



Howard Industries	E132IS-120SC	Instant Start	Electronic
Howard Industries	E232IS-120SC	Instant Start	Electronic
Howard Industries	E332IS-120SC	Instant Start	Electronic
Howard Industries	E432IS-120SC	Instant Start	Electronic
Howard Industries	E132IS-277SC	Instant Start	Electronic
Howard Industries	E232IS-277SC	Instant Start	Electronic
Howard Industries	SRE232W-120V	Instant Start	Electronic
Howard Industries	SRE332W-120V	Instant Start	Electronic
Howard Industries	SRE432W-120V	Instant Start	Electronic
Howard Industries	E332IS-277SC	Instant Start	Electronic
Howard Industries	E432IS-277SC	Instant Start	Electronic
Howard Industries	EPL2/32IS/MV/SC/HE	Instant Start	Electronic
Howard Industries	EPL3/32IS/MV/SC/HE	Instant Start	Electronic
Howard Industries	EPL4/32IS/MV/SC/HE	Instant Start	Electronic
Keystone	KTEB-232RIS-1-TP-SL	Instant Start	Electronic
Keystone	KTEB-432-UV-IS-N-P	Instant Start	Electronic
Pacific Ballast	EB-232IS-120-RES	Instant Start	Electronic
Philips Advance	ICN-1P32-N	Instant Start	Electronic
Philips Advance	ICN-2P32-N	Instant Start	Electronic
Philips Advance	ICN-3P32-N	Instant Start	Electronic
Philips Advance	ICN-4P32-N	Instant Start	Electronic
Philips Advance	ICN-1P32-SC	Instant Start	Electronic
Philips Advance	ICN-2P32-SC	Instant Start	Electronic
Philips Advance	ICN-3P32-SC	Instant Start	Electronic
Philips Advance	ICN-4P32-SC	Instant Start	Electronic
Philips Advance	IOPA-1P32-N	Instant Start	Electronic
Philips Advance	IOPA-2P32-N	Instant Start	Electronic
Philips Advance	IOPA-3P32-N	Instant Start	Electronic
Philips Advance	IOPA-4P32-N	Instant Start	Electronic
Philips Advance	IOP-1P32-N	Instant Start	Electronic
Philips Advance	IOP-2P32-N	Instant Start	Electronic
Philips Advance	IOP-3P32-N	Instant Start	Electronic
Philips Advance	IOP-4P32-N	Instant Start	Electronic
Philips Advance	IOP-1P32-LW-N	Instant Start	Electronic
Philips Advance	IOP-2P32-LW-N	Instant Start	Electronic
Philips Advance	IOP-3P32-LW-N	Instant Start	Electronic
Philips Advance	IOP-4P32-LW-N	Instant Start	Electronic
Philips Advance	REB-4P32-SC	Instant Start	Electronic
Philips Advance	IOPA-2P32-LW-N	Instant Start	Electronic
Philips Advance	IOPA-3P32-LW-N	Instant Start	Electronic
Philips Advance	IOPA-4P32-LW-N	Instant Start	Electronic
Philips Advance	IOPA-3P32HL-N	Instant Start	Electronic
Philips Advance	GOPA-1P32-SC	Instant Start	Electronic
Philips Advance	GOPA-3P32-SC	Instant Start	Electronic
Philips Advance	GOPA-4P32-SC	Instant Start	Electronic
Philips Advance	REB-2P32-SC	Instant Start	Electronic
Philips Advance	IOPA-1P32LWN	Instant Start	Electronic
Philips Advance	IOPA-1P32HL-N	Instant Start	Electronic
Philips Advance	IOPA-2P32HL-N	Instant Start	Electronic
Philips Advance	IOPA-4P32HL-N	Instant Start	Electronic
Philips Advance	IOP-1P32HL-SC	Instant Start	Electronic
Philips Advance	IOP-2P32HL-SC	Instant Start	Electronic
Philips Advance	IOP-3P32HL-SC	Instant Start	Electronic
Philips Advance	IOP-4P32HL-SC	Instant Start	Electronic
Philips Advance	IOP-1P32-N-SC	Instant Start	Electronic
Philips Advance	IOP-2P32-N-SC	Instant Start	Electronic
Philips Advance	IOP-3P32-N-SC	Instant Start	Electronic
Philips Advance	IOP-4P32-N-SC	Instant Start	Electronic
Philips Advance	ICN-1P32-H	Instant Start	Electronic
Philips Advance	ICN-2P32-H	Instant Start	Electronic
Philips Advance	ICN-3P32-H	Instant Start	Electronic
Philips Advance	ICN-4P32-H	Instant Start	Electronic
Philips Advance	ICN-1P32-L	Instant Start	Electronic
Philips Advance	ICN-2P32-L	Instant Start	Electronic
Philips Advance	ICN-3P32-L	Instant Start	Electronic
Philips Advance	ICN-4P32-L	Instant Start	Electronic
Philips Advance	REL-2P32-SC	Instant Start	Electronic
Philips Advance	REL-3P32-SC	Instant Start	Electronic
Philips Advance	REL-2P32-RH-TP	Instant Start	Electronic
Philips Advance	VEL-2P32-SC	Instant Start	Electronic
Philips Advance	VEL-3P32-SC	Instant Start	Electronic
Philips Advance	REB-1P32-SC	Instant Start	Electronic
Philips Advance	REB-3P32-SC	Instant Start	Electronic
Philips Advance	GOPA-2P32-SC	Instant Start	Electronic
Philips Advance	REB-1P32-N	Instant Start	Electronic
Philips Advance	REB-2P32-N	Instant Start	Electronic
Philips Advance	REB-3P32-N	Instant Start	Electronic
Philips Advance	REB-4P32-N	Instant Start	Electronic
Philips Advance	IOP-2P32-N	Program Start	Electronic
Philips Advance	IOP-2S32-SC	Program Start	Electronic
Proline	AP-332IP-UNV	Instant Start	Electronic
Proline	GEA32-120RES-DIY	Instant Start	Electronic
Robertstone	ISA259T8MV	Instant Start	Electronic
Standard	E232T8IS10/N/AS/BULK	Instant Start	Electronic
Standard	E432T8IS10/N/AS/BULK	Instant Start	Electronic
Sunpark	U-2/32ISE	Instant Start	Electronic
Sunpark	U-3/32ISE	Instant Start	Electronic
Sunpark	U-3/32ISE-LVF	Instant Start	Electronic
Universal	B42120RH-A	Instant Start	Electronic
Universal	B132IUNVHP-N	Instant Start	Electronic
Universal	B232IUNVHP-N	Instant Start	Electronic
Universal	B332IUNVHP-N	Instant Start	Electronic
Universal	B432IUNVHP-N	Instant Start	Electronic
Universal	B132PUNVHE-B	Instant Start	Electronic
Universal	B232PUNVHE-B	Instant Start	Electronic
Universal	B332PUNVHE-B	Instant Start	Electronic
Universal	B432PUNVHE-B	Instant Start	Electronic
Universal	B232I277RH	Instant Start	Electronic
Universal	B132IUNVHP-A	Instant Start	Electronic
Universal	B232IUNVHP-A	Instant Start	Electronic
Universal	B432IUNVEL-A	Instant Start	Electronic
Universal	B232PUNVHEH-A	Instant Start	Electronic
Universal	B332PUNVHEH-A	Instant Start	Electronic
Universal	B232PUNVEL-B	Program Start	Electronic
Universal	B332PUNVEL-B	Program Start	Electronic
Universal	B232IUNVHP-B	Instant Start	Electronic
Universal	B332IUNVHP-A	Instant Start	Electronic
Universal	B432IUNVHP-A	Instant Start	Electronic
Universal	B432IUNVHE-A	Instant Start	Electronic

