

LED T8 SUPER HYBRID - 12W / 15W

ITEM# 90403 / 90404 / 91508 - INSTALLED AS DIRECT REPLACEMENTS



BALLAST COMPATIBILITY

BRAND	MODEL	Start Method	# of Lamps	Ballast Factor		Lamp Connection	Enclosed Fixture	1 Lamp Load			2+ Lamp Load		
				Type	Value			120V	277V	347V	120V	277V	347V
ACT	ACT 2P32ISUNVE	IS	2	N	0.89	Parallel	Yes	✓	✓	--	✓	✓	--
ANTRON	A32T8MICLO	IS	2	L	0.78	Parallel	Yes	✓	✓	--	✓	✓	--
ARCATA	ACT 3P32ISUNVLE	IS	3	L	0.78	Parallel	Yes	✓	✓	--	✓	✓	--
COOPER LIGHTING	CL-432ISUNV-R1-B	IS	4	N	0.88	Parallel	No	✓	✓	--	✓	✓	--
DAMAR	EL232-120/277HF(1688B)	IS	2	N	/	Parallel	No	✓	✓	--	✓	✓	--
	EL232DIM/120/277HF	DPS	2	L	/	Series	Yes	X	X	--	X	X	--
	EL232HL-120/277HF(1688D)	IS	2	H	/	Parallel	No	X	X	--	✓	✓	--
	EL332-120/277HF(3654C)	IS	3	N	/	Parallel	No	✓	✓	--	✓	✓	--
	EL332HL-120/277HF(3654H)	IS	3	H	/	Parallel	No	X	X	--	✓	P	--
	EL432-120/277HF(3093B)	IS	4	N	/	Parallel	No	✓	✓	--	✓	✓	--
	EL432HL-120/277HF(3093C)	IS	4	H	/	Parallel	No	X	X	--	✓	✓	--
ECOSYSTEM	EC5T832GUNV3L	PRS	3			Parallel		X	X	--	X	X	--
EIKO	PM-2x32T8-UNV-IS-H	IS	2	H	1.18	Parallel	No	X	X	--	✓	✓	--
	PM-2X32T8-UNV-IS	IS	2	N	0.87	Parallel	Yes	✓	✓	--	✓	✓	--
	PM-2X32T8-UNV-IS-L	IS	2	L	0.77	Parallel	Yes	✓	✓	--	✓	✓	--
	PM-3x32T8-UNV-PS	PS	3	N	0.88	Series	No	X	X	--	X	X	--
	PM-3x32T8-UNV-PS-H	PS	3	H	1.18	Series	No	X	X	--	X	X	--
	PM-3X32T8-UNV-IS	IS	3	N	0.87	Parallel	Yes	✓	✓	--	✓	✓	--
	PM-3X32T8-UNV-IS-H	IS	3	H	1.18	Parallel	No	X	X	--	X	X	--
	PM-3X32T8-UNV-IS-L	IS	3	L	0.78	Parallel	Yes	✓	✓	--	✓	✓	--
	PM-4X32T8-UNV-IS	IS	4	N	0.88	Parallel	Yes	✓	✓	--	✓	✓	--
	PM-4X32T8-UNV-IS-L	IS	4	L	0.78	Parallel	Yes	✓	✓	--	✓	✓	--
ESPEN	VE232MVHIPE	IS	2	N	0.89	Parallel	Yes	✓	✓	--	✓	✓	--
	VE232MVHIPHE	IS	2	H	1.19	Parallel	No	X	X	--	✓	✓	--
