

ENSURE POWER SUPPLY IS OFF WHEN HANDLING ANY ELECTRICAL EQUIPMENT.



Ballast Compatibility List must be checked prior to installation.

Note: This product complies with Part 18 of the FCC rules but may cause interference to radios, televisions, wireless telephones and remote controls. If interference occurs, move the product away from these devices or plug it into a different outlet. Do not install this product near maritime safety communications equipment or other critical navigation or communication equipment operating between 0.45-30MHz

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This Class B digital apparatus complies with Canadian ICES-005.

PARTS/COMPONENTS INCLUDED IN KIT

- Installation Instructions
- LED Tube Lamp
- Luminaire Marking Labels. Only for Type B installation please apply the following lamp replacement label on the retrofit luminaire after the retrofit kit has been installed, where readily visible by the user during retrofit, and after installation.



WARNINGS

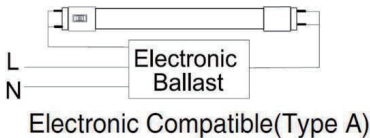
TYPE A Application (PLUG & PLAY, Ballast compatible)

To avoid personal injury and/or possible product damage, the following cautions must be followed:

- Read all safety information and instructions before installation.
- RISK OF ELECTRIC SHOCK. Disconnect power at fuse or circuit breaker before installing or servicing
- Suitable for damp locations - Not for use where directly exposed to water.
- Caution: Only use the control provided with or specified by these instructions to control this lamp
This lamp will not operate properly when connected to a standard (incandescent) dimmer or dimming control
- This device is not intended for use with emergency exits.
- CAUTION - RISK OF FIRE. USE ONLY IN PLACE OF FLUORESCENT LAMPS SPECIFIED ON PRODUCT LABEL.
- CAUTION RISK OF FIRE - IF THE LAMP OR LUMINAIRE EXHIBITS UNDESIRABLE OPERATION (BUZZING,

- For a linear tubular LED lamp conversion, there shall be text or a diagram showing how the supply connections were made to the lamp holders so the correct connections will be made to the lamp when the lamp is installed or replaced.

TYPE A - Wiring diagram:

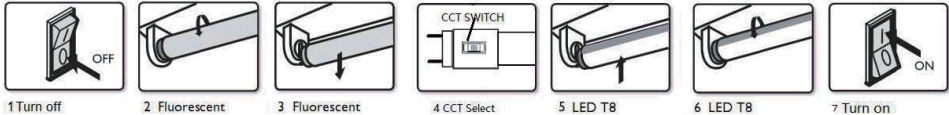


Note:

The wiring diagram should be the same with the ballast wiring diagram.

When work with ballast, please check the compatible list first! If you do not find your ballast on the list then please bypass the fixture, or please contact us! Do not install the LED tube with the ballast which not on the ballast compatible list.

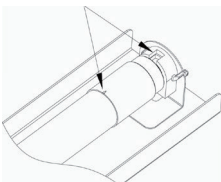
Type A-Installation Guide:



Instructions

- Switch-off power to the luminaire.
- Remove diffuser (if provided).
- Remove the existing fluorescent lamps from the luminaire.
- Select the color temperature through the CCT switch on the LED lamp base
 - Using the color (CCT) selector switch on the base, select the desired color temperature
 - To prevent damage to lamp, lamp must not be energized when color (CCT) selector switch is changed.
- Install the LED tube lamp.

Risk of fire, please notice that tube must be well installed. Mark on end caps showing proper alignment with sockets. please make sure mark is matched with socket as below:



- Install diffuser (if removed in step 2)
- Switch on power to the luminaire.
- Before installation, please check specifications for the most current ballast compatible list, if no match, please insert led tubes according to below type B installation instructions

TYPE B - Wiring diagram:

Connect two wires to branch circuit Land N according to the below figure.

FLICKERING, ETC), IMMEDIATELY TURN OFF POWER, REMOVE LAMP FROM LUMINAIRE AND CONTACT MANUFACTURER.

