	Product Code	Line Current (Amps)	Input Power (Watts)	Power Factor	Ballast Factor	THD %	Min. Start Temp.	Case Dimensions			
Qty.	Watts	Start Type										Length	Mounting	Width	Height
1	28	IS	120	50115	EP232IS/H/MV/HE	0.33	39	0.98	1.38	<10	60°F	9.50"	8.90"	1.30"	1.10"
1	28	IS	277	50115	EP232IS/H/MV/HE	0.15	39	0.97	1.38	<15	60°F	9.50"	8.90"	1.30"	1.10"
1	28	IS	120	50119	EP232IS/L/MV/HE	0.22	26	0.98	0.93	<10	60°F	9.50"	8.90"	1.30"	1.10"
1	28	IS	277	50119	EP232IS/L/MV/HE	0.10	24	0.85	0.93	<20	60°F	9.50"	8.90"	1.30"	1.10"



**Lamp Type**  
Indicates the type of lamp that the ballast will operate

**Product Number**  
Use this product number when placing an order

**Product Code**  
Abbreviated product description can also be used for ordering

**Line Current**  
The current that results when the line voltage is applied to a load

**Power Factor**  
Watts to volt amps ratio, which measures efficiency of a ballast's power usage

**THD%**  
Indicates percentage of Total Harmonic Distortion

**Min. Start Temp.**  
References minimum ambient temperature that the ballast will reliably start a lamp

## Ordering Information

### F32T8



Qty.	Lamp Type		Input Volts	Product Number	Product Code	Line Current (Amps)	Input Power (Watts)	Power Factor	Ballast Factor	THD %	Min. Start Temp	Case Dimensions			
	Watts	Start Type										Length	Mounting	Width	Height
1	32	IS	120	50118	E232IS/120/R/MC	0.55	34	0.52	1.03	<155	0°F	9.50"	8.90"	1.30"	1.10"
1	32	IS	120	50176	EP232IS/120/MC	0.34	38	0.94	1.01	<32	0°F	9.50"	8.90"	1.30"	1.00"
1	32	IS	120	50115	EP232IS/H/MV/HE	0.37	45	0.98	1.38	<10	0°F	9.50"	8.90"	1.30"	1.10"
1	32	IS	277	50115	EP232IS/H/MV/HE	0.17	45	0.97	1.38	<15	0°F	9.50"	8.90"	1.30"	1.10"
1	32	IS	120	50119	EP232IS/L/MV/HE	0.26	31	0.98	0.93	<10	0°F	9.50"	8.90"	1.30"	1.10"
1	32	IS	277	50119	EP232IS/L/MV/HE	0.12	30	0.95	0.93	<15	0°F	9.50"	8.90"	1.30"	1.10"
1	32	IS	120	50123	EP232IS/MV/HE	0.29	35	0.98	1.08	<10	0°F	9.50"	8.90"	1.30"	1.10"
1	32	IS	277	50123	EP232IS/MV/HE	0.13	34	0.97	1.08	<15	0°F	9.50"	8.90"	1.30"	1.10"
1	32	PS	120	50180	EP232PS/MV/HE	0.31	37	0.98	0.99	<10	0°F	9.50"	8.90"	1.38"	1.18"
1	32	PS	277	50180	EP232PS/MV/HE	0.14	37	0.93	0.99	<10	0°F	9.50"	8.90"	1.38"	1.18"
1	32	PS	120	50178	EP232PS/L/MV/HE	0.28	33	0.99	0.86	<10	0°F	9.50"	8.90"	1.38"	1.18"
1	32	PS	277	50178	EP232PS/L/MV/HE	0.12	33	0.98	0.86	<10	0°F	9.50"	8.90"	1.38"	1.18"
2	32	IS	120	50118	E232IS/120/R/MC	0.80	54	0.56	0.85	<130	0°F	9.50"	8.90"	1.30"	1.10"
2	32	IS	120	50176	EP232IS/120/MC	0.49	59	0.97	0.87	<30	0°F	9.50"	8.90"	1.30"	1.00"
2	32	IS	120	50115	EP232IS/H/MV/HE	0.62	74	0.98	1.18	<10	0°F	9.50"	8.90"	1.30"	1.10"
2	32	IS	277	50115	EP232IS/H/MV/HE	0.27	73	0.98	1.18	<10	0°F	9.50"	8.90"	1.30"	1.10"
2	32	IS	120	50119	EP232IS/L/MV/HE	0.40	49	0.98	0.78	<10	0°F	9.50"	8.90"	1.30"	1.10"
2	32	IS	277	50119	EP232IS/L/MV/HE	0.18	48	0.97	0.78	<15	0°F	9.50"	8.90"	1.30"	1.10"
2	32	IS	120	50123	EP232IS/MV/HE	0.46	56	0.98	0.89	<10	0°F	9.50"	8.90"	1.30"	1.10"
2	32	IS	277	50123	EP232IS/MV/HE	0.20	55	0.97	0.89	<10	0°F	9.50"	8.90"	1.30"	1.10"
2	32	PS	120	50180	EP232PS/MV/HE	0.50	60	0.99	0.88	<10	0°F	9.50"	8.90"	1.38"	1.18"
2	32	PS	277	50180	EP232PS/MV/HE	0.22	60	0.98	0.88	<10	0°F	9.50"	8.90"	1.38"	1.18"
2	32	PS	120	50178	EP232PS/L/MV/HE	0.44	52	0.99	0.77	<10	0°F	9.50"	8.90"	1.38"	1.18"
2	32	PS	277	50178	EP232PS/L/MV/HE	0.19	52	0.98	0.77	<10	0°F	9.50"	8.90"	1.38"	1.18"
2	32	IS	120	50121	EP332IS/H/MV/HE	0.69	81	0.98	1.27	<10	0°F	9.50"	8.90"	1.30"	1.10"
2	32	IS	277	50121	EP332IS/H/MV/HE	0.30	80	0.98	1.27	<10	0°F	9.50"	8.90"	1.30"	1.10"
2	32	IS	120	50168	EP332IS/L/MV/HE	0.49	58	0.98	0.92	<10	0°F	9.50"	8.90"	1.30"	1.10"
2	32	IS	277	50168	EP332IS/L/MV/HE	0.21	57	0.95	0.92	<15	0°F	9.50"	8.90"	1.30"	1.10"
2	32	IS	120	50170	EP332IS/MV/HE	0.53	63	0.98	0.99	<10	0°F	9.50"	8.90"	1.30"	1.10"
2	32	IS	277	50170	EP332IS/MV/HE	0.24	63	0.97	0.99	<15	0°F	9.50"	8.90"	1.30"	1.10"