	VE232MVHIPLE	IS	2	L	0.77	Parallel	Yes	✓	✓	--	✓	✓	--
	VE2P32MVHIPE	IS	2	N	0.89	Parallel	Yes	✓	✓	--	✓	✓	--
	VE4P32MVHIPE	IS	4			Parallel	Yes	✓	✓	--	✓	✓	--
FUSION	FB232347E-N	IS	2	N	0.88	Parallel	Yes	--	--	✓	--	--	✓
	FB232MVE-N	IS	2	N	0.88	Parallel	Yes	✓	✓	--	✓	✓	--
	FB432347E-N	IS	4	N	0.88	Parallel	Yes	--	--	✓	--	--	✓
	FB432MVE-N	IS	4	N	0.88	Parallel	Yes	✓	✓	--	✓	✓	--
GE	332MAX-H-42T	IS	3	H	/	Parallel	No	X	X	--	X	X	--
	332MAX-H-84TS	IS	3	H	/	Parallel	No	X	X	--	X	X	--
	GE-232-MAX-H-42T	IS	2	H	/	Parallel	No	X	X	--	X	X	--
	GE-232-MAX-H/Ultra	IS	2	H	1.15	Parallel	No	X	X	--	X	X	--
	GE-232-MV-N	IS	2	N	0.88	Parallel	Yes	✓	✓	--	✓	✓	--
	GE-232-MV-PS-N	PS	2	N	0.88	Parallel	No	✓	✓	--	✓	✓	--
	GE-332-MVPS-H	PS	3	H		Parallel		X	X	--	X	X	--
	GE132MAX-G-N	IS	1	N	0.88	--	Yes	--	--	--	X	X	--
	GE132MAX-H/ULTRA	IS	1	H	1.18	--	No	--	--	--	X	X	--
	GE132MAX-L/ULTRA	IS	1	L	0.78	--	Yes	--	--	--	X	X	--
	GE132MAXP-N/ULTRA	IS	1	N	0.88	--	Yes	--	--	--	✓	✓	--
	GE132MVPSN-V03	DPS	1	N	0.88	--	Yes	X	X	--	X	X	--
	GE232-MVPS-N	PS	2	N	0.88	Parallel	No	✓	✓	--	✓	✓	--
	GE232MAX-G-N	IS	2	N	0.88	Parallel	Yes	✓	✓	--	✓	✓	--
	GE232MAX-L/ULTRA	IS	2	L	0.78	Parallel	No	X	X	--	X	X	--
	GE232MAX-N/ULTRA	IS	2	N	0.88	Parallel	Yes	✓	✓	--	✓	✓	--
	GE232MAX347-N	IS	2	H	1.02	Parallel	No	--	--	X	--	--	X
	GE232MAXP90-V60	IS	2	H	1.18	Parallel	No	X	X	--	✓	✓	--
	GE232MV-N-DIY	IS	2	N	0.88	Parallel	Yes	✓	✓	--	✓	✓	--
	GE332MAX-G-N	IS	3	N	0.87	Parallel	Yes	✓	✓	--	✓	✓	--
	GE332MAX-L/ULTRA	IS	3	L	0.78	Parallel	Yes	✓	✓	--	✓	✓	--
	GE332MAX-N/ULTRA	IS	3	N	0.88	Parallel	Yes	✓	P	--	✓	P	--
	GE332MAXP-H/ULTRA	IS	3	H	1.18	Parallel	No	X	X	--	X	X	--
	GE332MAXP-L/ULTRA	IS	3	L	0.77	Parallel	Yes	✓	✓	--	✓	✓	--