- CAUTION - RISK OF FIRE. IF LAMP DOES NOT LIGHT WHEN THE LUMINIARE IS ENERGIZED, REMOVE LAMP FROM LUMINAIRE AND CONTACT LAMP MANUFACTURER OR QUALIFIED ELECTRICIAN.
- CAUTION - RISK OF FIRE OR ELECTRIC SHOCK. When working with electronics ballast, please check the compatible list first. If you do not find your ballast on the list, then please bypass the fixture as a Type B installation or contact us for support. Do not install the LED tube with the ballast which not on the ballast compatible list.
- To prevent damage to lamp, lamp must not be energized when color (CCT) selector switch is changed.



WARNINGS

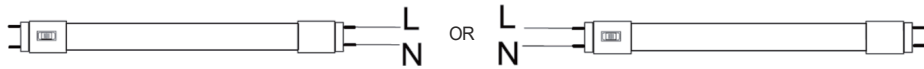
TYPE B Application (DIRECT WIRE, Ballast-Free)

To avoid personal injury and/or possible product damage, the following cautions must be followed

- Read all safety information and instructions before installation.
- RISK OF ELECTRIC SHOCK. Disconnect power at fuse or circuit breaker before installing or servicing.
- To prevent damage to lamp, lamp must not be energized when color (CCT) selector switch is changed
- Suitable for damp locations - Not for use where directly exposed to water.
- Caution: Only use the control provided with or specified by these instructions to control this lamp
This lamp will not operate properly when connected to a standard (incandescent) dimmer or dimming control.
- This device is not intended for use with emergency exits.
- To prevent early lamp failure, lamp should only be installed in operating environments ranging between: -20°C and +45°C (-4°F and +113°F).
- WARNING - RISK OF FIRE OR ELECTRIC SHOCK. LED Retrofit Kit installation requires knowledge of luminaires electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician.
- WARNING - RISK OF FIRE OR ELECTRIC SHOCK. Install this kit only in the luminaires that have the construction features and dimensions shown in the photographs and/or drawings and where the input rating of the retrofit kit does not exceed the input rating of the luminaire
- Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation
- WARNING - To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.
- Installers should not disconnect existing wires from lamp socket terminals to make new connections at lamp socket terminals. Instead, installer should cut existing lamp socket leads away from the lamp socket and make new electrical connections to lamp socket lead wires by employing connectors suitable for the application.
- THIS RETROFIT KIT IS ACCEPTED AS A COMPONENT OF A LUMINAIRE WHERE THE SUITABILITY OF THE COMBINATION SHALL BE DETERMINED BY AUTHORITIES HAVING JURISDICTION. PRODUCT MUST BE INSTALLED BY A QUALIFIED ELECTRICIAN IN ACCORDANCE WITH THE APPLICABLE AND APPROPRIATE ELECTRICAL CODES. THE INSTALLATION GUIDE DOES NOT SUPERSEDE LOCAL OR NATIONAL REGULATIONS FOR ELECTRICAL INSTALLATIONS.
- Examine all parts that are not intended to be replaced by the retrofit kit for damage and replace any damaged parts prior to installation of the retrofit kit.
- The tube is installed as Type B, the luminaire, once modified as retrofit fixture, will no longer operate fluorescent lamps.

Case 1: Direct AC wiring diagram without dimming

1. Single-ended power input



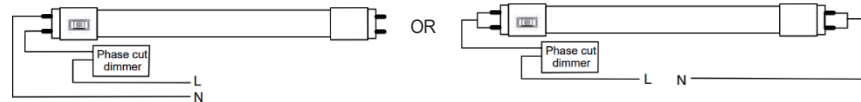
Input Voltage:120-277V 50/60Hz

2. Double-ended power input



Input Voltage:120-277V 50/60Hz

Case 2: Direct AC wiring diagram with reverse phase dimming — Refer to dimmer compatibility list



Single-ended power input

Double-ended power input

Input Voltage: AC120V 60Hz

Input Voltage: AC120-277V 50/60Hz

Important Notes:

