



LED Tube Ballast Compatibility



Last Updated 7 March 2025

Will My Ballast Work with LED Tubes?

Yes

Electronic Instant Start

Electronic Programmed Start

Magnetic Ballasts

No

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)

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)

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)

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 2)

Lamp Description	Package Description	GE Lighting Product Code	Table #
LED15ET8/G/4/840	LED15ET8/G/4/840PK8	13104	1
LED13ET8/U6/840	LED13ET8/U6/CDN	34041	4
LED15ET8/G/4/835	LED15ET8/G/4/835-V6P	35896	1
LED15ET8/G/4/830	LED15ET8/G/4/830-V6P	37867	1
LED15ET8/G/4/840	LED15ET8/G/4/840-V6P	37878	1
LED13ET8/U6/840	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
LED8ET8/G/2/840	LED8ET8/G2/8406CDN	93118457	3
LED15ET8/G/4/865	LED15ET8G4865/CDN10	93118460	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
LED15ET8/G/4/840	LED15ET8G840/4/20PKL	93129294	1
LED15ET8/G/4/865	LED15ET8G865/4/20PKL	93129295	1
LED11ET8G-18-3CC	LED11ET8G-18-3CC-CDN	93129700	1
LED9ET8G-2-3CC	LED9ET8G-2-3CC-CDN	93129702	1

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

Lamp Description	Package Description	GE Lighting Product Code	Table #
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
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
LED35ET8G-8-840	LED35ET8G-8-840-2P	93132077	4
LED10ET8G-18-840	LED10ET8G-18-840-LT	93132040	4

What table for compatibility should I look under?

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
LEDAB15T8G4840	LEDAB15T8G4840-CDN10	93129707	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
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
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
LED10UT8G-3-3CC4	LED10UT8G-3-3CC4-1P	93132043	6
LED5UT8G-15-840	LED5UT8G-15-840-1P	93132042	6
LED13UT8G-2-3CC3	LED13UT8G-2-3CC3-LT	93132080	6
LED6UT8G-15-3CC3	LED6UT8G-15-3CC3-1P	93132290	6
LED9UT8G-18-3CC3	LED9UT8G-18-3CC3-1P	93132291	6

What table for compatibility should I look under?

T5 LED Tube - Standard Type A

Lamp Description	Package Description	GE Lighting Product Code	Table #
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
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
LED17ET5G-3-3CC4	LED17ET5G-3-3CC4-LTP	93132069	8

What table for compatibility should I look under?

T12 LED Tube - Standard Type A

Lamp Description	Package Description	GE Lighting Product Code	Table #
LED30EMT12G-8-840	LED30EMT12G-8-840-2P	93132046	11
LED58EMT12GHO-8-840	LED58EMT12GHO-8-840-2P	93132041	11
LED19ET12G-6-3CC3	LED19ET12G-6-3CC3-2P	93132065	11
LED28EMT12G-4-835	LED28EMT12G-4-835-10P	93132073	11
LED28EMT12G-4-835	LED28EMT12G-4-835-2P	93132045	11
LED28EMT12G-4-840	LED28EMT12G-4-840-10P	93132074	11
LED28EMT12G-4-840	LED28EMT12G-4-840-2P	93132071	11
LED28EMT12G-4-840	LED28EMT12G-4-840-30P	93132076	11
LED28EMT12G-4-865	LED28EMT12G-4-865-10P	93132075	11
LED28EMT12G-4-865	LED28EMT12G-4-865-2P	93132072	11

T9 Circline LED Tube - Standard Type A

Lamp Description	Package Description	GE Lighting Product Code	Table #
LED24EMT9P-C12-3CC3	LED24EMT9P-C12-3CC3-LTP	93132068	12
LED14EMT9P-C8-3CC3	LED14EMT9P-C8-3CC3-LTP	93132067	12

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	E232120MRSPL	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:

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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	QTP 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:

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	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	Not 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	Not 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 4

