

Item Number 5233000

LED 14T8/48"/DIM/50 Direct Install

Specifications

- Energy Used (Watts): 14
- Brightness (Lumens): 2200
- Average Rated Hours: 50000
- Color Temperature (Kelvin): 5000
- Beam Spread: 230°
- CRI: 82
- Efficacy (LPW): 157.14
- Estimated Yearly Energy Cost**: \$1.69
- Package Type: Sleeve
- Approved for use in enclosed fixtures

Physical Characteristics

- Color Designation: Daylight
- Finish: Frost
- Housing Material: Glass
- Base: G13 (Medium BiPin)
- MOL: 48.00"
- MOD: 1.02"

Limited Warranty

5 Year

For full warranty information, please follow this link:

www.westinghouselighting.com/pdfs/warranty-cards/ESF-WH-COMMERCIAL.pdf

Warning

- Turn power off before inspection, installation, or removal.
- Risk of electric shock - Do not use where exposed to water or weather.
- Suitable for Damp Locations - The lamp is suitable for use in wet locations when used in an outdoor rated fixture.
- Do not open - no user serviceable parts inside.
- This device is not intended for use with emergency exit luminaires or emergency exit lights.
- This device complies with Part 15 of the FCC rules and has been tested and found to comply with the limits for a Class B digital device. 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 the radio communication. Any changes or modifications not expressly approved by the manufacturer could avoid the user's authority to operate the equipment.
- This lamp may not be compatible with all dimmers.

Specifications are subject to change without notice, please visit www.westinghouselighting.com for latest information.

 and Westinghouse are trademarks of Westinghouse Electric Corporation.
Used under license by Westinghouse Lighting. All Rights Reserved.

** Based on 3hrs./day 11¢/kWh - Cost depends on rates and use.

Item Number **5233000**

Ballast Compatibility

■ Compatible
■ NOT Compatible

Ballast Brand	Ballast Model #	Starting Method	# of Lamps Installed	Ballast Factor	Voltage	Status
ACT	ACT 2P32ISUNVE	INSTANT START	1	N	120/277	Compatible
ACT	ACT 2P32ISUNVE	INSTANT START	2	N	120/277	Compatible
ANTRON ELECTRONICS	A32T8MICLO	INSTANT START	1	L	120/277	Compatible
ANTRON ELECTRONICS	A32T8MICLO	INSTANT START	2	L	120/277	Compatible
ARCATA	ACT 3P32ISUNVLE	INSTANT START	2	L	120/277	Compatible
ARCATA	ACT 3P32ISUNVLE	INSTANT START	3	L	120/277	Compatible
COOPER LIGHTING	CL-432ISUNV-RI-B	INSTANT START	3	H	120/277	Compatible
COOPER LIGHTING	CL-432ISUNV-RI-B	INSTANT START	4	H	120/277	Compatible
DAMAR	EL232-120/277HF(1688B)	INSTANT START	1	N	120/277	Compatible
DAMAR	EL232-120/277HF(1688B)	INSTANT START	2	N	120/277	Compatible
DAMAR	EL232HL-120/277HF(1688D)	INSTANT START	1	H	120/277	Compatible
DAMAR	EL232HL-120/277HF(1688D)	INSTANT START	2	H	120/277	Compatible
DAMAR	EL332-120/277HF(3654C)	INSTANT START	2	N	120/277	Compatible
DAMAR	EL332-120/277HF(3654C)	INSTANT START	3	N	120/277	Compatible
DAMAR	EL332HL-120/277HF(3654H)	INSTANT START	2	H	120/277	Compatible
DAMAR	EL332HL-120/277HF(3654H)	INSTANT START	3	H	120/277	Compatible
DAMAR	EL432-120/277HF(3093B)	INSTANT START	3	N	120/277	Compatible
DAMAR	EL432-120/277HF(3093B)	INSTANT START	4	N	120/277	Compatible
DAMAR	EL432HL-120/277HF(3093C)	INSTANT START	3	H	120/277	Compatible
DAMAR	EL432HL-120/277HF(3093C)	INSTANT START	4	H	120/277	Compatible
EIKO	PM-2X32T8-UNV-IS-L	INSTANT START	1	L	120/277	Compatible
EIKO	PM-2X32T8-UNV-IS-L	INSTANT START	2	L	120/277	Compatible
EIKO	PM-3X32T8-UNV-IS	INSTANT START	2	N	120/277	Compatible
EIKO	PM-3X32T8-UNV-IS	INSTANT START	3	N	120/277	Compatible
EIKO	PM-3X32T8-UNV-IS-H	INSTANT START	2	H	120/277	Compatible
EIKO	PM-3X32T8-UNV-IS-H	INSTANT START	3	H	120/277	Compatible
EIKO	PM-3X32T8-UNV-IS-L	INSTANT START	2	L	120/277	Compatible
EIKO	PM-3X32T8-UNV-IS-L	INSTANT START	3	L	120/277	Compatible
EIKO	PM-4X32T8-UNV-IS	INSTANT START	3	N	120/277	Compatible
EIKO	PM-4X32T8-UNV-IS	INSTANT START	4	N	120/277	Compatible
EIKO	PM-4X32T8-UNV-IS-L	INSTANT START	3	L	120/277	Compatible
EIKO	PM-4X32T8-UNV-IS-L	INSTANT START	4	L	120/277	Compatible
EIKO	PM-2X32T8-UNV-IS	INSTANT START	1	N	120/277	Compatible
EIKO	PM-2X32T8-UNV-IS	INSTANT START	2	N	120/277	Compatible
EIKO	PM-2X32T8-UNV-IS-H	INSTANT START	1	H	120/277	Compatible
EIKO	PM-2X32T8-UNV-IS-H	INSTANT START	2	H	120/277	Compatible
ESPEN	VE232MVHIPE	INSTANT START	1	N	120/277	Compatible
ESPEN	VE232MVHIPE	INSTANT START	2	N	120/277	Compatible
ESPEN	VE232MVHIPHE	INSTANT START	1	H	120/277	Compatible
ESPEN	VE232MVHIPHE	INSTANT START	2	H	120/277	Compatible
ESPEN	VE232MVHIPL	INSTANT START	1	L	120/277	Compatible
ESPEN	VE232MVHIPL	INSTANT START	2	L	120/277	Compatible
GENERAL ELECTRIC	GE-232-MV-N	INSTANT START	1	N	120/277	Compatible
GENERAL ELECTRIC	GE-232-MV-N	INSTANT START	2	N	120/277	Compatible
GENERAL ELECTRIC	GE232MAX-N/ULTRA	INSTANT START	1	N	120/277	Compatible
GENERAL ELECTRIC	GE232MAX-N/ULTRA	INSTANT START	2	N	120/277	Compatible
GENERAL ELECTRIC	GE432MAX-H/ULTRA	INSTANT START	3	H	120/277	Compatible
GENERAL ELECTRIC	GE432MAX-H/ULTRA	INSTANT START	4	H	120/277	Compatible
GENERAL ELECTRIC	GE432MAX-L/ULTRA	INSTANT START	3	L	120/277	Compatible