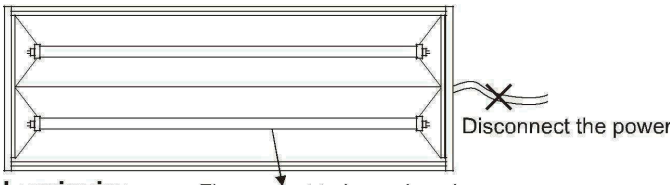
- For single-ended wiring installation of tubes, un-shunted lamp holders must be used
- For double-ended wiring installation, it is not needed to change the sockets/lamp holders (if they are in good condition) regardless of the type of sockets.

Type B-Installation Guide:

Please completely comply with these instructions and notes to ensure that the product is operated in a safe condition. Important safety information - read all instructions before installation.

Instructions

1. DISCONNECT POWER OF LUMINAIRE

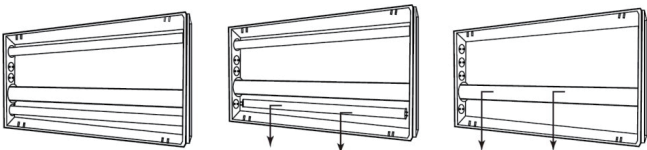


Luminaire **Fluorescent to be replaced**

Disconnect power to luminaire or circuit (if possible). Ensure all power is off by using a voltmeter or other method to confirm

2. REMOVE EXISTING TUBE LAMP(S)

- a. Remove troffer lens, if present
- b. Remove existing fluorescent by rotating one quarter turn and sliding lamp(s)
- c. Remove ballast cover. (Cover may be secured with screws or tabs)



a) Troffer and lamps b) Remove tube lamps c) Remove ballast cover (lens removed)

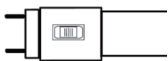
3. RETROFIT LUMINAIRE

Modify the circuit according to the TYPE B wiring diagram

4. SELECT THE CCT

Select the color temperature through the CCT switch on the LED lamp's base

- Using the color (CCT) selector switch on the base, select the desired color temperature
- To prevent damage to lamp, lamp must not be energized when color (CCT) selector switch is changed



5. INSERT LED TUBES

a. Read label on the LED tube to ensure the power end of LED is aligned with powered tube socket, then insert LED lamp in the normal way by sliding pins into sockets and rotating a quarter turn until LED tube locks in place.

b. LED lamps are now fully installed.

c. Replace troffer lens, if present

d. After modification completed. Attach the Replacement Marking and cautionary Label to a visible place on the luminaire and keep it visible after installation. Be sure to mark the type of wiring on the luminaire label (single or double-ended).

6. RESTORE THE POWER OF LUMINAIRE

Restore power to circuit/luminaire and test light. If necessary, adjust position of LED tube, and enjoy your new LED tube light!

Reverse Phase Dimmer Compatibility List

BRAND	MODEL NUMBER	BRAND	MODEL NUMBER
LUTRON	DVELV-300P-BR	LUTRON	DVELV-303P-WH
LUTRON	DVELV-300P-GR	LUTRON	MAELV-600-AL
LUTRON	DVELV-300P-IV	LUTRON	MAELV-600-BL
LUTRON	DVELV-300P-LA	LUTRON	MAELV-600-BR
LUTRON	DVELV-300P-WH	LUTRON	MAELV-600-GR
LUTRON	DVELV-303P-BR	LUTRON	MAELV-600-IV
LUTRON	DVELV-303P-GR	LUTRON	MAELV-600-LA
LUTRON	DVELV-303P-IV	LUTRON	MAELV-600-WH
LUTRON	DVELV-303P-LA		

Compatible Ballast List
Tested On:

When working with electronic ballast please check the compatibility list first!

If you couldn't find your ballast on the list then bypass the fixture, or contact us please!

Do not install the LED tube with the ballast which is not on the ballast compatibility list, risk of firing!