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	8ft ET8	4ft ET8	3ft ET8	2ft ET8	1.5ft ET8
GE	GE132MAX-L/ULTRA	1	L	Instant	UNV					
GE	GE132MAXP-L/ULTRA	1	L	Instant	UNV					
GE	GE132-MVPS-L	1	L	Program	UNV					
GE	GE132MV-N	1	N	Instant	UNV					
GE	GE132MAX-G-N	1	N	Instant	UNV					
GE	GE132MAXP-N/ULTRA	1	N	Instant	UNV					
GE	GE132MV-PS-N	1	N	Program	UNV					
GE	GE132MVPS-N-S30	1	N	Program	UNV					
GE	GE132MVPS-N-V03	1	N	Program	UNV					
GE	GE132-N-347	1	N	Instant	347					
GE	GE132MAXP-H/ULTRA	1	H	Program	UNV					
GE	GE132MV-PV-N	1	N	Instant	UNV					
GE	GE132-MVPS-H	1	H	Instant	UNV					
KEYSTONE	CAT NO KTEB-132-1-TP-FC /AES	1	H	Program	120					
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-TC	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					
GE	GE-232-MVPS-XL	2	XL	Program	UNV					
GE	GE232MAX-G-L	2	L	Instant	UNV					
GE	GE232MAXP-L/ULTRA	2	L	Instant	UNV					
GE	GE232-MVPS-L	2	L	Program	UNV					
GE	GE232MVPS-L-S30	2	L	Program	UNV					
GE	GE232MAXP347-L	2	L	Instant	347					
GE	GE232PS-347-L	2	L	Program	347					

Manufacturer	Model Information	#of Tubes	Ballast Factor	Start Type	Volts	8ft ET8	4ft ET8	3ft ET8	2ft ET8	1.5ft ET8
GE	GE232-120-RES	2	N	Instant	120					
GE	GE232MAX-G-N	2	N	Instant	UNV					
GE	GE232MAXP347-N	2	N	Instant	347					
GE	GE232MAXP-N/ULTRA	2	N	Instant	UNV					
GE	GE232MAX-N/AMP	2	N	Instant	UNV					
GE	GE232MV-N	2	N	Instant	UNV					
GE	GE232-120RES-DIY	2	N	Instant	UNV					
GE	GE232-MV-PS-N	2	N	Program	UNV					
GE	GE232MVPS-N-S30	2	N	Program	UNV					
GE	GE232MVPS-N-V03	2	N	Program	UNV					
GE	GE232PS347-N	2	N	Program	347					
GE	GE232-N-347	2	N	Instant	347					
GE	GE232MAX-G-N-347	2	N	Instant	347					
GE	GE232MAXP-N+	2	N+	Instant	UNV					
GE	GE232MAX-G-H	2	H	Instant	UNV					
GE	GE232MAXP90-S60	2	H	Instant	UNV					
GE	GE232MAXP-H/ULTRA	2	H	Instant	UNV					
GE	GE232MV/H	2	H	Instant	UNV					
GE	GE232MV-PS-H	2	H	Program	UNV					
GE	GE232MVPSH-V03	2	H	Program	UNV					
GE	GE232PS347-H	2	H	Program	UNV					
GE	GE232MAX-G-N-DIYB	2	N	Instant	UNV					
GE	GE232MAX-L/ULTRA	2	L	Instant	UNV					
GE	GE232MAX-N/ULTRA	2	N	Instant	UNV					
GE	GE232MAX-N+	2	N+	Instant	UNV					
GE	GE259MAXP-N/ULTRA	2	N	Instant	UNV					
GE	GE259MAXG-N-DIYL	2	N	Instant	UNV					
GE	GE259MAX-G-N-DIYB	2	N	Instant	UNV					
KEYSTONE	KTEB-259-UV-IS-N	2	N	Instant	UNV					
Howard	EP2/59IS/MV/MC/HE	2	H	Instant	UNV					