## Ordering Information



### F32T8 continued

Lamp Type			Input Volts	Product Number	Product Code	Line Current (Amps)	Input Power (Watts)	Power Factor	Ballast Factor	THD %	Min. Start Temp	Case Dimensions			
Qty.	Watts	Start Type										Length	Mounting	Width	Height
3	32	IS	120	50158	E432IS/R/120/MC	1.35	86	0.50	0.90	<170	0°F	9.50"	8.90"	1.30"	1.10"
3	32	IS	120	50121	EP332IS/H/MV/HE	0.91	108	0.98	1.18	<10	0°F	9.50"	8.90"	1.30"	1.10"
3	32	IS	277	50121	EP332IS/H/MV/HE	0.39	106	0.98	1.18	<10	0°F	9.50"	8.90"	1.30"	1.10"
3	32	IS	120	50168	EP332IS/L/MV/HE	0.64	76	0.98	0.78	<10	0°F	9.50"	8.90"	1.30"	1.10"
3	32	IS	277	50168	EP332IS/L/MV/HE	0.27	74	0.98	0.78	<10	0°F	9.50"	8.90"	1.30"	1.10"
3	32	IS	120	50170	EP332IS/MV/HE	0.71	84	0.98	0.88	<10	0°F	9.50"	8.90"	1.30"	1.10"
3	32	IS	277	50170	EP332IS/MV/HE	0.31	83	0.98	0.88	<10	0°F	9.50"	8.90"	1.30"	1.10"
3	32	IS	120	50124	EP432IS/120/MC	0.79	94	0.98	1.00	<20	0°F	9.50"	8.90"	1.30"	1.10"
3	32	IS	120	50172	EP432IS/L/MV/HE	0.68	81	0.98	0.82	<10	0°F	9.50"	8.90"	1.30"	1.10"
3	32	IS	277	50172	EP432IS/L/MV/HE	0.29	80	0.98	0.82	<10	0°F	9.50"	8.90"	1.30"	1.10"
3	32	IS	120	50174	EP432IS/MV/HE	0.77	92	0.98	0.96	<10	0°F	9.50"	8.90"	1.30"	1.10"
3	32	IS	277	50174	EP432IS/MV/HE	0.34	89	0.98	0.96	<10	0°F	9.50"	8.90"	1.30"	1.10"
3	32	PS	120	50184	EP432PS/MV/HE	0.79	95	0.99	0.92	<10	0°F	9.50"	8.90"	1.65"	1.18"
3	32	PS	277	50184	EP432PS/MV/HE	0.35	95	0.98	0.93	<10	0°F	9.50"	8.90"	1.65"	1.18"
4	32	IS	120	50158	E432IS/120/R/MC	1.62	103	0.50	0.82	<165	0°F	9.50"	8.90"	1.30"	1.10"
4	32	IS	120	50124	EP432IS/120/MC	0.93	110	0.98	0.88	<20	0°F	9.50"	8.90"	1.30"	1.10"
4	32	IS	120	50172	EP432IS/L/MV/HE	0.82	98	0.98	0.77	<10	0°F	9.50"	8.90"	1.30"	1.10"
4	32	IS	277	50172	EP432IS/L/MV/HE	0.35	96	0.98	0.77	<10	0°F	9.50"	8.90"	1.30"	1.10"
4	32	IS	120	50174	EP432IS/MV/HE	0.93	112	0.99	0.88	<10	0°F	9.50"	8.90"	1.30"	1.10"
4	32	IS	277	50174	EP432IS/MV/HE	0.40	109	0.99	0.88	<10	0°F	9.50"	8.90"	1.30"	1.10"
4	32	PS	120	50184	EP432PS/MV/HE	0.95	114	0.99	0.86	<10	0°F	9.50"	8.90"	1.65"	1.18"
4	32	PS	277	50184	EP432PS/MV/HE	0.42	114	0.98	0.86	<10	0°F	9.50"	8.90"	1.65"	1.18"

Ordering Information

F28T8



Lamp Type			Input Volts	Product Number	Product Code	Line Current (Amps)	Input Power (Watts)	Power Factor	Ballast Factor	THD %	Min. Start Temp	Case Dimensions			
Qty.	Watts	Start Type										Length	Mounting	Width	Height
1	28	IS	120	50115	EP232IS/H/MV/HE	0.33	39	0.98	1.38	<10	60°F	9.50"	8.90"	1.30"	1.10"
1	28	IS	277	50115	EP232IS/H/MV/HE	0.15	39	0.97	1.38	<15	60°F	9.50"	8.90"	1.30"	1.10"
1	28	IS	120	50119	EP232IS/L/MV/HE	0.22	26	0.98	0.93	<10	60°F	9.50"	8.90"	1.30"	1.10"
1	28	IS	277	50119	EP232IS/L/MV/HE	0.10	24	0.85	0.93	<20	60°F	9.50"	8.90"	1.30"	1.10"
1	28	IS	120	50123	EP232IS/MV/HE	0.25	30	0.98	1.08	<10	60°F	9.50"	8.90"	1.30"	1.10"
1	28	IS	277	50123	EP232IS/MV/HE	0.11	29	0.97	1.08	<15	60°F	9.50"	8.90"	1.30"	1.10"
1	28	PS	120	50178	EP232PS/L/MV/HE	0.25	30	0.99	0.86	<10	60°F	9.50"	8.90"	1.38"	1.18"
1	28	PS	277	50178	EP232PS/L/MV/HE	0.11	30	0.97	0.86	<12	60°F	9.50"	8.90"	1.38"	1.18"
2	28	IS	120	50115	EP232IS/H/MV/HE	0.54	64	0.98	1.18	<10	60°F	9.50"	8.90"	1.30"	1.10"
2	28	IS	277	50115	EP232IS/H/MV/HE	0.24	63	0.98	1.18	<15	60°F	9.50"	8.90"	1.30"	1.10"
2	28	IS	120	50119	EP232IS/L/MV/HE	0.35	41	0.98	0.78	<10	60°F	9.50"	8.90"	1.30"	1.10"
2	28	IS	277	50119	EP232IS/L/MV/HE	0.15	41	0.97	0.78	<15	60°F	9.50"	8.90"	1.30"	1.10"
2	28	IS	120	50123	EP232IS/MV/HE	0.41	49	0.98	0.89	<10	60°F	9.50"	8.90"	1.30"	1.10"
2	28	IS	277	50123	EP232IS/MV/HE	0.18	47	0.97	0.89	<15	60°F	9.50"	8.90"	1.30"	1.10"
2	28	PS	120	50180	EP232PS/MV/HE	0.45	54	0.99	0.90	<10	60°F	9.50"	8.90"	1.38"	1.18"
2	28	PS	277	50180	EP232PS/MV/HE	0.20	54	0.98	0.90	<10	60°F	9.50"	8.90"	1.38"	1.18"
2	28	PS	120	50178	EP232PS/L/MV/HE	0.39	46	0.99	0.75	<10	60°F	9.50"	8.90"	1.38"	1.18"
2	28	PS	277	50178	EP232PS/L/MV/HE	0.17	47	0.98	0.75	<10	60°F	9.50"	8.90"	1.38"	1.18"
2	28	IS	120	50121	EP332IS/H/MV/HE	0.59	70	0.98	1.27	<10	60°F	9.50"	8.90"	1.30"	1.10"
2	28	IS	277	50121	EP332IS/H/MV/HE	0.26	69	0.97	1.27	<15	60°F	9.50"	8.90"	1.30"	1.10"
2	28	IS	120	50168	EP332IS/L/MV/HE	0.42	49	0.98	0.92	<10	60°F	9.50"	8.90"	1.30"	1.10"
2	28	IS	277	50168	EP332IS/L/MV/HE	0.19	48	0.95	0.92	<15	60°F	9.50"	8.90"	1.30"	1.10"
2	28	IS	120	50170	EP332IS/MV/HE	0.45	54	0.98	0.99	<10	60°F	9.50"	8.90"	1.30"	1.10"
2	28	IS	277	50170	EP332IS/MV/HE	0.20	53	0.97	0.99	<15	60°F	9.50"	8.90"	1.30"	1.10"