Ballast Compatibility

Compatible
NOT Compatible

Ballast Brand	Ballast Model #	Starting Method	# of Lamps Installed	Ballast Factor	Voltage	Status
GENERAL ELECTRIC	GE432MAX-L/ULTRA	INSTANT START	4	L	120/277	Compatible
GENERAL ELECTRIC	GE-232-MAX-H/Ultra	INSTANT START	1	H	120/277	NOT Compatible
GENERAL ELECTRIC	GE-232-MAX-H/Ultra	INSTANT START	2	H	120/277	NOT Compatible
GENERAL ELECTRIC	GE432MAX-G-N	INSTANT START	3	N	120/277	Compatible
GENERAL ELECTRIC	GE432MAX-G-N	INSTANT START	4	N	120/277	Compatible
GENERAL ELECTRIC	GE132MAX-G-N	INSTANT START	1	N	120/277	NOT Compatible
GENERAL ELECTRIC	GE132MAX-H/ULTRA	INSTANT START	1	H	120/277	NOT Compatible
GENERAL ELECTRIC	GE132MAX-L/ULTRA	INSTANT START	1	L	120/277	NOT Compatible
GENERAL ELECTRIC	GE132MAXP-N/ULTRA	INSTANT START	1	N	120/277	Compatible
GENERAL ELECTRIC	GE232MV-N-DIY	INSTANT START	1	N	120/277	Compatible
GENERAL ELECTRIC	GE232MV-N-DIY	INSTANT START	2	N	120/277	Compatible
GENERAL ELECTRIC	GE232MAX-L/ULTRA	INSTANT START	1	L	120/277	Compatible
GENERAL ELECTRIC	GE232MAX-L/ULTRA	INSTANT START	2	L	120/277	Compatible
GENERAL ELECTRIC	GE232MAX347-N	INSTANT START	1	H	277	NOT Compatible
GENERAL ELECTRIC	GE232MAX347-N	INSTANT START	2	H	277	NOT Compatible
GENERAL ELECTRIC	GE332MV-N	INSTANT START	2	N	120/277	Compatible
GENERAL ELECTRIC	GE332MV-N	INSTANT START	3	N	120/277	Compatible
GENERAL ELECTRIC	GE332MAX-N/ULTRA	INSTANT START	2	N	120/277	Compatible
GENERAL ELECTRIC	GE332MAX-N/ULTRA	INSTANT START	3	N	120/277	Compatible
GENERAL ELECTRIC	GE332MAX-L/ULTRA	INSTANT START	2	L	120/277	Compatible
GENERAL ELECTRIC	GE332MAX-L/ULTRA	INSTANT START	3	L	120/277	Compatible
GENERAL ELECTRIC	GE332MAX-G-N	INSTANT START	2	N	120/277	Compatible
GENERAL ELECTRIC	GE332MAX-G-N	INSTANT START	3	N	120/277	Compatible
GENERAL ELECTRIC	GE432-120-RES	INSTANT START	3	N	120	Compatible
GENERAL ELECTRIC	GE432-120-RES	INSTANT START	4	N	120	Compatible
GENERAL ELECTRIC	GE432MV-N-42T	INSTANT START	3	N	120/277	Compatible
GENERAL ELECTRIC	GE432MV-N-42T	INSTANT START	4	N	120/277	Compatible
GENERAL ELECTRIC	GE432MAX-N/ULTRA	INSTANT START	3	N	120/277	Compatible
GENERAL ELECTRIC	GE432MAX-N/ULTRA	INSTANT START	4	N	120/277	Compatible
GENERAL ELECTRIC	GE432MAX347-N	INSTANT START	3	N	347	Compatible
GENERAL ELECTRIC	GE432MAX347-N	INSTANT START	4	N	347	Compatible
GENERAL ELECTRIC	GE232MAXP90-V60	INSTANT START	1	H	120/277	Compatible
GENERAL ELECTRIC	GE232MAXP90-V60	INSTANT START	2	H	120/277	Compatible
GENERAL ELECTRIC	GE332MAXP90-V60	INSTANT START	2	H	120/277	Compatible
GENERAL ELECTRIC	GE332MAXP90-V60	INSTANT START	3	H	120/277	Compatible
GENERAL ELECTRIC	GE432MAXP90-S60	INSTANT START	3	H	120/277	Compatible
GENERAL ELECTRIC	GE432MAXP90-S60	INSTANT START	4	H	120/277	Compatible
GENERAL ELECTRIC	GE432MAX-H/ULTRA	INSTANT START	3	H	120/277	Compatible
GENERAL ELECTRIC	GE432MAX-H/ULTRA	INSTANT START	4	H	120/277	Compatible
GENERAL ELECTRIC	GE432MAX90-S60	INSTANT START	3	H	120/277	Compatible
GENERAL ELECTRIC	GE432MAX90-S60	INSTANT START	4	H	120/277	Compatible
GENERAL ELECTRIC	GE332MAXP-L/ULTRA	INSTANT START	2	L	120/277	Compatible
GENERAL ELECTRIC	GE332MAXP-L/ULTRA	INSTANT START	3	L	120/277	Compatible
GENERAL ELECTRIC	GE232MAX-G-N	INSTANT START	1	N	120/277	Compatible
GENERAL ELECTRIC	GE232MAX-G-N	INSTANT START	2	N	120/277	Compatible
GENERAL ELECTRIC	GE-232-MAX-H-42T	INSTANT START	1	H	120/277	NOT Compatible
GENERAL ELECTRIC	GE-232-MAX-H-42T	INSTANT START	2	H	120/277	NOT Compatible
GENERAL ELECTRIC	GE432MAX-H-42T	INSTANT START	3	H	120/277	Compatible
GENERAL ELECTRIC	GE432MAX-H-42T	INSTANT START	4	H	120/277	Compatible