N/A: Not Applicable

Y: Compatible

N: Incompatible

No.	Ballast Brand	Model No.	Start Type	Max Loading QTY	Compatible (Yor Nor Y/N/N/A)							
					1 LAMP		2 LAMPS		3 LAMPS		4 LAMPS	
					120VAC	277VAC	120VAC	277VAC	120VAC	277VAC	120VAC	277VAC
1	STANDARD	61113 - E232T8IS120/N/AS	Instant Start	2	Y	N/A	Y	N/A	N/A	N/A	N/A	N/A
2	STANDARD	61123 - E232T8IS120/L/AS	Instant Start	2	Y	N/A	Y	N/A	N/A	N/A	N/A	N/A
3	STANDARD	61124 - E232T8IS120/N/AS/BULK	Instant Start	2	Y	N/A	Y	N/A	N/A	N/A	N/A	N/A
4	STANDARD	61126 - E232T8IS120/L/AS/BULK	Instant Start	2	Y	N/A	Y	N/A	N/A	N/A	N/A	N/A
5	STANDARD	60075 - E232T8IS120/H/90C	Instant Start	2	Y	Y	Y	N/A	N/A	N/A	N/A	N/A
6	STANDARD	61131 - E232T8IS120-277/L/AS	Instant Start	2	Y	Y	Y	N/A	N/A	N/A	N/A	N/A
7	STANDARD	61128 - E232T8IS120-277/N/AS	Instant Start	2	Y	Y	Y	Y	N/A	N/A	N/A	N/A
8	STANDARD	61062 - E232T8PS120-277/L/AS/BULK	Instant Start	2	N	N	Y	Y	N/A	N/A	N/A	N/A
9	STANDARD	60080 - E332T8IS120/L/BULK	Instant Start	3	Y	N/A	Y	N/A	Y	N/A	N/A	N/A
10	STANDARD	61114 - E432T8IS120/N/AS	Instant Start	4	Y	N/A	Y	N/A	Y	N/A	Y	N/A
11	STANDARD	61122 - E332T8IS120/N/AS	Instant Start	3	Y	N/A	Y	N/A	Y	N/A	N/A	N/A
12	STANDARD	61120 - E432T8IS120/L/AS	Instant Start	4	Y	N/A	Y	N/A	Y	N/A	Y	N/A
13	STANDARD	61125 - E432T8IS120/N/AS/BULK	Instant Start	4	N	N/A	Y	N/A	Y	N/A	Y	N/A
14	STANDARD	61127 - E432T8IS120/L/AS/BULK	Instant Start	4	Y	N/A	Y	N/A	Y	N/A	Y	N/A
15	STANDARD	61134 - E432T8IS120-277/L/AS	Instant Start	4	Y	Y	Y	Y	Y	Y	Y	Y
16	STANDARD	61063 - E432T8PS120-277/N/AS/BULK	Program Start	4	Y	N	Y	Y	Y	Y	Y	Y
17	STANDARD	61065 - E432T8PS120-277/L/AS/BULK	Program Start	4	Y	N	Y	Y	Y	Y	Y	Y
18	STANDARD	61129-E432T8IS120-277/N/AS	Instant Start	4	N	N	Y	Y	Y	Y	Y	Y
19	STANDARD	62587-E432T8IS120-277/N/AS/BULK	Instant Start	4	N	N						
20	PHILIPS ADVANCE	I2T-2P32-SC	Dimmable Programmed Start	2	Y	Y	N/A	N/A	N/A	N/A	N/A	N/A
21	PHILIPS ADVANCE	IOPA-1P32-LW-N	Instant Start	1	Y	Y	N/A	N/A	N/A	N/A	N/A	N/A
22	PHILIPS ADVANCE	ICON-1P32-N	Instant Start	1	Y	Y	N/A	N/A	N/A	N/A	N/A	N/A
23	PHILIPS ADVANCE	IOP-2P32-HL-N	Instant Start	2	N	N	Y	Y	N/A	N/A	N/A	N/A