Compatible



Not Compatible



Use with caution-high/low watts



N/A or NOT tested

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

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	8ft ET8	4ft ET8	3ft ET8	2ft ET8	1.5ft ET8
GreenHill	GH2P59ISUNV	2	N	Instant	UNV					
ESPEN	VE259MVHIP	2	N	Instant	UNV					
Standard	E296T8IS347/N	2	N	Instant	347					
ACT	ACT2P59ISUNV	2	N	Instant	UNV					
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 2x32/347 LP	2	L	Instant	347					
Osram Sylvania	QT 2x32T8/347 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					

Manufacturer	Model Information	#of Tubes	Ballast Factor	Start Type	Volts	8ft ET8	4ft ET8	3ft ET8	2ft ET8	1.5ft ET8
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	B232PUVNHE-B	2	N	Instant	UNV					
Universal	B232I277RH-A	2	N	Instant	277					
Universal	B232IUNVHEH-A	2	H	Instant	UNV					
GE	GE-332-MVPS-XL	3	XL	Program	UNV					
GE	GE332MAX-G-L	3	L	Instant	UNV					
GE	GE332MAXP-L/ULTRA	3	L	Instant	UNV					
GE	GE332-MVPS-L	3	L	Program	UNV					
GE	GE332MAX-G-N	3	N	Instant	UNV					
GE	GE332MV-N	3	N	Instant	UNV					
GE	GE332MAXP-N/ULTRA	3	N	Instant	UNV					
GE	GE332MAX-N-GEN1	3	N	Instant	UNV					
GE	GE332MAXP-N-GEN1	3	N	Instant	UNV					
GE	GE332MAX-N/AMP	3	N	Instant	UNV					
GE	GE332MVPS-N	3	N	Program	UNV					
GE	GE332MVPS-N-V03	3	N	Program	UNV					
GE	GE332PS347-N	3	N	Program	347					
GE	GE332MAX-G-347	3	N	Instant	347					
GE	GE332MAX-G-H	3	H	Instant	UNV					
GE	GE332MAXP-H/ULTAR	3	H	Instant	UNV					
GE	GE332MAXPH-42T	3	H	Instant	UNV					
GE	GE332MVPS-H-V03	3	H	Program	UNV					
GE	GE332MAXP90-V60	3	H	Instant	UNV					
GE	GE332MAXP90-S60	3	H	Instant	UNV					
GE	GE332MAX347-H	3	H	Instant	347					

Compatible

Not Compatible

Use with caution-high/low watts

N/A or NOT tested

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

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	8ft ET8	4ft ET8	3ft ET8	2ft ET8	1.5ft ET8
GE	GE332MAX-N/ULTRA	3	N	Instant	UNV					
GE	GE332MAXP-N+	3	N+	Instant	UNV					
GE	GE332MV-H	3	N	Instant	UNV					
GE	GE332MAX-L/ULTRA	3	L	Instant	UNV					
Fusion	FB332MVE	3	N	Instant	UNV					
Hatch	HL332AIS/UV/HE/W	3	L	Instant	UNV					
Hatch	HL332/APS/UV/HE/W	3	L	Program	UNV					
Hatch	HL332/BPS/UV/HE/W	3	N	Program	UNV					
Hatch	HL332/CPS/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					
Universal	B332IUNVHE-A	3	N	Instant	UNV					
Universal	B332IUNVHP-A	3	N	Instant	UNV					
Universal	B332IHRVHB-E	3	H	Instant	480					
GE	GE432MAX-G-L	4	L	Instant	UNV					
GE	GE432MAXP-L/ULTRA	4	L	Instant	UNV					
GE	GE432MAXP347-L	4	L	Instant	347					
GE	GE432-MVPS-L	4	L	Program	UNV					
GE	GE432-120-RES	4	N	Instant	120					
GE	GE432MAX347-N	4	N	Instant	347					
GE	GE432MAX-G-N	4	N	Instant	UNV					