Ballast Compatibility



Ballast Brand	Ballast Model #	Starting Method	# of Lamps Installed	Ballast Factor	Voltage	Status
GENERAL ELECTRIC	332MAX-H-84TS	INSTANT START	2	H	120/277	Compatible
GENERAL ELECTRIC	332MAX-H-84TS	INSTANT START	3	H	120/277	Compatible
GENERAL ELECTRIC	332MAX-H-42T	INSTANT START	2	H	120/277	Compatible
GENERAL ELECTRIC	332MAX-H-42T	INSTANT START	3	H	120/277	Compatible
GENERAL ELECTRIC	GE432MAX-G-H	INSTANT START	3	H	120/277	Compatible
GENERAL ELECTRIC	GE432MAX-G-H	INSTANT START	4	H	120/277	Compatible
GENERAL ELECTRIC	GE232-MVPS-N	PROGRAM START	1	N	120/277	Compatible
GENERAL ELECTRIC	GE232-MVPS-N	PROGRAM START	2	N	120/277	Compatible
GENERAL ELECTRIC	GE-332-MVPS-N	PROGRAM START	2	N	120/277	Compatible
GENERAL ELECTRIC	GE-332-MVPS-N	PROGRAM START	3	N	120/277	Compatible
GENERAL ELECTRIC	GE-232-MV-PS-N	PROGRAM START	1	N	120/277	Compatible
GENERAL ELECTRIC	GE-232-MV-PS-N	PROGRAM START	2	N	120/277	Compatible
HALCO	EP232IS/MV/HE	INSTANT START	1	N	120/277	Compatible
HALCO	EP232IS/MV/HE	INSTANT START	2	N	120/277	Compatible
HALCO	EP332IS/MV/HE	INSTANT START	2	N	120/277	Compatible
HALCO	EP332IS/MV/HE	INSTANT START	3	N	120/277	Compatible
HALCO	EP432IS/MV/HE	INSTANT START	3	N	120/277	Compatible
HALCO	EP432IS/MV/HE	INSTANT START	4	N	120/277	Compatible
HALCO	EP432IS/L/MV/HE	INSTANT START	3	L	120/277	Compatible
HALCO	EP432IS/L/MV/HE	INSTANT START	4	L	120/277	Compatible
HALCO	EP232IS/L/MV/HE	INSTANT START	1	L	120/277	Compatible
HALCO	EP232IS/L/MV/HE	INSTANT START	2	L	120/277	Compatible
HALCO	EP232IS/H/MV/HE	INSTANT START	1	H	120/277	Compatible
HALCO	EP232IS/H/MV/HE	INSTANT START	2	H	120/277	Compatible
HALCO	EP332IS/L/MV/HE	INSTANT START	2	L	120/277	Compatible
HALCO	EP332IS/L/MV/HE	INSTANT START	3	L	120/277	Compatible
HALCO	EP432IS/120/MC	INSTANT START	3	N	120/277	Compatible
HALCO	EP432IS/120/MC	INSTANT START	4	N	120/277	Compatible
HATCH	HL232BIS/UV/HE/W	INSTANT START	1	N	120/277	Compatible
HATCH	HL232BIS/UV/HE/W	INSTANT START	2	N	120/277	Compatible
HATCH	HL432BIS/UV/HE/W	INSTANT START	3	N	120/277	Compatible
HATCH	HL432BIS/UV/HE/W	INSTANT START	4	N	120/277	Compatible
HOWARD INDUSTRIES	EPH4/32IS/MV/SC/HE	INSTANT START	3	H	120/277	Compatible
HOWARD INDUSTRIES	EPH4/32IS/MV/SC/HE	INSTANT START	4	H	120/277	Compatible
HOWARD INDUSTRIES	EP3/32IS/MV/SC/HE	INSTANT START	2	N	120/277	Compatible
HOWARD INDUSTRIES	EP3/32IS/MV/SC/HE	INSTANT START	3	N	120/277	Compatible
HOWARD INDUSTRIES	EPL4/32IS/MV/MC/HE	INSTANT START	3	L	120/277	Compatible
HOWARD INDUSTRIES	EPL4/32IS/MV/MC/HE	INSTANT START	4	L	120/277	Compatible
HOWARD INDUSTRIES	EPH2/32IS/MV/MC/HE	INSTANT START	1	H	120/277	Compatible
HOWARD INDUSTRIES	EPH2/32IS/MV/MC/HE	INSTANT START	2	H	120/277	Compatible
HOWARD INDUSTRIES	E2/32IS-120MC	INSTANT START	1	N	120	Compatible
HOWARD INDUSTRIES	E2/32IS-120MC	INSTANT START	2	N	120	Compatible
HOWARD INDUSTRIES	EPL2/32IS/MV/MC/HE	INSTANT START	1	L	120/277	Compatible
HOWARD INDUSTRIES	EPL2/32IS/MV/MC/HE	INSTANT START	2	L	120/277	Compatible
HOWARD INDUSTRIES	EPL3/32IS/MV/SC/HE	INSTANT START	2	L	120/277	Compatible
HOWARD INDUSTRIES	EPL3/32IS/MV/SC/HE	INSTANT START	3	L	120/277	Compatible
HOWARD INDUSTRIES	EP4/32IS/MV/MC/HE	INSTANT START	3	N	120/277	Compatible
HOWARD INDUSTRIES	EP4/32IS/MV/MC/HE	INSTANT START	4	N	120/277	Compatible