KEY					
✓	Compatible	X	Not Compatible	P	PF < 0.85
--	Not Applicable	/	Not Tested	T	THD > 30%

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BALLAST COMPATIBILITY

BRAND	MODEL	Start Method	# of Lamps	Ballast Factor		Lamp Connection	Enclosed Fixture	1 Lamp Load			2+ Lamp Load		
				Type	Value			120V	277V	347V	120V	277V	347V
GE	GE332MAXP90-V60	IS	3	H	1.18	Parallel	No	X	X	--	✓	✓	--
	GE332MV-H	IS	4	/	/	Parallel	No	X	X	--	✓	✓	--
	GE332MV-N	IS	3	N	0.87	Parallel	Yes	✓	P	--	✓	P	--
	GE432-120-RES	IS	4	N	0.83	Parallel	Yes	✓	--	--	✓	--	--
	GE432MAX-G-H	IS	4	H	1.18	Parallel	No	X	X	--	X	X	--
	GE432MAX-G-N	IS	4	N	0.88	Parallel	Yes	✓	✓	--	✓	✓	--
	GE432MAX-H-42T	IS	4	H	/	Parallel	No	X	X	--	X	X	--
	GE432MAX-H/ULTRA	IS	4	H	1.18	Parallel	No	X	X	--	✓	✓	--
	GE432MAX-L/ULTRA	IS	4	L	0.78	Parallel	Yes	✓	✓	--	✓	✓	--
	GE432MAX-N/ULTRA	IS	4	N	0.88	Parallel	Yes	✓	✓	--	✓	✓	--
	GE432MAX347-N	IS	4	N	0.94	Parallel	Yes	--	--	✓	--	--	✓
	GE432MAX90-S60	IS	4	H	1.18	Parallel	No	X	X	--	✓	✓	--
	GE432MAXP-H-42T	IS	4			Parallel	Yes	✓	✓	--	✓	✓	--
	GE432MAXP-H/ULTRA	IS	4	H	1.18	Parallel	No	✓	✓	--	✓	✓	--
	GE432MAXP90-S60	IS	4	H	1.18	Parallel	No	X	X	--	✓	✓	--
GE432MV-N-42T	IS	4	N	0.93	Parallel	No	X	X	--	X	X	--	
GE432MVPS-N-V03	DPS	4	N	0.9	Parallel	Yes	X	X	--	X	X	--	
HALCO	EP232IS/H/MV/HE	IS	2	H	1.18	Parallel	No	X	X	--	X	X	--
	EP232IS/L/MV/HE	IS	2	L	0.78	Parallel	Yes	✓	✓	--	✓	✓	--
	EP232IS/MV/HE	IS	2	N	0.88	Parallel	Yes	✓	✓	--	✓	✓	--
	EP332IS/L/MV/HE	IS	3	L	0.78	Parallel	Yes	X	X	--	X	X	--
	EP332IS/MV/HE	IS	3	N	0.87	Parallel	Yes	✓	✓	--	✓	✓	--
	EP432IS/120/MC	IS	4	N	0.88	Parallel	Yes	X	X	--	X	X	--
	EP432IS/L/MV/HE	IS	4	L	0.78	Parallel	Yes	✓	✓	--	✓	✓	--
	EP432IS/MV/HE	IS	4	N	0.88	Parallel	Yes	✓	✓	--	✓	✓	--
