

# PRODUCT INFORMATION

## LED T8 dual mode (ballast bypass/ballast compatible) 1<sup>5</sup>/<sub>8</sub>" u-bend lamps

Direct replacements for fluorescent T8 u-bend lamps in existing fixtures with or without ballasts.

### Applications/Features

- Over 50% energy savings vs. standard T8 systems
- Ballast compatible and ballast bypass in one lamp
- Bypass mode works in single or double ended wiring†
- Protection from arcing
- 120-277V in bypass mode
- Damp location
- NSF certified
- DLC 4.2 listed
- C-UL-us listed—ballast compatible
- c-UL-us Classified—ballast bypass
- Long life—50,000 hours
- 5 Year warranty\*\*



### LED T8 Dual Mode U-bend Lamps—Ballast Compatible



Item Number	Lamp Description	W	CRI	CCT	Lm	M.O.L. (Inches)	Life/ Hrs.	UPC	Pk./ Mstr.
S18450	13T8/U1-G13/LED/830/DUAL	13	80	3000K	1800	22 ½	50K	045923184505	24
S18451	13T8/U1-G13/LED/835/DUAL	13	80	3500K	1800	22 ½	50K	045923184512	24
S18452	13T8/U1-G13/LED/840/DUAL	13	80	4000K	1900	22 ½	50K	045923184529	24
S18453	13T8/U1-G13/LED/850/DUAL	13	80	5000K	2000	22 ½	50K	045923184536	24

May not be compatible with all instant start, rapid start, dimmable, and emergency ballasts. Visit [www.satco.com](http://www.satco.com) for an approved list.  
 \*\* See separate warranty for complete terms and conditions.

### LED T8 Dual Mode U-bend Lamps—Ballast Bypass



Item Number	Lamp Description	W	V	CRI	CCT	Lm	M.O.L. (Inches)	Life/ Hrs.	UPC	Pk./ Mstr.
S18450	13T8/U1-G13/LED/830/DUAL	13	120-277	80	3000K	1800	22 ½	50K	045923184505	24
S18451	13T8/U1-G13/LED/835/DUAL	13	120-277	80	3500K	1800	22 ½	50K	045923184512	24
S18452	13T8/U1-G13/LED/840/DUAL	13	120-277	80	4000K	1900	22 ½	50K	045923184529	24
S18453	13T8/U1-G13/LED/850/DUAL	13	120-277	80	5000K	2000	22 ½	50K	045923184536	24

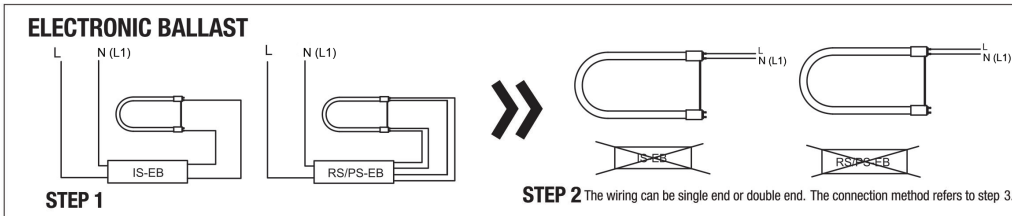
# LED T8 dual mode u-bend lamps

## Wiring-Ballast Compatible

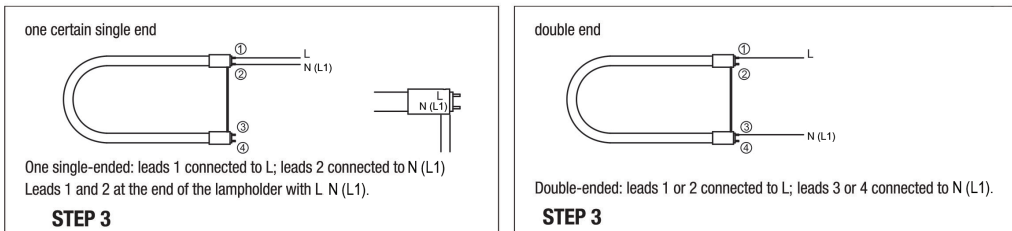
- For instant start ballasts on the approved list, ensure that LED/fluorescent sockets are wired in a shunt configuration according to manufacturer's wiring diagram.
- For rapid start ballasts on the approved list, non-shunted LED/fluorescent sockets are needed and wired according to manufacturer's wiring diagram.

## Wiring Options-Ballast Bypass - 120-277V

Remove the existing ballast and existing starter (if present) from the fixture.



Rewire the fixture to be one certain single end/double end power.



## System Performance - LED T8 Dual Mode U-bend Lamps—Ballast Compatible

System Performance Chart				Bare Lamp (Rated)		Bare Lamp Wattage			System Wattage			Initial Lumens			Lifetime		
Item Nbr.	Description	CCT (K)	Length (ft)	Nominal Wattage	Nominal Lumens	LBF (0.78)	NBF (0.88)	HBF (1.18)	LBF (0.78)	NBF (0.88)	HBF (1.18)	LBF (0.78)	NBF (0.88)	HBF (1.18)	LBF (0.78)	NBF (0.88)	HBF (1.18)▼
S18450	CH1185SD-13W-3000K	3000	2	13	1800	11.0	13.0	18	14.0	16.0	21.0	1600	1800	2350	>50Khrs	>50Khrs	/
S18451	CH1185SD-13W-3500K	3500	2	13	1800	11.0	13.0	18	14.0	16.0	21.0	1600	1800	2350	>50Khrs	>50Khrs	/
S18452	CH1185SD-13W-4000K	4000	2	13	1900	11.0	13.0	18	14.0	16.0	21.0	1700	1900	2500	>50Khrs	>50Khrs	/
S18453	CH1185SD-13W-5000K	5000	2	13	2000	11.0	13.0	18	14.0	16.0	21.0	1750	2000	2600	>50Khrs	>50Khrs	/

\*\*\* Power must be turned off prior to installing lamps. Sockets must be in good working order, not broken, cracked or electrically compromised.  
If arcing occurs at the lamp pin, thermal fuse may activate to avoid overheating of lamp.

▼ LED tube life will change with ballast factor, configurations producing ballast factors above 1.18 are not allowed.