24	PHILIPS ADVANCE	I2T-2S32-SC	Dimmable Programmed Start	2	N	N	Y	Y	N/A	N/A	N/A	N/A
25	PHILIPS ADVANCE	ICON-2P32-N	Instant Start	2	N	N	Y	Y	N/A	N/A	N/A	N/A
26	PHILIPS ADVANCE	IOP-2P32-N	Instant Start	2	Y	Y	Y	Y	N/A	N/A	N/A	N/A
27	PHILIPS ADVANCE	IOP-2PSP32-LW-N	Programmed Start	2	Y	Y	Y	Y	N/A	N/A	N/A	N/A
28	PHILIPS ADVANCE	IOPA-2P32-LW-N	Instant Start	2	Y	Y	Y	Y	N/A	N/A	N/A	N/A
29	PHILIPS ADVANCE	REL-2P32-SC	Instant Start	2	Y	N/A	Y	N/A	N/A	N/A	N/A	N/A
30	PHILIPS ADVANCE	REZ-2S32-SC	Instant Start	2	N	N/A	Y	N/A	N/A	N/A	N/A	N/A
31	PHILIPS ADVANCE	I2T-2PSP32-SC	Dimmable Programmed Start	2	N	N	Y	Y	N/A	N/A	N/A	N/A
32	PHILIPS ADVANCE	IOP-2P32-LW-N	Instant Start	2	Y	Y	Y	Y	N/A	N/A	N/A	N/A
33	PHILIPS ADVANCE	IOP-2PSP32-N	Programmed Start	2	Y	Y	Y	Y	N/A	N/A	N/A	N/A
34	PHILIPS ADVANCE	IOPA-2P32-N	Instant Start	2	Y	Y	Y	Y	N/A	N/A	N/A	N/A
35	PHILIPS ADVANCE	ICON-2P32-N	Instant Start	2	Y	Y	Y	Y	N/A	N/A	N/A	N/A
36	PHILIPS ADVANCE	RCN-2S32-SC	Program Rapid	2	N	N/A	Y	N/A	N/A	N/A	N/A	N/A
37	PHILIPS ADVANCE	VEZ-2S32-SC	Dimmable Programmed Start	2	N/A	N	N/A	Y	N/A	N/A	N/A	N/A
38	PHILIPS ADVANCE	I2T-3PSP32-SC	Dimmable Programmed Start	3	Y	Y	Y	Y	Y	Y	N/A	N/A
39	PHILIPS ADVANCE	IOPA-3P32-N	Instant Start	3	Y	Y	Y	Y	Y	Y	N/A	N/A
40	PHILIPS ADVANCE	ICON-3P32-N	Instant Start	3	Y	Y	Y	Y	Y	Y	N/A	N/A
41	PHILIPS ADVANCE	IOPA-3P32-LW-SC	Instant Start	3	Y	Y	Y	Y	Y	Y	N/A	N/A
42	PHILIPS ADVANCE	REZ-3S32-SC	Dimmable Programmed Start	3	N	N/A	N	N/A	Y	N/A	N/A	N/A
43	PHILIPS ADVANCE	IOP-4P32-LW-SC	Programmed Start	4	Y	Y	Y	Y	Y	Y	Y	Y
44	PHILIPS ADVANCE	ICON-4P32-N	Instant Start	4	N	N	Y	Y	Y	Y	Y	Y
45	PHILIPS ADVANCE	IOP-4P32-LW-N	Instant Start	4	Y	Y	Y	Y	Y	Y	Y	Y
46	PHILIPS ADVANCE	I2T-4S32	Dimmable Programmed Start	4	N	N	N	N	Y	Y	Y	Y
47	PHILIPS ADVANCE	VEL-4P32-SC	Instant Start	4	N/A	Y	N/A	Y	N/A	Y	N/A	Y
48	PHILIPS ADVANCE	ICON-4P32-SC	Instant Start	4	N	N	N	N	N	N	N	Y
49	PHILIPS ADVANCE	IOPA-4P32-N	Instant Start	4	N	N	Y	Y	Y	Y	Y	Y
50	PHILIPS ADVANCE	IOP-4PSP32-SC	Programmed Start	4	Y	Y	Y	Y	Y	Y	Y	Y
51	PHILIPS ADVANCE	IOPA-4P32-LW-N	Instant Start	4	Y	Y	Y	Y	Y	Y	Y	Y
52	KEYSTONE	KTEB-232-LV-IS-N-P	Instant Start	2	Y	Y	Y	Y	N/A	N/A	N/A	N/A