Ballast Compatibility



Ballast Brand	Ballast Model #	Starting Method	# of Lamps Installed	Ballast Factor	Voltage	Status
HOWARD INDUSTRIES	EP2/32IS/MV/MC/HE	INSTANT START	1	N	120/277	Compatible
HOWARD INDUSTRIES	EP2/32IS/MV/MC/HE	INSTANT START	2	N	120/277	Compatible
HOWARD INDUSTRIES	EP3/32IS/MV/MC/HE	INSTANT START	2	N	120/277	Compatible
HOWARD INDUSTRIES	EP3/32IS/MV/MC/HE	INSTANT START	3	N	120/277	Compatible
HOWARD INDUSTRIES	EPH3/32IS/MV/MC/HE	INSTANT START	2	N	120/277	Compatible
HOWARD INDUSTRIES	EPH3/32IS/MV/MC/HE	INSTANT START	3	N	120/277	Compatible
KEYSTONE	KTEB-232-UV-IS-N-P	INSTANT START	1	N	120/277	Compatible
KEYSTONE	KTEB-232-UV-IS-N-P	INSTANT START	2	N	120	Compatible
KEYSTONE	KTEB-232-UV-IS-N-P	INSTANT START	2	N	277	NOT Compatible
KEYSTONE	KTEB-432RIS-1-TP-SL	INSTANT START	3	N	120	Compatible
KEYSTONE	KTEB-432RIS-1-TP-SL	INSTANT START	4	N	120	Compatible
KEYSTONE	KTEB-332-UV-IS-N-P	INSTANT START	2	N	120/277	Compatible
KEYSTONE	KTEB-332-UV-IS-N-P	INSTANT START	3	N	120/277	Compatible
KEYSTONE	KTEB-432-UV-IS-N-P	INSTANT START	3	N	120/277	Compatible
KEYSTONE	KTEB-432-UV-IS-N-P	INSTANT START	4	N	120/277	Compatible
KEYSTONE	KTEB-232LBF-1-TP-PIC-EV	INSTANT START	1	N	120	Compatible
KEYSTONE	KTEB-232LBF-1-TP-PIC-EV	INSTANT START	2	N	120	Compatible
KEYSTONE	KTEB-232-UV-IS-H-P	INSTANT START	1	H	120/277	Compatible
KEYSTONE	KTEB-232-UV-IS-H-P	INSTANT START	2	H	120/277	Compatible
KEYSTONE	KTEB-332-UV-IS-H-P	INSTANT START	2	H	120/277	Compatible
KEYSTONE	KTEB-332-UV-IS-H-P	INSTANT START	3	H	120/277	Compatible
KEYSTONE	KTEB-432-UV-IS-H-P	INSTANT START	3	H	120/277	Compatible
KEYSTONE	KTEB-432-UV-IS-H-P	INSTANT START	4	H	120/277	Compatible
LIGHTING PRODUCTS LIMITED	EB-332EBF-UV-TP-HE	INSTANT START	2	L	120/277	Compatible
LIGHTING PRODUCTS LIMITED	EB-332EBF-UV-TP-HE	INSTANT START	3	L	120/277	Compatible
MAXLITE	SKEU322HEL/SC	INSTANT START	1	L	120/277	Compatible
MAXLITE	SKEU322HEL/SC	INSTANT START	2	L	120/277	Compatible
MAXLITE	SKEU324HE/SC	INSTANT START	3	N	120/277	Compatible
MAXLITE	SKEU324HE/SC	INSTANT START	4	N	120/277	Compatible
MAXLITE	SKEU323L/SC	INSTANT START	2	L	120/277	Compatible
MAXLITE	SKEU323L/SC	INSTANT START	3	L	120/277	Compatible
MAXLITE	MLEU322HEL/SC	INSTANT START	1	N	120/277	Compatible
MAXLITE	MLEU322HEL/SC	INSTANT START	2	N	120/277	Compatible
MAXLITE	MLEU323H/SC	INSTANT START	2	H	120/277	Compatible
MAXLITE	MLEU323H/SC	INSTANT START	3	H	120/277	Compatible
MAXLITE	MLEU324HE/SC	INSTANT START	3	N	120/277	Compatible
MAXLITE	MLEU324HE/SC	INSTANT START	4	N	120/277	Compatible
OSRAM	QHE 2x32T8/347 PSN-SC	PROGRAM RAPID START	1	N	277	Compatible
OSRAM	QHE 2x32T8/347 PSN-SC	PROGRAM RAPID START	2	N	277	Compatible
OSRAM SYLVANIA	QTP 2X32T8/UNV ISN-SC	INSTANT START	1	N	120/277	Compatible
OSRAM SYLVANIA	QTP 2X32T8/UNV ISN-SC	INSTANT START	2	N	120/277	Compatible
OSRAM SYLVANIA	QHE 2X32T8/UNV ISN-SC	INSTANT START	1	N	120/277	Compatible
OSRAM SYLVANIA	QHE 2X32T8/UNV ISN-SC	INSTANT START	2	N	120/277	Compatible
OSRAM SYLVANIA	QHE 2X32T8/UNV ISL-SC	INSTANT START	1	L	120/277	Compatible
OSRAM SYLVANIA	QHE 2X32T8/UNV ISL-SC	INSTANT START	2	L	120/277	Compatible
OSRAM SYLVANIA	QHE 4X32T8/UNV ISN-SC	INSTANT START	3	N	120/277	Compatible
OSRAM SYLVANIA	QHE 4X32T8/UNV ISN-SC	INSTANT START	4	N	120/277	Compatible
OSRAM SYLVANIA	QHE 4X32T8/UNV ISL-SC	INSTANT START	3	L	120/277	Compatible
OSRAM SYLVANIA	QHE 4X32T8/UNV ISL-SC	INSTANT START	4	L	120/277	Compatible