## 2. T8, 18 inches, Instant and Rapid Start

### Feit Electric Models:

T818/830/LED  
T818/840/LED  
T818/850/LED

Manufacturer	Model	Type	Construction
General Electric	GE-132-MAX-L/ultra	Instant Start	Electronic
General Electric	GE-232-MV-N-42T	Instant Start	Electronic
General Electric	GE232MAX-G-N-DIYB	Instant Start	Electronic
General Electric	GE232MAX-N-Ultra	Instant Start	Electronic
General Electric	GE232MV-N-DIY	Instant Start	Electronic
General Electric	GE232MAX-H/ultra	Instant Start	Electronic
General Electric	GE232MAXP-H/ultra	Instant Start	Electronic
General Electric	GE332MAX-L/Ultra	Instant Start	Electronic
General Electric	GE332MAX-G-N	Instant Start	Electronic
General Electric	GE332MAX-G-N-DIYB	Instant Start	Electronic
General Electric	GE432MAX-G-N	Instant Start	Electronic
General Electric	GE432MAX-N/ULTRA	Instant Start	Electronic
Keystone	KTEB-120-1-TP-EMI/C	Rapid Start	Electronic
Inter Global	IG13-20ELSX	Rapid Start	Electronic
Fulham	SC-120-115-CT8	Rapid Start	Electronic
Philips Advance	ICN-1P32-N	Instant Start	Electronic
Philips Advance	ICN-2P32-SC	Instant Start	Electronic
Philips Advance	ICN-3P32-N	Instant Start	Electronic
Philips Advance	ICN-4P32-SC	Instant Start	Electronic
General Electric	GE432-120RES-DIY	Instant Start	Electronic
FULHAM	SC-120-115-CTS	Rapid Start	Electronic
KEYSTONE	KTEB-120-1-TP-EMI/C	Rapid Start	Electronic
KEYSTONE	KTEB-2C72-1-TP	Rapid Start	Electronic
Osram	QTP 4x32T8/UNV ISN-SC	Instant Start	Electronic
Keystone	KTEB-432-UV-IS-N-P	Instant Start	Electronic
General Electric	GE432MV-N-DIY	Instant Start	Electronic
Advance	ICN-4P32-N	Instant Start	Electronic
Advance	ICN-2P32-N	Instant Start	Electronic
Advance	IOP-2PSP32-N	Instant Start	Electronic
Advance	IOPA-4P32-N	Instant Start	Electronic
Advance	IOPA-2P32-N	Instant Start	Electronic
Universal Triad	B432IUNVHP-A	Instant Start	Electronic
KEYSTONE	232RIS-1-TP-SL	Instant Start	Electronic
PACIFIC BALLAST	EB-232IS-120-RES	Instant Start	Electronic

### Cautions:

Relamp with the fixture turned off.  
Properly seat lamps into the fixture lampholders.

### Incompatible Ballasts

Manufacturer	Model	Type
<b>Not for use with Pre-Heat Fixtures with external starter.</b>		

## 3. T12, 4ft, Rapid Start

### Feit Electric Models:

T1248/830/LEDG2/2      T1248/850/LEDG2/2/RP  
T1248/840/LEDG2/2      T1248/865/LEDG2/2/RP  
T1248/850/LEDG2/2      T1248HO/830/LED/2/RP  
T1248/840/LEDG2/10      T1248HO/840/LED/10  
T1248/865/LEDG2/2      T1248HO/840/LED/2/RP  
T1248/830/LEDG2/2/RP      T1248HO/850/LED/2/RP  
T1248/840/LED/10      T1248HO/865/LED/2/RP  
T1248/840/LEDG2/2/RP  
T1248/840/LED/25

### Cautions:

Relamp with the fixture turned off.  
Ensure the lamps are properly seated into the fixture.

