



# LED Tube Ballast Compatibility



Last Updated 8 December 2023

# Will My Ballast Work with LED Tubes?

## Yes

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Electronic Instant Start

Electronic Programmed Start

Magnetic Ballasts

## No

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All Others

Note: If your ballast is failing or not compatible, consider Hybrid Type A/B or Direct Wire Type B tubes that eliminate the ballast.

# How to identify your LED Tube?

## Tube Diameter

All LED Tubes, regardless of driver type, have a designation for their size using the letter “T” and then a number which is the diameter of the LED tube measured in eighths of an inch.

T5	5/8”	diameter
T8	1”	diameter
T12	1-1/2”	diameter

This is the easiest first step to help narrow the identity of the LED tube you have

## Information on Tube Label / Back of Package

On the LED Tube there will be a label that will face “up” when the tube is installed



This label has the **Lamp description** on it – it starts with “LED” and will include the size of the lamp - “T8” in this instance

**\*OR\*** – on the back of the package, there will be information near the UPC code that has the Product Code (PC) and the **Package Description**



**Either the Lamp Description, Package Description, or Product Code (PC) can be used to identify your lamp**

# What category of LED tube types do I look under?

## Type A LED Tube

(Standard – T5 or T8)

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Each LED tube is outfitted with an internal driver, and these lamps run on existing LFL electronic instant-start or programmed start ballast.

Type A LED Tubes are ideal for those seeking high energy savings with minimal installation time. Convert your existing linear fluorescent fixture to LED lighting without needing a comprehensive reinstall.

## Type A LED Tube

(Universal – T8 or T12)

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Each LED tube is outfitted with an internal driver, and these lamps run on existing LFL electronic instant-start, electronic programmed start ballast, or older magnetic ballasts.

The Universal tubes are used for older installations where you do not know if a T8 or T12 bulb was present and what kind of ballast may be in the fixture.

## Type A/B LED Tube

(Hybrid - Ballast Bypass – T8)

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Each LED tube is outfitted with an internal driver, and these lamps run on existing LFL electronic instant-start or programmed start ballast.

**HOWEVER** – these tubes can also be used as a Type B lamp, where they can be used in a fixture that is re-wired to bypass the ballast. These tubes can also run directly from line voltage.

**Either the Lamp Description, Package Description, or Product Code (PC) can be used to identify your lamp**

# What table for compatibility should I look under?

## T8 LED Tube - Standard Type A (List 1 of 3)

Lamp Description	Package Description	GE Lighting Product Code	Table #
LED15ET8/G/4/840	LED15ET8/G/4/840PK2	12963	1
LED15ET8/G/4/840	LED15ET8/G/4/840PK8	13104	1
LED15ET8/G/4/865	LED15ET8/G/4/865PK8	13142	1
LED15ET8/G/4/850	LED15ET8G4/8510L	30609	1
LED13ET8/U6/840	LED13ET8/U6/CDN	34041	4
LED15ET8/G/4/840	LED15ET8/G/4/840	35793	4
LED15ET8/G/4/865	LED15ET8/G/4/865	35798	4
LED8ET8/G2/840	LED8ET8/G2/8406P	35865	3
LED15ET8/G/4/835	LED15ET8/G/4/835-V6P	35896	1
LED15ET8/G/4/850	LED15ET8/G/4/850-V6P	35911	1
LED15ET8/G/4/865	LED15ET8/G/4/865-V6P	35913	1
LED15ET8/G/4/830	LED15ET8/G/4/830-V6P	37867	1
LED15ET8/G/4/840	LED15ET8/G/4/840-V6P	37878	1
LED13ET8/U6/830	LED13ET8/U6/830	43120	4
LED13ET8/U6/840	LED13ET8/U6/840	43129	4
LED13ET8/U6/840	LED13ET8/U6/840/CONS	93095867	4
LED18ET8/G/4/GROW/B	LED18ET8/G/4/GROW/B	93097589	1
LED18ET8/G/4/GROW/F	LED18ET8/G/4/GROW/F	93102868	1
LED15ET8/G/4/830	LED15ET8/G/4/830CDN2	93117799	1
LED15ET8/G/4/840	LED15ET8/G/4/840CDN2	93117800	1

## T8 LED Tube - Standard Type A (List 2 of 3)

Lamp Description	Package Description	GE Lighting Product Code	Table #
LED15ET8/G/4/850	LED15ET8/G/4/850CDN2	93117801	1
LED15ET8/G/4/865	LED15ET8/G/4/865CDN2	93118153	1
LED15ET8/G/4/840	LED15ET8/G/4/840CDN8	93118273	1
LED15ET8/G/4/865	LED15ET8/G/4/865CDN8	93118337	1
LED8ET8/G/2/840	LED8ET8/G2/8406CDN	93118457	3
LED15ET8/G/4/840	LED15ET8G484/CDN10	93118458	1
LED15ET8/G/4/850	LED15ET8G485/CDN10	93118459	1
LED15ET8/G/4/865	LED15ET8G4865/CDN10	93118460	1
LED15ET8/G/4/840	LED15ET8/G/4/840/CDN4	93119367	1
LED15ET8/G/4/850	LED15ET8/G/4/850CDN4	93119368	1
LED15ET8/G/4/865	LED15ET8/G/4/865CDN4	93119369	1
LED15ET8/G/4/840	LED15ET8/G/4/840/CDN16	93119370	1
LED15ET8/G/4/865	LED15ET8/G/4/865CDN16	93119371	1
LED18ET8/G/4/GROW/B	LED18ET8/G/4/GROW/B/CDN	93120244	1
LED18ET8/G/4/GROW/F	LED18ET8/G/4/GROW/F/CDN	93120245	1
LED18ET8/G/4/GROW/B	LED18ET8/G/4/GROW/B-1	93129193	1
LED18ET8/G/4/GROW/F	LED18ET8/G/4/GROW/F-1	93129194	1
LED83CCT15ET8G4	LED83CCT15ET8G4-LT2	93129276	1
LED15ET8/G/4/840	LED15ET8G840/4/20PKL	93129294	1
LED15ET8/G/4/865	LED15ET8G865/4/20PKL	93129295	1

# What table for compatibility should I look under?

## T8 LED Tube - Standard Type A (List 3 of 3)

Lamp Description	Package Description	GE Lighting Product Code	Table #
LED11ET8G-18-3CC	LED11ET8G-18-3CC-CDN	93129700	1
LED9ET8G-2-3CC	LED9ET8G-2-3CC-CDN	93129702	1
LED12ET8G-3-3CC	LED12ET8G-3-3CC-CDN	93129703	1
LED15ET8G-4-3CC	LED15ET8G-4-3CC-CDN2	93129705	1
LED9ET8G-2-3CC	LED11ET8G-18-3CC-LT	93129782	1
LED12ET8G-3-3CC	LED9ET8G-2-3CC-LT	93129784	1
LED15ET8G-4-3CC-	LED12ET8G-3-3CC-LT	93129785	1
LED15ET8G-4-3CC	LED15ET8G-4-3CC-LT2	93129787	1
LED15UT8G-4-3CC	LED15ET8G-4-3CC-OT1	93130373	1
LED20ET8G-4-840	LED20ET8G-4-840-2T	93130858	2
LED20ET8G-4-865	LED20ET8G-4-865-2T	93130859	2
LED20ET8G-4-865	LED20ET8G-4-865-CDN2	93131269	2
LED20ET8G-4-840	LED20ET8G-4-840-CDN2	93131270	2

## T8 LED Tube - Type A/B Hybrid

Can either be used as a Type A with Ballast or a Type B with Ballast removed

Lamp Description	Package Description	GE Lighting Product Code	Table #
LEDAB15T8G4840	LEDAB15T8G4840-LT10	93129278	1
LEDAB15T8G4865	LEDAB15T8G4865-LT10	93129279	1
LEDAB15T8G4865	LEDAB15T8G4865-LT1	93129280	1
LEDAB15T8G4840	LEDAB15T8G4840-CDN	93129706	1
LEDAB15T8G4840	LEDAB15T8G4840-CDN10	93129707	1
LEDAB15T8G4865	LEDAB15T8G4865-CDN	93129708	1
LEDAB15T8G4865	LEDAB15T8G4865-CDN10	93129709	1
LED15ABT8G-4-3CC	LED15ABT8G-4-3CC-2T	93130867	5
LED15ABT8G-4-3CC	LED15ABT8G-4-3CC-10	93130868	5
LED15ABT8G-4-3CC	LED15ABT8G-4-3CC-CDN2	93131268	5

# What table for compatibility should I look under?

## T8 LED Tube - Universal Type A (List 1 of 2)

There is an electronic or magnetic ballast in the fixture (Usually replacing old T12 bulbs with newer T8 bulbs)

Lamp Description	Package Description	GE Lighting Product Code	Table #
LED8ET8GU830	LED8ET8GU8301PK	37136	6
LED8ET8GU835	LED8ET8GU8351PK	37137	6
LED8ET8G2U840	LED8ET8GU8401PK	37151	6
LED8ET8GU850	LED8ET8GU8501PK	37156	6
LED8ET8GU865	LED8ET8GU8651PK	37162	6
LED15ET8GU830	LED15ET8GU8302PK	37163	6
LED11ET8GU830	LED11ET8GU8301PK	37164	6
LED15ET8GU835	LED15ET8GU8352PK	37167	6
LED15ET8GU840	LED15ET8GU8402PK	37168	6
LED11ET8GU835	LED11ET8GU8351PK	37176	6
LED15ET8GU850	LED15ET8GU8502PK	37177	6
LED11ET8GU840	LED11ET8GU8401PK	37178	6
LED15ET8GU865	LED15ET8GU8652PK	37183	6
LED11ET8GU850	LED11ET8GU8501PK	37188	6
LED11ET8GU865	LED11ET8GU8651PK	37190	6
LED15ET8GU830	LED15ET8GU8301PK	37192	6
LED15ET8GU835	LED15ET8GU8351PK	37201	6
LED15ET8GU840	LED15ET8GU8401PK	37205	6
LED15ET8GU850	LED15ET8GU8501PK	37207	6
LED15ET8GU865	LED15ET8GU8651PK	37221	6

## T8 LED Tube - Universal Type A (List 2 of 2)

There is an electronic or magnetic ballast in the fixture (Usually replacing old T12 bulbs with newer T8 bulbs)

Lamp Description	Package Description	GE Lighting Product Code	Table #
LED8ET8G2U840	LED8ET8GU840/2/1PKL	93123048	6
LED15ET8GU865	LED15ET8GU865/4/2PKCDN	93128860	6
LED15ET8GU850	LED15ET8GU850/4/2PKCDN	93128861	6
LED15ET8GU840	LED15ET8GU840/4/2PKCDN	93128862	6
LED8ET8G2U840	LED8ET8G2U840/1PKCDN	93128863	6
LED15ET8GU840	LED15ET8G4U840/4/2PKLT	93129209	6
LED83CCT15T8G4U	LED83CCT15T8G4U-LT2	93129275	6
LED15ET8G4U/BLB	LED15ET8G4U/BLB-1	93129664	6
LED15UT8G-UB-3CC	LED15UT8G-UB-3CC-CDN	93129697	6
LED15UT8G-4-3CC	LED15UT8G-4-3CC-CDN2	93129704	6
LED15UT8G-4-3CC	LED15UT8G-4-3CC-LT2	93129786	6
LED15UT8G-UB-3CC	LED15UT8G-4-3CC-OT1	93130372	6
LED6ET5G-1-3CC	LED15UT8G-UB-3CC-LT1	93130709	6
LED7UT8G-2-3CC	LED7UT8G-2-3CC-1T	93130864	6
LED7UT8G-2-3CC	LED7UT8G-2-3CC/CDN	93131260	6

# What table for compatibility should I look under?

## T5 LED Tube - Standard Type A

Lamp Description	Package Description	GE Lighting Product Code	Table #
LED26ET5/G4/840	LED26ET5/G4/840CDN	93118456	7
LED26ET5/G4/840	LED26ET5/G4/840LT1P	93129198	7
LED6ET5G-1-3CC	LED6ET5G-1-3CC-CDN	93129698	8
LED7ET5G-21-3CC	LED7ET5G-21-3CC-CDN	93129699	8
LED10ET5G-2-3CC	LED10ET5G-2-3CC-CDN	93129701	8
LED10ET5G-2-3CC	LED10ET5G-2-3CC-LT	93129783	8
LED7ET5G-21-3CC	LED6ET5G-1-3CC-LT	93129789	8
LED10ET5G-2-3CC	LED7ET5G-21-3CC-LT	93129790	8
LED26ET5/G/4/GROW/B	LED26ET5/G/4/GROW/B-CDN1	93130015	9
LED11ET5/G/2/GROW/B	LED11ET5/G/2/GROW/B-CDN1	93130016	9
LED11ET5/G/2/GROW/F	LED11ET5/G/2/GROW/F-CDN1	93130017	9
LED26ET5/G/4/GROW/F	LED26ET5/G/4/GROW/F-CDN1	93130018	9
LED28ET5GHO-4-3CC	LED28ET5GHO-4-3CC-1T	93130860	10
LED28ET5GHO-4-3CC	LED28ET5GHO-4-3CC/CDN	93131257	10



# Table #1 – T8 LED Tube – Type A or Type A/B Hybrid - Page 1 of 2

## IMPORTANT NOTICE:

This list is based on testing performed using a stable AC power supply under laboratory conditions, which may not be representative of particular end-use conditions. While each ballast model listed has undergone testing, some may have undergone revisions that may change operating parameters and impact lamp performance. Applications and conditions of use are many and varied and beyond our control, so purchasers and users should make their own determinations as to the suitability of a lamp-ballast combination for their own particular application and use. Compatibility may also extend to ballasts beyond this list, so performing an on-site test before installation is recommended. Contact a sales representative if the ballast to be used is not listed in the table. Information is subject to change without notice.