## Ordering Information

### F28T8 continued



Lamp Type			Input Volts	Product Number	Product Code	Line Current (Amps)	Input Power (Watts)	Power Factor	Ballast Factor	THD %	Min. Start Temp	Case Dimensions			
Qty.	Watts	Start Type										Length	Mounting	Width	Height
3	28	IS	120	50121	EP332IS/H/MV/HE	0.78	93	0.98	1.18	<10	60°F	9.50"	8.90"	1.30"	1.10"
3	28	IS	277	50121	EP332IS/H/MV/HE	0.34	92	0.98	1.18	<10	60°F	9.50"	8.90"	1.30"	1.10"
3	28	IS	120	50168	EP332IS/L/MV/HE	0.55	64	0.98	0.81	<10	60°F	9.50"	8.90"	1.30"	1.10"
3	28	IS	277	50168	EP332IS/L/MV/HE	0.24	63	0.95	0.81	<15	60°F	9.50"	8.90"	1.30"	1.10"
3	28	IS	120	50170	EP332IS/MV/HE	0.60	72	0.98	0.88	<10	60°F	9.50"	8.90"	1.30"	1.10"
3	28	IS	277	50170	EP332IS/MV/HE	0.26	70	0.98	0.88	<15	60°F	9.50"	8.90"	1.30"	1.10"
3	28	IS	120	50172	EP432IS/L/MV/HE	0.59	70	0.98	0.82	<10	60°F	9.50"	8.90"	1.30"	1.10"
3	28	IS	277	50172	EP432IS/L/MV/HE	0.26	70	0.97	0.82	<10	60°F	9.50"	8.90"	1.30"	1.10"
3	28	IS	120	50174	EP432IS/MV/HE	0.65	77	0.96	0.98	<10	60°F	9.50"	8.90"	1.30"	1.10"
3	28	IS	277	50174	EP432IS/MV/HE	0.29	77	0.96	0.98	<10	60°F	9.50"	8.90"	1.30"	1.10"
3	28	PS	120	50184	EP432PS/MV/HE	0.70	83	0.99	0.92	<10	60°F	9.50"	8.90"	1.65"	1.18"
3	28	PS	277	50184	EP432PS/MV/HE	0.31	83	0.97	0.93	<12	60°F	9.50"	8.90"	1.65"	1.18"
4	28	IS	120	50172	EP432IS/L/MV/HE	0.71	84	0.98	0.77	<10	60°F	9.50"	8.90"	1.30"	1.10"
4	28	IS	277	50172	EP432IS/L/MV/HE	0.31	84	0.98	0.77	<10	60°F	9.50"	8.90"	1.30"	1.10"
4	28	IS	120	50174	EP432IS/MV/HE	0.79	94	0.98	0.88	<10	60°F	9.50"	8.90"	1.30"	1.10"
4	28	IS	277	50174	EP432IS/MV/HE	0.35	94	0.98	0.88	<10	60°F	9.50"	8.90"	1.30"	1.10"
4	28	PS	120	50184	EP432PS/MV/HE	0.84	100	0.99	0.85	<10	60°F	9.50"	8.90"	1.65"	1.18"
4	28	PS	277	50184	EP432PS/MV/HE	0.37	100	0.98	0.86	<10	60°F	9.50"	8.90"	1.65"	1.18"

Ordering Information

F25T8/ES (F32T8 25W)