Manufacturer	Model	Type	Construction
General Electric	GEM240RS120	Rapid Start	Magnetic
General Electric	GEM240RS277	Rapid Start	Magnetic
General Electric	GEM240RS120	Rapid Start	Magnetic
General Electric	GE240RS-277	Rapid Start	Magnetic
General Electric	8G1022W	Rapid Start	Magnetic
General Electric	GE240RS-120-P	Rapid Start	Magnetic
Howard Industries	M2/40 RS-120	Rapid Start	Magnetic
Howard Industries	EP2/110RS/MV/SC	Rapid Start	Magnetic
Howard Industries	M1/40RS-120	Rapid Start	Magnetic
Howard Industries	M2/40RS-277	Rapid Start	Magnetic
Lumi-Kon	R240-120-CP	Rapid Start	Magnetic
MagneTek	446-L-SLH-TC-P	Rapid Start	Magnetic
MagneTek	443-L-SLH-TC-P	Rapid Start	Magnetic
Osram Sylvania	MB1x40/277 RS-1	Rapid Start	Magnetic
Osram Sylvania	MB2x40/277RS-1	Rapid Start	Magnetic
Osram Sylvania	MB1x40/120RS-1	Rapid Start	Magnetic
Osram Sylvania	MB2x40/120RS-1	Rapid Start	Magnetic
Philips Advance	R-2540-1-TP	Rapid Start	Magnetic
Philips Advance	R-140-1-TP	Rapid Start	Magnetic
Philips Advance	R-2540-1-TP	Rapid Start	Magnetic
Philips Advance	RQM-2540-3-TP	Rapid Start	Magnetic
Philips Advance	V-2534-TP	Rapid Start	Magnetic
Philips Advance	V-2540-1-TP	Rapid Start	Magnetic
Philips Advance	V-2540-TP	Rapid Start	Magnetic
Philips Advance	RL-1P32-TP	Rapid Start	Magnetic
Philips Advance	413-C-TC-P	Rapid Start	Magnetic
Philips Advance	RM-2535-TP	Rapid Start	Magnetic
Philips Advance	ICN-2540-L	Rapid Start	Magnetic
Philips Advance	ICN-2540-H	Rapid Start	Magnetic
Philips Advance	HM-1P30-TP 120V 1L	Rapid Start	Magnetic
Philips Advance	HM-25P20-TP 120V 2L	Rapid Start	Magnetic
Philips Advance	R25P30TP 120V 2L	Rapid Start	Magnetic
Phillips	ICN-2540-N	Rapid Start	Electronic
Universal	412-L-SLH-TC-P	Rapid Start	Magnetic
Universal	458-L-SLH-TC-P	Rapid Start	Magnetic
Universal	443-LR-VLH-TC-P 277V 2L	Rapid Start	Magnetic
Universal	443-LN-TC-P	Rapid Start	Magnetic
Universal	B2345R 120M-A	Rapid Start	Electronic
Val Miser	8G1034W	Rapid Start	Electronic
Val Miser	8G1024W	Rapid Start	Electronic

### Incompatible Ballast

Manufacturer	Model	Type
<b>Not for use with Pre-Heat Fixtures with external starter.</b>		
Radionic	E2324IX-120M	Rapid Start
Universal	443-LR-VLH-TC-P	Rapid Start

## 4. T12, 3ft, Rapid Start

### Feit Electric Models:

T1236/4CCT/LED

### Cautions:

Relamp with the fixture turned off.  
Ensure the lamps are properly seated into the fixture.

Manufacturer	Model	Type	Construction
Advance	ICN-2540-N	Rapid Start	Electronic
Advance	R-2540-1-TP	Rapid Start	Electronic
Advance	R-140-1-TP	Rapid Start	Electronic
Sylvania	MB1x40/120 RS	Rapid Start	Electronic
Keystone	KTEB-240-UV-TP-PIC	Rapid Start	Electronic
Advance	RELB-2540-N	Rapid Start	Electronic
General Electric	GE240PS-MV-N	Programmed Start	Electronic

### Incompatible Ballast

Manufacturer	Model	Type
<b>Not for use with Pre-Heat Fixtures with external starter.</b>		

## 5. T8 or T12, 4ft, Instant and Rapid Start

### Feit Electric Models:

T48/830/LEDG2  
 T48/840/LED/2  
 T48/840/LEDG2  
 T48/850/LEDG2  
 T48/41K/LED/2  
 T48/840/LED/4  
 T48/840/12  
 T48/840/LEDG2/12

### Cautions:

Relamp with the fixture turned off.  
 Properly seat lamps into the fixture lampholders.