Manufacturer	Model Information	Input Voltage	Compatible?
CDL	E232120MRSLP	120V	Compatible
GE	GE432MAX-N/ULTRA	120-277V	Compatible
GE	G232-120-RES	120V	Compatible
GE	GE 232MAXP90-S60 (1 BLACK LINE ON)	120-277V	Compatible
GE	GE 232MAXP90-S60 (2 BLACK LINE ON)	120-277V	Compatible
GE	GE132MAX-G-N	120-277V	Compatible
GE	GE132MAX-L/ULTRA	120-277V	Compatible
GE	GE132MAX-L/ULTRA	120-277V	Compatible
GE	GE132MAX-N/ULTRA	120-277V	Compatible
GE	GE132MAXP-H/ULTRA	120-277V	Compatible
GE	GE132MAXP-L/ULTRA	120-277V	Compatible
GE	GE132MAXP-N/ULTRA	120-277V	Compatible
GE	GE-132-MV-N/M	120-277V	Compatible
GE	GE132-MVPS-H	120-277V	Compatible
GE	GE132-MVPS-L	120-277V	Compatible
GE	GE132MVPS-L-S30	120-277V	Compatible
GE	GE-132-MV-PS-N		Not Tested
GE	GE132MVPS-N-S03	120-277V	Compatible
GE	GE132MVPS-N-S30	120-277V	Compatible
GE	GE132MVPS-N-V03	120-277V	Not Compatible
GE	GE132-N-347	347V	Compatible
GE	GE232-120RES	120V	Compatible
GE	GE232-120RESDIYB	120V	Compatible
GE	GE232MAX90-S60	120-277V	Compatible
GE	GE232MAX-G-347	347V	Compatible
GE	GE232MAX-G-L	120-277V	Compatible
GE	GE232MAX-L/ULTRA	120-277V	Compatible
GE	GE232MAX-N/ULTRA	120-277V	Compatible
GE	GE232MAXP347-H	347V	Compatible
GE	GE232MAXP347-L	347V	Compatible
GE	GE232MAXP347-N	347V	Compatible
GE	GE232MAXP480-H	480V	Not Tested
GE	GE232MAXP90-V60	120-277V	Compatible

Manufacturer	Model Information	Input Voltage	Compatible?
GE	GE232MAXP-H/ULTRA	120-277V	Compatible
GE	GE232MAXP-N/ULTRA	120-277V	Compatible
GE	GE232MAXP-N+	120-277V	Compatible
GE	GE232MV-H	120-277V	Compatible
GE	GE232-MV-N/M	120-277V	Compatible
GE	GE232MVPS-L-S30	120-277V	Compatible
GE	GE-232-MV-PS-N	120-277V	Compatible
GE	GE232MVPS-N-S30	120-277V	Compatible
GE	GE232MVPSN-V03	120-277V	Compatible
GE	GE232PS347-H	347V	Compatible
GE	GE232PS347-L	120-277V	Compatible
GE	GE232PS347-N	347V	Compatible
GE	GE240PSMVN-DIYB	120-277V	Compatible
GE	GE332MAX347-H	347V	Compatible
GE	GE332MAX90-V60	120-277V	Compatible
GE	GE332MAX-G-347	347V	Compatible
GE	GE332MAX-G-H	120-277V	Compatible
GE	GE332MAX-G-L	120-277V	Compatible
GE	GE332MAX-G-N	120-277V	Compatible
GE	GE332MAX-H/ULTRA	120-277V	Compatible
GE	GE332MAXP347-N	347V	Compatible
GE	GE332MAXP480-H	480V	Not Tested
GE	GE332MAXP90-S60	120-277V	Compatible
GE	GE332MAXP-H/ULTRA	120-277V	Compatible
GE	GE332MAXP-L/ULTRA	120-277V	Compatible
GE	GE332MAXP-N/ULTRA	120-277V	Compatible
GE	GE332MAXP-N+	120-277V	Compatible
GE	GE332MAXP-N-GEN1	120-277V	Compatible
GE	GE332MV-H	120-277V	Compatible
GE	GE-332-MVPS-H	120-277V	Compatible
GE	GE332MVPSH-V03	120-277V	Compatible
GE	GE332-MVPS-L	120-277V	Compatible
GE	GE332-MVPS-N	120-277V	Compatible

Manufacturer	Model Information	Input Voltage	Compatible?
GE	GE332MVPS-N-V03	120-277V	Compatible
GE	GE-332-MVPS-XL	120-277V	Compatible
GE	GE332PS347-N	347V	Compatible
GE	GE432-120-RES	120V	Compatible
GE	GE432-120RES-B	120-277V	Compatible
GE	GE432MAX347-N	347V	Compatible
GE	GE432MAX480-H	480V	Not Tested
GE	GE432MAX90-S60	120-277V	Compatible
GE	GE432MAX90-V60	120-277V	Compatible
GE	GE432MAX-G-347	347V	Compatible
GE	GE432MAX-G-L	120-277V	Compatible
GE	GE432MAX-G-N	120-277V	Compatible
GE	GE432MAX-H/Ultra	120-277V	Compatible
GE	GE432MAXP347-H	347V	Compatible
GE	GE432MAXP347-L	347V	Compatible
GE	GE432MAXP347-N	347V	Compatible
GE	GE432MAXP-L/ULTRA	120-277V	Compatible
GE	GE432MAXP-N/ULTRA	120-277V	Compatible
GE	GE432MAXP-N+	120-277V	Compatible
GE	GE432MV-H	120-277V	Not Tested
GE	GE432MV-N	120-277V	Compatible
GE	GE432-MV-N/M	120-277V	Compatible
GE	GE432MVPS-H	120-277V	Compatible
GE	GE432MVPSH-V03	120-277V	Compatible
GE	GE432-MVPS-L	120-277V	Compatible
GE	GE432-MVPS-N	120-277V	Compatible
GE	GE432MVPS-N-V03	120-277V	Compatible
GE	GE432PS347-N	347V	Compatible
GE	GE632MAXP-H90	120-277V	Compatible
GE	GE632MAXP-H90-S60	120-277V	Compatible
GE	GE632MAXP-H90-V60	120-277V	Compatible
HATCH	HL232AIS/34/HE/W	347V	Compatible
HATCH	HL232AIS/UV/HE/W	120-277V	Compatible

 Compatible  
 Not Compatible  
 Not Tested

# Table #1 – T8 LED Tube – Type A or Type A/B Hybrid - Page 2 of 2

## IMPORTANT NOTICE:

This list is based on testing performed using a stable AC power supply under laboratory conditions, which may not be representative of particular end-use conditions. While each ballast model listed has undergone testing, some may have undergone revisions that may change operating parameters and impact lamp performance. Applications and conditions of use are many and varied and beyond our control, so purchasers and users should make their own determinations as to the suitability of a lamp-ballast combination for their own particular application and use. Compatibility may also extend to ballasts beyond this list, so performing an on-site test before installation is recommended. Contact a sales representative if the ballast to be used is not listed in the table. Information is subject to change without notice.

Manufacturer	Model Information	Input Voltage	Compatible?
HATCH	HL232APS/UV/HE/W	120-277V	Compatible
HATCH	HL232BIS/UV/HE/W	120-277V	Compatible
HATCH	HL232BPS/UV/HE/W	120-277V	Compatible
HATCH	HL332AIS/UV/HE/W	120-277V	Compatible
HATCH	HL332APS/UV/HE/W	120-277V	Compatible
HATCH	HL332BPS/UV/HE/W	120-277V	Compatible
HATCH	HL332CPS/UV/HE/W	120-277V	Compatible
HATCH	HL432AIS/34/HEW	347V	Compatible
HATCH	HL432APS/UV/HE/W	120-277V	Compatible
HATCH	HL432BIS/UV/HE/W	120-277V	Compatible
HATCH	HL432BPS/UV/HE/W	120-277V	Compatible
HOWARD	EP3/32IS/MV/MC/HE	120-277V	Compatible
HOWARD	EP4/32IS/MV/MC/HE	120-277V	Compatible
HOWARD	EP2/32IS/MV/MC/HE	120-277V	Compatible
KEYSTONE	KTEB-232RIS-1-TP-SL	120V	Compatible
KEYSTONE	KTEB-240-1-TP/E	120V	Compatible
OSRAM	QHE 1X32T8/UNV ISN-SC	120-277V	Compatible
OSRAM	QHE 2X32T8/347 ISN-SC	347V	Not Compatible
OSRAM	QHE 2X32T8/UNV ISL-SC	120-277V	Compatible
OSRAM	QHE 2X32T8/UNV ISN-SC	120-277V	Compatible
OSRAM	QHE 2X32T8/UNV ISN-SC	120-277V	Compatible
OSRAM	QHE 2X32T8/UNV DIM-TC	120-277V	Compatible
OSRAM	QHE 2X32T8/UNV/HDIM10/SC	120-277V	Compatible
OSRAM	QHE 3X32T8/UNV ISL-SC	120-277V	Not Tested
OSRAM	QHE 3X32T8/UNV ISN-SC	120-277V	Compatible
OSRAM	QHE 4X32T8/UNV ISL-SC	120-277V	Compatible
OSRAM	QHE 4X32T8/UNV ISN-SC	120-277V	Compatible
OSRAM	QHE 4X32T8/UNV ISN-SC	120-277V	Compatible
OSRAM	QHE 4X32T8/UNV PSN-SC	120-277V	Compatible
OSRAM	QT 3X32 T8/277	277V	Compatible
OSRAM	QT 3X32 T8/277 ISN-SC	277V	Compatible
OSRAM	QTP 1X32T8/UNV ISN-SC	120-277V	Compatible
OSRAM	QTP 2X32T8/UNV ISN-SC	120-277V	Compatible