53	KEYSTONE	KTEB-332-LV-IS-N-P	Instant Start	2	Y	Y	Y	Y	Y	Y	N/A	N/A
54	KEYSTONE	KTEB-432RIS-1-TP-SL	Instant Start	4	Y	N/A	Y	N/A	Y	N/A	Y	N/A
55	KEYSTONE	KTEB-432-LV-IS-N-P	Instant Start	4	Y	Y	Y	Y	Y	Y	Y	Y
56	OSRAM	QHE 2X32T8/UNV PSX-MC	Program Rapid Start	2	Y	Y	Y	Y	N/A	N/A	N/A	N/A
57	OSRAM	QHE 2X32T8/UNV ISH HT-SC	Instant Start	2	N	N	Y	Y	N/A	N/A	N/A	N/A
58	OSRAM	QHE 2X32T8/UNV ISL-SC-1	Instant Start	2	Y	Y	Y	Y	N/A	N/A	N/A	N/A
59	OSRAM	QHE 2X32T8/UNV ISL-SC	Instant Start	2	Y	Y	Y	Y	N/A	N/A	N/A	N/A
60	OSRAM	QTP 2X32T8/UNV ISN-SC	Instant Start	2	Y	Y	Y	Y	N/A	N/A	N/A	N/A
61	OSRAM	QHE 2X32T8/UNV ISN-SC	Instant Start	2	Y	Y	Y	Y	N/A	N/A	N/A	N/A
62	OSRAM	QHE 2X32T8/UNV DIM-TC	Dimming Start	2	N	N	Y	Y	N/A	N/A	N/A	N/A
63	OSRAM	QHE 2X32T8/UNV PSN-MC	Program Rapid	2	Y	Y	Y	Y	N/A	N/A	N/A	N/A
64	OSRAM	QHE 3X32T8/UNV ISL-SC	Instant Start	3	Y	Y	Y	Y	Y	Y	N/A	N/A
65	OSRAM	QHE 3X32T8/UNV ISH HT-SC	Instant Start	3	Y	Y	Y	Y	Y	Y	N/A	N/A
66	OSRAM	QTP 3X32T8/UNV ISN-SC	Instant Start	3	Y	Y	Y	Y	Y	Y	N/A	N/A
67	OSRAM	QHE3 2X32T8/UNV PSN-SC	StepN/A/Switchng Programmed Rapid Start	2	Y	Y	N	N	N/A	N/A	N/A	N/A
68	OSRAM	QHE 3X32T8/UNV PSN-SC	Programmed Rapid Start	3	Y	Y	Y	Y	Y	Y	N/A	N/A
69	OSRAM	QHE 3X32T8/UNV ISL-SC	Instant Start	3	Y	Y	Y	Y	Y	Y	N/A	N/A
70	OSRAM	QTP 4X32T8/UNV ISN-SC	Instant Start	4	Y	Y	Y	Y	Y	Y	Y	Y
71	OSRAM	QHE 4X32T8/UNV ISL-SC	Instant Start	4	Y	Y	Y	Y	Y	Y	Y	Y
72	OSRAM	QTP 4X32T8/UNV ISN-SC	Instant Start	4	Y	Y	Y	Y	Y	Y	Y	Y
73	OSRAM	QHE 2X32T8/UNV ISN-SC	Instant Start	2	Y	Y	Y	Y	N/A	N/A	N/A	N/A
74	Triad	B432UUNVHP-A	Instant Start	4	Y	Y	Y	Y	Y	Y	Y	Y
75	Triad	B332UUNVHP-A	Instant Start	2	Y	Y	Y	Y	N/A	N/A	N/A	N/A
76	Triad	B332UUNVHP-A	Instant Start	3	Y	Y	Y	Y	Y	Y	Y	Y
77	Triad	B432UUNVHE-A	Instant Start	4	Y	Y	Y	Y	Y	Y	Y	Y
78	Triad	B432PUNVHE-A	Instant Start	4	Y	Y	Y	Y	Y	Y	Y	Y
79	Triad	B332UUNVLE-A	Instant Start	3	Y	Y	Y	Y	Y	Y	N/A	N/A
80	Triad	B332UUNVLE-N	Instant Start	2	Y	Y	Y	Y	N/A	N/A	N/A	N/A
81	Triad	B232UUNVHEH-A	Instant Start	2	N	N	Y	Y	N/A	N/A	N/A	N/A
82	Triad	B332UUNVHE-A	Instant Start	3	Y	Y	Y	Y	Y	Y	N/A	N/A
83	Triad	B232PUNVHE-B	Instant Start	2	Y	Y	Y	Y	N/A	N/A	N/A	N/A