Manufacturer	Model	Type	Construction
General Electric	GE132MV-N	Instant Start	Electronic
Accupro	AP-132IP-UNV-M	Instant Start	Electronic
Accupro	AP-232IP-UNV-M	Instant Start	Electronic
Accupro	AP-332IP-UNV-M	Instant Start	Electronic
Accupro	AP-432IP-UNV-M	Instant Start	Electronic
Advance	ICN-2P-32-SC	Instant Start	Electronic
Fulham Co., Inc	WHSG1-UNV-T8-IS	Instant Start	Electronic
Fulham Co., Inc	WHSG2-UNV-T8-IS	Instant Start	Electronic
Fulham Co., Inc	WHSG3-UNV-T8-IS	Instant Start	Electronic
Fulham Co., Inc	WHSG4-UNV-T8-IS	Instant Start	Electronic
General Electric	GE232MV-N	Instant Start	Electronic
General Electric	GE332MV-N	Instant Start	Electronic
General Electric	GE432MV-N	Instant Start	Electronic
General Electric	GE232MV-N-DIY	Instant Start	Electronic
General Electric	GE332MV-N-DIY	Instant Start	Electronic
General Electric	GE432MV-N-DIY	Instant Start	Electronic
General Electric	GE132MAX-N/ULTRA	Instant Start	Electronic
General Electric	GE232MAX-N/ULTRA	Instant Start	Electronic
General Electric	GE332MAX-N/ULTRA	Instant Start	Electronic
General Electric	GE432MAX-N/ULTRA	Instant Start	Electronic
General Electric	GE132MAX-H/ULTRA	Instant Start	Electronic
General Electric	GE232MAX-H/ULTRA	Instant Start	Electronic
General Electric	GE332MAX-H/ULTRA	Instant Start	Electronic
General Electric	GE432MAX-H/ULTRA	Instant Start	Electronic
General Electric	GE232MAX347-N	Instant Start	Electronic
General Electric	GE332MAX347-N	Instant Start	Electronic
General Electric	GE432MAX347-N	Instant Start	Electronic
General Electric	GE232-120RES-DIY	Instant Start	Electronic
General Electric	GE432-120RES-DIY	Instant Start	Electronic
General Electric	GE-132-MAX-L/ULTRA	Instant Start	Electronic
General Electric	GE-232-MAX-L/ULTRA	Instant Start	Electronic
General Electric	GE-332-MAX-L/ULTRA	Instant Start	Electronic
General Electric	GE-432-MAX-L/ULTRA	Instant Start	Electronic
General Electric	GE-132-MV-N-42T	Instant Start	Electronic
General Electric	GE-232-MV-N-42T	Instant Start	Electronic
General Electric	GE-332-MV-N-42T	Instant Start	Electronic
General Electric	GE-432-MV-N-42T	Instant Start	Electronic
General Electric	GE232MAX-G-N-DIYB	Instant Start	Electronic
General Electric	GE332MAX-G-N-DIYB	Instant Start	Electronic
General Electric	GE432MAX-G-N-DIYB	Instant Start	Electronic
General Electric	GE132MAX-N/ULTRA	Instant Start	Electronic
General Electric	GE232MAX-N/ULTRA	Instant Start	Electronic
General Electric	GE332MAX-N/ULTRA	Instant Start	Electronic
General Electric	GE432MAX-N/ULTRA	Instant Start	Electronic
General Electric	GE132MAXP-H/ULTRA	Instant Start	Electronic
General Electric	GE232MAXP-H/ULTRA	Instant Start	Electronic
General Electric	GE332MAXP-H/ULTRA	Instant Start	Electronic
General Electric	GE432MAXP-H/ULTRA	Instant Start	Electronic
General Electric	GE132MAX-L/ULTRA	Instant Start	Electronic
General Electric	GE232MAX-L/ULTRA	Instant Start	Electronic
General Electric	GE332MAX-L/ULTRA	Instant Start	Electronic
General Electric	GE432MAX-L/ULTRA	Instant Start	Electronic
General Electric	GE132MAX-G-N	Instant Start	Electronic
General Electric	GE232MAX-G-N	Instant Start	Electronic
General Electric	GE332MAX-G-N	Instant Start	Electronic
General Electric	GE432MAX-G-N	Instant Start	Electronic
General Electric	GE232MAX-H-42T	Instant Start	Electronic
General Electric	GE432MAX-H-42T	Instant Start	Electronic
General Electric	GE432-120RES-DIYB	Instant Start	Electronic
General Electric	GE332MAXP90-560	Instant Start	Electronic
General Electric	GE432MAXP90-560	Instant Start	Electronic
General Electric	GE 132MAX-N/ULTRA	Instant Start	Electronic
General Electric	GE-132-MV-N	Instant Start	Electronic
General Electric	GE-232-MV-N	Instant Start	Electronic
General Electric	GE-332-MV-N	Instant Start	Electronic
General Electric	GE-432-MV-N	Instant Start	Electronic
General Electric	GE132MV-N-DIY	Instant Start	Electronic
General Electric	GE-132-MV-H	Instant Start	Electronic
General Electric	GE-232-MV-H	Instant Start	Electronic
General Electric	GE-332-MV-H	Instant Start	Electronic
General Electric	GE-432-MV-H	Instant Start	Electronic
General Electric	GE-132-MV-L	Instant Start	Electronic
General Electric	GE-232-MV-L	Instant Start	Electronic
General Electric	GE-332-MV-L	Instant Start	Electronic
General Electric	GE-432-MV-L	Instant Start	Electronic
General Electric	GE-132-120-N	Instant Start	Electronic
General Electric	GE-232-120-N	Instant Start	Electronic
General Electric	GE-332-120-N	Instant Start	Electronic
General Electric	GE-432-120-N	Instant Start	Electronic
General Electric	GE132MAXP-N/ULTRA	Instant Start	Electronic
General Electric	GE232MAXP-N/ULTRA	Instant Start	Electronic
General Electric	GE332MAXP-N/ULTRA	Instant Start	Electronic
General Electric	GE432MAXP-N/ULTRA	Instant Start	Electronic
General Electric	GE132MAXP-L/ULTRA	Instant Start	Electronic
General Electric	GE232MAXP-L/ULTRA	Instant Start	Electronic
General Electric	GE332MAXP-L/ULTRA	Instant Start	Electronic
General Electric	GE432MAXP-L/ULTRA	Instant Start	Electronic
General Electric	GE-232-MVPS-H	Program Start	Electronic
General Electric	GE-332-MVPS-H	Program Start	Electronic
General Electric	GE-432-MVPS-H	Program Start	Electronic
General Electric	GE-232-MVPS-L	Program Start	Electronic
General Electric	GE-332-MVPS-L	Program Start	Electronic
General Electric	GE-432-MVPS-L	Program Start	Electronic
General Electric	GE-232-MVPS-N	Program Start	Electronic
General Electric	GE-332-MVPS-N	Program Start	Electronic
General Electric	GE-432-MVPS-N	Program Start	Electronic
Hatch	HL432RIS-12-W	Instant Start	Electronic
Howard Industries	EP2/32IS/MV/MC/HE	Instant Start	Electronic
Howard Industries	EP3/32IS/MV/MC/HE	Instant Start	Electronic
Howard Industries	EP4/32IS/MV/MC/HE	Instant Start	Electronic
Howard Industries	EP132IS-120-277SC	Instant Start	Electronic
Howard Industries	EP232IS-120-277SC	Instant Start	Electronic
Howard Industries	EP332IS-120-277SC	Instant Start	Electronic
Howard Industries	EP432IS-120-277SC	Instant Start	Electronic
Howard Industries	E132IS-120SC	Instant Start	Electronic
Howard Industries	E232IS-120SC	Instant Start	Electronic
Howard Industries	E332IS-120SC	Instant Start	Electronic
Howard Industries	E432IS-120SC	Instant Start	Electronic
Howard Industries	E132IS-277SC	Instant Start	Electronic
Howard Industries	E232IS-277SC	Instant Start	Electronic
Howard Industries	SRE232W-120V	Instant Start	Electronic
Howard Industries	SRE332W-120V	Instant Start	Electronic
Howard Industries	SRE432W-120V	Instant Start	Electronic
Howard Industries	E332IS-277SC	Instant Start	Electronic
Howard Industries	E432IS-277SC	Instant Start	Electronic

Incompatible Ballast			
Manufacturer	Model		Type
<b>Not for use with Pre-Heat Fixtures with external starter.</b>			
Radionic	E2324IX-120M		Rapid Start
Universal	443-LR-VLH-TC-P		Rapid Start
Osram Sylvania	QHE 1x32T8/UNV		Instant Start
Osram Sylvania	QHE 2x32T8/UNV		Instant Start
Osram Sylvania	QHE 3x32T8/UNV		Instant Start
Osram Sylvania	QHE 4x32T8/UNV		Instant Start
Osram Sylvania	QTP 1x32T8/UNV		Instant Start
Osram Sylvania	QTP 2x32T8/UNV		Instant Start
Osram Sylvania	QTP 3x32T8/UNV		Instant Start
Osram Sylvania	QTP 4x32T8/UNV		Instant Start
Osram Sylvania	QHE 2x32T8/UNV ISH HT-SC		Instant Start