Ballast Compatibility

	Compatible
	NOT Compatible

Ballast Brand	Ballast Model #	Starting Method	# of Lamps Installed	Ballast Factor	Voltage	Status
OSRAM SYLVANIA	QHE 1X32T8/UNV ISN-SC	INSTANT START	1	N	120/277	
OSRAM SYLVANIA	QHE 1X32T8/UNV ISL-SC	INSTANT START	1	L	120/277	
OSRAM SYLVANIA	QHE 2X32T8/UNV ISH-SC	INSTANT START	1	H	120/277	
OSRAM SYLVANIA	QHE 2X32T8/UNV ISH-SC	INSTANT START	2	H	120/277	
OSRAM SYLVANIA	QTP 3X32T8/UNV ISN-SC	INSTANT START	2	N	120/277	
OSRAM SYLVANIA	QTP 3X32T8/UNV ISN-SC	INSTANT START	3	N	120/277	
OSRAM SYLVANIA	QHE 3X32T8/UNV ISN-SC	INSTANT START	3	N	120/277	
OSRAM SYLVANIA	QHE 3X32T8/UNV ISN-SC	INSTANT START	4	N	120/277	
OSRAM SYLVANIA	QHE 3X32T8/UNV ISL-SC	INSTANT START	2	L	120/277	
OSRAM SYLVANIA	QHE 3X32T8/UNV ISL-SC	INSTANT START	3	L	120/277	
OSRAM SYLVANIA	QTP2x32T8/277 ISN-D	INSTANT START	1	L	277	
OSRAM SYLVANIA	QTP2x32T8/277 ISN-D	INSTANT START	2	L	277	
OSRAM SYLVANIA	QHE 3x32T8/UNV ISH HT-SC	INSTANT START	2	H	120/277	
OSRAM SYLVANIA	QHE 3x32T8/UNV ISH HT-SC	INSTANT START	3	H	120/277	
OSRAM SYLVANIA	QTP 2X32T8/UNV ISL-SC	INSTANT START	1	L	120/277	
OSRAM SYLVANIA	QTP 2X32T8/UNV ISL-SC	INSTANT START	2	L	120/277	
OSRAM SYLVANIA	QHE 2X32T8/UNV ISH HT-SC	INSTANT START	1	H	120/277	
OSRAM SYLVANIA	QHE 2X32T8/UNV ISH HT-SC	INSTANT START	2	H	120/277	
OSRAM SYLVANIA	QHE 4x32T8/UNV ISH-SC	INSTANT START	3	H	120/277	
OSRAM SYLVANIA	QHE 4x32T8/UNV ISH-SC	INSTANT START	4	H	120/277	
OSRAM SYLVANIA	QT 2x32/347 ISH-SC	INSTANT START	1	H	347	
OSRAM SYLVANIA	QT 2x32/347 ISH-SC	INSTANT START	2	H	347	
OSRAM SYLVANIA	QHE 1X32T8/UNV ISH-SC	INSTANT START	1	L	120/277	
OSRAM SYLVANIA	QHE 2X32T8/UNV PSN-MC	PROGRAM RAPID START	1	N	120/277	
OSRAM SYLVANIA	QHE 2X32T8/UNV PSN-MC	PROGRAM RAPID START	2	N	120/277	
OSRAM SYLVANIA	QHE 3X32T8/UNV PSN-SC	PROGRAM RAPID START	2	N	120/277	
OSRAM SYLVANIA	QHE 3X32T8/UNV PSN-SC	PROGRAM RAPID START	3	N	120/277	
OSRAM SYLVANIA	QHE 4X32T8/UNV PSN-SC	PROGRAM RAPID START	3	N	120/277	
OSRAM SYLVANIA	QHE 4X32T8/UNV PSN-SC	PROGRAM RAPID START	4	N	120/277	
PACIFIC FLOURESCENT	EB-232IS-120-RES	INSTANT START	1	N	120	
PACIFIC FLOURESCENT	EB-232IS-120-RES	INSTANT START	2	N	120	
PHILIPS-ADVANCE	ICN-2P32-N	INSTANT START	1	N	120/277	
PHILIPS-ADVANCE	ICN-2P32-N	INSTANT START	2	N	120/277	
PHILIPS-ADVANCE	IOP-2P32-N	INSTANT START	1	N	120/277	
PHILIPS-ADVANCE	IOP-2P32-N	INSTANT START	2	N	120/277	
PHILIPS-ADVANCE	IOP-2P32-LW-N	INSTANT START	1	L	120/277	
PHILIPS-ADVANCE	IOP-2P32-LW-N	INSTANT START	2	L	120/277	
PHILIPS-ADVANCE	IOPA-3P32-LW-N	INSTANT START	2	L	120/277	
PHILIPS-ADVANCE	IOPA-3P32-LW-N	INSTANT START	3	L	120/277	
PHILIPS-ADVANCE	IOPA-4P32-N	INSTANT START	3	N	120/277	
PHILIPS-ADVANCE	IOPA-4P32-N	INSTANT START	4	N	120/277	
PHILIPS-ADVANCE	IOPA-4P32-HL-SC	INSTANT START	3	H	120/277	
PHILIPS-ADVANCE	IOPA-4P32-HL-SC	INSTANT START	4	H	120/277	
PHILIPS-ADVANCE	IOP-4P32-N	INSTANT START	3	N	120/277	
PHILIPS-ADVANCE	IOP-4P32-N	INSTANT START	4	N	120/277	
PHILIPS-ADVANCE	IOP-4P32-LW-N	INSTANT START	3	L	120/277	
PHILIPS-ADVANCE	IOP-4P32-LW-N	INSTANT START	4	L	120/277	
PHILIPS-ADVANCE	ICN-4P32-N	INSTANT START	3	N	120/277	
PHILIPS-ADVANCE	ICN-4P32-N	INSTANT START	4	N	120/277	