Manufacturer	Model Information	Input Voltage	Compatible?
OSRAM	QTP 3X32T8/UNV ISN-SC	120-277V	Compatible
OSRAM	QTP 3X32T8/UNVISN-SC	120-277V	Compatible
PHILIPS	IOP-3PSP32-SC	120-277V	Compatible
PHILIPS	Centium ICN-2P32-N	120-277V	Compatible
PHILIPS	GOPA-2P32-SC	347V	Compatible
PHILIPS	GOPA-4P32-SC	347V	Compatible
PHILIPS	ICN-1P32-N	120-277V	Compatible
PHILIPS	ICN-2P32-N	120-277V	Compatible
PHILIPS	ICN-3P32-N	120-277V	Compatible
PHILIPS	ICN-4P32-N	120-277V	Compatible
PHILIPS	IOP-3PSP32-LW-SC	120-277V	Compatible
PHILIPS	IOP-4P32-N	120-277V	Compatible
PHILIPS	IOP-4PSP32-SC	120-277V	Compatible
PHILIPS	IOPA-1P32--HL-N	120-277V	Compatible
PHILIPS	IOPA-1P32-N	120-277V	Compatible
PHILIPS	IOPA-2P32-HL-N	120-277V	Compatible
PHILIPS	IOPA-2P32-N	120-277V	Compatible
PHILIPS	IOPA-3P32-N	120-277V	Compatible
PHILIPS	IOPA-3P32-SC	120-277V	Compatible
PHILIPS	IOPA-4P32-N	120-277V	Compatible
PHILIPS	IZT-132-SC	120-277V	Compatible
PHILIPS	IZT-2PSP32-SC		Not Tested
PHILIPS	IZT-2S32-SC	120-277V	Compatible
PHILIPS	IZT-3C32-SC	120-277V	Compatible
PHILIPS	IZT-3S32-SC		Not Tested
PHILIPS	Optanium IOP-2P32HL-SC	120-277V	Compatible
PHILIPS	Optanium IOPA-2P32HL-SC	120-277V	Compatible
PHILIPS	Optanium IOPA-2P32-LW-N	120-277V	Compatible
PHILIPS	REB-2P32-N	120-277V	Not Tested
PHILIPS	REB-4P32-SC	120V	Compatible
PHILIPS	REZ-2S32-SC	120-277V	Compatible
SYLVANIA	QTP 4X32T8/UNV ISN-SC	120-277V	Compatible
SYLVANIA	QTP 4X32T8/UNV PSX-SC	120-277V	Compatible

Manufacturer	Model Information	Input Voltage	Compatible?
SYLVANIA	QTP 2X32T8/UNV ISH-SC	120-277V	Compatible
SYLVANIA	QTP 2x32T8/UNV ISH-SC	120-277V	Compatible
SYLVANIA	QTP 2X32T8/UNV ISL-SC	120-277V	Compatible
SYLVANIA	QTP 2X32T8/UNV ISN-SC	120-277V	Compatible
SYLVANIA	QTP 3X32T8/UNV PSX-SC	120-277V	Compatible
SYLVANIA	QTP 4X32T8/UNV ISN-SC	120-277V	Compatible
SYLVANIA	QHE 3X32T8/UNV PSX-SC	120-277V	Compatible
SYLVANIA	QTP1X32T8/UNV PSX-TC	120-277V	Not Tested
ULTRASAVE	UT232347	347V	Compatible
ULTRASAVE	UT432347	347V	Compatible
Universal	432IUNVEL-A	120-277V	Compatible
Universal	B132I120RH-A	120V	Compatible
Universal	B132IUNVEL-N	120-277V	Compatible
Universal	B132IUNVHE-N	120-277V	Compatible
Universal	B132IUNVHP-N	120-277V	Compatible
Universal	B232IUNVEL-N	120-277V	Compatible
Universal	B232IUNVHE-A	120-277V	Compatible
Universal	B232IUNVHEH-A	120-277V	Compatible
Universal	B232IUNVHE-N	120-277V	Compatible
Universal	B232IUNVHP-N	120-277V	Compatible
Universal	B232PUNVHE-B	120-277V	Compatible
Universal	B332IUNVEL-A	120-277V	Compatible
Universal	B332IUNVEL-A	120-277V	Compatible
Universal	B332IUNVHE-A	120-277V	Compatible
Universal	B332IUNVHP-A	120-277V	Compatible
Universal	B432IUNVHE-A	120-277V	Compatible
Universal	B432IUNVHP-A	120-277V	Compatible
UTILITECH	MODEL#YZ-240	120V	Compatible

 Compatible  
 Not Compatible  
 Not Tested

# Table #2 – T8 LED Tube – Type A - Page 1 of 2

## IMPORTANT NOTICE:

This list is based on testing performed using a stable AC power supply under laboratory conditions, which may not be representative of particular end-use conditions. While each ballast model listed has undergone testing, some may have undergone revisions that may change operating parameters and impact lamp performance. Applications and conditions of use are many and varied and beyond our control, so purchasers and users should make their own determinations as to the suitability of a lamp-ballast combination for their own particular application and use. Compatibility may also extend to ballasts beyond this list, so performing an on-site test before installation is recommended. Contact a sales representative if the ballast to be used is not listed in the table. Information is subject to change without notice.

Manufacturer	Model Information	Input Voltage	Compatible?	Manufacturer	Model Information	Input Voltage	Compatible?	Manufacturer	Model Information	Input Voltage	Compatible?
ACCUPRO	AP-232IP-UNV-M	120-277V	Compatible	GE	GE232MV-H	120-277V	Compatible	GE	GE432MAX-N/ULTRA	120-277V	Compatible
ACCUPRO	AP-RC-232IP-120-1	120V	Compatible	GE	GE232-MV-N/M	120-277V	Compatible	GE	GE432MAXP-L/ULTRA	120-277V	Compatible
ACCUPRO	AP-RC-432IP-120-1	120V	Not Compatible	GE	GE232-MVPS-L	120-277V	Compatible	GE	GE432MAXP-N/ULTRA	120-277V	Compatible
ACCUPRO	AP-RS-232IS-120	120V	Compatible	GE	GE232MVPS-L-S30	120-277V	Compatible	GE	GE432MAXP-H/ULTRA	120-277V	Compatible
EnergyPRO	SLE-232-120-RS-LPF	120V	Not Compatible	GE	GE-232-MV-PS-H	120-277V	Compatible	GE	GE432MAXP-N+	120-277V	Compatible
ESPEN	VE432120MIP	120V	Compatible	GE	GE-232-MV-PS-N	120-277V	Compatible	GE	GE432MV-H	120-277V	Compatible
GE	G232-120-RES	120V	Compatible	GE	GE232MVPS-N-S30	120-277V	Compatible	GE	GE432MV-N	120-277V	Compatible
GE	GE 232MAXP90-S60 (1 BLACK LINE ON)	120-277V	Compatible	GE	GE232MVPSH-V03	120-277V	Compatible	GE	GE432-MV-N/M	120-277V	Compatible
GE	GE 232MAXP90-S60 (2 BLACK LINE ON)	120-277V	Compatible	GE	GE232MVPSN-V03	120-277V	Compatible	GE	GE432MVPS-H	120-277V	Compatible
GE	GE132MAX-G-N	120-277V	Compatible	GE	GE332MAX90-V60	120-277V	Compatible	GE	GE432MVPSH-V03	120-277V	Compatible
GE	GE132MAX-L/ULTRA	120-277V	Compatible	GE	GE332MAX-G-H	120-277V	Compatible	GE	GE432-MVPS-L	120-277V	Compatible
GE	GE132MAX-N/ULTRA	120-277V	Compatible	GE	GE332MAX-G-L	120-277V	Compatible	GE	GE432-MVPS-N	120-277V	Compatible
GE	GE132MAXP-H/ULTRA	120-277V	Compatible	GE	GE332MAX-G-N	120-277V	Compatible	GE	GE432MVPS-N-V03	120-277V	Compatible
GE	GE132MAXP-L/ULTRA	120-277V	Compatible	GE	GE332MAXP90-S60	120-277V	Compatible	GE	GE632MAXP-H90	120-277V	Compatible
GE	GE132MAXP-N/ULTRA	120-277V	Compatible	GE	GE332MAXP-H/ULTRA	120-277V	Compatible	GE	GE632MAXP-H90-S60	120-277V	Compatible
GE	GE-132-MV-N/M	120-277V	Compatible	GE	GE332MAXP-L/ULTRA	120-277V	Compatible	GE	GE632MAXP-H90-V60	120-277V	Compatible
GE	GE132-MVPS-H	120-277V	Compatible	GE	GE332MAXP-N/ULTRA	120-277V	Compatible	HATCH	HL232AIS/UV/HE/W	120-277V	Compatible
GE	GE132-MVPS-L	120-277V	Compatible	GE	GE332MAXP-N+	120-277V	Compatible	HATCH	HL232APS/UV/HE/W	120-277V	Compatible
GE	GE132MVPS-L-S30	120-277V	Compatible	GE	GE332MAXP-N-GEN1	120-277V	Compatible	HATCH	HL232BIS/UV/HE/W	120-277V	Compatible
GE	GE-132-MV-PS-N	120-277V	Compatible	GE	GE332MV-H	120-277V	Compatible	HATCH	HL232BPS/UV/HE/W	120-277V	Compatible
GE	GE132MVPS-N-S30	120-277V	Compatible	GE	GE-332-MVPS-H	120-277V	Compatible	HATCH	HL332AIS/UV/HE/W	120-277V	Compatible
GE	GE132MVPS-N-V03	120-277V	Compatible	GE	GE332MVPSH-V03	120-277V	Compatible	HATCH	HL332APS/UV/HE/W	120-277V	Compatible
GE	GE232-120RES	120V	Compatible	GE	GE332-MVPS-L	120-277V	Compatible	HATCH	HL332BPS/UV/HE/W	120-277V	Compatible
GE	GE232-120RESDIYB	120V	Compatible	GE	GE332-MVPS-N	120-277V	Compatible	HATCH	HL332CPS/UV/HE/W	120-277V	Compatible
GE	GE232MAX90-S60	120-277V	Compatible	GE	GE332MVPS-N-V03	120-277V	Compatible	HATCH	HL432APS/UV/HE/W	120-277V	Compatible
GE	GE232MAX-G-L	120-277V	Compatible	GE	GE-332-MVPS-XL	120-277V	Compatible	HATCH	HL432BIS/UV/HE/W	120-277V	Compatible
GE	GE232MAX-L/ULTRA	120-277V	Compatible	GE	GE432-120-RES	120V	Compatible	HATCH	HL432BPS/UV/HE/W	120-277V	Compatible
GE	GE232MAX-N/ULTRA	120-277V	Compatible	GE	GE432-120RES-B	120-277V	Compatible	HOWARD	EP3/32IS/MV/MC/HE	120-277V	Compatible
GE	GE232MAXP90-V60	120-277V	Compatible	GE	GE432MAX90-S60	120-277V	Compatible	HOWARD	EP4/32IS/MV/MC/HE	120-277V	Compatible
GE	GE232MAXP-H/ULTRA	120-277V	Compatible	GE	GE432MAX-G-H	120-277V	Compatible	HOWARD	EP2/32IS/MV/MC/HE	120-277V	Compatible
GE	GE232MAXP-N/ULTRA	120-277V	Compatible	GE	GE432MAX-G-L	120-277V	Compatible				
GE	GE232MAXP-L/ULTRA	120-277V	Compatible	GE	GE432MAX-G-N	120-277V	Compatible				
GE	GE232MAXP-N+	120-277V	Compatible	GE	GE432MAX-H/Ultra	120-277V	Compatible				

 Compatible  
 Not Compatible  
 Not Tested

# Table #2 – T8 LED Tube – Type A - Page 2 of 2

## IMPORTANT NOTICE:

This list is based on testing performed using a stable AC power supply under laboratory conditions, which may not be representative of particular end-use conditions. While each ballast model listed has undergone testing, some may have undergone revisions that may change operating parameters and impact lamp performance. Applications and conditions of use are many and varied and beyond our control, so purchasers and users should make their own determinations as to the suitability of a lamp-ballast combination for their own particular application and use. Compatibility may also extend to ballasts beyond this list, so performing an on-site test before installation is recommended. Contact a sales representative if the ballast to be used is not listed in the table. Information is subject to change without notice.