Howard Industries	EPL2/3215/MV/SC/HE	Instant Start	Electronic
Howard Industries	EPL3/3215/MV/SC/HE	Instant Start	Electronic
Howard Industries	EPL4/3215/MV/SC/HE	Instant Start	Electronic
Keystone	KTEB-232RIS-1-TP-SL	Instant Start	Electronic
Keystone	KTEB-432-UV-IS-N-P	Instant Start	Electronic
Pacific Ballast	EB-23215-120-RES	Instant Start	Electronic
Philips Advance	ICN-1P32-N	Instant Start	Electronic
Philips Advance	ICN-2P32-N	Instant Start	Electronic
Philips Advance	ICN-3P32-N	Instant Start	Electronic
Philips Advance	ICN-4P32-N	Instant Start	Electronic
Philips Advance	ICN-1P32-SC	Instant Start	Electronic
Philips Advance	ICN-2P32-SC	Instant Start	Electronic
Philips Advance	ICN-3P32-SC	Instant Start	Electronic
Philips Advance	ICN-4P32-SC	Instant Start	Electronic
Philips Advance	IOPA-1P32-N	Instant Start	Electronic
Philips Advance	IOPA-2P32-N	Instant Start	Electronic
Philips Advance	IOPA-3P32-N	Instant Start	Electronic
Philips Advance	IOPA-4P32-N	Instant Start	Electronic
Philips Advance	IOP-1P32-N	Instant Start	Electronic
Philips Advance	IOP-2P32-N	Instant Start	Electronic
Philips Advance	IOP-3P32-N	Instant Start	Electronic
Philips Advance	IOP-4P32-N	Instant Start	Electronic
Philips Advance	IOP-1P32-LW-N	Instant Start	Electronic
Philips Advance	IOP-2P32-LW-N	Instant Start	Electronic
Philips Advance	IOP-3P32-LW-N	Instant Start	Electronic
Philips Advance	IOP-4P32-LW-N	Instant Start	Electronic
Philips Advance	REB-4P32-SC	Instant Start	Electronic
Philips Advance	IOPA-2P32-LW-N	Instant Start	Electronic
Philips Advance	IOPA-3P32-LW-N	Instant Start	Electronic
Philips Advance	IOPA-4P32-LW-N	Instant Start	Electronic
Philips Advance	IOPA-3P32HL-N	Instant Start	Electronic
Philips Advance	GOPA-1P32-SC	Instant Start	Electronic
Philips Advance	GOPA-3P32-SC	Instant Start	Electronic
Philips Advance	GOPA-4P32-SC	Instant Start	Electronic
Philips Advance	REB-2P32-SC	Instant Start	Electronic
Philips Advance	IOPA-1P32LWN	Instant Start	Electronic
Philips Advance	IOPA-1P32HL-N	Instant Start	Electronic
Philips Advance	IOPA-2P32HL-N	Instant Start	Electronic
Philips Advance	IOPA-4P32HL-N	Instant Start	Electronic
Philips Advance	IOP-1P32HL-SC	Instant Start	Electronic
Philips Advance	IOP-2P32HL-SC	Instant Start	Electronic
Philips Advance	IOP-3P32HL-SC	Instant Start	Electronic
Philips Advance	IOP-4P32HL-SC	Instant Start	Electronic
Philips Advance	IOP-1P32-N-SC	Instant Start	Electronic
Philips Advance	IOP-2P32-N-SC	Instant Start	Electronic
Philips Advance	IOP-3P32-N-SC	Instant Start	Electronic
Philips Advance	IOP-4P32-N-SC	Instant Start	Electronic
Philips Advance	ICN-1P32-H	Instant Start	Electronic
Philips Advance	ICN-2P32-H	Instant Start	Electronic
Philips Advance	ICN-3P32-H	Instant Start	Electronic
Philips Advance	ICN-4P32-H	Instant Start	Electronic
Philips Advance	ICN-1P32-L	Instant Start	Electronic
Philips Advance	ICN-2P32-L	Instant Start	Electronic
Philips Advance	ICN-3P32-L	Instant Start	Electronic
Philips Advance	ICN-4P32-L	Instant Start	Electronic
Philips Advance	REL-2P32-SC	Instant Start	Electronic
Philips Advance	REL-3P32-SC	Instant Start	Electronic
Philips Advance	REL-2P32-RH-TP	Instant Start	Electronic
Philips Advance	VEL-2P32-SC	Instant Start	Electronic
Philips Advance	VEL-3P32-SC	Instant Start	Electronic
Philips Advance	REB-1P32-SC	Instant Start	Electronic
Philips Advance	REB-3P32-SC	Instant Start	Electronic
Philips Advance	GOPA-2P32-SC	Instant Start	Electronic
Philips Advance	REB-1P32-N	Instant Start	Electronic
Philips Advance	REB-2P32-N	Instant Start	Electronic