Manufacturer	Model Information	#of Tubes	Ballast Factor	Start Type	Volts	8ft ET8	4ft ET8	3ft ET8	2ft ET8	1.5ft ET8
GE	GE432MAXP-N/ULTRA	4	N	Instant	UNV					
GE	GE432MV-N	4	N	Instant	UNV					
GE	GE432MVPS-N	4	N	Program	UNV					
GE	GE432MVPS-N-V03W	4	N	Program	UNV					
GE	GE432MAXP-N+	4	N+	Instant	UNV					
GE	GE432MAX-G-H	4	H	Instant	UNV					
GE	GE432MAXP347-H	4	H	Instant	347					
GE	GE432MAXP-H/ULTRA	4	H	Instant	UNV					
GE	GE432MVPS-H	4	H	Instant	UNV					
GE	GE432MVPS-H-V03	4	H	Program	UNV					
GE	GE432MAXP90-V60	4	H	Instant	UNV					
GE	GE432MAX-L/ULTRA	4	L	Instant	UNV					
GE	GE432MAX-G-N-DIYB	4	N	Instant	UNV					
GE	GE432MAX-G-N-DIYL	4	N	Instant	UNV					
GE	GE432MV-H	4	H	Instant	UNV					
GE	GE432MAX-N/ULTRA	4	N	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					
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					



Compatible



Not Compatible



Use with caution-high/low watts



N/A or NOT tested

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

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	8ft ET8	4ft ET8	3ft ET8	2ft ET8	1.5ft ET8
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



N/A or NOT tested

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	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	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 3X32T8/UNV ISN-SC	120-277V	Compatible	PHILIPS	REB-4P32-SC	120V	Compatible	Universal	B232PUNVHE-B	120-277V	Compatible
OSRAM	QTP 3X32T8/UNVISN-SC	120-277V	Compatible	PHILIPS	REZ-2S32-SC	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

 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?
ACCUPRO	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®QT3X32T8/277ISN-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
KEYSTONE	T8/T12	KTEB-120-1-TP-EMI /A	Electronic	120V / 60Hz	1	Compatible
KEYSTONE	T8	KTEB-232RIS-1-TP-SL/H	Electronic	120V / 60Hz	1/2	Compatible
KEYSTONE	T8	KTEB-232RIS-1-TP-SL/J	Electronic	120V / 60Hz	1/2	Compatible
KEYSTONE	T8	KTEB-132-1-TP-FC/AES	Electronic	120V / 60Hz	1	Compatible

- Compatible
- Not Compatible
- Not Tested

Manufacturer	Ballast Type	Model Information	Type	Input Voltage	#Lamps	Compatible?
GE	T8/T12	GEM220TS120/2-DIY	Magnetic	120V / 60Hz	1/2	Compatible
GE	T8	GE232MVPS-N-S30	Electronic	120-277V / 60Hz	1/2	Compatible
GE	T8	GE432MVPS-H	Electronic	120-277V / 60Hz	1/2/3/4	Compatible
GE	T8	GE132MVPS-N-S30	Electronic	120-277V / 60Hz	1	Compatible
GE	T8	GE-332-MVPS-XL	Electronic	120-277V / 60Hz	1/2/3	Compatible
GE	T8	GE232MVPS-L-S30	Electronic	120-277V / 60Hz	1/2	Compatible
GE	T8/T12	GEM120TC120/2-DIY	Magnetic	120V / 60Hz	1	Compatible
ADVANCE	T8/T12	LC-14-20-C	Magnetic	120V / 60Hz	1	Compatible
InterGlobal	T8/T12	IG13-20EL	Electronic	120V / 60Hz	1	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 2X40T12/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-234IC	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
ARCATA	T12	ACT2S40RSUNV	Electronic	120-277V / 60Hz	1/2	Compatible