Ballast Compatibility



Ballast Brand	Ballast Model #	Starting Method	# of Lamps Installed	Ballast Factor	Voltage	Status
PHILIPS-ADVANCE	IOP-1P32-N	INSTANT START	1	N	120/277	Compatible
PHILIPS-ADVANCE	IOP-2P32HL-SC	INSTANT START	1	H	120/277	NOT Compatible
PHILIPS-ADVANCE	IOP-2P32HL-SC	INSTANT START	2	H	120/277	NOT Compatible
PHILIPS-ADVANCE	ICN-1P32-N	INSTANT START	1	N	120/277	NOT Compatible
PHILIPS-ADVANCE	IOPA-1P32-N	INSTANT START	1	N	120/277	NOT Compatible
PHILIPS-ADVANCE	IOPA-3P32-N	INSTANT START	2	N	120/277	NOT Compatible
PHILIPS-ADVANCE	IOPA-3P32-N	INSTANT START	3	N	120/277	NOT Compatible
PHILIPS-ADVANCE	IOP-3P32-N	INSTANT START	2	N	120/277	NOT Compatible
PHILIPS-ADVANCE	IOP-3P32-N	INSTANT START	3	N	120/277	NOT Compatible
PHILIPS-ADVANCE	REB-4P32-SC	INSTANT START	3	N	120	Compatible
PHILIPS-ADVANCE	REB-4P32-SC	INSTANT START	4	N	120	Compatible
PHILIPS-ADVANCE	IOP-4P32-HL-SC	INSTANT START	3	H	120/277	NOT Compatible
PHILIPS-ADVANCE	IOP-4P32-HL-SC	INSTANT START	4	H	120/277	NOT Compatible
PHILIPS-ADVANCE	ICN-3P32-N	INSTANT START	2	N	120/277	NOT Compatible
PHILIPS-ADVANCE	ICN-3P32-N	INSTANT START	3	N	120/277	NOT Compatible
PHILIPS-ADVANCE	VEL-2P32-SC	INSTANT START	1	N	277	Compatible
PHILIPS-ADVANCE	VEL-2P32-SC	INSTANT START	2	N	277	Compatible
PHILIPS-ADVANCE	IOPA-2P32-HL-N	INSTANT START	1	H	120/277	NOT Compatible
PHILIPS-ADVANCE	IOPA-2P32-HL-N	INSTANT START	2	H	120/277	NOT Compatible
PHILIPS-ADVANCE	IOP-3P32HL-90C-SC	INSTANT START	2	H	120/277	NOT Compatible
PHILIPS-ADVANCE	IOP-3P32HL-90C-SC	INSTANT START	3	H	120/277	NOT Compatible
PHILIPS-ADVANCE	IOP-4P32-SC	INSTANT START	3	N	120/277	NOT Compatible
PHILIPS-ADVANCE	IOP-4P32-SC	INSTANT START	4	N	120/277	NOT Compatible
PHILIPS-ADVANCE	IOPA-4P32-SC	INSTANT START	3	N	120/277	Compatible
PHILIPS-ADVANCE	IOPA-4P32-SC	INSTANT START	4	N	120/277	Compatible
PHILIPS-ADVANCE	ICN-132-MC	INSTANT START	1	N	120/277	Compatible
PHILIPS-ADVANCE	ICN-3P32-SC	INSTANT START	2	N	120/277	Compatible
PHILIPS-ADVANCE	ICN-3P32-SC	INSTANT START	3	N	120/277	Compatible
PHILIPS-ADVANCE	VEL-3P32-SC	INSTANT START	2	N	120/277	Compatible
PHILIPS-ADVANCE	VEL-3P32-SC	INSTANT START	3	N	120/277	Compatible
PHILIPS-ADVANCE	IOPA-4P32-HL	INSTANT START	3	H	120/277	Compatible
PHILIPS-ADVANCE	IOPA-4P32-HL	INSTANT START	4	H	120/277	Compatible
PHILIPS-ADVANCE	IOP-3PSP32-SC	PROGRAM START	2	N	120/277	Compatible
PHILIPS-ADVANCE	IOP-3PSP32-SC	PROGRAM START	3	N	120/277	Compatible
PHILIPS-ADVANCE	IOP-4PSP32-SC	PROGRAM START	3	N	120/277	Compatible
PHILIPS-ADVANCE	IOP-4PSP32-SC	PROGRAM START	4	N	120/277	Compatible
PHILIPS-ADVANCE	IOP-4PSP32-LW-SC	PROGRAM START	3	L	120/277	Compatible
PHILIPS-ADVANCE	IOP-4PSP32-LW-SC	PROGRAM START	4	L	120/277	Compatible
PLUSRITE	BAF232IS/MV	INSTANT START	1	N	120/277	Compatible
PLUSRITE	BAF232IS/MV	INSTANT START	2	N	120/277	Compatible
PLUSRITE	BAF332IS/MV	INSTANT START	2	N	120/277	Compatible
PLUSRITE	BAF332IS/MV	INSTANT START	3	N	120/277	Compatible
PLUSRITE	BAF332IS/MV/L	INSTANT START	2	L	120/277	Compatible
PLUSRITE	BAF332IS/MV/L	INSTANT START	3	L	120/277	Compatible
PLUSRITE	BAF432IS/MV	INSTANT START	3	N	120/277	Compatible
PLUSRITE	BAF432IS/MV	INSTANT START	4	N	120/277	Compatible
PLUSRITE	BAF432IS/MV/L	INSTANT START	3	L	120/277	Compatible
PLUSRITE	BAF432IS/MV/L	INSTANT START	4	L	120/277	Compatible
PROLUME	EP232IS/L/MV/SL	INSTANT START	1	L	120/277	Compatible