Qty.	Lamp Type		Input Volts	Product Number	Product Code	Line Current (Amps)	Input Power (Watts)	Power Factor	Ballast Factor	THD %	Min. Start Temp	Case Dimensions			
	Watts	Start Type										Length	Mounting	Width	Height
1	25	IS	120	50119	EP232IS/L/MV/HE	0.21	25	0.98	0.93	<10	60°F	9.50"	8.90"	1.30"	1.10"
1	25	IS	277	50119	EP232IS/L/MV/HE	0.10	23	0.80	0.93	<20	60°F	9.50"	8.90"	1.30"	1.10"
1	25	IS	120	50123	EP232IS/MV/HE	0.24	29	0.98	1.08	<10	60°F	9.50"	8.90"	1.30"	1.10"
1	25	IS	277	50123	EP232IS/MV/HE	0.11	29	0.97	1.08	<15	60°F	9.50"	8.90"	1.30"	1.10"
1	25	PS	120	50180	EP232PS/MV/HE	0.27	33	0.99	1.05	<10	60°F	9.50"	8.90"	1.38"	1.18"
1	25	PS	277	50180	EP232PS/MV/HE	0.12	33	0.95	1.05	<12	60°F	9.50"	8.90"	1.38"	1.18"
1	25	PS	120	50178	EP232PS/L/MV/HE	0.24	28	0.99	0.92	<10	60°F	9.50"	8.90"	1.38"	1.18"
1	25	PS	277	50178	EP232PS/L/MV/HE	0.11	29	0.97	0.92	<12	60°F	9.50"	8.90"	1.38"	1.18"
2	25	IS	120	50119	EP232IS/L/MV/HE	0.31	37	0.98	0.79	<10	60°F	9.50"	8.90"	1.30"	1.10"
2	25	IS	277	50119	EP232IS/L/MV/HE	0.13	35	0.95	0.79	<15	60°F	9.50"	8.90"	1.30"	1.10"
2	25	IS	120	50123	EP232IS/MV/HE	0.39	46	0.98	0.89	<10	60°F	9.50"	8.90"	1.30"	1.10"
2	25	IS	277	50123	EP232IS/MV/HE	0.17	45	0.97	0.89	<15	60°F	9.50"	8.90"	1.30"	1.10"
2	25	PS	120	50178	EP232PS/L/MV/HE	0.37	44	0.99	0.79	<10	60°F	9.50"	8.90"	1.38"	1.18"
2	25	PS	277	50178	EP232PS/L/MV/HE	0.16	44	0.98	0.79	<10	60°F	9.50"	8.90"	1.38"	1.18"
2	25	PS	120	50180	EP232PS/MV/HE	0.42	50	0.99	0.92	<10	60°F	9.50"	8.90"	1.38"	1.18"
2	25	PS	277	50180	EP232PS/MV/HE	0.19	50	0.97	0.92	<10	60°F	9.50"	8.90"	1.38"	1.18"
2	25	IS	120	50168	EP332IS/L/MV/HE	0.41	48	0.98	0.95	<10	60°F	9.50"	8.90"	1.30"	1.10"
2	25	IS	277	50168	EP332IS/L/MV/HE	0.18	47	0.95	0.92	<15	60°F	9.50"	8.90"	1.30"	1.10"
2	25	IS	120	50170	EP332IS/MV/HE	0.43	51	0.98	1.00	<10	60°F	9.50"	8.90"	1.30"	1.10"
2	25	IS	277	50170	EP332IS/MV/HE	0.19	51	0.97	1.00	<15	60°F	9.50"	8.90"	1.30"	1.10"
3	25	IS	120	50168	EP332IS/L/MV/HE	0.53	63	0.98	0.85	<10	60°F	9.50"	8.90"	1.30"	1.10"
3	25	IS	277	50168	EP332IS/L/MV/HE	0.23	61	0.95	0.85	<15	60°F	9.50"	8.90"	1.30"	1.10"
3	25	IS	120	50170	EP332IS/MV/HE	0.56	68	0.98	0.90	<10	60°F	9.50"	8.90"	1.30"	1.10"
3	25	IS	277	50170	EP332IS/MV/HE	0.25	68	0.97	0.90	<15	60°F	9.50"	8.90"	1.30"	1.10"
3	25	IS	120	50172	EP432IS/L/MV/HE	0.57	68	0.98	0.84	<10	60°F	9.50"	8.90"	1.30"	1.18"
3	25	IS	277	50172	EP432IS/L/MV/HE	0.25	68	0.95	0.84	<15	60°F	9.50"	8.90"	1.30"	1.18"
3	25	IS	120	50174	EP432IS/MV/HE	0.62	74	0.98	0.96	<10	60°F	9.50"	8.90"	1.30"	1.18"
3	25	IS	277	50174	EP432IS/MV/HE	0.27	73	0.98	0.96	<10	60°F	9.50"	8.90"	1.30"	1.18"
3	25	PS	120	50184	EP432PS/MV/HE	0.64	76	0.99	0.94	<10	60°F	9.50"	8.90"	1.65"	1.18"
3	25	PS	277	50184	EP432PS/MV/HE	0.28	76	0.98	0.94	<10	60°F	9.50"	8.90"	1.65"	1.18"
3	25	PS	120	50182	EP432PS/L/MV/HE	0.56	67	0.99	0.81	<10	60°F	9.50"	8.90"	1.65"	1.18"
3	25	PS	277	50182	EP432PS/L/MV/HE	0.25	68	0.98	0.82	<10	60°F	9.50"	8.90"	1.65"	1.18"
4	25	IS	120	50172	EP432IS/L/MV/HE	0.69	82	0.98	0.78	<10	60°F	9.50"	8.90"	1.65"	1.18"
4	25	IS	277	50172	EP432IS/L/MV/HE	0.30	81	0.98	0.78	<10	60°F	9.50"	8.90"	1.65"	1.18"
4	25	IS	120	50174	EP432IS/MV/HE	0.74	88	0.98	0.88	<10	60°F	9.50"	8.90"	1.65"	1.18"
4	25	IS	277	50174	EP432IS/MV/HE	0.32	88	0.98	0.88	<10	60°F	9.50"	8.90"	1.65"	1.18"
4	25	PS	120	50184	EP432PS/MV/HE	0.77	93	0.99	0.89	<10	60°F	9.50"	8.90"	1.65"	1.18"
4	25	PS	277	50184	EP432PS/MV/HE	0.34	93	0.98	0.89	<10	60°F	9.50"	8.90"	1.65"	1.18"
4	25	PS	120	50182	EP432PS/L/MV/HE	0.67	80	0.99	0.75	<10	60°F	9.50"	8.90"	1.65"	1.18"
4	25	PS	277	50182	EP432PS/L/MV/HE	0.30	81	0.98	0.75	<10	60°F	9.50"	8.90"	1.65"	1.18"

## Ordering Information



### F25T8

Lamp Type			Input Volts	Product Number	Product Code	Line Current (Amps)	Input Power (Watts)	Power Factor	Ballast Factor	THD %	Min. Start Temp	Case Dimensions			
Qty.	Watts	Start Type										Length	Mounting	Width	Height
1	25	IS	120	50118	E232IS/120/R/MC	0.46	27	0.50	1.01	<170	0°F	9.50"	8.90"	1.30"	1.10"
1	25	IS	120	50115	EP232IS/H/MV/HE	0.28	33	0.98	1.40	<10	0°F	9.50"	8.90"	1.30"	1.10"
1	25	IS	277	50115	EP232IS/H/MV/HE	0.13	33	0.96	1.40	<15	0°F	9.50"	8.90"	1.30"	1.10"
1	25	IS	120	50119	EP232IS/L/MV/HE	0.20	24	0.98	0.95	<10	0°F	9.50"	8.90"	1.30"	1.10"
1	25	IS	277	50119	EP232IS/L/MV/HE	0.09	22	0.80	0.95	<20	0°F	9.50"	8.90"	1.30"	1.10"
1	25	IS	120	50123	EP232IS/MV/HE	0.23	26	0.98	1.08	<10	0°F	9.50"	8.90"	1.30"	1.10"
1	25	IS	277	50123	EP232IS/MV/HE	0.10	26	0.96	1.08	<15	0°F	9.50"	8.90"	1.30"	1.10"
1	25	PS	120	50178	EP232PS/L/MV/HE	0.23	27	0.99	0.88	<10	0°F	9.50"	8.90"	1.38"	1.18"
1	25	PS	277	50178	EP232PS/L/MV/HE	0.10	28	0.97	0.88	<12	0°F	9.50"	8.90"	1.38"	1.18"
2	25	IS	120	50118	E232IS/120/R/MC	0.65	43	0.54	0.84	<140	0°F	9.50"	8.90"	1.30"	1.10"
2	25	IS	120	50176	EP232IS/120/MC	0.41	47	0.96	0.85	<30	0°F	9.50"	8.90"	1.30"	1.00"
2	25	IS	120	50115	EP232IS/H/MV/ME	0.45	54	0.98	1.20	<10	0°F	9.50"	8.90"	1.30"	1.10"
2	25	IS	277	50115	EP232IS/H/MV/ME	0.20	54	0.97	1.20	<15	0°F	9.50"	8.90"	1.30"	1.10"
2	25	IS	120	50119	EP232IS/L/MV/HE	0.31	37	0.98	0.79	<10	0°F	9.50"	8.90"	1.30"	1.10"
2	25	IS	277	50119	EP232IS/L/MV/HE	0.13	35	0.95	0.79	<15	0°F	9.50"	8.90"	1.30"	1.10"
2	25	IS	120	50123	EP232IS/MV/HE	0.36	42	0.98	0.89	<10	0°F	9.50"	8.90"	1.30"	1.10"
2	25	IS	277	50123	EP232IS/MV/HE	0.16	41	0.98	0.89	<15	0°F	9.50"	8.90"	1.30"	1.10"
2	25	PS	120	50180	EP232PS/MV/HE	0.40	47	0.99	0.83	<10	0°F	9.50"	8.90"	1.38"	1.18"
2	25	PS	277	50180	EP232PS/MV/HE	0.18	47	0.95	0.88	<10	0°F	9.50"	8.90"	1.30"	1.10"
2	25	PS	120	50178	EP232PS/L/MV/HE	0.35	41	0.99	0.74	<10	0°F	9.50"	8.90"	1.38"	1.18"
2	25	PS	277	50178	EP232PS/L/MV/HE	0.15	41	0.98	0.74	<10	0°F	9.50"	8.90"	1.30"	1.10"
2	25	IS	120	50121	EP332IS/H/MV/HE	0.55	65	0.98	1.28	<10	0°F	9.50"	8.90"	1.38"	1.18"
2	25	IS	277	50121	EP332IS/H/MV/HE	0.25	65	0.97	1.28	<15	0°F	9.50"	8.90"	1.30"	1.10"
2	25	IS	120	50170	EP332IS/MV/HE	0.42	50	0.98	1.00	<10	0°F	9.50"	8.90"	1.38"	1.18"
2	25	IS	277	50170	EP332IS/MV/HE	0.18	50	0.96	1.00	<15	0°F	9.50"	8.90"	1.30"	1.10"