Manufacturer	Model Information	Input Voltage	Compatible?	Manufacturer	Model Information	Input Voltage	Compatible?	Manufacturer	Model Information	Input Voltage	Compatible?
KEYSTONE	KTEB-232RIS-1-TP-SL	120V		PHILIPS	IOP-3PSP32-SC	120-277V		SYLVANIA	QTP 4X32T8/UNV ISN-SC	120-277V	
KEYSTONE	KTEB-232RIS-1-TP-SL/H	120V		PHILIPS	ICN-1P32-N	120-277V		SYLVANIA	QTP 4X32T8/UNV PSX-SC	120-277V	
KEYSTONE	KTEB-232RIS-1-TP-SL/J	120V		PHILIPS	ICN-2P32-N	120-277V		SYLVANIA	QT 2X32/277 PIUS	277V	
KEYSTONE	KTEB-432RIS-1-TP	120V		PHILIPS	ICN-3P32-N	120-277V		SYLVANIA	QTP 2x32T8/UNV ISH-SC	120-277V	
KEYSTONE	KTEB-432RIS-1-TP/INB	120V		PHILIPS	ICN-4P32-N	120-277V		SYLVANIA	QTP 2X32T8/UNV ISL-SC	120-277V	
OSRAM	QHE 1X32T8/UNV ISN-SC	120-277V		PHILIPS	IOP-3PSP32-LW-SC	120-277V		SYLVANIA	QTP 2X32T8/UNV ISN-SC	120-277V	
OSRAM	QHE 2X32T8/UNV ISL-SC	120-277V		PHILIPS	IOP-4P32-N	120-277V		SYLVANIA	QTP 3X32T8/UNV PSX-SC	120-277V	
OSRAM	QHE 2X32T8/UNV ISN-SC	120-277V		PHILIPS	IOP-4PSP32-SC	120-277V		SYLVANIA	QTP 4X32T8/UNV ISN-SC	120-277V	
OSRAM	QHE 2X32T8/UNV ISN-SC	120-277V		PHILIPS	IOPA-1P32--HL-N	120-277V		SYLVANIA	QHE 3X32T8/UNV PSX-SC	120-277V	
OSRAM	QHE 2X32T8/UNV/ DIM-TC	120-277V		PHILIPS	IOPA-1P32-N	120-277V		SYLVANIA	QTP1X32T8/UNV PSX-TC	120-277V	
OSRAM	QHE 2X32T8/UNV/HDIM10/SC	120-277V		PHILIPS	IOPA-2P32-HL-N	120-277V		Universal	432IUNVEL-A	120-277V	
OSRAM	QHE 3X32T8/UNV ISL-SC	120-277V		PHILIPS	IOPA-2P32-N	120-277V		Universal	B132I120RH-A	120V	
OSRAM	QHE 3X32T8/UNV ISN-SC	120-277V		PHILIPS	IOPA-3P32-N	120-277V		Universal	B132IUNVEL-N	120-277V	
OSRAM	QHE 4X32T8/UNV ISL-SC	120-277V		PHILIPS	IOPA-3P32-SC	120-277V		Universal	B132IUNVHE-N	120-277V	
OSRAM	QHE 4X32T8/UNV ISN-SC	120-277V		PHILIPS	IOPA-4P32-N	120-277V		Universal	B132IUNVHP-N	120-277V	
OSRAM	QHE 4X32T8/UNV ISN-SC	120-277V		PHILIPS	IZT-132-SC	120-277V		Universal	B232IUNVEL-N	120-277V	
OSRAM	QHE 4X32T8/UNV PSN-SC	120-277V		PHILIPS	IZT-2PSP32-SC	120-277V		Universal	B232IUNVHE-A	120-277V	
OSRAM	QT 3X32 T8/277	277V		PHILIPS	IZT-2S32-SC	120-277V		Universal	B232IUNVHEH-A	120-277V	
OSRAM	QT 3X32 T8/277 ISN-SC	277V		PHILIPS	IZT-3S32-SC	120-277V		Universal	B232IUNVHE-N	120-277V	
OSRAM	QTP 1X32T8/UNV ISN-SC	120-277V		PHILIPS	REB-2P32-N	120-277V		Universal	B232IUNVHP-N	120-277V	
OSRAM	QTP 2X32T8/UNV ISN-SC	120-277V		PHILIPS	REB-4P32-SC	120V		Universal	B232PUNVHE-B	120-277V	
OSRAM	QTP 3X32T8/UNV ISN-SC	120-277V		PHILIPS	REZ-2S32-SC	120-277V		Universal	B332IUNVEL-A	120-277V	
OSRAM	QTP 3X32T8/UNVISN-SC	120-277V						Universal	B332IUNVHE-A	120-277V	
								Universal	B332IUNVHP-A	120-277V	
								Universal	B432IUNVHE-A	120-277V	
								Universal	B432IUNVHP-A	120-277V	




 Compatible  
 Not Compatible  
 Not Tested

# Table #3 – T8 LED Tube – Type A - Page 1 of 2

## IMPORTANT NOTICE:

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Manufacturer	Model Information	Input Voltage	Compatible?	Manufacturer	Model Information	Input Voltage	Compatible?	Manufacturer	Model Information	Input Voltage	Compatible?
ACCUPRO	AP-232IP-UNV-M	120-277V	Compatible	GE	GE232MV-H	120-277V	Compatible	GE	GE432MAX-N/ULTRA	120-277V	Compatible
ACCUPRO	AP-RC-232IP-120-1	120V	Compatible	GE	GE232-MV-N/M	120-277V	Compatible	GE	GE432MAXP-L/ULTRA	120-277V	Compatible
ACCUPRO	AP-RC-432IP-120-1	120V	Not Compatible	GE	GE232-MVPS-L	120-277V	Compatible	GE	GE432MAXP-N/ULTRA	120-277V	Compatible
ACCUPRO	AP-RS-232IS-120	120V	Not Compatible	GE	GE232MVPS-L-S30	120-277V	Compatible	GE	GE432MAXP-H/ULTRA	120-277V	Compatible
EnergyPRO	SLE-232-120-RS-LPF	120V	Not Compatible	GE	GE-232-MV-PS-H	120-277V	Compatible	GE	GE432MAXP-N+	120-277V	Not Compatible
ESPEN	VE432120MIP	120V	Compatible	GE	GE-232-MV-PS-N	120-277V	Compatible	GE	GE432MV-H	120-277V	Compatible
GE	G232-120-RES	120V	Compatible	GE	GE232MVPS-N-S30	120-277V	Compatible	GE	GE432MV-N	120-277V	Compatible
GE	GE 232MAXP90-S60 (1 BLACK LINE ON)	120-277V	Not Compatible	GE	GE232MVPSH-V03	120-277V	Compatible	GE	GE432-MV-N/M	120-277V	Compatible
GE	GE 232MAXP90-S60 (2 BLACK LINE ON)	120-277V	Not Compatible	GE	GE232MVPSN-V03	120-277V	Compatible	GE	GE432MVPS-H	120-277V	Compatible
GE	GE132MAX-G-N	120-277V	Not Compatible	GE	GE332MAX90-V60	120-277V	Not Compatible	GE	GE432MVPSH-V03	120-277V	Compatible
GE	GE132MAX-L/ULTRA	120-277V	Not Compatible	GE	GE332MAX-G-H	120-277V	Compatible	GE	GE432-MVPS-L	120-277V	Compatible
GE	GE132MAX-N/ULTRA	120-277V	Not Compatible	GE	GE332MAX-G-L	120-277V	Compatible	GE	GE432-MVPS-N	120-277V	Compatible
GE	GE132MAXP-H/ULTRA	120-277V	Not Compatible	GE	GE332MAX-G-N	120-277V	Compatible	GE	GE432MVPS-N-V03	120-277V	Not Compatible
GE	GE132MAXP-L/ULTRA	120-277V	Not Compatible	GE	GE332MAXP90-S60	120-277V	Not Compatible	GE	GE632MAXP-H90	120-277V	Compatible
GE	GE132MAXP-N/ULTRA	120-277V	Not Compatible	GE	GE332MAXP-H/ULTRA	120-277V	Compatible	GE	GE632MAXP-H90-S60	120-277V	Not Compatible
GE	GE-132-MV-N/M	120-277V	Not Compatible	GE	GE332MAXP-L/ULTRA	120-277V	Compatible	GE	GE632MAXP-H90-V60	120-277V	Not Compatible
GE	GE132-MVPS-H	120-277V	Compatible	GE	GE332MAXP-N/ULTRA	120-277V	Compatible	HATCH	HL232AIS/UV/HE/W	120-277V	Compatible
GE	GE132-MVPS-L	120-277V	Compatible	GE	GE332MAXP-N+	120-277V	Compatible	HATCH	HL232APS/UV/HE/W	120-277V	Compatible
GE	GE132MVPS-L-S30	120-277V	Not Tested	GE	GE332MAXP-N-GEN1	120-277V	Compatible	HATCH	HL232BIS/UV/HE/W	120-277V	Compatible
GE	GE-132-MV-PS-N	120-277V	Compatible	GE	GE332MV-H	120-277V	Compatible	HATCH	HL232BPS/UV/HE/W	120-277V	Compatible
GE	GE132MVPS-N-S30	120-277V	Compatible	GE	GE-332-MVPS-H	120-277V	Compatible	HATCH	HL332AIS/UV/HE/W	120-277V	Compatible
GE	GE132MVPS-N-V03	120-277V	Compatible	GE	GE332MVPSH-V03	120-277V	Not Compatible	HATCH	HL332APS/UV/HE/W	120-277V	Compatible
GE	GE232-120RES	120V	Compatible	GE	GE332-MVPS-L	120-277V	Compatible	HATCH	HL332BPS/UV/HE/W	120-277V	Compatible
GE	GE232-120RESDIYB	120V	Compatible	GE	GE332-MVPS-N	120-277V	Compatible	HATCH	HL332CPS/UV/HE/W	120-277V	Compatible
GE	GE232MAX90-S60	120-277V	Not Compatible	GE	GE332MVPS-N-V03	120-277V	Compatible	HATCH	HL432APS/UV/HE/W	120-277V	Compatible
GE	GE232MAX-G-L	120-277V	Compatible	GE	GE-332-MVPS-XL	120-277V	Compatible	HATCH	HL432BIS/UV/HE/W	120-277V	Compatible
GE	GE232MAX-L/ULTRA	120-277V	Compatible	GE	GE432-120-RES	120V	Compatible	HATCH	HL432BPS/UV/HE/W	120-277V	Compatible
GE	GE232MAX-N/ULTRA	120-277V	Compatible	GE	GE432-120RES-B	120-277V	Compatible	HOWARD	EP3/32IS/MV/MC/HE	120-277V	Compatible
GE	GE232MAXP90-V60	120-277V	Not Compatible	GE	GE432MAX90-S60	120-277V	Not Compatible	HOWARD	EP4/32IS/MV/MC/HE	120-277V	Compatible
GE	GE232MAXP-H/ULTRA	120-277V	Compatible	GE	GE432MAX-G-H	120-277V	Compatible	HOWARD	EP2/32IS/MV/MC/HE	120-277V	Compatible
GE	GE232MAXP-N/ULTRA	120-277V	Compatible	GE	GE432MAX-G-L	120-277V	Compatible				
GE	GE232MAXP-L/ULTRA	120-277V	Compatible	GE	GE432MAX-G-N	120-277V	Compatible				
GE	GE232MAXP-N+	120-277V	Not Compatible	GE	GE432MAX-H/Ultra	120-277V	Compatible				

 Compatible  
 Not Compatible  
 Not Tested

# Table #3 – T8 LED Tube – Type A - Page 2 of 2

## IMPORTANT NOTICE:

This list is based on testing performed using a stable AC power supply under laboratory conditions, which may not be representative of particular end-use conditions. While each ballast model listed has undergone testing, some may have undergone revisions that may change operating parameters and impact lamp performance. Applications and conditions of use are many and varied and beyond our control, so purchasers and users should make their own determinations as to the suitability of a lamp-ballast combination for their own particular application and use. Compatibility may also extend to ballasts beyond this list, so performing an on-site test before installation is recommended. Contact a sales representative if the ballast to be used is not listed in the table. Information is subject to change without notice.