Ballast Compatibility

Compatible
NOT Compatible

Ballast Brand	Ballast Model #	Starting Method	# of Lamps Installed	Ballast Factor	Voltage	Status
PROLUME	EP232IS/L/MV/SL	INSTANT START	2	L	120/277	Compatible
PROLUME	E432IS/120/R/SL	INSTANT START	3	N	120	Compatible
PROLUME	E432IS/120/R/SL	INSTANT START	4	N	120	Compatible
SOLA	E-758-U-232-MC	INSTANT START	1	N	120/277	Compatible
SOLA	E-758-U-232-MC	INSTANT START	2	N	120/277	Compatible
SUNPARK	120-1/32IS HPF	INSTANT START	1	N	120	Compatible
SUNPARK	U-2/32ISE-LBF	INSTANT START	1	I	120/277	Compatible
SUNPARK	U-2/32ISE-LBF	INSTANT START	2	L	120/277	Compatible
SUNPARK	U-3/32ISE	INSTANT START	2	N	120/277	Compatible
SUNPARK	U-3/32ISE	INSTANT START	3	N	120/277	Compatible
SUNPARK	U-3/32ISE-HBF	INSTANT START	2	H	120/277	Compatible
SUNPARK	U-3/32ISE-HBF	INSTANT START	3	H	120/277	Compatible
SUNPARK	120-3/32IS MPF	INSTANT START	2	N	120	Compatible
SUNPARK	120-3/32IS MPF	INSTANT START	3	N	120	Compatible
SUNPARK	U-4/32IS HP,F	INSTANT START	3	N	120/277	Compatible
SUNPARK	U-4/32IS HP,F	INSTANT START	4	N	120/277	Compatible
SUNPARK	U-4/32IS HBF	INSTANT START	3	H	120/277	Compatible
SUNPARK	U-4/32IS HBF	INSTANT START	4	H	120/277	Compatible
SUNPARK	U-4/32ISE-LBF	INSTANT START	3	L	120/277	Compatible
SUNPARK	U-4/32ISE-LBF	INSTANT START	4	L	120/277	Compatible
SUNPARK	SL15T	PROGRAM START	1	N	120	NOT Compatible
SUNPARK	SL15T	PROGRAM START	2	N	120	NOT Compatible
SUPERIOR LIFE	70201	INSTANT START	1	N	120/277	NOT Compatible
SUPERIOR LIFE	70201	INSTANT START	2	N	120/277	Compatible
SYLVANIA	QT 3x32/277 IS	INSTANT START	2		120/277	Compatible
SYLVANIA	QT 3x32/277 IS	INSTANT START	3		120/277	Compatible
TCP	E4P32ISUNVLE	INSTANT START	3	L	120/277	NOT Compatible
TCP	E4P32ISUNVLE	INSTANT START	4	L	120/277	NOT Compatible
TCP	E3P32ISUNVE	INSTANT START	2	N	120/277	Compatible
TCP	E3P32ISUNVE	INSTANT START	3	N	120/277	Compatible
TCP	E3P32ISUNVLE	INSTANT START	2	L	120/277	NOT Compatible
TCP	E3P32ISUNVLE	INSTANT START	3	L	120/277	Compatible
TCP	E4P32ISUNVE	INSTANT START	3	N	120/277	Compatible
TCP	E4P32ISUNVE	INSTANT START	4	N	120/277	Compatible
TCP	E4P32ISUNVHE	INSTANT START	3	N	120/277	Compatible
TCP	E4P32ISUNVHE	INSTANT START	4	N	120/277	Compatible
TCP	TCP3P32ISUNVH	INSTANT START	2	H	120/277	NOT Compatible
TCP	TCP3P32ISUNVH	INSTANT START	3	H	120/277	NOT Compatible
TCP	E3P32ISUNVHE	INSTANT START	2	H	120/277	NOT Compatible
TCP	E3P32ISUNVHE	INSTANT START	3	H	120/277	NOT Compatible
TOPAZ	B232IUNVHEH/A-TPZ	INSTANT START	1	H	120/277	Compatible
TOPAZ	B232IUNVHEH/A-TPZ	INSTANT START	2	H	120/277	Compatible
TOPAZ	B432IUNVHEH/A-TPZ	INSTANT START	3	H	120/277	Compatible
TOPAZ	B432IUNVHEH/A-TPZ	INSTANT START	4	H	120/277	Compatible
UNIVERSAL LIGHTING TECHNOLOGIES	B232IUNVHP-N	INSTANT START	1	N	120/277	Compatible
UNIVERSAL LIGHTING TECHNOLOGIES	B232IUNVHP-N	INSTANT START	2	N	120/277	Compatible
UNIVERSAL LIGHTING TECHNOLOGIES	B232IUNVEL-A	INSTANT START	1	L	120/277	Compatible
UNIVERSAL LIGHTING TECHNOLOGIES	B232IUNVEL-A	INSTANT START	2	L	120/277	Compatible
UNIVERSAL LIGHTING TECHNOLOGIES	B233IUNVHE-A	INSTANT START	1	N	120/277	Compatible