## Ordering Information

### F17T8



Lamp Type			Input Volts	Product Number	Product Code	Line Current (Amps)	Input Power (Watts)	Power Factor	Ballast Factor	THD %	Min. Start Temp	Case Dimensions			
Qty.	Watts	Start Type										Length	Mounting	Width	Height
1	17	IS	120	50118	E232IS/120/R/MC	0.35	20	0.45	1.05	<150	0°F	9.50"	8.90"	1.30"	1.10"
1	17	IS	120	50115	EP232IS/H/MV/HE	0.22	25	0.95	1.42	<10	0°F	9.50"	8.90"	1.30"	1.10"
1	17	IS	277	50115	EP232IS/H/MV/HE	0.11	25	0.95	1.42	<15	0°F	9.50"	8.90"	1.30"	1.10"
1	17	IS	120	50119	EP232IS/L/MV/HE	0.14	17	0.98	0.96	<10	0°F	9.50"	8.90"	1.30"	1.10"
1	17	IS	277	50119	EP232IS/L/MV/HE	0.08	16	0.80	0.96	<20	0°F	9.50"	8.90"	1.30"	1.10"
1	17	IS	120	50123	EP232IS/MV/HE	0.16	21	0.98	1.10	<10	0°F	9.50"	8.90"	1.30"	1.10"
1	17	IS	277	50123	EP232IS/MV/HE	0.09	21	0.95	1.10	<15	0°F	9.50"	8.90"	1.30"	1.10"
1	17	PS	120	50180	EP232PS/MV/HE	0.20	23	0.98	1.03	<10	0°F	9.50"	8.90"	1.38"	1.18"
1	17	PS	277	50180	EP232PS/MV/HE	0.09	24	0.93	1.03	<12	0°F	9.50"	8.90"	1.38"	1.18"
1	17	PS	120	50178	EP232PS/L/MV/HE	0.28	33	0.99	0.86	<10	0°F	9.50"	8.90"	1.38"	1.18"
1	17	PS	277	50178	EP232PS/L/MV/HE	0.12	33	0.98	0.86	<10	0°F	9.50"	8.90"	1.38"	1.18"
2	17	RS	120	50110	E220RS/120	0.54	36	0.58	1.00	<130	0°F	6.46"	6.00"	1.37"	1.00"
2	17	IS	120	50118	E232IS/120/R/MC	0.52	31	0.52	0.86	<160	0°F	9.50"	8.90"	1.30"	1.00"
2	17	IS	120	50176	EP232IS/120/MC	0.31	33	0.90	0.86	<35	0°F	9.50"	8.90"	1.30"	1.00"
2	17	IS	120	50115	EP232IS/H/MV/HE	0.33	39	0.98	1.23	<10	0°F	9.50"	8.90"	1.30"	1.10"
2	17	IS	277	50115	EP232IS/H/MV/HE	0.15	39	0.96	1.23	<10	0°F	9.50"	8.90"	1.30"	1.10"
2	17	IS	120	50119	EP232IS/L/MV/HE	0.21	25	0.98	0.80	<10	0°F	9.50"	8.90"	1.30"	1.10"
2	17	IS	277	50119	EP232IS/L/MV/HE	0.09	23	0.85	0.80	<20	0°F	9.50"	8.90"	1.30"	1.10"
2	17	IS	120	50123	EP232IS/MV/HE	0.25	28	0.98	0.91	<10	0°F	9.50"	8.90"	1.30"	1.10"
2	17	IS	277	50123	EP232IS/MV/HE	0.11	28	0.97	0.91	<15	0°F	9.50"	8.90"	1.30"	1.10"
2	17	PS	120	50180	EP232PS/MV/HE	0.30	34	0.98	0.90	<10	0°F	9.50"	8.90"	1.38"	1.18"
2	17	PS	277	50180	EP232PS/MV/HE	0.13	35	0.96	0.90	<10	0°F	9.50"	8.90"	1.38"	1.18"
2	17	PS	120	50178	EP232PS/L/MV/HE	0.44	52	0.99	0.77	<10	0°F	9.50"	8.90"	1.38"	1.18"
2	17	PS	277	50178	EP232PS/L/MV/HE	0.19	52	0.98	0.77	<10	0°F	9.50"	8.90"	1.38"	1.18"