HATCH	HL232BIS/UV/HE/W	IS	2	N	0.9	Parallel	Yes	✓	✓	--	✓	✓	--
	HL432BIS/UV/HE/W	IS	4	N	0.9	Parallel	Yes	✓	P	--	✓	✓	--
HOWARD INDUSTRIES	E2/32IS-120MC	IS	2	N	0.85	Parallel	Yes	P,T	--	--	P,T	--	--
	EP2/32IS/MV/MC/HE	IS	2	N	0.89	Parallel	Yes	✓	✓	--	✓	✓	--
	EP3/32IS/MV/MC/HE	IS	3	N	0.88	Parallel	Yes	✓	✓	--	✓	✓	--
	EP3/32IS/MV/SC/HE	IS	3	N	0.87	Parallel	Yes	✓	✓	--	✓	✓	--
	EP4/32IS/MV/MC/HE	IS	4	N	0.88	Parallel	Yes	✓	✓	--	✓	✓	--
	EPH2/32IS/MV/MC/HE	IS	2	H	1.18	Parallel	No	X	X	--	X	X	--
	EPH3/32IS/MV/MC/HE	IS	3	N	0.91	Parallel	Yes	X	X	--	X	X	--
	EPH4/32IS/MV/SC/HE	IS	4	H	1.16	Parallel	No	X	X	--	X	X	--
	EPL2/32IS/MV/MC/HE	IS	2	L	0.78	Parallel	Yes	✓	P,T	--	✓	✓	--
	EPL3/32IS/MV/SC/HE	IS	3	L	0.78	Parallel	Yes	✓	✓	--	✓	✓	--
EPL4/32IS/MV/MC/HE	IS	4	L	0.77	Parallel	Yes	✓	✓	--	✓	✓	--	
KEYSTONE	KTEB-232-UV-IS-H-P	IS	2	H	1.18	Parallel	No	X	X	--	✓	P	--
	KTEB-232-UV-IS-N-P	IS	2	N	0.87	Parallel	Yes	✓	✓	--	✓	X	--
	KTEB-232-UV-PS-H-P	PS	2	H		Parallel		X	X	--	X	X	--
	KTEB-232-UV-PS-VDIM	PS	2	H	1	Series	No	X	X	--	X	X	--
	KTEB-232LBF-1-TP-PIC-EV	IS	2	N	0.88	Parallel	Yes	✓	--	--	✓	--	--
	KTEB-332-UV-IS-H-P	IS	3	H	1.18	Parallel	No	X	X	--	✓	✓	--
	KTEB-332-UV-IS-N-P	IS	3	N	0.87	Parallel	Yes	✓	✓	--	✓	✓	--
	KTEB-332-UV-PS-H-P	PS	3	H		Parallel		X	X	--	X	X	--
	KTEB-432-UV-IS-H-P	IS	4	H	1.18	Parallel	No	X	X	--	✓	✓	--
	KTEB-432-UV-IS-N-P	IS	4	N	0.87	Parallel	Yes	✓	✓	--	✓	✓	--
KTEB-432-UV-IS-N-P-EMI	IS	4			Parallel	Yes	✓	✓	--	✓	✓	--	
KTEB-432RIS-1-TP-SL	IS	4	N	0.8	Parallel	Yes	P,T	--	--	P,T	--	--	
LIGHTING PRODUCTS LIMITED	EB-332EBF-UV-TP-HE	IS	3	L	0.78	Parallel	Yes	✓	✓	--	✓	✓	--
LUTRON	EHDT817MU210	DPRS	2	?	?	Parallel	Yes	X	X	--	X	X	--
	H3DT832CU210	PRS	2			Parallel		X	X	--	X	X	--