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	3ft Compatible	2ft Compatible	1.75ft Compatible	1ft Compatible
BALLSTAR	B22PU95S05D	Not Tested	Compatible	Compatible	Compatible
GE	GE 21T5-120-RES	Compatible	Compatible	Compatible	Compatible
GE	GE 28T5-120-RES	Not Tested	Compatible	Compatible	Compatible
GE	GE 228MVPS-MC	Compatible	Compatible	Compatible	Compatible
GE	GE 228MVPS-MC-H	Not Tested	Compatible	Compatible	Compatible
GE	GE 228MVPS-N-S35	Compatible	Compatible	Compatible	Compatible
GE	GE 28T5/2-120-RES	Not Tested	Compatible	Compatible	Compatible
HEPGROLP	SD214-35UNI	Compatible	Compatible	Compatible	Compatible
HUAFENG	ENP-T5-28-S25C	Not Tested	Compatible	Compatible	Compatible
KEYSTONE	KTEB-228-1-TP-PH/A	Not Tested	Compatible	Not Compatible	Not Compatible
KEYSTONE	KTEB-228-1-TP-PH-SL/B	Not Tested	Not Compatible	Not Compatible	Not Compatible
LUTRON	EHDT514MU110	Not Tested	Compatible	Compatible	Compatible
LUTRON	EHDT514MU210	Not Tested	Compatible	Compatible	Compatible
OSRAM	QHES 2X28T5/UNVPS90-SC	Compatible	Not Compatible	Not Compatible	Not Compatible
OSRAM	QHE 2X28T5/UNVPSN	Compatible	Compatible	Not Compatible	Not Compatible
OSRAM	QTP 1X28T5/UNV PSN	Not Tested	Compatible	Not Compatible	Not Compatible
OSRAM/SYLVANIA	QTP 2X28T5/UNV PSN	Not Tested	Compatible	Not Compatible	Not Compatible
PHILIPS	ICN-2S28-N	Compatible	Compatible	Compatible	Compatible
PHILIPS	ICN-2S28-T	Not Tested	Compatible	Compatible	Compatible
PHILIPS	IOP-2S28-95-SC	Not Tested	Compatible	Compatible	Compatible

Manufacturer	Model Information	3ft Compatible	2ft Compatible	1.75ft Compatible	1ft Compatible
PHILIPS	IOP-2S28-95-SC-SD	Not Tested	Compatible	Compatible	Compatible
PHILIPS	IZT-2S28-D	Compatible	Compatible	Compatible	Compatible
ROBERTSON	PSA228T5MV	Compatible	Compatible	Compatible	Compatible
ROBERTSON	RSZ128T5120 WTB	Not Tested	Compatible	Compatible	Compatible
UNIVERSAL	B228PUNV-C	Not Compatible	Compatible	Compatible	Compatible
UNIVERSAL	B228PUNV-N	Compatible	Compatible	Compatible	Compatible
OSRAM	QS2X28T5/UNV PS115-SC	Compatible	Not Tested	Not Tested	Not Tested
KEYSTONE	KTEB-228HE-UV-PS-SL	Compatible	Not Tested	Not Tested	Not Tested
FULHAM	RHA-UNV-228-LT5	Compatible	Not Tested	Not Tested	Not Tested
PHILIPS/ADVANCE	ICN-2S28	Compatible	Not Tested	Not Tested	Not Tested
PHILIPS/ADVANCE	GCN-2S28-L	Compatible	Not Tested	Not Tested	Not Tested
KEYSTONE	KTEB-228HE-UV-TP-PS/LS	Compatible	Not Tested	Not Tested	Not Tested
OSRAM	QS2X28T5/UNV PS95-SC	Compatible	Not Tested	Not Tested	Not Tested
OSRAM	QTP2X28T5/347 PS95-SC	Compatible	Not Tested	Not Tested	Not Tested