# ProLume T8 Ballasts

## Ordering Information

### F17T8 continued



Lamp Type			Input Volts	Product Number	Product Code	Line Current (Amps)	Input Power (Watts)	Power Factor	Ballast Factor	THD %	Min. Start Temp	Case Dimensions			
Qty.	Watts	Start Type										Length	Mounting	Width	Height
3	17	IS	120	50121	EP332IS/H/MV/HE	0.49	58	0.99	1.23	<10	0°F	9.50"	8.90"	1.30"	1.10"
3	17	IS	277	50121	EP332IS/H/MV/HE	0.22	57	0.96	1.23	<10	0°F	9.50"	8.90"	1.30"	1.10"
3	17	IS	120	50168	EP332IS/L/MV/HE	0.37	43	0.98	0.86	<10	0°F	9.50"	8.90"	1.30"	1.10"
3	17	IS	277	50168	EP332IS/L/MV/HE	0.16	43	0.95	0.86	<15	0°F	9.50"	8.90"	1.30"	1.10"
3	17	IS	120	50170	EP332IS/MV/HE	0.38	45	0.98	0.92	<10	0°F	9.50"	8.90"	1.30"	1.10"
3	17	IS	277	50170	EP332IS/MV/HE	0.17	45	0.96	0.92	<15	0°F	9.50"	8.90"	1.30"	1.10"
3	17	PS	120	50184	EP432PS/MV/HE	0.45	53	0.98	0.94	<10	0°F	9.50"	8.90"	1.65"	1.18"
3	17	PS	277	50184	EP432PS/MV/HE	0.21	53	0.95	0.94	<15	0°F	9.50"	8.90"	1.65"	1.18"
3	17	PS	120	50182	EP432PS/L/MV/HE	0.40	48	0.99	0.81	<10	0°F	9.50"	8.90"	1.65"	1.18"
3	17	PS	277	50182	EP432PS/L/MV/HE	0.18	49	0.96	0.82	<12	0°F	9.50"	8.90"	1.65"	1.18"
4	17	IS	120	50158	E432IS/120/R/MC	0.97	67	0.50	0.95	<175	0°F	9.50"	8.90"	1.30"	1.10"
4	17	IS	120	50124	EP432IS/120/MC	0.51	61	0.98	0.96	<20	0°F	9.50"	8.90"	1.30"	1.10"
4	17	IS	120	50172	EP432IS/L/MV/HE	0.46	54	0.98	0.79	<10	0°F	9.50"	8.90"	1.30"	1.18"
4	17	IS	277	50172	EP432IS/L/MV/HE	0.19	52	0.98	0.79	<10	0°F	9.50"	8.90"	1.30"	1.18"
4	17	IS	120	50174	EP432IS/MV/HE	0.49	59	0.98	0.93	<10	0°F	9.50"	8.90"	1.30"	1.10"
4	17	IS	277	50174	EP432IS/MV/HE	0.22	58	0.98	0.93	<10	0°F	9.50"	8.90"	1.30"	1.10"
4	17	PS	120	50184	EP432PS/MV/HE	0.52	63	0.98	0.87	<10	0°F	9.50"	8.90"	1.65"	1.18"
4	17	PS	277	50184	EP432PS/MV/HE	0.24	63	0.97	0.89	<12	0°F	9.50"	8.90"	1.65"	1.18"
4	17	PS	120	50182	EP432PS/L/MV/HE	0.46	55	0.99	0.73	<10	0°F	9.50"	8.90"	1.65"	1.18"
4	17	PS	277	50182	EP432PS/L/MV/HE	0.21	56	0.97	0.74	<12	0°F	9.50"	8.90"	1.65"	1.18"

# ProLume T12 Ballasts

## Ordering Information

### F40T12



Lamp Type			Input Volts	Product Number	Product Code	Line Current (Amps)	Input Power (Watts)	Power Factor	Ballast Factor	THD %	Min. Start Temp	Case Dimensions			
Qty.	Watts	Start Type										Length	Mounting	Width	Height
2	40	RS	120	52118	EP240RS/MV/MC	0.62	68	0.98	0.83	<150	32°F	9.50"	8.90"	1.30"	1.00"
2	40	RS	277	52118	EP240RS/MV/MC	0.26	66	0.98	0.83	<150	32°F	9.50"	8.90"	1.30"	1.00"

### F34T12



Lamp Type			Input Volts	Product Number	Product Code	Line Current (Amps)	Input Power (Watts)	Power Factor	Ballast Factor	THD %	Min. Start Temp	Case Dimensions			
Qty.	Watts	Start Type										Length	Mounting	Width	Height
2	34	RS	120	52118	EP240RS/MV/MC	0.55	60	0.98	0.83	<155	32°F	9.50"	8.90"	1.30"	1.00"
2	34	RS	277	52118	EP240RS/MV/MC	0.23	59	0.98	0.83	<155	32°F	9.50"	8.90"	1.30"	1.00"

## Ordering Information

### F28T5



Lamp Type			Input Volts	Product Number	Product Code	Line Current (Amps)	Input Power (Watts)	Power Factor	Ballast Factor	THD %	Min. Start Temp	Case Dimensions			
Qty.	Watts	Start Type										Length	Mounting	Width	Height
1	28	PS	120	52112	EP228PS/MV/MC	0.29	31	0.98	1.05	<10	0°F	9.50"	8.90"	1.30"	1.00"
1	28	PS	277	52112	EP228PS/MV/MC	0.12	31	0.98	1.05	<10	0°F	9.50"	8.90"	1.30"	1.00"
2	28	PS	120	52112	EP228PS/MV/MC	0.53	62	0.98	1.00	<10	0°F	9.50"	8.90"	1.30"	1.00"
2	28	PS	277	52112	EP228PS/MV/MC	0.23	61	0.98	1.00	<10	0°F	9.50"	8.90"	1.30"	1.10"

### F21T5



Lamp Type			Input Volts	Product Number	Product Code	Line Current (Amps)	Input Power (Watts)	Power Factor	Ballast Factor	THD %	Min. Start Temp	Case Dimensions			
Qty.	Watts	Start Type										Length	Mounting	Width	Height
1	21	PS	120	52112	EP228PS/MV/MC	0.22	25	0.98	1.06	<10	0°F	9.50"	8.90"	1.30"	1.00"
1	21	PS	277	52112	EP228PS/MV/MC	0.10	25	0.98	1.06	<10	0°F	9.50"	8.90"	1.30"	1.00"
2	21	PS	120	52112	EP228PS/MV/MC	0.39	49	0.98	1.02	<10	0°F	9.50"	8.90"	1.30"	1.00"
2	21	PS	277	52112	EP228PS/MV/MC	0.17	49	0.98	1.02	<10	0°F	9.50"	8.90"	1.30"	1.10"

### F14T5



Lamp Type			Input Volts	Product Number	Product Code	Line Current (Amps)	Input Power (Watts)	Power Factor	Ballast Factor	THD %	Min. Start Temp	Case Dimensions			
Qty.	Watts	Start Type										Length	Mounting	Width	Height
1	14	PS	120	52112	EP228PS/MV/MC	0.14	17	0.98	1.07	<10	0°F	9.50"	8.90"	1.30"	1.00"
1	14	PS	277	52112	EP228PS/MV/MC	0.07	17	0.98	1.07	<10	0°F	9.50"	8.90"	1.30"	1.00"
2	14	PS	120	52112	EP228PS/MV/MC	0.28	33	0.98	1.04	<10	0°F	9.50"	8.90"	1.30"	1.00"
2	14	PS	277	52112	EP228PS/MV/MC	0.13	33	0.98	1.04	<10	0°F	9.50"	8.90"	1.30"	1.00"