KEY					
✓	Compatible	X	Not Compatible	P	PF < 0.85
--	Not Applicable	/	Not Tested	T	THD > 30%

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BALLAST COMPATIBILITY

BRAND	MODEL	Start Method	# of Lamps	Ballast Factor		Lamp Connection	Enclosed Fixture	1 Lamp Load			2+ Lamp Load		
				Type	Value			120V	277V	347V	120V	277V	347V
MAXLITE	MLEU322HEL/SC	IS	2	N	0.83	Parallel	Yes	✓	✓	--	✓	✓	--
	MLEU323H/SC	IS	3	H	1.18	Parallel	No	X	X	--	X	X	--
	MLEU324HE/SC	IS	4	N	0.88	Parallel	Yes	X	X	--	X	X	--
	SKEU322HEL/SC	IS	2	L	0.77	Parallel	Yes	✓	✓	--	✓	✓	--
	SKEU323L/SC	IS	3	L	0.78	Parallel	Yes	✓	✓	--	✓	✓	--
	SKEU324HE/SC	IS	4	N	0.88	Parallel	Yes	✓	✓	--	✓	✓	--
MOTOROLA	M2-IN-T8-GP-D-277	IS	2			Parallel	Yes	--	✓	--	--	✓	--
OSRAM SYLVANIA	QHE 1X32T8/UNV DIM-TC	DPS	1	N	0.88	--	Yes	✓	✓	--	✓	✓	--
	QHE 1X32T8/UNV ISH-SC	IS	1	H	1.2	--	Yes	--	--	--	X	X	--
	QHE 1X32T8/UNV ISL-SC	IS	1	L	0.78	--	Yes	--	--	--	✓	✓	--
	QHE 1X32T8/UNV ISN-SC	IS	1	N	0.88	--	Yes	--	--	--	✓	✓	--
	QHE 2X32T8/UNV ISH HT-SC	IS	2	H	1.2	Parallel	No	X	X	--	X	X	--
	QHE 2X32T8/UNV ISH-SC	IS	2	H	1.20	Parallel	No	X	X	--	X	X	--
	QHE 2X32T8/UNV ISL-SC	IS	2	L	0.78	Parallel	Yes	✓	✓	--	✓	✓	--
	QHE 2X32T8/UNV ISN-SC	IS	2	N	0.88	Parallel	Yes	✓	✓	--	✓	✓	--
	QHE 2X32T8/UNV PSN-MC	PRS	2	N	0.88	Parallel	No	✓	✓	--	✓	✓	--
	QHE 3X32T8/UNV DIM-TCL	DPS	3	N	0.88	Series		X	X	--	X	X	--
	QHE 3x32T8/UNV ISH HT-SC	IS	3	H	1.18	Parallel	No	X	X	--	X	X	--
	QHE 3X32T8/UNV ISH-SC	IS	3	H	1.18	Parallel	No	X	X	--	✓	✓	--
	QHE 3X32T8/UNV ISL-SC	IS	3	L	0.78	Parallel	Yes	✓	✓	--	✓	✓	--
	QHE 3X32T8/UNV ISN-SC	IS	3	N	0.88	Parallel	Yes	✓	✓	--	✓	✓	--
	QHE 3X32T8/UNV PSH-HT-SC	PRS	3	H	1.15	Parallel		X	X	--	X	X	--
	QHE 4X32T8/UNV DIM-TCL	DPS	4	N	0.88	Series		X	X	--	X	X	--
	QHE 4x32T8/UNV ISH-SC	IS	4	H	1.2	Parallel	No	X	X	--	X	X	--