Manufacturer	Model Information	Input Voltage	Compatible?	Manufacturer	Model Information	Input Voltage	Compatible?	Manufacturer	Model Information	Input Voltage	Compatible?
KEYSTONE	KTEB-232RIS-1-TP-SL	120V	Compatible	PHILIPS	IOP-3PSP32-SC	120-277V	Compatible	SYLVANIA	QTP 4X32T8/UNV ISN-SC	120-277V	Compatible
KEYSTONE	KTEB-232RIS-1-TP-SL/H	120V	Compatible	PHILIPS	ICN-1P32-N	120-277V	Compatible	SYLVANIA	QTP 4X32T8/UNV PSX-SC	120-277V	Not Compatible
KEYSTONE	KTEB-232RIS-1-TP-SL/J	120V	Compatible	PHILIPS	ICN-2P32-N	120-277V	Compatible	SYLVANIA	QT 2X32/277 PIUS	277V	Compatible
KEYSTONE	KTEB-432RIS-1-TP	120V	Compatible	PHILIPS	ICN-3P32-N	120-277V	Not Compatible	SYLVANIA	QTP 2x32T8/UNV ISH-SC	120-277V	Compatible
KEYSTONE	KTEB-432RIS-1-TP/INB	120V	Compatible	PHILIPS	ICN-4P32-N	120-277V	Compatible	SYLVANIA	QTP 2X32T8/UNV ISL-SC	120-277V	Compatible
OSRAM	QHE 1X32T8/UNV ISN-SC	120-277V	Compatible	PHILIPS	IOP-3PSP32-LW-SC	120-277V	Compatible	SYLVANIA	QTP 2X32T8/UNV ISN-SC	120-277V	Compatible
OSRAM	QHE 2X32T8/UNV ISL-SC	120-277V	Compatible	PHILIPS	IOP-4P32-N	120-277V	Compatible	SYLVANIA	QTP 3X32T8/UNV PSX-SC	120-277V	Not Compatible
OSRAM	QHE 2X32T8/UNV ISN-SC	120-277V	Compatible	PHILIPS	IOP-4PSP32-SC	120-277V	Compatible	SYLVANIA	QTP 4X32T8/UNV ISN-SC	120-277V	Compatible
OSRAM	QHE 2X32T8/UNV ISN-SC	120-277V	Compatible	PHILIPS	IOPA-1P32--HL-N	120-277V	Compatible	SYLVANIA	QHE 3X32T8/UNV PSX-SC	120-277V	Compatible
OSRAM	QHE 2X32T8/UNV/ DIM-TC	120-277V	Not Compatible	PHILIPS	IOPA-1P32-N	120-277V	Compatible	SYLVANIA	QTP1X32T8/UNV PSX-TC	120-277V	Not Compatible
OSRAM	QHE 2X32T8/UNV/HDIM10/SC	120-277V	Compatible	PHILIPS	IOPA-2P32-HL-N	120-277V	Not Compatible	Universal	432IUNVEL-A	120-277V	Not Tested
OSRAM	QHE 3X32T8/UNV ISL-SC	120-277V	Compatible	PHILIPS	IOPA-2P32-N	120-277V	Compatible	Universal	B132I120RH-A	120V	Compatible
OSRAM	QHE 3X32T8/UNV ISN-SC	120-277V	Compatible	PHILIPS	IOPA-3P32-N	120-277V	Not Compatible	Universal	B132IUNVEL-N	120-277V	Compatible
OSRAM	QHE 4X32T8/UNV ISL-SC	120-277V	Compatible	PHILIPS	IOPA-3P32-SC	120-277V	Compatible	Universal	B132IUNVHE-N	120-277V	Compatible
OSRAM	QHE 4X32T8/UNV ISN-SC	120-277V	Compatible	PHILIPS	IOPA-4P32-N	120-277V	Not Compatible	Universal	B132IUNVHP-N	120-277V	Compatible
OSRAM	QHE 4X32T8/UNV ISN-SC	120-277V	Compatible	PHILIPS	IZT-132-SC	120-277V	Not Compatible	Universal	B232IUNVEL-N	120-277V	Compatible
OSRAM	QHE 4X32T8/UNV PSN-SC	120-277V	Compatible	PHILIPS	IZT-2PSP32-SC	120-277V	Not Compatible	Universal	B232IUNVHE-A	120-277V	Compatible
OSRAM	QT 3X32 T8/277	277V	Compatible	PHILIPS	IZT-2S32-SC	120-277V	Not Compatible	Universal	B232IUNVHEH-A	120-277V	Compatible
OSRAM	QT 3X32 T8/277 ISN-SC	277V	Compatible	PHILIPS	IZT-3S32-SC	120-277V	Not Compatible	Universal	B232IUNVHE-N	120-277V	Compatible
OSRAM	QTP 1X32T8/UNV ISN-SC	120-277V	Compatible	PHILIPS	REB-2P32-N	120-277V	Compatible	Universal	B232IUNVHP-N	120-277V	Compatible
OSRAM	QTP 2X32T8/UNV ISN-SC	120-277V	Compatible	PHILIPS	REB-4P32-SC	120V	Compatible	Universal	B232PUNVHE-B	120-277V	Compatible
OSRAM	QTP 3X32T8/UNV ISN-SC	120-277V	Compatible	PHILIPS	REZ-2S32-SC	120-277V	Not Compatible	Universal	B332IUNVEL-A	120-277V	Compatible
OSRAM	QTP 3X32T8/UNVISN-SC	120-277V	Compatible					Universal	B332IUNVHE-A	120-277V	Compatible
								Universal	B332IUNVHP-A	120-277V	Compatible
								Universal	B432IUNVHE-A	120-277V	Compatible
								Universal	B432IUNVHP-A	120-277V	Compatible

 Compatible  
 Not Compatible  
 Not Tested

# Table #4 – T8 LED Tube – Type A - Page 1 of 3

## IMPORTANT NOTICE:

This list is based on testing performed using a stable AC power supply under laboratory conditions, which may not be representative of particular end-use conditions. While each ballast model listed has undergone testing, some may have undergone revisions that may change operating parameters and impact lamp performance. Applications and conditions of use are many and varied and beyond our control, so purchasers and users should make their own determinations as to the suitability of a lamp-ballast combination for their own particular application and use. Compatibility may also extend to ballasts beyond this list, so performing an on-site test before installation is recommended. Contact a sales representative if the ballast to be used is not listed in the table. Information is subject to change without notice.

Manufacturer	Model Information	# of Tubes	Ballast Factor	Start Type	Volts	4ft ET8	3ft ET8	2ft ET8
General Electric	GE132MAX-L/ULTRA	1	L	Instant	UNV			
General Electric	GE132MAXP-L/ULTRA	1	L	Instant	UNV			
General Electric	GE132-MVPS-L	1	L	Program	UNV			
General Electric	GE132MV-N	1	N	Instant	UNV			
General Electric	GE132MAX-G-N	1	N	Instant	UNV			
General Electric	GE132MAXP-N/ULTRA	1	N	Instant	UNV			
General Electric	GE132MV-PS-N	1	N	Program	UNV			
General Electric	GE132MVPS-N-S30	1	N	Program	UNV			
General Electric	GE132MVPS-N-V03	1	N	Program	UNV			
General Electric	GE132-N-347	1	N	Instant	347			
General Electric	GE132MAXP-H/ULTRA	1	H	Program	UNV			
Osram Sylvania	QTP 1x32T8/UNV PSX-TC	1	L	Program	UNV			
Osram Sylvania	QHE 1x32T8/UNV ISN-SC	1	N	Instant	UNV			
Osram Sylvania	QTP 1x32T8/UNV ISN-SC	1	N	Instant	UNV			
Philips Advance	ICN-1P32-N	1	N	Instant	UNV			
Philips Advance	IOPA-1P32-N	1	N	Instant	UNV			
Philips Advance	IOPA-1P32-HL-N	1	H	Instant	UNV			
Universal	B132IUNVEL-N	1	L	Instant	UNV			
Universal	B132IUNVHE-N	1	N	Instant	UNV			
Universal	B132IUNVHP-N	1	N	Instant	UNV			
General Electric	GE-232-MVPS-XL	2	XL	Program	UNV			
General Electric	GE232MAX-G-L	2	L	Instant	UNV			
General Electric	GE232MAXP-L/ULTRA	2	L	Instant	UNV			
General Electric	GE232-MVPS-L	2	L	Program	UNV			
General Electric	GE232MVPS-L-S30	2	L	Program	UNV			
General Electric	GE232MAXP347-L	2	L	Instant	347			
General Electric	GE232PS347-L	2	L	Program	347			
General Electric	GE232-120-RES	2	N	Instant	120			
General Electric	GE232MAX-G-N	2	N	Instant	UNV			
General Electric	GE232MAXP347-N	2	N	Instant	347			

Manufacturer	Model Information	# of Tubes	Ballast Factor	Start Type	Volts	4ft ET8	3ft ET8	2ft ET8
General Electric	GE232MAXP-N/ULTRA	2	N	Instant	UNV			
General Electric	GE232MAX-N/AMP	2	N	Instant	UNV			
General Electric	GE232MV-N	2	N	Instant	UNV			
General Electric	GE232-120RES-DIY	2	N	Instant	UNV			
General Electric	GE-232-MV-PS-N	2	N	Program	UNV			
General Electric	GE232MVPS-N-S30	2	N	Program	UNV			
General Electric	GE232MVPS-N-V03	2	N	Program	UNV			
General Electric	GE232PS347-N	2	N	Program	347			
General Electric	GE232-N-347	2	N	Instant	347			
General Electric	GE232MAX-G-N-347	2	N	Instant	347			
General Electric	GE232MAXP-N+	2	N+	Instant	UNV			
General Electric	GE232MAX-G-H	2	H	Instant	UNV			
General Electric	GE232MAXP90-S60	2	H	Instant	UNV			
General Electric	GE232MAXP-H/ULTRA	2	H	Instant	UNV			
General Electric	GE232MV-H	2	H	Instant	UNV			
General Electric	GE232-MV-PS-H	2	H	Program	UNV			
General Electric	GE232MVPSH-V03	2	H	Program	UNV			
General Electric	GE232PS347-H	2	H	Program	347			
Fusion	FB232MVE-N	2	N	Instant	UNV			
Fusion	FB232347E-N	2	N	Instant	347			
Hatch	HL232AIS/UV/HE/W	2	L	Instant	UNV			
Hatch	HL232APS/UV/HE/W	2	L	Program	UNV			
Hatch	HL232AIS/34/HE/W	2	L	Instant	347			
Hatch	HL232BIS/UV/HE/W	2	N	Instant	UNV			
Hatch	HL232BPS/UV/HE/W	2	N	Program	UNV			
Hatch	HL232CPS/UV/HE/W	2	H	Program	UNV			
Howard	EP2/32IS/MV/MC/HE	2	N	Instant	UNV			
Osram Sylvania	QHE 2x32T8/UNV ISL-SC	2	L	Instant	UNV			
Osram Sylvania	QTP 2x32T8/UNV ISL-SC	2	L	Instant	UNV			
Osram Sylvania	QT 2 x 32/347 LP	2	L	Instant	347			



Compatible



Not Compatible



Use with caution-high/low watts

# Table #4 – T8 LED Tube – Type A - Page 2 of 3

## IMPORTANT NOTICE:

This list is based on testing performed using a stable AC power supply under laboratory conditions, which may not be representative of particular end-use conditions. While each ballast model listed has undergone testing, some may have undergone revisions that may change operating parameters and impact lamp performance. Applications and conditions of use are many and varied and beyond our control, so purchasers and users should make their own determinations as to the suitability of a lamp-ballast combination for their own particular application and use. Compatibility may also extend to ballasts beyond this list, so performing an on-site test before installation is recommended. Contact a sales representative if the ballast to be used is not listed in the table. Information is subject to change without notice.