Philips Advance	REB-3P32-N	Instant Start	Electronic
Philips Advance	REB-4P32-N	Instant Start	Electronic
Philips Advance	IOP-2PSP32-N	Program Start	Electronic
Philips Advance	IOP-2S32-SC	Program Start	Electronic
Proline	AP-3321P-UNV	Instant Start	Electronic
Proline	GEA32-120RES-DIY	Instant Start	Electronic
Robertstone	ISA259T8MV	Instant Start	Electronic
Standard	E232T81S10/N/AS/BULK	Instant Start	Electronic
Standard	E432T81S10/N/AS/BULK	Instant Start	Electronic
Sunpark	U-2/32ISE	Instant Start	Electronic
Sunpark	U-3/32ISE	Instant Start	Electronic
Sunpark	U-3/32ISE-LVF	Instant Start	Electronic
Universal	B421120RH-A	Instant Start	Electronic
Universal	B1321IUNVHP-N	Instant Start	Electronic
Universal	B2321IUNVHP-N	Instant Start	Electronic
Universal	B3321IUNVHP-N	Instant Start	Electronic
Universal	B4321IUNVHP-N	Instant Start	Electronic
Universal	B132PUNVHE-B	Instant Start	Electronic
Universal	B232PUNVHE-B	Instant Start	Electronic
Universal	B332PUNVHE-B	Instant Start	Electronic
Universal	B432PUNVHE-B	Instant Start	Electronic
Universal	B2321277RH	Instant Start	Electronic
Universal	B1321IUNVHP-A	Instant Start	Electronic
Universal	B2321IUNVHP-A	Instant Start	Electronic
Universal	B4321IUNVEL-A	Instant Start	Electronic
Universal	B232PUNVHEH-A	Instant Start	Electronic
Universal	B332PUNVHEH-A	Instant Start	Electronic
Universal	B232PUNVEL-B	Program Start	Electronic
Universal	B332PUNVEL-B	Program Start	Electronic
Universal	B2321IUNVHP-B	Instant Start	Electronic
Universal	B3321IUNVHP-A	Instant Start	Electronic
Universal	B4321IUNVHP-A	Instant Start	Electronic
Universal	B4321IUNVHE-A	Instant Start	Electronic
General Electric	GEM240RS120	Rapid Start	Magnetic
General Electric	GEM240RS277	Rapid Start	Magnetic
General Electric	GE240RS-277	Rapid Start	Magnetic
General Electric	8G1022W	Rapid Start	Magnetic
General Electric	GE240RS-120-P	Rapid Start	Magnetic
Howard Industries	M2/40 RS-120	Rapid Start	Magnetic
Howard Industries	EP2/110RS/MV/SC	Rapid Start	Magnetic
Howard Industries	M1/40RS-120	Rapid Start	Magnetic
Howard Industries	M2/40RS-277	Rapid Start	Magnetic
Lumi-Kon	R240-120-CP	Rapid Start	Magnetic
MagneTek	446-L-SLH-TC-P	Rapid Start	Magnetic
MagneTek	443-L-SLH-TC-P	Rapid Start	Magnetic
Osram Sylvania	MB1x40/277 RS-1	Rapid Start	Magnetic
Osram Sylvania	MB2x40/277RS-1	Rapid Start	Magnetic
Osram Sylvania	MB1x40/120RS-1	Rapid Start	Magnetic
Osram Sylvania	MB2x40/120RS-1	Rapid Start	Magnetic
Philips Advance	R-2540-1-TP	Rapid Start	Magnetic
Philips Advance	R-140-1-TP	Rapid Start	Magnetic
Philips Advance	RQM-2540-3-TP	Rapid Start	Magnetic
Philips Advance	V-2534-TP	Rapid Start	Magnetic
Philips Advance	V-2540-1-TP	Rapid Start	Magnetic
Philips Advance	V-2540-TP	Rapid Start	Magnetic
Philips Advance	RL-1P32-TP	Rapid Start	Magnetic
Philips Advance	413-C-TC-P	Rapid Start	Magnetic
Philips Advance	RM-2535-TP	Rapid Start	Magnetic
Philips Advance	ICN-2540-L	Rapid Start	Magnetic
Philips Advance	ICN-2540-H	Rapid Start	Magnetic
Philips Advance	HM-1P30-TP 120V 1L	Rapid Start	Magnetic
Philips Advance	HM-2SP20-TP 120V 2L	Rapid Start	Magnetic
Philips Advance	R2SP30TP 120V 2L	Rapid Start	Magnetic
Phillips	ICN-2540-N	Rapid Start	Electronic
Universal	412-L-SLH-TC-P	Rapid Start	Magnetic
Universal	458-L-SLH-TC-P	Rapid Start	Magnetic
Universal	443-LR-VLH-TC-P 277V 2L	Rapid Start	Magnetic
Universal	443-LN-TC-P	Rapid Start	Magnetic
Universal	B234SR 120M-A	Rapid Start	Electronic
Val Miser	8G1034W	Rapid Start	Electronic
Val Miser	8G1024W	Rapid Start	Electronic