	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



Table #11 –T12 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	Ballast Type	# of Lamps	Ballast Factor	Start Type	Volts	4ft T12	6ft T12	8ft T12	Manufacturer	Model Information	Ballast Type	# of Lamps	Ballast Factor	Start Type	Volts	4ft T12	6ft T12	8ft T12
General Electric	GE260IS-MV-N	Electronic	2	N	Instant	UNV				MagneTek	458-L-SLH-TC-P	Magnetic	1	N	Rapid	277V 60Hz			
General Electric	GE240PSMVN-DIYB	Electronic	2	N	Programmed	UNV				OSRAM	QTP2X40T12/UNV RS SC	Electronic	2	N	Rapid	UNV			
General Electric	GE260ISMV-N-DIYB	Electronic	2	N	Instant	UNV				SYLVANIA	MB1X40/120 RS	Magnetic	1	N	Rapid	120V 60Hz			
ADVANCE	R-140-1-TP	Magnetic	1	N	Rapid	120V/60Hz				UTILITECH	YZ-240	Electronic	2	N	Rapid	120V 60Hz			
General Electric	GE240RES120-B	Electronic	2	N	Rapid	120V/60Hz				VF	8G3905W	Magnetic	2	N	Rapid	120V 60Hz			
SOLA	E420-F-234 IC	Magnetic	2	N	Rapid	120V/60Hz				General Electric	GE240RES120-4PK	Electronic	2	N	Rapid	120V 60Hz			
Universal	B260IUNVHP	Electronic	2	N	Instant	UNV				MagneTek	446-L-SLH-TC-P	Magnetic	2	N	Rapid	120V 60Hz			
ARCATA	ACT2S40RSUNV	Electronic	2	N	Rapid	UNV				Universal	540-L-TC-P	Magnetic	2	N	Rapid	220V 60Hz			
ESPEN	VE432120MIP	Electronic	4	N	Instant	120V/60Hz				Universal	B234SR120M-A	Electronic	2	N	Rapid	120V 60Hz			
General Electric	GEM240RS277	Magnetic	2	N	Rapid	277V 60Hz				Universal	B240R220-A	Electronic	2	N	Rapid	220-240V 50/60Hz			
KEYSTONE	KTEB-232RIS-1-TP-SL/H	Electronic	2	N	Instant	120V 50/60Hz				General Electric	GE240PSMVN-DIYL	Electronic	2	N	Programmed	UNV			
KEYSTONE	KTEB-232RIS-1-TP-SL/J	Electronic	2	N	Instant	120V 50/60Hz				General Electric	GE-240-RS-MV-N	Electronic	2	N	Rapid	UNV			
KEYSTONE	KTEB-232RIS-1-TP-SL	Electronic	2	N	Instant	120V 50/60Hz				General Electric	GE260ISMV-N-DIYL	Electronic	2	N	Rapid	UNV			
KEYSTONE	KTEB-240-1-TP-PIC/B	Electronic	2	N	Instant	120V 50/60Hz				Robertson	ISL296T12MV	Electronic	2	H	Instant	UNV			
SYLVANIA	QT2X32/120 IS-SC	Electronic	2	N	Instant	120V 60Hz				Advance	ICN-2P60-N	Electronic	2	H	Instant	UNV			
SYLVANIA	QT3X32T8/277 ISN-SC	Electronic	3	N	Instant	277V 60Hz				Advance	RSM-175-S-TP	Magnetic	1	N	Instant	120V 60Hz			
ADVANCE	R-2S40-1-TP	Magnetic	2	N	Rapid	120V 60Hz				KEYSTONE	KTEB-275-UV-TP-PIC-SL	Electronic	2	N	Instant	UNV			
General Electric	8G1075	Magnetic	1	N	Rapid	120V 60Hz				ESPEN	VE275MVHIP	Electronic	2	H	Instant	UNV			
Universal	458-L-SLH-TC-P	Magnetic	1	N	Rapid	277V 60Hz				HOWARD	E2/75IS-120MC	Electronic	2	N	Instant	120V 60Hz			
HOWARD	M2/40RS-120	Magnetic	2	N	Rapid	120V 60Hz				HOWARD	M1/75IS-277	Magnetic	1	H	Rapid	277V 60Hz			
MagneTek	413-C-TC-P	Magnetic	1	N	Rapid	120V 60Hz				ARCATA	ACT2P75ISUNV	Electronic	2	N	Instant	UNV			



Compatible



Not Compatible



N/A OR NOT tested

Table #12 –T9 Circline 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.