Manufacturer	Model Information	# of Tubes	Ballast Factor	Start Type	Volts	4ft ET8	3ft ET8	2ft ET8
Osram Sylvania	QT2x32 T8/347 ISN-SC	2	N	Instant	347			
Osram Sylvania	QHE 2x32T8/347 ISN-SC	2	N	Instant	347			
Osram Sylvania	QHE 2x32T8/UNV ISN-SC	2	N	Instant	UNV			
Osram Sylvania	QTP 2x32T8/UNV ISN-SC	2	N	Instant	UNV			
Osram Sylvania	QTP 2x32T8/UNV ISH-SC	2	H	Instant	UNV			
Philips Advance	IOPA-2P32-LW-N	2	L	Instant	UNV			
Philips Advance	GOPA-2P32-SC	2	N	Instant	347			
Philips Advance	ICN-2P32-N	2	N	Instant	UNV			
Philips Advance	REB-2P32-SC	2	N	Instant	120			
Philips Advance	REB-2P32-N	2	N	Instant	120			
Philips Advance	IOPA-2P32-N	2	N	Instant	UNV			
Philips Advance	IZT-2S32-SC	2	N	Program	UNV			
Philips Advance	REZ-2S32-SC	2	N	Program	120			
Philips Advance	IZT-2PSP32-SC	2	N	Program	UNV			
Philips Advance	IOP-2P32HL-SC	2	H	Instant	UNV			
Philips Advance	IOPA-2P32HL-SC	2	H	Instant	UNV			
Ultrasave	UT232347	2	N	Instant	347			
Universal	B232IUNVEL-N	2	L	Instant	UNV			
Universal	B232IUNVHE-N	2	N	Instant	UNV			
Universal	B232IUNVHP-N	2	N	instant	UNV			
Universal	B232PUNVHE-B	2	N	Instant	UNV			
Universal	B232I277RH-A	2	N	Instant	277			
Universal	B232IUNVHEH-A	2	H	Instant	UNV			
General Electric	GE-332-MVPS-XL	3	XL	Program	UNV			
General Electric	GE332MAX-G-L	3	L	Instant	UNV			
General Electric	GE332MAXP-L/ULTRA	3	L	Instant	UNV			
General Electric	GE332-MVPS-L	3	L	Program	UNV			
General Electric	GE332MAX-G-N	3	N	Instant	UNV			
General Electric	GE332MV-N	3	N	Instant	UNV			
General Electric	GE332MAXP-N/ULTRA	3	N	Instant	UNV			

Manufacturer	Model Information	# of Tubes	Ballast Factor	Start Type	Volts	4ft ET8	3ft ET8	2ft ET8
General Electric	GE332MAX-N-GEN1	3	N	Instant	UNV			
General Electric	GE332MAXP-N-GEN1	3	N	Instant	UNV			
General Electric	GE332MAX-N/AMP	3	N	Instant	UNV			
General Electric	GE332-MVPS-N	3	N	Program	UNV			
General Electric	GE332MVPSN-V03	3	N	Program	UNV			
General Electric	GE332PS347-N	3	N	Program	347			
General Electric	GE332MAX-G-347	3	N	Instant	347			
General Electric	GE332MAX-G-H	3	H	Instant	UNV			
General Electric	GE332MAXP-H/ULTRA	3	H	Instant	UNV			
General Electric	GE332MAXPH-42T	3	H	Instant	UNV			
General Electric	GE332MVPSH-V03	3	H	Program	UNV			
General Electric	GE332MAXP90-V60	3	H	Instant	UNV			
General Electric	GE332MAXP90-S60	3	H	Instant	UNV			
General Electric	GE332MAX347-H	3	H	Instant	347			
Fusion	FB332MVE	3	N	Instant	UNV			
Hatch	HL332AIS/UV/HE/W	3	L	Instant	UNV			
Hatch	HL332APS/UV/HE/W	3	L	Program	UNV			
Hatch	HL332BPS/UV/HE/W	3	N	Program	UNV			
Hatch	HL332CPS/UV/HE/W	3	H	Program	UNV			
Howard	EP3/32IS/MV/MC/HE	3	N	Instant	UNV			
Osram Sylvania	QHE 3x32T8/UNV ISL-SC	3	L	Instant	UNV			
Osram Sylvania	QHE 3x32T8/UNV PSX-SC	3	L	Program	UNV			
Osram Sylvania	QTP 3x32T8/UNV PSX-SC	3	L	Program	UNV			
Osram Sylvania	QHE 3x32T8/UNV ISN-SC	3	N	Instant	UNV			
Osram Sylvania	QTP 3x32T8/UNV ISN-SC	3	N	Instant	UNV			
Philips Advance	IOP-3PSP32-LW-SC	3	L	Program	UNV			
Philips Advance	ICN-3P32-N	3	N	Instant	UNV			
Philips Advance	IOPA-3P32-N	3	N	Instant	UNV			
Philips Advance	IOP-3PSP32-SC	3	N	Program	UNV			
Universal	B332IUNVEL-A	3	L	Instant	UNV			



Compatible



Not Compatible



Use with caution-high/low watts



# Table #4 – T8 LED Tube – Type A - Page 3 of 3

## IMPORTANT NOTICE:

This list is based on testing performed using a stable AC power supply under laboratory conditions, which may not be representative of particular end-use conditions. While each ballast model listed has undergone testing, some may have undergone revisions that may change operating parameters and impact lamp performance. Applications and conditions of use are many and varied and beyond our control, so purchasers and users should make their own determinations as to the suitability of a lamp-ballast combination for their own particular application and use. Compatibility may also extend to ballasts beyond this list, so performing an on-site test before installation is recommended. Contact a sales representative if the ballast to be used is not listed in the table. Information is subject to change without notice.

Manufacturer	Model Information	# of Tubes	Ballast Factor	Start Type	Volts	4ft ET8	3ft ET8	2ft ET8
Universal	B332IUNVHE-A	3	N	Instant	UNV			
Universal	B332IUNVHP-A	3	N	Instant	UNV			
Universal	B332IHRVHB-E	3	H	Instant	480			
General Electric	GE432MAX-G-L	4	L	Instant	UNV			
General Electric	GE432MAXP-L/ULTRA	4	L	Instant	UNV			
General Electric	GE432MAXP347-L	4	L	Instant	347			
General Electric	GE432-MVPS-L	4	L	Program	UNV			
General Electric	GE432-120-RES	4	N	Instant	120			
General Electric	GE432MAX347-N	4	N	Instant	347			
General Electric	GE432MAX-G-N	4	N	Instant	UNV			
General Electric	GE432MAXP-N/ULTRA	4	N	Instant	UNV			
General Electric	GE432MV-N	4	N	Instant	UNV			
General Electric	GE432-MVPS-N	4	N	Program	UNV			
General Electric	GE432MVPS-N-V03W	4	N	Program	UNV			
General Electric	GE432MAXP-N+	4	N+	Instant	UNV			
General Electric	GE432MAX-G-H	4	H	Instant	UNV			
General Electric	GE432MAXP347-H	4	H	Instant	347			
General Electric	GE432MAXP-H/ULTRA	4	H	Instant	UNV			
General Electric	GE432MVPS-H	4	H	Instant	UNV			
General Electric	GE432MVPS-H-V03	4	H	Program	UNV			
General Electric	GE432MAXP90-V60	4	H	Instant	UNV			
Fusion	FB432MVE-N	4	N	Instant	UNV			
Fusion	FB432347E-N	4	N	Instant	347			
Hatch	HL432APS/UV/HE/W	4	L	Program	UNV			
Hatch	HL432AIS/34/HE/W	4	L	Instant	347			
Hatch	HL432BIS/UV/HE/W	4	N	Instant	UNV			
Hatch	HL432BPS/UV/HE/W	4	N	Program	UNV			
Howard	EP4/32IS/MV/MC/HE	4	N	Instant	UNV			
Osram Sylvania	QHE 4x32T8/UNV ISL-SC	4	L	Instant	UNV			
Osram Sylvania	QHE 4x32T8/UNV ISN-SC	4	N	Instant	UNV			

Manufacturer	Model Information	# of Tubes	Ballast Factor	Start Type	Volts	4ft ET8	3ft ET8	2ft ET8
Osram Sylvania	QTP 4x32T8/UNV ISN-SC	4	N	Instant	UNV			
Osram Sylvania	QHE 4x32T8/UNV PSN-SC	4	N	Program	UNV			
Philips Advance	IOP-4PSP32-LW-SC	4	L	Program	UNV			
Philips Advance	GOPA-4P32-SC	4	N	Instant	347			
Philips Advance	ICN-4P32-N	4	N	Instant	UNV			
Philips Advance	IOP-4P32-N	4	N	Instant	UNV			
Philips Advance	IOPA-4P32-N	4	N	Instant	UNV			
Philips Advance	REB-4P32-SC	4	N	Instant	120			
Philips Advance	IOP-4PSP32-SC	4	N	Program	UNV			
Ultrasave	UT432347	4	N	Instant	347			
Universal	B432IUNVEL-A	4	L	Instant	UNV			
Universal	B432IUNVHE-A	4	N	Instant	UNV			
Universal	B432IUNVHP-A	4	N	Instant	UNV			



Compatible



Not Compatible



Use with caution-high/low watts

# Table #5 – T8 LED Tube –Type A/B Hybrid - Page 1 of 2

## IMPORTANT NOTICE:

This list is based on testing performed using a stable AC power supply under laboratory conditions, which may not be representative of particular end-use conditions. While each ballast model listed has undergone testing, some may have undergone revisions that may change operating parameters and impact lamp performance. Applications and conditions of use are many and varied and beyond our control, so purchasers and users should make their own determinations as to the suitability of a lamp-ballast combination for their own particular application and use. Compatibility may also extend to ballasts beyond this list, so performing an on-site test before installation is recommended. Contact a sales representative if the ballast to be used is not listed in the table. Information is subject to change without notice.