## 6. T5HO, 45in, Program Start (Replace 54W Fluor)

### Feit Electric Models:

T548HO/840/LEDG2  
T548HO/4CCT/LED/2

### Cautions:

Relamp with the fixture turned off.  
Ensure the lamps are properly seated into the fixture.

Manufacturer	Model	Type	Construction
AC	AC-A2/54T5XS-W	Program Start	Electronic
Damar	26947A	Program Start	Electronic
Espen	VE454MVHRP	Program Start	Electronic
Fulham	RHA-UNV-254-LT5	Program Start	Electronic
Fulham	WH5-120-L	Program Start	Electronic
Fusion	FB254T5MVE	Program Start	Electronic
Fusion	FB454T5MVE	Program Start	Electronic
Fusion	FB254347T5E	Program Start	Electronic
Fusion	FB454347T5E	Program Start	Electronic
General Electric	GE254MVPS-D-1	Program Start	Electronic
General Electric	GE454MVPS90-F	Program Start	Electronic
Halco	EP254HO/PS/MV/MC	Program Start	Electronic
Halco	EP454HO/PS/MV	Program Start	Electronic
HEP	SD 254-58 UNI	Program Start	Electronic
Huafeng	ENP-T5-54-S2MC	Program Start	Electronic
Huafeng	ENP-T5-54-S4LC	Program Start	Electronic
Keystone	KTEB-254HO-UV-PS/A	Program Start	Electronic
Keystone	KTEB-254HO-UV-PS-SL	Program Start	Electronic
Keystone	KTEB-454HO-UV-PS	Program Start	Electronic
Liyuan	LYEB5812	Program Start	Electronic
Luma	BLF254-U	Program Start	Electronic
Lutron	EHD254C347210	Program Start	Electronic
Maxlite	SKEU542HOP/SC	Program Start	Electronic
Osram	QHE 2x54T5HO/UNV PSN	Program Start	Electronic
Pacific	EB-254PRS-U	Program Start	Electronic
Philips Advance	EL1/254A26	Program Start	Electronic
Philips Advance	ICN-2554	Program Start	Electronic
Philips Advance	ICN-2554-D	Program Start	Electronic
Philips Advance	ICN-2554-N	Program Start	Electronic
Philips Advance	ICN-2554-T	Program Start	Electronic
Philips Advance	ICN-2554-90C	Program Start	Electronic
Philips Advance	ICN-2554-90C-N	Program Start	Electronic
Philips Advance	IZT-2554-D	Program Start	Electronic
Philips Advance	ICN-4554-90C-2LS-G	Program Start	Electronic
Philips Advance	ICN-4554-2LS-H	Program Start	Electronic
Philips Advance	HCN-2554-90C-WL	Program Start	Electronic
Philips Advance	HCN-4554-90C-2LS-G	Program Start	Electronic
PQL	70195	Program Start	Electronic
Roberson	PSL 254T5MV	Program Start	Electronic
Roberson	PSV 254T5IVCD	Program Start	Electronic
Roberson	PSB454T5MV	Program Start	Electronic
Standard	E154T5PS120-277/N/HO	Program Start	Electronic
Standard	E245T5HOPS120-277/N/XTRM	Program Start	Electronic
Standard	E454T5HOPS120-277/N/XTRM	Program Start	Electronic
Standard	E254T5HOPS347/N/XTRM	Program Start	Electronic
Standard	E254T5PS347/N/HO/XTRM	Program Start	Electronic
Standard	E454T5HOPS347/N/XTRM	Program Start	Electronic
Sunpark	U-2/54T5HO	Program Start	Electronic
Symban	SLFE-254 T5HO-120MV-90C	Program Start	Electronic
Symban	SLFE-454 T5HO-120MV-90C	Program Start	Electronic
Symban	SLFE-254 T5HO-347V-90C	Program Start	Electronic
Symban	SLFE-454 T5HO-347V-90C	Program Start	Electronic
Ultrasave	ER254120MHT-W	Program Start	Electronic
Ultrasave	ER454120MHT-W	Program Start	Electronic
Ultrasave	ER254347HT-W	Program Start	Electronic
Ultrasave	ER454347HT-W	Program Start	Electronic
Universal	B254PUNVHB-D	Program Start	Electronic
Universal	B254PUNV-D	Program Start	Electronic
Universal	B454PUNV-E	Program Start	Electronic

## 7. T5, 45in or 33in, Program Start (Replace 28W or 21W)

### Feit Electric Models:

T534/4CCT/LED  
T548/4CCT/LED/2

### Cautions:

Relamp with the fixture turned off.  
Ensure the lamps are properly seated into the fixture.

Manufacturer	Model	Type	Construction
Universal	B228PUNV-C	Program Start	Electronic
Sylvania	QTP2x28T5/UNV PSN	Program Start	Electronic
Advance	ICN-2528-T	Program Start	Electronic
Fulham	WH2-277-L	Instant Start	Electronic
Fulham	WH2-120-L	Instant Start	Electronic
Osram	QHE2x28T5/UNV PSN	Program Start	Electronic
Advance	ICN -2528-T	Program Start	Electronic
Quicktronic	QHE 2x28T5/UNV PSN	Program Start	Electronic
General Electric	GE228MVPS-MC	Program Start	Electronic
General Electric	GE228MVPS-MC-H	Program Start	Electronic
General Electric	GE28T5/2-120-RES	Program Start	Electronic
General Electric	GE 28T5-120-RES	Program Start	Electronic
General Electric	GE228MVPS-N-535	Program Start	Electronic
OSRAM	QTP 1x28T5/UNV PSN	Program Start	Electronic
OSRAM /SYLVANIA	QTP 2x28T5/UNV PSN	Program Start	Electronic
OSRAM	QHES 2x28T5/UNVPS90-SC	Program Start	Electronic
Universal	B228PUNV-N	Program Start	Electronic
KEYSTONE	KTEB-228-1-TP-PH-SL/B	Program Start	Electronic
LUTRON	EHD254MU110	Program Start	Electronic

## 8. T5, 21in, Program Start (Replace 13/14W)

### Feit Electric Models:

T521/840/LED  
T521/865/LED  
T521/830/LED

### Cautions:

Relamp with the fixture turned off.  
Ensure the lamps are properly seated into the fixture.

Manufacturer	Model	Type	Construction
Universal	B228PUNV-C	Program Start	Electronic
Sylvania	QTP2x28T5/UNV PSN	Program Start	Electronic
Advance	ICN-2528-T	Program Start	Electronic
Fulham	WH2-277-L	Instant Start	Electronic
Fulham	WH2-120-L	Instant Start	Electronic
Osram	QHE2x28T5/UNV PSN	Program Start	Electronic
Advance	ICN -2528-T	Program Start	Electronic
Quicktronic	QHE 2x28T5/UNV PSN	Program Start	Electronic
General Electric	GE228MVPS-MC	Program Start	Electronic
General Electric	GE228MVPS-MC-H	Program Start	Electronic
General Electric	GE28T5/2-120-RES	Program Start	Electronic
General Electric	GE 28T5-120-RES	Program Start	Electronic
General Electric	GE228MVPS-N-535	Program Start	Electronic
OSRAM	QTP 1x28T5/UNV PSN	Program Start	Electronic
OSRAM /SYLVANIA	QTP 2x28T5/UNV PSN	Program Start	Electronic
OSRAM	QHES 2x28T5/UNVPS90-SC	Program Start	Electronic
Universal	B228PUNV-N	Program Start	Electronic
KEYSTONE	KTEB-228-1-TP-PH-SL/B	Program Start	Electronic
LUTRON	EHD254MU110	Program Start	Electronic

## 9. T5 - 12in, Rapid Start, (Replace 8W)

### Feit Electric Models:

T512/840/LED  
T512/865/LED  
T512/830/LED

### Cautions:

Relamp with the fixture turned off.  
Ensure the lamps are properly seated into the fixture.

Manufacturer	Model	Type	Construction
KEYSTONE	KTEB-108-1-TP-FC	Rapid Start	Electronic
AMAX	HD8/13-120A	Rapid Start	Electronic

## 10. T9 Circular, 12" Diameter, Rapid Start

### Feit Electric Models:

FC12/840/LED  
FC12/3CCT/LED  
FC12/865/LED

### Cautions:

Relamp with the fixture turned off.  
Ensure the lamps are properly seated into the fixture.