	QHE 4X32T8/UNV ISL-SC	IS	4	L	0.78	Parallel	Yes	✓	✓	--	✓	✓	--
	QHE 4X32T8/UNV ISN-SC	IS	4	N	0.88	Parallel	Yes	✓	✓	--	✓	✓	--
	QHE 4X32T8/UNV PSN-SC	PRS	4	N	0.88	Parallel	No	✓	✓	--	✓	✓	--
	QHE 4X32T8/UNV PSX-SC	PRS	4	L	0.71	Parallel	No	✓	✓	--	✓	✓	--
	QHEs 2x32T8/UNV PSL-SC	PRS	2	L	0.71	Parallel	Yes	X	X	--	X	X	--
	QT 2x32/347 ISH-SC	IS	2	H	1.2	Parallel	No	--	--	X	--	--	X
	QTP 2X32T8/UNV ISL-SC	IS	2	L	0.78	Parallel	Yes	✓	✓	--	✓	✓	--
	QTP 2X32T8/UNV ISN-SC	IS	2	N	0.88	Parallel	Yes	✓	✓	--	✓	✓	--
	QTP 3X32T8/UNV ISN-SC	IS	3	N	0.88	Parallel	Yes	✓	✓	--	✓	✓	--
	QTP 3X32T8/UNV PSX-SC	PRS	3	L	0.71	Series	No	X	X	--	X	X	--
	QTP2x32T8/UNV DIM-TC	DPS	2	N	0.88	Series	Yes	X	X	--	X	X	--
	QTP2x32T8/277 ISN-D	IS	2	L	0.78	Parallel	Yes	--	✓	--	--	✓	--
	QTP3X32T8/UNV PSN-SC	PRS	3	N	0.88	Series	No	X	X	--	X	X	--
PACIFIC FLUORESCENT	EB-232IS-120-RES	IS	2	N	/	Parallel	Yes	✓	--	--	✓	--	--
PHILIPS	GOPA-2P32-N	IS	2	N	0.88	Parallel	Yes	--	--	X	--	--	X
	ICN-132-MC	IS	1	N	0.88	--	Yes	--	--	--	✓	✓	--
	ICN-1P32-N	IS	1	N	0.91	--	Yes	--	--	--	X	X	--
	ICN-2P16-TLED-N	IS	2	/	/	Parallel	No	X	X	--	X	X	--
	ICN-2P32-N	IS	2	N	0.89	Parallel	No	X	X	--	✓	✓	--
	ICN-2P32-SC	IS	2	N	0.89	Parallel	Yes	✓	✓	--	✓	✓	--
	ICN-3P16-TLED-N	IS	3	/	/	Parallel	No	X	X	--	X	X	--
	ICN-3P32-N	IS	3	N	0.88	Parallel	Yes	X	X	--	X	X	--
	ICN-3P32-SC	IS	3	N	0.89	Parallel	Yes	✓	✓	--	✓	✓	--
	ICN-4P16-TLED-N	IS	4	/	/	Parallel	No	X	X	--	X	X	--
	ICN-4P32-N	IS	4	N	0.90	Parallel	Yes	X	X	--	X	X	--
	IOP-1P32-LW-N	IS	1	L	0.77	--	Yes	--	--	--	✓	P	--
	IOP-1P32-LW-SC	IS	1	L	0.77	--	Yes	--	--	--	✓	✓	--
	IOP-1P32-N	IS	1	N	0.89	--	Yes	--	--	--	X	X	--
	IOP-1P32-SC	IS	1	N	0.87	--	Yes	--	--	--	✓	✓	--
	IOP-1S32-SC	IS	1	N	0.87	--	Yes	--	--	--	✓	✓	--

KEY					
✓	Compatible	X	Not Compatible	P	PF < 0.85
--	Not Applicable	/	Not Tested	T	THD > 30%