C8

Manufacturer	Model Information	Ballast Type	Voltage	1 lamp
Robertson	SSN2PWS(3P10041)	Magnetic	120V	Compatible
KEYSTONE	SS22WSTP	Magnetic	120V	Compatible
PHILIPS ADVANCE	RLQS-122-TP-W	Magnetic	120V	Compatible
GE	GEM1FC8T9RS120/2-DIY	Magnetic	120V	Not Compatible
GE	GEM1FC16T9RS120/2	Magnetic	120V	Compatible
GE	GE240RES120-B	Electronic	120V	Compatible
KEYSTONE	KTEB-2C72-1-TP-WS	Electronic	120V	Not Compatible
ESPEN	VEC54120MR-1	Electronic	120V	Not Compatible
ProLume	E2CR72RS/120/PT	Electronic	120V	Compatible
RADIANT	RCB 54	Electronic	120V	Compatible
GE	GE240RES120-4PK	Electronic	120V	Compatible
KEYSTONE	KTEB-1C22-1-TP-WS	Electronic	120V	Compatible
Sunlite	SU.SB1/22C/120	Electronic	120V	Compatible
sunlite	SU.SB1/2232C/120	Electronic	120V	Not Compatible

C12

Manufacturer	Model Information	Ballast Type	Voltage	1 lamp
ADVANCE	RLCS-140-TP-W	Magnetic	120V	Compatible
SOLA	ERSFC-132-TPK	Magnetic	120V	Compatible
GE	GEM1FC16T9RS120/2	Magnetic	120V	Compatible
GE	GE240RES120-B	Electronic	120V	Compatible
KEYSTONE	KTEB-2C72-1-TP-WS	Electronic	120V	Not Compatible
ESPEN	VEC54120MR-1	Electronic	120V	Not Compatible
ProLume	E2CR72RS/120/PT	Electronic	120V	Compatible
RADIANT	RCB 54	Electronic	120V	Compatible
GE	GE240RES120-4PK	Electronic	120V	Compatible
SUNPARK	LC 12014	Electronic	120V	Compatible
TCP	EC2T-30 LPF	Electronic	120V	Compatible
GE	GE240PSMVN-DIYB	Electronic	120-277V	Compatible
KEYSTONE	KTEB-1C3032-1-TP-WS	Electronic	120V	Compatible
Robertson	RSO140C120WS(3P20129)	Electronic	120V	Compatible
Sunlite	SU.SB1/32C/120	Electronic	120V	Compatible
sunlite	SU.SB1/2232C/120	Electronic	120V	Not Compatible

C8+C12

Manufacturer	Model Information	Ballast Type	Voltage	Full Load	N-1 Load
GE	GEM1FC16T9RS120	Magnetic	120V	Compatible	Not Compatible
GE	GEM1FC16T9RS120/2	Magnetic	120V	Compatible	Compatible
GE	GE240PSMVN-DIYB	Electronic	120-277V	Compatible	Compatible
KEYSTONE	KTEB-2C72-1-TP-WS	Electronic	120V	Compatible	Not Compatible
ESPEN	VEC54120MR-1	Electronic	120V	Compatible	Not Compatible
ProLume	E2CR72RS/120/PT	Electronic	120V	Compatible	Compatible
RADIANT	RCB 54	Electronic	120V	Compatible	Compatible
Sunlite	SU.SB1/2232C/120	Electronic	120V	Compatible	Not Compatible
GE	GE240RES120-4PK	Electronic	120V	Compatible	Compatible
KEYSTONE	KTEB-108-1-TP-FC/L	Electronic	120V	Not Compatible	Compatible
GE	GE240RES120-B	Electronic	120V	Compatible	Compatible

Note:

Full load: 1pc C8 + 1pc C12 LED lamp

N-1 load: Either C8 or C12 failure or moved



Compatible



Not Compatible