Manufacturer	Model	Type	Construction
Keystone	KTEB-1C3032-1-TP-WS	Rapid Start	Electronic
Radiant	RCB32	Rapid Start	Electronic
Sunpark	SL26T	Rapid Start	Electronic
Keystone	KTEB-2C72-1-TP-WS	Rapid Start	Electronic
Robertson	RSW3240C120WS	Rapid Start	Electronic
Sunpark	SL15T-1	Rapid Start	Electronic
Radiant	RCB54	Rapid Start	Electronic
Philips Advance	RS-22-32-TP-W	Rapid Start	Magnetic
American Elex	HD32-120A	Rapid Start	Electronic
Keystone	KTEB-140-1-TP-EMI-WS	Rapid Start	Electronic
Pacific Ballast	EB-132RSC-120	Rapid Start	Electronic
Advance	RS-22-32-TP	Rapid Start	Magnetic
Advance	RS-22-32-TP-W	Rapid Start	Magnetic
Sunpark	SL15T	Rapid Start	Electronic
Bright Beginning	BEB/120/32+22	Rapid Start	Electronic
American Elex	HD3222-120B	Rapid Start	Electronic

## 11. T9 Circular, 8.25" Diameter, Rapid Start

### Feit Electric Models:

FC8/840/LED  
FC8/3CCT/LED  
FC9/3CCT/LED  
FC8/865/LED

### Cautions:

Relamp with the fixture turned off.  
Ensure the lamps are properly seated into the fixture.

Manufacturer	Model	Type	Construction
Keystone	KTEB-1C22-1-TP-WS	Rapid Start	Electronic
Keystone	KTEB-2C72-1-TP-WS	Rapid Start	Electronic
Keystone	SS22WSTP	Rapid Start	Magnetic
Radiant	RCB54	Rapid Start	Electronic
Robertson	SSN2PWS	Rapid Start	Magnetic
Robertson	RSW3240C120WS	Rapid Start	Electronic
Sunpark	SL15T-1	Rapid Start	Electronic
American Elex	HD22-120A	Rapid Start	Electronic
Keystone	KTEB-1C22-1-TP-WS	Rapid Start	Electronic
American Elex	HD3222-120B	Rapid Start	Electronic
Advance	RS-22-32-TP	Rapid Start	Magnetic
Advance	RS-22-32-TP-W	Rapid Start	Magnetic
Sunpark	SL15T	Rapid Start	Electronic
Radiant	RCB54	Rapid Start	Electronic
Bright Beginning	BEB/120/32+22	Rapid Start	Electronic

## 12. T8, 8 ft Instant Start, FA8

### Feit Electric Models:

T96/841/LED/2P  
T96/841/LED  
T96/840/LED/2  
T96/865/AB/LED

### Cautions:

Relamp with the fixture turned off.  
Ensure the lamps are properly seated into the fixture.

Manufacturer	Model	Type	Construction
General Electric	GE259MAX-G-N	Instant Start	Electronic
Howard Industries	EP2/59IS/MV/SC	Instant Start	Electronic
Motorola	M2-IL-T8-8FT-120	Instant Start	Electronic
Sylvania	QTP 2x59T8/UNV ISN-SC	Instant Start	Electronic
Sylvania	QHE 2x59T8/UNV ISN-SC	Instant Start	Electronic
Universal	B259IUNVHP-A	Instant Start	Electronic

## 13. T12, 8 ft Instant Start, FA8

### Feit Electric Models:

T1296/840/A/LEDG2/2  
T1296/865/A/LEDG2/2

### Cautions:

Relamp with the fixture turned off.  
Ensure the lamps are properly seated into the fixture.

Manufacturer	Model	Type	Construction
General Electric	GE260IS-MV-N	Instant Start	Electronic
General Electric	GE286MAXP-HO-N	Instant Start	Electronic
Howard Industries	EP2/75IS/MV/SC	Instant Start	Electronic
Howard Industries	E2/75IS-120MC	Instant Start	Electronic
Keystone	LTED-275-1-TP-PIC-SL	Instant Start	Electronic
Philips Advance	VEL-2P75	Instant Start	Electronic
Philips Advance	ICN-2P60-SC	Instant Start	Electronic
Sylvania	QTP 2x96T12/UNV IS	Instant Start	Electronic
Universal	B260I120M-A	Instant Start	Electronic
Universal	B260IUNVHP	Instant Start	Electronic
Howard	M1/75IS-277	Instant Start	Magnetic
Magnetek	827-SLH-TC-P	Instant Start	Magnetic
Philips Advance	V2E-75-S-2-TP	Instant Start	Magnetic
Universal	806-SLH-TC-TP	Instant Start	Magnetic

**14. T8/T12, 8 ft Instant Start, FA8**

**Feit Electric Models:**

T96/840/AB/LED

<b>Manufacturer</b>	<b>Model</b>	<b>Type</b>	<b>Construction</b>
General Electric	GE259MAX-G-N	Instant Start	Electronic
Howard Industries	EP2/59IS/MV/SC	Instant Start	Electronic
Motorola	M2-IL-T8-8FT-120	Instant Start	Electronic
Sylvania	QTP 2x59T8/UNV ISN-SC	Instant Start	Electronic
Sylvania	QHE 2x59T8/UNV ISN-SC	Instant Start	Electronic
Universal	B259IUNVHP-A	Instant Start	Electronic
General Electric	GE260IS-MV-N	Instant Start	Electronic
General Electric	GE286MAXP-HO-N	Instant Start	Electronic
Howard Industries	EP2/75IS/MV/SC	Instant Start	Electronic
Howard Industries	E2/75IS-120MC	Instant Start	Electronic
Keystone	LTED-275-1-TP-PIC-SL	Instant Start	Electronic
Philips Advance	VEL-2P75	Instant Start	Electronic
Philips Advance	ICN-2P60-SC	Instant Start	Electronic
Sylvania	QTP 2x96T12/UNV IS	Instant Start	Electronic
Universal	B260I120M-A	Instant Start	Electronic
Universal	B260IUNVHP	Instant Start	Electronic
Howard	M1/75IS-277	Instant Start	Magnetic
Magnetek	827-SLH-TC-P	Instant Start	Magnetic
Philips Advance	V2E-75-S-2-TP	Instant Start	Magnetic
Universal	806-SLH-TC-TP	Instant Start	Magnetic