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				Type	Value			120V	277V	347V	120V	277V	347V
PHILIPS	IOP-2P32-LW-N	PS	1	N	0.87	Series		X	X	--	X	X	--
	IOP-2P32-LW-SC	IS	2	L	0.77	Parallel	Yes	✓	✓	--	✓	✓	--
	IOP-2P32-N	IS	2	L	0.77	Parallel	Yes	✓	✓	--	✓	✓	--
	IOP-2P32HL-SC	IS	2	N	0.89	Parallel	Yes	✓	✓	--	✓	✓	--
	IOP-2PSP32-LW-N	IS	2	H	1.18	Parallel	No	X	X	--	X	X	--
	IOP-2PSP32-N	PS	2	L	0.71	Parallel	No	X	X	--	✓	✓	--
	IOP-2S32-SC	PS	2	N	0.94	Parallel	No	✓	✓	--	✓	✓	--
	IOP-3P32-LW-SC	PS	2	N	0.87	Parallel	No	X	X	--	X	X	--
	IOP-3P32-N	IS	3	L	0.77	Parallel	Yes	X	X	--	X	X	--
	IOP-3P32HL-90C-SC	IS	3	N	0.87	Parallel	Yes	X	X	--	X	X	--
	IOP-3PSP32-LW-SC	IS	3	H	1.22	Parallel	No	X	X	--	X	X	--
	IOP-3PSP32-SC	PS	3	L	0.69	Parallel	No	✓	✓	--	✓	✓	--
	IOP-4P32-HL-SC	PS	3	N	0.88	Parallel	No	✓	✓	--	✓	✓	--
	IOP-4P32-LW-N	IS	4	H	1.18	Parallel	No	X	X	--	X	X	--
	IOP-4P32-LW-SC	IS	4	L	0.77	Parallel	Yes	✓	✓	--	✓	✓	--
	IOP-4P32-N	IS	4	L	0.77	Parallel	Yes	X	X	--	X	X	--
	IOP-4P32-SC	IS	4	N	0.87	Parallel	Yes	✓	✓	--	✓	✓	--
	IOP-4PSP32-LW-SC	IS	4	N	0.87	Parallel	Yes	X	X	--	X	X	--
	IOPA-IP32-N	PS	4	L	0.69	Parallel	No	✓	✓	--	✓	✓	--
	IOPA-2P32-HL-N	IS	1	N	0.88	--	Yes	--	--	--	X	X	--
	IOPA-2P32-LW-N	IS	2	H	1.18	Parallel	No	X	X	--	X	X	--
	IOPA-2P32-N	IS	2	L	/	Parallel	Yes	✓	✓	--	✓	✓	--
	IOPA-3P32-LW-N	IS	2	N	0.89	Parallel	Yes	✓	✓	--	✓	✓	--
	IOPA-3P32-N	IS	3	L	0.76	Parallel	Yes	X	X	--	X	X	--
	IOPA-3P32-SC	IS	3	N	0.86	Parallel	Yes	X	X	--	X	X	--
	IOPA-4P32-HL	IS	4	N	0.92	Parallel	Yes	✓	✓	--	✓	✓	--
	IOPA-4P32-HL-SC	IS	4	H	1.18	Parallel	No	X	X	--	X	X	--
	IOPA-4P32-SC	IS	4	H	1.18	Parallel	No	X	X	--	X	X	--
	IZT-2S32-SC	IS	4	N	0.92	Parallel	Yes	✓	✓	--	✓	✓	--
	IZT-3PSP32-SC	DPS	2	N	1	Parallel	Yes	X	X	--	X	X	--
	REB-2P32-SC	DPS	3	H	1	Parallel		X	X	--	X	X	--
	REB-4P32-SC	IS	2	N	0.88	Parallel	Yes	✓	✓	--	✓	✓	--
	REZ-132-SC	IS	4	N	0.81	Parallel	Yes	✓	--	--	✓	--	--
	REZ-2S32-SC	RS	1	H	1	--	Yes	X	X	--	X	X	--
REZ-3S32-SC	DPS	2	N	/	Parallel	Yes	X	X	--	✓	✓	--	
VEL-2P32-SC	DPS	3	N	0.97	Series	Yes	X	X	--	X	X	--	
VEL-3P32-SC	IS	2	N	0.88	Parallel	Yes	--	✓	--	--	✓	--	
VZT-4S32-HL	IS	3	N	0.88	Parallel	Yes	✓	✓	--	✓	✓	--	
PLUSRITE	BAF232IS/MV	DPS	4			Series		X	X	--	X	X	--
	BAF232IS/MV/L	IS	2	N	0.89	Parallel	Yes	✓	✓	--	✓	✓	--
	BAF332IS/MV	IS	2	L	0.78	Parallel	Yes	✓	✓	--	✓	✓	--
	BAF332IS/MV/L	IS	3	N	0.88	Parallel	Yes	✓	✓	--	✓	✓	--
	BAF432IS/MV	IS	3	L	0.78	Parallel	Yes	✓	✓	--	✓	✓	--
PROLUME	BAF432IS/MV/L	IS	4	N	0.88	Parallel	Yes	✓	✓	--	✓	✓	--
	E432IS/120/R/SL	IS	4	L	0.78	Parallel	Yes	✓	✓	--	✓	✓	--
SOLA	EP232IS/L/MV/SL	IS	4	N	0.87	Parallel	Yes	P,T	--	--	P,T	--	--
	E-758-U-232-MC	IS	2	L	0.78	Parallel	Yes	✓	✓	--	✓	✓	--
SUNPARK	120-1/32IS HPF	IS	2	N	0.88	Parallel	Yes	✓	P	--	✓	✓	--
	120-3/32IS MPF	IS	1	N	0.88	--	Yes	--	--	--	✓	--	--
	LC 12011T	IS	3	N	0.88	Parallel	Yes	✓	--	--	✓	--	--
	LC 12013T	PS	1	H	?	--	No	X	X	--	X	X	--
	SL15T	PS	1	H	?	--	No	X	X	--	X	X	--
	U-1/32PSE	?	2	N	0.88	Series	No	X	X	--	X	X	--
	U-2/32ISE-LBF	PS	1	N	0.88	--	No	--	--	--	✓	✓	--
U-2/32PSE	IS	2	L	0.78	Parallel	Yes	✓	✓	--	✓	✓	--	