## Ordering Information



### F54T5HO

Lamp Type			Input Volts	Product Number	Product Code	Line Current (Amps)	Input Power (Watts)	Power Factor	Ballast Factor	THD %	Min. Start Temp	Case Dimensions			
Qty.	Watts	Start Type										Length	Mounting	Width	Height
1	54	PS	120	50140	E154HO/RS/120	0.75	51	0.50	0.95	<140	0°F	9.10"	8.75"	0.95"	0.95"
1	54	PS	120	50144	EP254HO/PS/MV	0.51	61	0.98	1.02	<10	0°F	16.90"	16.00"	1.20"	1.00"
1	54	PS	277	50144	EP254HO/PS/MV	0.23	61	0.98	1.02	<10	0°F	16.90"	16.00"	1.20"	1.00"
1	54	PS	120	52114	EP254HO/PS/MV/MC	0.52	62	0.98	1.03	<10	0°F	9.50"	8.90"	1.30"	1.00"
1	54	PS	277	52114	EP254HO/PS/MV/MC	0.23	62	0.90	1.03	<20	0°F	9.50"	8.90"	1.30"	1.00"
2	54	PS	120	52114	EP254HO/PS/MV/MC	1.00	120	0.98	1.00	<10	0°F	9.50"	8.90"	1.30"	1.00"
2	54	PS	277	52114	EP254HO/PS/MV/MC	0.43	117	0.97	1.00	<10	0°F	9.50"	8.90"	1.30"	1.00"
2	54	PS	120	50144	EP254HO/PS/MV	0.98	117	0.98	1.00	<10	0°F	16.90"	16.00"	1.20"	1.00"
2	54	PS	277	50144	EP254HO/PS/MV	0.42	117	0.98	1.00	<10	0°F	16.90"	16.00"	1.20"	1.00"
2	54	PS	120	50186	EP454HO/PS/MV	1.00	120	0.98	1.00	<10	-20°F	16.75"	16.30"	1.80"	1.20"
2	54	PS	277	50186	EP454HO/PS/MV	0.43	117	0.98	1.00	<10	-20°F	16.75"	16.30"	1.80"	1.20"
3	54	PS	120	50186	EP454HO/PS/MV	1.50	176	0.98	1.03	<10	-20°F	16.75"	16.30"	1.80"	1.20"
3	54	PS	277	50186	EP454HO/PS/MV	0.65	173	0.92	1.03	<10	-20°F	16.75"	16.30"	1.80"	1.20"
4	54	PS	120	50186	EP454HO/PS/MV	2.00	231	0.98	1.00	<10	-20°F	16.75"	16.30"	1.80"	1.20"
4	54	PS	277	50186	EP454HO/PS/MV	0.86	228	0.98	1.00	<10	-20°F	16.75"	16.30"	1.80"	1.20"



### F49T5HO

Lamp Type			Input Volts	Product Number	Product Code	Line Current (Amps)	Input Power (Watts)	Power Factor	Ballast Factor	THD %	Min. Start Temp	Case Dimensions			
Qty.	Watts	Start Type										Length	Mounting	Width	Height
1	49	PS	120	50144	EP254HO/PS/MV	0.50	59	0.99	1.00	<10	0°F	16.90"	16.00"	1.20"	1.00"
1	49	PS	277	50144	EP254HO/PS/MV	0.22	57	0.92	1.00	<10	0°F	16.90"	16.00"	1.20"	1.00"
1	49	PS	120	52114	EP254HO/PS/MV/MC	0.44	53	0.99	0.90	<10	0°F	9.50"	8.90"	1.30"	1.00"
1	49	PS	277	52114	EP254HO/PS/MV/MC	0.21	58	0.90	1.04	<10	0°F	9.50"	8.90"	1.30"	1.00"
2	49	PS	120	50144	EP254HO/PS/MV	0.94	112	0.99	0.96	<10	0°F	16.90"	16.00"	1.20"	1.00"
2	49	PS	277	50144	EP254HO/PS/MV	0.41	111	0.98	0.96	<10	0°F	16.90"	16.00"	1.20"	1.00"
2	49	PS	120	52114	EP254HO/PS/MV/MC	0.88	106	0.98	0.99	<10	0°F	9.50"	8.90"	1.30"	1.00"
2	49	PS	277	52114	EP254HO/PS/MV/MC	0.38	105	0.97	0.98	<10	0°F	9.50"	8.90"	1.30"	1.00"
2	49	PS	120	50186	EP454HO/PS/MV	0.88	106	0.98	0.97	<10	-20°F	16.90"	16.30"	1.80"	1.20"
2	49	PS	277	50186	EP454HO/PS/MV	0.39	104	0.96	0.97	<10	-20°F	16.90"	16.30"	1.80"	1.20"
3	49	PS	120	50186	EP454HO/PS/MV	1.34	162	0.98	0.97	<10	-20°F	16.90"	16.30"	1.80"	1.20"
3	49	PS	277	50186	EP454HO/PS/MV	0.61	159	0.93	0.97	<10	-20°F	16.90"	16.30"	1.80"	1.20"
4	49	PS	120	50186	EP454HO/PS/MV	1.78	214	0.98	0.97	<10	-20°F	16.90"	16.30"	1.80"	1.20"
4	49	PS	277	50186	EP454HO/PS/MV	0.78	209	0.96	0.97	<10	-20°F	16.90"	16.30"	1.80"	1.20"

## Ordering Information

### F39T5HO



Lamp Type			Input Volts	Product Number	Product Code	Line Current (Amps)	Input Power (Watts)	Power Factor	Ballast Factor	THD %	Min. Start Temp	Case Dimensions			
Qty.	Watts	Start Type										Length	Mounting	Width	Height
1	39	PS	120	50142	EP239HO/PS/MV	0.40	48	0.98	1.15	<12	0°F	16.90"	16.00"	1.20"	1.00"
1	39	PS	277	50142	EP239HO/PS/MV	0.18	48	0.98	1.15	<12	0°F	16.90"	16.00"	1.20"	1.00"
2	39	PS	120	50142	EP239HO/PS/MV	0.78	94	0.98	1.12	<10	0°F	16.90"	16.00"	1.20"	1.00"
2	39	PS	277	50142	EP239HO/PS/MV	0.34	94	0.98	1.12	<10	0°F	16.90"	16.00"	1.20"	1.00"