Manufacturer	Model Information	Input Voltage	Compatible?	Manufacturer	Model Information	Input Voltage	Compatible?	Manufacturer	Model Information	Input Voltage	Compatible?
ACCUPRO	AP-232IP-UNV-M	120-277V	Compatible	GE	GE232MV-H	120-277V	Compatible	GE	GE432MAX-N/ULTRA	120-277V	Compatible
ACCUPRO	AP-RC-232IP-120-1	120V	Compatible	GE	GE232-MV-N/M	120-277V	Compatible	GE	GE432MAXP-L/ULTRA	120-277V	Compatible
ACCUPRO	AP-RC-432IP-120-1	120V	Compatible	GE	GE232-MVPS-L	120-277V	Compatible	GE	GE432MAXP-N/ULTRA	120-277V	Compatible
ACCUPRO	AP-RS-232IS-120	120V	Compatible	GE	GE232MVPS-L-S30	120-277V	Compatible	GE	GE432MAXP-H/ULTRA	120-277V	Compatible
EnergyPRO	SLE-232-120-RS-LPF	120V	Compatible	GE	GE-232-MV-PS-H	120-277V	Compatible	GE	GE432MAXP-N+	120-277V	Compatible
ESPEN	VE432120MIP	120V	Compatible	GE	GE-232-MV-PS-N	120-277V	Compatible	GE	GE432MV-H	120-277V	Not Compatible
GE	G232-120-RES	120V	Compatible	GE	GE232MVPS-N-S30	120-277V	Compatible	GE	GE432MV-N	120-277V	Compatible
GE	GE 232MAXP90-S60 (1 BLACK LINE ON)	120-277V	Compatible	GE	GE232MVPSH-V03	120-277V	Compatible	GE	GE432-MV-N/M	120-277V	Compatible
GE	GE 232MAXP90-S60 (2 BLACK LINE ON)	120-277V	Compatible	GE	GE232MVPSN-V03	120-277V	Compatible	GE	GE432MVPS-H	120-277V	Compatible
GE	GE132MAX-G-N	120-277V	Compatible	GE	GE332MAX90-V60	120-277V	Compatible	GE	GE432-MVPS-L	120-277V	Compatible
GE	GE132MAX-L/ULTRA	120-277V	Compatible	GE	GE332MAX-G-H	120-277V	Compatible	GE	GE432-MVPS-N	120-277V	Compatible
GE	GE132MAX-N/ULTRA	120-277V	Compatible	GE	GE332MAX-G-L	120-277V	Compatible	GE	GE432MVPS-N	120-277V	Compatible
GE	GE132MAXP-H/ULTRA	120-277V	Compatible	GE	GE332MAX-G-N	120-277V	Compatible	GE	GE432MVPS-N-V03	120-277V	Compatible
GE	GE132MAXP-L/ULTRA	120-277V	Compatible	GE	GE332MAXP90-S60	120-277V	Compatible	GE	GE632MAXP-H90	120-277V	Compatible
GE	GE132MAXP-N/ULTRA	120-277V	Compatible	GE	GE332MAXP-H/ULTRA	120-277V	Compatible	GE	GE632MAXP-H90-S60	120-277V	Compatible
GE	GE-132-MV-N/M	120-277V	Compatible	GE	GE332MAXP-L/ULTRA	120-277V	Compatible	GE	GE632MAXP-H90-V60	120-277V	Compatible
GE	GE132-MVPS-H	120-277V	Compatible	GE	GE332MAXP-N/ULTRA	120-277V	Compatible	HATCH	HL232AIS/UV/HE/W	120-277V	Compatible
GE	GE132-MVPS-L	120-277V	Compatible	GE	GE332MAXP-N+	120-277V	Compatible	HATCH	HL232APS/UV/HE/W	120-277V	Compatible
GE	GE132MVPS-L-S30	120-277V	Compatible	GE	GE332MAXP-N-GEN1	120-277V	Compatible	HATCH	HL232BIS/UV/HE/W	120-277V	Compatible
GE	GE-132-MV-PS-N	120-277V	Not Compatible	GE	GE332MV-H	120-277V	Compatible	HATCH	HL232BPS/UV/HE/W	120-277V	Compatible
GE	GE132MVPS-N-S30	120-277V	Compatible	GE	GE-332-MVPS-H	120-277V	Compatible	HATCH	HL332AIS/UV/HE/W	120-277V	Compatible
GE	GE132MVPS-N-V03	120-277V	Compatible	GE	GE332MVPSH-V03	120-277V	Compatible	HATCH	HL332APS/UV/HE/W	120-277V	Compatible
GE	GE232-120RES	120V	Compatible	GE	GE332-MVPS-L	120-277V	Compatible	HATCH	HL332BPS/UV/HE/W	120-277V	Compatible
GE	GE232-120RESDIYB	120V	Compatible	GE	GE332-MVPS-N	120-277V	Compatible	HATCH	HL332CPS/UV/HE/W	120-277V	Compatible
GE	GE232MAX90-S60	120-277V	Compatible	GE	GE332MVPS-N-V03	120-277V	Compatible	HATCH	HL432APS/UV/HE/W	120-277V	Compatible
GE	GE232MAX-G-L	120-277V	Compatible	GE	GE-332-MVPS-XL	120-277V	Compatible	HATCH	HL432BIS/UV/HE/W	120-277V	Compatible
GE	GE232MAX-L/ULTRA	120-277V	Compatible	GE	GE432-120-RES	120V	Compatible	HATCH	HL432BPS/UV/HE/W	120-277V	Compatible
GE	GE232MAX-N/ULTRA	120-277V	Compatible	GE	GE432-120RES-B	120-277V	Compatible	HOWARD	EP3/32IS/MV/MC/HE	120-277V	Compatible
GE	GE232MAXP90-V60	120-277V	Compatible	GE	GE432MAX90-S60	120-277V	Compatible	HOWARD	EP4/32IS/MV/MC/HE	120-277V	Compatible
GE	GE232MAXP-H/ULTRA	120-277V	Compatible	GE	GE432MAX-G-H	120-277V	Compatible	HOWARD	EP2/32IS/MV/MC/HE	120-277V	Compatible
GE	GE232MAXP-N/ULTRA	120-277V	Compatible	GE	GE432MAX-G-L	120-277V	Compatible				
GE	GE232MAXP-L/ULTRA	120-277V	Compatible	GE	GE432MAX-G-N	120-277V	Compatible				
GE	GE232MAXP-N+	120-277V	Compatible	GE	GE432MAX-H/Ultra	120-277V	Compatible				

 Compatible  
 Not Compatible  
 Not Tested

# Table #5 – T8 LED Tube –Type A/B Hybrid - Page 2 of 2

## IMPORTANT NOTICE:

This list is based on testing performed using a stable AC power supply under laboratory conditions, which may not be representative of particular end-use conditions. While each ballast model listed has undergone testing, some may have undergone revisions that may change operating parameters and impact lamp performance. Applications and conditions of use are many and varied and beyond our control, so purchasers and users should make their own determinations as to the suitability of a lamp-ballast combination for their own particular application and use. Compatibility may also extend to ballasts beyond this list, so performing an on-site test before installation is recommended. Contact a sales representative if the ballast to be used is not listed in the table. Information is subject to change without notice.

Manufacturer	Model Information	Input Voltage	Compatible?	Manufacturer	Model Information	Input Voltage	Compatible?	Manufacturer	Model Information	Input Voltage	Compatible?
KEYSTONE	KTEB-232RIS-1-TP-SL	120V	Compatible	PHILIPS	IOP-3PSP32-SC	120-277V	Compatible	SYLVANIA	QTP 4X32T8/UNV ISN-SC	120-277V	Compatible
KEYSTONE	KTEB-232RIS-1-TP-SL/H	120V	Compatible	PHILIPS	ICN-1P32-N	120-277V	Compatible	SYLVANIA	QTP 4X32T8/UNV PSX-SC	120-277V	Compatible
KEYSTONE	KTEB-232RIS-1-TP-SL/J	120V	Compatible	PHILIPS	ICN-2P32-N	120-277V	Compatible	SYLVANIA	QT 2X32/277 PIUS	277V	Compatible
KEYSTONE	KTEB-432RIS-1-TP	120V	Compatible	PHILIPS	ICN-3P32-N	120-277V	Compatible	SYLVANIA	QTP 2x32T8/UNV ISH-SC	120-277V	Compatible
KEYSTONE	KTEB-432RIS-1-TP/INB	120V	Compatible	PHILIPS	ICN-4P32-N	120-277V	Compatible	SYLVANIA	QTP 2X32T8/UNV ISL-SC	120-277V	Compatible
OSRAM	QHE 1X32T8/UNV ISN-SC	120-277V	Compatible	PHILIPS	IOP-3PSP32-LW-SC	120-277V	Compatible	SYLVANIA	QTP 2X32T8/UNV ISN-SC	120-277V	Compatible
OSRAM	QHE 2X32T8/UNV ISL-SC	120-277V	Compatible	PHILIPS	IOP-4P32-N	120-277V	Compatible	SYLVANIA	QTP 3X32T8/UNV PSX-SC	120-277V	Not Compatible
OSRAM	QHE 2X32T8/UNV ISN-SC	120-277V	Compatible	PHILIPS	IOP-4PSP32-SC	120-277V	Compatible	SYLVANIA	QTP 4X32T8/UNV ISN-SC	120-277V	Compatible
OSRAM	QHE 2X32T8/UNV ISN-SC	120-277V	Compatible	PHILIPS	IOPA-1P32--HL-N	120-277V	Compatible	SYLVANIA	QHE 3X32T8/UNV PSX-SC	120-277V	Not Compatible
OSRAM	QHE 2X32T8/UNV/ DIM-TC	120-277V	Compatible	PHILIPS	IOPA-1P32-N	120-277V	Compatible	SYLVANIA	QTP1X32T8/UNV PSX-TC	120-277V	Not Compatible
OSRAM	QHE 2X32T8/UNV/HDIM10/SC	120-277V	Compatible	PHILIPS	IOPA-2P32-HL-N	120-277V	Compatible	Universal	432IUNVEL-A	120-277V	Compatible
OSRAM	QHE 3X32T8/UNV ISL-SC	120-277V	Not Compatible	PHILIPS	IOPA-2P32-N	120-277V	Compatible	Universal	B132I120RH-A	120V	Compatible
OSRAM	QHE 3X32T8/UNV ISN-SC	120-277V	Compatible	PHILIPS	IOPA-3P32-N	120-277V	Compatible	Universal	B132IUNVEL-N	120-277V	Compatible
OSRAM	QHE 4X32T8/UNV ISL-SC	120-277V	Compatible	PHILIPS	IOPA-3P32-SC	120-277V	Compatible	Universal	B132IUNVHE-N	120-277V	Compatible
OSRAM	QHE 4X32T8/UNV ISN-SC	120-277V	Not Compatible	PHILIPS	IOPA-4P32-N	120-277V	Compatible	Universal	B132IUNVHP-N	120-277V	Compatible
OSRAM	QHE 4X32T8/UNV PSN-SC	120-277V	Compatible	PHILIPS	IZT-132-SC	120-277V	Compatible	Universal	B232IUNVEL-N	120-277V	Compatible
OSRAM	QT 3X32 T8/277	277V	Compatible	PHILIPS	IZT-2PSP32-SC	120-277V	Not Compatible	Universal	B232IUNVHE-A	120-277V	Compatible
OSRAM	QT 3X32 T8/277 ISN-SC	277V	Compatible	PHILIPS	IZT-2S32-SC	120-277V	Not Compatible	Universal	B232IUNVHEH-A	120-277V	Compatible
OSRAM	QTP 1X32T8/UNV ISN-SC	120-277V	Compatible	PHILIPS	IZT-3S32-SC	120-277V	Not Compatible	Universal	B232IUNVHE-N	120-277V	Compatible
OSRAM	QTP 2X32T8/UNV ISN-SC	120-277V	Compatible	PHILIPS	REB-2P32-N	120-277V	Not Compatible	Universal	B232IUNVHP-N	120-277V	Compatible
OSRAM	QTP 2X32T8/UNV ISN-SC	120-277V	Compatible	PHILIPS	REB-4P32-SC	120V	Compatible	Universal	B232PUNVHE-B	120-277V	Compatible
OSRAM	QTP 3X32T8/UNV ISN-SC	120-277V	Compatible	PHILIPS	REZ-2S32-SC	120-277V	Compatible	Universal	B332IUNVEL-A	120-277V	Compatible
OSRAM	QTP 3X32T8/UNVISN-SC	120-277V	Compatible					Universal	B332IUNVHE-A	120-277V	Compatible
								Universal	B332IUNVHP-A	120-277V	Compatible
								Universal	B432IUNVHE-A	120-277V	Compatible
								Universal	B432IUNVHP-A	120-277V	Compatible

 Compatible  
 Not Compatible  
 Not Tested

# Table #6 – T8 LED Tube - Universal Type A


## IMPORTANT NOTICE:

This list is based on testing performed using a stable AC power supply under laboratory conditions, which may not be representative of particular end-use conditions. While each ballast model listed has undergone testing, some may have undergone revisions that may change operating parameters and impact lamp performance. Applications and conditions of use are many and varied and beyond our control, so purchasers and users should make their own determinations as to the suitability of a lamp-ballast combination for their own particular application and use. Compatibility may also extend to ballasts beyond this list, so performing an on-site test before installation is recommended. Contact a sales representative if the ballast to be used is not listed in the table. Information is subject to change without notice.