Ballast Compatibility

Compatible
NOT Compatible

Ballast Brand	Ballast Model #	Starting Method	# of Lamps Installed	Ballast Factor	Voltage	Status
UNIVERSAL LIGHTING TECHNOLOGIES	B233IUNVHE-A	INSTANT START	2	N	120/277	Compatible
UNIVERSAL LIGHTING TECHNOLOGIES	B432IUNVHE L-A	INSTANT START	3	L	120/277	Compatible
UNIVERSAL LIGHTING TECHNOLOGIES	B432IUNVHE L-A	INSTANT START	4	L	120/277	Compatible
UNIVERSAL LIGHTING TECHNOLOGIES	B232IUNVHEH-A	INSTANT START	1	N	120/277	Compatible
UNIVERSAL LIGHTING TECHNOLOGIES	B232IUNVHEH-A	INSTANT START	2	N	120/277	Compatible
UNIVERSAL LIGHTING TECHNOLOGIES	B332IUNVHP-A	INSTANT START	2	N	120/277	Compatible
UNIVERSAL LIGHTING TECHNOLOGIES	B332IUNVHP-A	INSTANT START	3	N	120/277	Compatible
UNIVERSAL LIGHTING TECHNOLOGIES	B432IUNVHP-A	INSTANT START	3	N	120/277	Compatible
UNIVERSAL LIGHTING TECHNOLOGIES	B432IUNVHP-A	INSTANT START	4	N	120/277	Compatible
UNIVERSAL LIGHTING TECHNOLOGIES	B232I120RES-A	INSTANT START	1	N	120	Compatible
UNIVERSAL LIGHTING TECHNOLOGIES	B232I120RES-A	INSTANT START	2	N	120	Compatible
UNIVERSAL LIGHTING TECHNOLOGIES	B132IUNVHP-N	INSTANT START	1	N	120/277	Compatible
UNIVERSAL LIGHTING TECHNOLOGIES	B232IUNVHP-B	INSTANT START	1	N	120/277	Compatible
UNIVERSAL LIGHTING TECHNOLOGIES	B232IUNVHP-B	INSTANT START	2	N	120/277	Compatible
UNIVERSAL LIGHTING TECHNOLOGIES	B232IUNV-C	INSTANT START	1	N	120/277	Compatible
UNIVERSAL LIGHTING TECHNOLOGIES	B232IUNV-C	INSTANT START	2	N	120/277	Compatible
UNIVERSAL LIGHTING TECHNOLOGIES	B432IUNVHE-A	INSTANT START	3	N	120/277	Compatible
UNIVERSAL LIGHTING TECHNOLOGIES	B432IUNVHE-A	INSTANT START	4	N	120/277	Compatible
UNIVERSAL LIGHTING TECHNOLOGIES	B432IUNVHEH-E	INSTANT START	3	H	120/277	Compatible
UNIVERSAL LIGHTING TECHNOLOGIES	B432IUNVHEH-E	INSTANT START	4	H	120/277	Compatible
UNIVERSAL LIGHTING TECHNOLOGIES	B232I277RH-A	INSTANT START	3	H	277	Compatible
UNIVERSAL LIGHTING TECHNOLOGIES	B232I277RH-A	INSTANT START	4	H	277	Compatible
UNIVERSAL LIGHTING TECHNOLOGIES	B332IHRVHB-E	INSTANT START	2	H	120/277	NOT Compatible
UNIVERSAL LIGHTING TECHNOLOGIES	B332IHRVHB-E	INSTANT START	3	H	120/277	NOT Compatible
UNIVERSAL LIGHTING TECHNOLOGIES	B432PUNVHE-A	PROGRAM START	3	N	120/277	Compatible
UNIVERSAL LIGHTING TECHNOLOGIES	B432PUNVHE-A	PROGRAM START	4	N	120/277	Compatible
UNIVERSAL LIGHTING TECHNOLOGIES	B232PUNVHE-B	PROGRAM START	1	N	120/277	Compatible
UNIVERSAL LIGHTING TECHNOLOGIES	B232PUNVHE-B	PROGRAM START	2	N	120/277	NOT Compatible
WATRAM	DB-232N-MV-TP-HE	INSTANT START	1	N	120/277	NOT Compatible
WATRAM	DB-232N-MV-TP-HE	INSTANT START	2	N	120/277	Compatible
WATRAM	DB-332N-MV-TP-HE	INSTANT START	2	N	120/277	Compatible
WATRAM	DB-332N-MV-TP-HE	INSTANT START	3	N	120/277	Compatible
WATRAM	DB-432N-MV-TP-HE	INSTANT START	3	N	120/277	Compatible
WATRAM	DB-432N-MV-TP-HE	INSTANT START	4	N	120/277	Compatible
WATRAM	DB-432L-MV-TP-HE	INSTANT START	3	L	120/277	Compatible
WATRAM	DB-432L-MV-TP-HE	INSTANT START	4	L	120/277	Compatible
WATRAM	DB-232N-MV-TP-HE-SC	INSTANT START	1	N	120/277	Compatible
WATRAM	DB-232N-MV-TP-HE-SC	INSTANT START	2	N	120/277	Compatible
WATRAM	DBG32N-MV-TP-PS-HL	PROGRAM START	2	H	120/277	NOT Compatible
WATRAM	DBG32N-MV-TP-PS-HL	PROGRAM START	3	H	120/277	NOT Compatible
WORK HORSE	WHS3G3-UNV-T8-IS	INSTANT START	2	N	120/277	Compatible
WORK HORSE	WHS3G3-UNV-T8-IS	INSTANT START	3	N	120/277	Compatible
WORK HORSE	WHS4G4-UNV-T8-IS	INSTANT START	3	N	120/277	Compatible
WORK HORSE	WHS4G4-UNV-T8-IS	INSTANT START	4	N	120/277	Compatible

Emergency Ballast



Ballast Brand	Ballast Model #	Starting Method	# of Lamps	Status
BODINE	B50	AC	1	Compatible
ESPEN	VEM500DV(L)	AC	1	Compatible
ESPEN	VEM1300DV(L)	AC	1	Compatible
EXITRONIX	XEB-7-B-LM	AC	1	Compatible
KEYSTONE	KT-EMRG-1300-T5	AC	1	Compatible
TAMLITE	BAL1400LPACTD	AC	1	Compatible

Dimming Ballast

Ballast Brand	Ballast Model #	Starting Method	# of Lamps	Ballast Factor	Status
General Electric	GE132MVPSN-VO3	PROGRAM START	1	N	Compatible
KEYSTONE	KTLD-2T8LED-UV-IS-VDIM	PROGRAM START	1	N	Compatible
KEYSTONE	KTLD-2T8LED-UV-IS-VDIM	PROGRAM START	2	N	Compatible