### F24T5HO



Lamp Type			Input Volts	Product Number	Product Code	Line Current (Amps)	Input Power (Watts)	Power Factor	Ballast Factor	THD %	Min. Start Temp	Case Dimensions			
Qty.	Watts	Start Type										Length	Mounting	Width	Height
1	24	PS	120	50142	EP239HO/PS/MV	0.24	29	0.98	1.10	<12	0°F	16.90"	16.00"	1.20"	1.00"
1	24	PS	277	50142	EP239HO/PS/MV	0.12	29	0.98	1.12	<12	0°F	16.90"	16.00"	1.20"	1.00"
2	24	PS	120	50142	EP239HO/PS/MV	0.44	52	0.98	1.00	<12	0°F	16.90"	16.00"	1.20"	1.00"
2	24	PS	277	50142	EP239HO/PS/MV	0.20	52	0.98	1.00	<12	0°F	16.90"	16.00"	1.20"	1.00"

## LAMP AND BALLAST 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 material and or workmanship from the date of installation for the following time periods:

Lamp Category	Warranty	Ballast Category	Warranty
Self-Ballasted Compact Fluorescent:	2 Years	Electronic Fluorescent:	5 Years
Plug-In Fluorescent:	1 Year	ProFormance Fluorescent:	5 Years
High Power LED:	5 Years	ProFormance Electronic Compact Fluorescent:	5 Years
SMD, C7 and C9 LED:	2 Years	Electronic Residential:	5 Years
Linear Fluorescent, non-pre-heat 14 watts or greater:	2 Years	Electromagnetic Compact Fluorescent:	3 Years
ProLume Linear Fluorescent, non-pre-heat > 14 watts operated on a ProLume Ballast:	3 Years	Electronic Sign:	3 Years
		Electronic HID:	3 Years
All other lamps are covered under our <i>Quality Assurance</i> noted below.		Core & Coil HID:	2 Years

### LAMP 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 Laboratories®, 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.

### BALLAST EXPLICIT OPERATING CONDITIONS:

Should any product not meet the warranty specified above, Halco, at its option, shall correct any defect, by either repairing any defective part or parts or by replacing any defective part or parts or by making available a new replacement ballast. This warranty is conditioned upon proper storage, installation, use and maintenance.

This warranty is not applicable to any ballast, which is not installed and operated in accordance with the current edition of the National Electric Code (NEC), the Standards for Safety of Underwriters Laboratories®, Inc. (UL), the Standards for the American National Standards Institute (ANSI), and with Halco instructions and guidelines for the ballast. This warranty is not applicable to any ballast subjected to abnormal stresses and operating conditions.

### WARRANTY EXCLUSION CLAUSE FOR PRODUCTS EXPORTED:

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

Ballast Warranty claims are to be made in accordance with Halco’s published Warranty Service 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 ballast 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 or 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 ballast or ballasts which gives rise to the claim.

Per the Halco Warranty Service Program, Halco will provide a maximum labor allowance of ten dollars (\$10.00) per ballast for Electronic Ballasts only.

Some states do not allow the exclusion or 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.



## ProPLUS SYSTEM WARRANTY

When ProLume ballasts and the ProLume lamps listed below are installed together as a system, Halco Lighting Technologies (“Halco”) warrants to the purchaser that its Linear Fluorescent lamps and ballasts will be free from defects in material and workmanship from the date of installation for the following time period:

Ballast	Lamp	Ballast Warranty	Lamp Warranty
ProLume T8	ProLume F17T8	60 Months	36 Months
ProLume T8	ProLume F25T8	60 Months	36 Months
ProLume T8	ProLume F25T8/ES	60 Months	36 Months
ProLume T8	ProLume F28T8	60 Months	36 Months
ProLume T8	ProLume F28T8/XL	60 Months	60 Months
ProLume T8	ProLume F32T8	60 Months	36 Months
ProLume T8	ProLume F32T8/XL	60 Months	60 Months
ProLume T8	ProLume F32T8/HL	60 Months	36 Months
ProLume T5HO	ProLume F49T5/HO	60 Months	36 Months
ProLume T5HO	ProLume F54T5/HO	60 Months	36 Months

### TERMS AND CONDITIONS:

If a lamp or ballast fails to operate within the specified period of time, Halco, at its option, will replace or repair the defective product. This limited warranty only applies when a ProLume ballast is properly wired and installed together with ProLume lamps as a system. This warranty is not applicable to any lamp or ballast that is not installed and operated in accordance with:

- The current edition of the National Electric Code (NEC)
- The Standards for Safety of Underwriter Laboratories®, Inc. (UL)
- The Standards of the American National Standards Institute (ANSI)
- The specific instructions and recommendations provided by Halco for the installation of the products

This warranty is also not applicable to any system, lamp and ballast, subjected to abnormal stresses and operating conditions including, but not limited to, excessive temperatures, excessive operating hours or switching cycles, improper lamp and ballast installations, or dirty or cracked sockets. Halco lamp warranty periods apply to lamps that are operated a maximum of 10 hours per day. Halco lamp warranty periods apply to lamps on burning cycles of 3 hours or more per start when installed with an instant start ballast and 15 minutes or more per start when installed with a programmed start ballast. If the lamps are installed in an occupancy sensor application, they must be installed with ProLume Programmed Start Ballasts. Halco ballast warranty period applies to a system that is properly wired and installed in an environment where the case temperature does not exceed 70°C and the ambient temperature does not exceed 40°C. Lamps and ballasts that have been subjected to abnormal stresses such as frequently-switched applications, high temperatures or under/over voltage as not included under this warranty.

Halco reserves the right to examine failed lamps and/or ballasts to determine the cause of failure, patterns of usage and applicability of warranty. 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. To be eligible for this warranty, the system must be registered with Halco within thirty (30) days from the date of installation. Purchaser must use Halco Warranty Registration online form, complete the form in accordance with its instructions and receive an acknowledgement of the installation from Halco.

**NO STATUTORY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS MADE OR IS TO BE IMPLIED.** 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. Purchaser’s sole remedy and Halco’s exclusive responsibility shall be only those set forth herein.

### WARRANTY CLAIM:

To make a warranty claim, the purchaser must notify their Halco representative within thirty days of failure. This warranty extends only to the purchaser of the lamps and ballasts. Halco honors valid warranty claims made by the purchaser resulting from warranty claims made by the purchaser’s customers and indirect customers. The purchaser or customer must retain failed product for examination by Halco. Failure to follow these procedures will void this warranty.

**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 the lamp/ballast system or any other goods or associated equipment or damage to any associated equipment, cost of capital, cost of substitute products, facility of services, down time cost, or claims of claimant’s customers. Halco’s liability on any claim of any kind for any loss or damage arising out of, resulting from or concerning any aspect of this warranty or from the product or services furnished hereunder shall not exceed the price of the specific lamp or ballast which gives rise to the claim. Halco will provide a maximum labor allowance of ten dollars (\$10.00) per ballast for Electronic Ballasts only.

Questions about this warranty:

Contact Halco Lighting or your local Halco Representative at 800.677.3334 or email [warranty@halcolighting.com](mailto:warranty@halcolighting.com).



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