Manufacturer	Ballast Type	Model Information	Type	Input Voltage	# Lamps	Compatible?
ACUPRO	T8	AP-RS-232IS-120	Electronic	120V/60HZ	1/2	Compatible
ADVANCE	T8	Cat NO.RK-2S32-TP	Magnetic	120V/60HZ	1/2	Compatible
CDL	T8	#E232120MRSLP	Electronic	120V/60HZ	1/2	Compatible
GE	T8	GE132MAX-G-N	Electronic	120-277V/60HZ	1	Compatible
GE	T8	GE132MAX-N/ULTRA	Electronic	120-277V/60HZ	1	Compatible
GE	T8	GE232-120RES-B	Electronic	120V/60HZ	1/2	Compatible
GE	T8	GE332MAXP-N+	Electronic	120-277V/60HZ	1/2/3	Compatible
GE	T8	GE432-120RES-B	Electronic	120V/60HZ	1/2/3/4	Compatible
GE	T8	GE432MAXP-N+	Electronic	120-277V/60HZ	1/2/3/4	Not Compatible
HOWARD	T8	EL 3 32IS-277	Electronic	277V/60HZ	1/2/3	Compatible
Keystone	T8	KTEB-232RIS-1-TP-SL	Electronic	120V/60HZ	1/2	Compatible
Lights of America	T8	8045E-WH	Electronic	120V/60HZ	1/2	Compatible
Robertson	T8	SEN434P	Magnetic	120V/60HZ	1/2/3/4	Compatible
SYLVANIA	T8	QUICKTRONIC® QT 3*32 T8/277 ISN-SC	Electronic	277V/60HZ	1/2/3	Compatible
TraidUniversal	T8	C240SI277RH	Electronic	277V/60HZ	1/2	Compatible
Universal	T8	Cat NO.731-L-TC-P	Magnetic	120V/60HZ	1/2	Compatible

Manufacturer	Ballast Type	Model Information	Type	Input Voltage	# Lamps	Compatible?
ADVANCE	T12	Cat NO.R-2S40-1-TP	Magnetic	120V/60HZ	1/2	Compatible
GE	T12	458-L-SLH-TC-P	Magnetic	277V/60HZ	1	Compatible
GE	T12	8G1075	Magnetic	120V/60HZ	1	Compatible
GE	T12	GE240PSMVN-DIYB	Electronic	120-277V/60HZ	1/2	Compatible
GE	T12	GE240RES120-B	Electronic	120V/60HZ	1/2	Compatible
Keystone	T12	KTEB-240-1-TP /E	Electronic	120V/60HZ	1/2	Compatible
Magnetek	T12	413-C-TC-P	Magnetic	120V/60HZ	1	Compatible
Magnetek	T12	446-L-SLH-TC-P	Magnetic	120V/60HZ	1/2	Compatible
Magnetek	T12	458-L-SLH-TC-P	Magnetic	277V/60HZ	1	Compatible
Osram	T12	QTP 2*40T12/UNV RS SC	Electronic	120-277V/60HZ	1/2	Compatible
Robertson	T12	CAT.NO.ES-240-120-TP	Magnetic	120V/60HZ	1/2	Compatible
SOLA	T12	E420-F-234 IC	Magnetic	120V/60HZ	1/2	Compatible
Utilitech	T12	#YZ-240	Electronic	120V/60HZ	1/2	Compatible
VF	T12	8G3905W	Magnetic	120V/60HZ	1/2	Compatible

 Compatible

 Not Compatible

 Not Tested

# Table #7 –T5 LED Tube - Standard Type A

## IMPORTANT NOTICE:

This list is based on testing performed using a stable AC power supply under laboratory conditions, which may not be representative of particular end-use conditions. While each ballast model listed has undergone testing, some may have undergone revisions that may change operating parameters and impact lamp performance. Applications and conditions of use are many and varied and beyond our control, so purchasers and users should make their own determinations as to the suitability of a lamp-ballast combination for their own particular application and use. Compatibility may also extend to ballasts beyond this list, so performing an on-site test before installation is recommended. Contact a sales representative if the ballast to be used is not listed in the table. Information is subject to change without notice.

Manufacturer	Model Information	Compatible?	Manufacturer	Model Information	Compatible?
FULHAM	RHA-UNV-454-LT5	Compatible	OSRAM	QTP4x54T5HO UNV PSN HT W	Compatible
GE	GE254MVPS90-A	Compatible	PHILIPS	HCN-2S54-90C-WL	Compatible
GE	GE254MVPS-D	Not Compatible	PHILIPS	ICN-2S54	Compatible
GE	GE254PS347/480-F	Compatible	PHILIPS	ICN-2S54-90C	Compatible
GE	GE254PS347-F	Compatible	PHILIPS	ICN-2S54-90C-N	Compatible
GE	GE454MVPS90-E-S	Compatible	PHILIPS	ICN-2S54-90C-T	Compatible
GE	GE454MVPS90-F	Compatible	PHILIPS	ICN-2S54-N	Compatible
GE	GE454MVPS90-G	Compatible	PHILIPS	ICN-2S54-T	Compatible
GE	GE454PS347/480-E	Compatible	PHILIPS	ICN-4S54-90C-2LS-G	Not Compatible
GE	GE454PS347-E	Compatible	PHILIPS	ICRP-2PSP54-90C	Compatible
Halco	EP254HO/PS/MV/MC	Compatible	PHILIPS	ICRP-4PSP54-90C	Not Compatible
HUAFENG	ENP-T5-54-S2MC	Compatible	PHILIPS	IOP-2PSP54-SC	Compatible
KEYSTONE	KTEB-254HO-UV-PS-SL	Compatible	PHILIPS	IOP-4PSP54-2LS-G	Compatible
KEYSTONE	KTEB-454HO-UV-PS	Compatible	PHILIPS	IZT-2S54-D	Not Compatible
OSRAM	QHE 2x54HO/UNV PSN HT	Compatible	RADIONIC	E255P 277C	Compatible
OSRAM	QHE 2x54T5 HO/UNV PSN	Compatible	SUNPark	U-2/54T5HO	Compatible
OSRAM	QHE 4x54T5HO/UNV PSN HT SCL	Compatible	UNIVERSAL	B254PUNV-D	Compatible
OSRAM	QHE2x54 T5HO/347-480 PSN HT MCL	Not Compatible	UNIVERSAL	B454 PUNV-E	Compatible
OSRAM	QTP 2x54T5HO/UNV PSN	Compatible	UNIVERSAL	B454 PUNVHB-E	Compatible
OSRAM	QTP 2x54T5HO/347-480 PSN HT	Compatible			



# Table #8 –T5 LED Tube - Standard Type A

## IMPORTANT NOTICE:

This list is based on testing performed using a stable AC power supply under laboratory conditions, which may not be representative of particular end-use conditions. While each ballast model listed has undergone testing, some may have undergone revisions that may change operating parameters and impact lamp performance. Applications and conditions of use are many and varied and beyond our control, so purchasers and users should make their own determinations as to the suitability of a lamp-ballast combination for their own particular application and use. Compatibility may also extend to ballasts beyond this list, so performing an on-site test before installation is recommended. Contact a sales representative if the ballast to be used is not listed in the table. Information is subject to change without notice.

Manufacturer	Model Information	2ft Compatible	1.75ft Compatible	1ft Compatible
BALLSTAR	B22PU95S05D	Compatible	Compatible	Compatible
GE	GE 21T5-120-RES	Compatible	Compatible	Compatible
GE	GE 28T5-120-RES	Compatible	Compatible	Compatible
GE	GE228MVPS-MC	Compatible	Compatible	Compatible
GE	GE228MVPS-MC-H	Compatible	Compatible	Compatible
GE	GE228MVPS-N-S35	Compatible	Compatible	Compatible
GE	GE28T5/2-120-RES	Compatible	Compatible	Compatible
HEPGROLP	SD214-35UNI	Compatible	Compatible	Compatible
HUAFENG	ENP-T5-28-S2SC	Compatible	Compatible	Compatible
KEYSTONE	KTEB-228-1-TP-PH/A	Compatible	Not Compatible	Not Compatible
KEYSTONE	KTEB-228-1-TP-PH-SL/B	Not Compatible	Not Compatible	Not Compatible
LUTRON	EHDT514MU110	Compatible	Compatible	Compatible
LUTRON	EHDT514MU210	Compatible	Compatible	Compatible
OSRAM	OHES 2X28T5/UNVPS90-SC	Not Compatible	Not Compatible	Not Compatible
OSRAM	QHE 2x28T5/UNV PSN	Compatible	Not Compatible	Not Compatible
OSRAM	QTP 1x28T5/UNV PSN	Compatible	Not Compatible	Not Compatible
OSRAM /SYLVANIA	QTP 2x28T5/UNV PSN	Compatible	Not Compatible	Not Compatible
PHILIPS	ICN-2S28-N	Compatible	Compatible	Compatible
PHILIPS	ICN-2S28-T	Compatible	Compatible	Compatible
PHILIPS	IOP-2S28-95-SC	Compatible	Compatible	Compatible
PHILIPS	IOP-2S28-95-SC-SD	Compatible	Compatible	Compatible
PHILIPS	IZT-2S28-D	Compatible	Compatible	Compatible
ROBERTSON	PSA228T5MV	Compatible	Compatible	Compatible
ROBERTSON	RSZ128T5120 WTB	Compatible	Compatible	Compatible
UNIVERSAL	B228PUNV-C	Compatible	Compatible	Compatible
UNIVERSAL	B228PUNV-N	Compatible	Compatible	Compatible

 Compatible  
 Not Compatible  
 Not Tested

# Table #9 –T5 LED Tube - Standard Type A

## IMPORTANT NOTICE:

This list is based on testing performed using a stable AC power supply under laboratory conditions, which may not be representative of particular end-use conditions. While each ballast model listed has undergone testing, some may have undergone revisions that may change operating parameters and impact lamp performance. Applications and conditions of use are many and varied and beyond our control, so purchasers and users should make their own determinations as to the suitability of a lamp-ballast combination for their own particular application and use. Compatibility may also extend to ballasts beyond this list, so performing an on-site test before installation is recommended. Contact a sales representative if the ballast to be used is not listed in the table. Information is subject to change without notice.

Manufacturer	Model Information	Compatible?
DUROPOWER	DXE224HO51	Compatible
DUROPOWER	DXE424HO51	Compatible
FULHAM	Racehorse RHA-UNV-224-LT5	Not Compatible
FULHAM	WH3-120-L	Compatible
FULHAM	WH5-120-L	Not Compatible
GE	GE224MVPS-N	Compatible
HEP	SI 218-40 UNI	Compatible
HUAFENG	ENP-T5-39-S2SC	Compatible
LUTRON	H3DT524CU210	Compatible
LUTRON	H3DT539CU210	Compatible
OSRAM	QHE 2x39-24 T5HO/UNV PSN	Compatible
OSRAM	QHE 2X39-24T5HO/UNV PSN NL	Compatible
PHILIPS	ICN-2S24-N	Compatible
PHILIPS	ICN-2S24-T	Not Compatible
PHILIPS	ICN-2S39-T	Not Compatible
UNIVERSAL	B224PUNV-C	Compatible
UNIVERSAL	B239PUNV-D	Compatible

	Compatible
	Not Compatible
	Not Tested

# Table #10 –T5 LED Tube - Standard Type A

## IMPORTANT NOTICE:

This list is based on testing performed using a stable AC power supply under laboratory conditions, which may not be representative of particular end-use conditions. While each ballast model listed has undergone testing, some may have undergone revisions that may change operating parameters and impact lamp performance. Applications and conditions of use are many and varied and beyond our control, so purchasers and users should make their own determinations as to the suitability of a lamp-ballast combination for their own particular application and use. Compatibility may also extend to ballasts beyond this list, so performing an on-site test before installation is recommended. Contact a sales representative if the ballast to be used is not listed in the table. Information is subject to change without notice.

Manufacturer	Model Information	Input Voltage	2ft Compatible	1.75ft Compatible	1ft Compatible
GE	GE228MVPS-MC	120-277V/60HZ	Compatible	Compatible	Compatible
GE	GE228MVPS-MC-H	120-277V/60HZ	Compatible	Compatible	Compatible
GE	GE28T5/2-120-RES	120V/60HZ	Compatible	Compatible	Compatible
GE	GE 28T5-120-RES	120V/60HZ	Compatible	Compatible	Compatible
GE	GE228MVPS-N-S35	120-277V/60HZ	Compatible	Compatible	Compatible
PHILIPS	ICN-2S28-T	120-277V/60HZ	Compatible	Compatible	Compatible
PHILIPS	ICN-2S28-N	120-277V/60HZ	Not Compatible	Not Compatible	Compatible
PHILIPS	ICN-2S28-D	120-277V/60HZ	Not Compatible	Not Compatible	Not Compatible
OSRAM	QTP 1x28T5/UNV PSN	120-277V/60HZ	Compatible	Compatible	Not Compatible
OSRAM /SYLVANIA	QTP 2x28T5/UNV PSN	120-277V/60HZ	Compatible	Compatible	Compatible
OSRAM	QHES 2x28T5/UNVPS90-SC	120-277V/60HZ	Not Compatible	Compatible	Not Tested
ROBERTSON	PSA228T5MV	120-277V/60HZ	Not Compatible	Not Compatible	Not Compatible
Universal	B228PUNV-N	120-277V/60HZ	Compatible	Compatible	Compatible
HUAFENG	ENP-T5-28-S2SC	120-277V/60HZ	Not Compatible	Not Compatible	Not Compatible
KEYSTONE	KTEB-228-1-TP-PH-SL/B	120V/60HZ	Compatible	Compatible	Not Compatible
GE	GE 21T5-120-RES	120V/60HZ	Compatible	Compatible	Compatible
LUTRON	EHDT514MU110	120-277V/60HZ	Compatible	Compatible	Not Tested

 Compatible  
 Not Compatible  
 Not Tested