Compatible Ballast List
Tested On:

When working with electronic ballast please check the compatibility list first!

If you couldn't find your ballast on the list then bypass the fixture, or contact us please!

Do not install the LED tube with the ballast which is not on the ballast compatibility list, risk of firing!

N/A: Not Applicable

Y: Compatible

N: Incompatible

No.	Ballast Brand	Model No.	Start Type	Max Loading QTY	Compatible (Yor Nor Y/N/N/A)			
					1 LAMP 347VAC	2 LAMP 347VAC	3 LAMP 347VAC	4 LAMP 347VAC
1	STANDARD	56557 - E132T8IS347/L/BULK	Instant Start	1	N	N/A	N/A	N/A
2	STANDARD	59741 - E232T8PS347/H/XTRM	Program Start	2	Y	Y	N/A	N/A
3	STANDARD	62992 - E232T8PS347/N/AS/BULK	Program Start	2	Y	Y	N/A	N/A
4	STANDARD	66150 - E232T8IS/MIC/347/N/AS	Instant Start	2	Y	Y	N/A	N/A
5	STANDARD	66151 - E232T8IS/MIC/347/N/AS/BULK	Instant Start	2	Y	Y	N/A	N/A
6	STANDARD	66152 - E232T8IS/MIC/347/L/AS/BULK	Instant Start	2	Y	Y	N/A	N/A
7	STANDARD	60076 - E232T8IS347/H/90C	Instant Start	2	N	N	N/A	N/A
8	STANDARD	60079 - E332T8IS347/L/90C/BULK	Instant Start	3	Y	Y	Y	N/A
9	STANDARD	56603 - E432T8IS347/L/BULK	Instant Start	4	Y	Y	Y	Y
10	STANDARD	61066 - E432T8PS347/L/AS/BULK	Program Start	4	N	Y	Y	Y
11	STANDARD	10294 - E432T8IS347/N	Instant Start	4	N	Y	Y	Y
12	STANDARD	59771 - E432T8IS347/H/90C	Instant Start	4	N	N	N	N
13	GE	GE232MAX347-H	Instant Start	2	N	Y	N/A	N/A
14	GE	GE332MAXP347-H	Instant Start	3	N	N	Y	N/A
15	GE	GE432MAXP347-H	Instant Start	4	N	N	Y	Y
16	GE	GE432MAXP347-H	Instant Start	4	N	Y	Y	Y
17	SYLVANIA	QHE 2X32T8/347 ISL-SC	Instant Start	2	Y	Y	Y	N/A
18	SYLVANIA	QTP 2X32T8/347 ISN-SC	Instant Start	2	Y	Y	N/A	N/A
19	arcata	ACTP2P3IS347	Instant start	2	Y	Y	N/A	N/A
20	arcata	ACT4P3IS347	Instant start	4	N	Y	Y	Y
21	arcata	ACT2P3IS347L	Instant start	2	Y	Y	Y	Y
22	arcata	ACT4P3IS347L	Instant start	4	Y	Y	Y	Y