KEY					
✓	Compatible	X	Not Compatible	P	PF < 0.85
--	Not Applicable	/	Not Tested	T	THD > 30%

LED T8 SUPER HYBRID - 12W / 15W

ITEM# 90403 / 90404 / 91508 - INSTALLED AS DIRECT REPLACEMENTS



BALLAST COMPATIBILITY

BRAND	MODEL	Start Method	# of Lamps	Ballast Factor		Lamp Connection	Enclosed Fixture	1 Lamp Load			2+ Lamp Load			
				Type	Value			120V	277V	347V	120V	277V	347V	
SUNPARK	U-2/32PSE-HBF	PS	2	N	0.88	Parallel	No	X	X	--	✓	✓	--	
	U-232PS3	PS	2	H	1.15	Parallel	No	X	X	--	X	X	--	
	U-232PS3-HBF	DPS	2	N	0.88	Series	Yes	X	X	--	X	X	--	
	U-3/32ISE	DPS	2	H	1.15	Series	Yes	X	X	--	X	X	--	
	U-3/32ISE-HBF	IS	3	N	0.88	Parallel	Yes	✓	✓	--	✓	✓	--	
	U-4/32IS HBF	IS	3	H	1.18	Parallel	No	X	X	--	X	X	--	
	U-4/32IS HP,F	IS	4	H	1.18	Parallel	No	X	X	--	X	X	--	
SUPERIOR LIFE	U-4/32ISE-LBF	IS	4	N	0.88	Parallel	Yes	✓	✓	--	✓	✓	--	
	70201	IS	4	L	0.77	Parallel	Yes	✓	✓	--	✓	✓	--	
SYLVANIA	70211	IS	2	N	0.88	Parallel	Yes	✓	T	--	✓	✓	--	
	QT 2X32/347LP	?	4	N	0.87	Parallel	No	✓	✓	--	✓	✓	--	
	QT 2x32277 IS-SC	IS	2	/	/	Parallel	No	--	--	X	--	--	X	
	QT 3x32/277 IS	IS	2			Parallel	Yes	✓	✓	--	✓	✓	--	
TCP	QT 4X32/347LP	IS	3	N	0.9	Parallel	Yes	✓	✓	--	✓	✓	--	
	E3P32ISUNVE	IS	4	/	/	Parallel	Yes	--	--	T	--	--	T	
	E3P32ISUNVHE	IS	3	N	0.88	Parallel	Yes	X	X	--	X	X	--	
	E3P32ISUNVLE	IS	3	H	/	Parallel	No	X	X	--	X	X	--	
	E4P32ISUNVE	IS	3	L	0.78	Parallel	Yes	P	✓	--	P	✓	--	
	E4P32ISUNVHE	IS	4	N	0.88	Parallel	Yes	✓	✓	--	✓	✓	--	
	E4P32ISUNVLE	IS	4	N	1.18	Parallel	No	X	X	--	✓	✓	--	
TOPAZ	TCP3P32ISUNVH	IS	4	L	0.78	Parallel	Yes	X	X	--	X	X	--	
	B232IUNVHEH/A-TPZ	IS	3	H	1.18	Parallel	No	X	X	--	X	X	--	
UNIVERSAL LIGHTING TECHNOLOGIES	B432IUNVHEH/A-TPZ	IS	2	H	1.18	Parallel	No	X	X	--	X	X	--	
	B132IUNVEL-A	IS	4	H	1.18	Parallel	No	✓	✓	--	✓	✓	--	
	B132IUNVHP-N	IS	1	L	0.77	--	Yes	--	--	--	✓	✓	--	
	B232I120RES-A	IS	1	N	0.88	--	Yes	--	--	--	✓	✓	--	
	B232I277RH-A	IS	2	N	0.88	Parallel	Yes	✓	--	--	✓	--	--	
	B232IUNV-C	IS	2	H	1.09	Parallel	No	--	P,T	--	--	✓	--	
	B232IUNVEL-A	IS	2	N	0.88	Parallel	No	X	X	--	✓	✓	--	
	B232IUNVHEH-A	IS	2	L	0.77	Parallel	Yes	✓	✓	--	✓	✓	--	
	B232IUNVHP-B	IS	2	H	1.18	Parallel	No	X	X	--	X	X	--	
	B232IUNVHP-N	IS	2	N	0.88	Parallel	Yes	✓	✓	--	✓	✓	--	
	B232PUI04S50A	IS	2	N	0.88	Parallel	Yes	✓	✓	--	✓	✓	--	
	B232PUNVHE-B	PRS	2	H	1.04	Parallel	No	X	X	--	X	X	--	
	B232PUS50-A	PS	2	N	0.88	Parallel	No	✓	P	--	✓	✓	--	
	B232SR277S30	PRS	2	N	0.88	Parallel		X	X	--	X	X	--	
	B233IUNVHE-A	RS	2			Parallel		X	X	--	X	X	--	
	B332IHRVHB-E	IS	2	N	0.87	Parallel	Yes	✓	✓	--	✓	✓	--	
	B332IUNVHP-A	IS	3	H	/	Parallel	No	--	--	X	--	--	X	
	B332PUNVHE-A	IS	3	N	0.88	Parallel	Yes	✓	✓	--	✓	✓	--	
	B332PUNVHEH-A	PS	3	N	0.88	Parallel	No	✓	✓	--	✓	✓	--	
	B432I347HE-A	PS	3	H	1.18	Parallel	No	X	X	--	X	X	--	
	B432IUNVHE L-A	IS	4	N	0.88	Parallel	Yes	--	--	✓	--	--	✓	
	B432IUNVHE-A	IS	4	L	0.77	Parallel	Yes	✓	✓	--	✓	✓	--	
	B432IUNVHEH-E	IS	4	N	0.87	Parallel	Yes	✓	✓	--	✓	✓	--	
	B432IUNVHP-A	IS	4	H	1.15	Parallel	No	X	X	--	X	X	--	
	B432PUNVHE-A	IS	4	N	0.88	Parallel	Yes	✓	✓	--	✓	✓	--	
	WATRAN	DB-232N-MV-TP-HE	PS	4	N	0.87	Parallel	No	✓	✓	--	✓	✓	--
		DB-232N-MV-TP-HE (SC)	IS	2	N	0.87	Parallel	Yes	✓	✓	--	✓	✓	--
		DB-332N-MV-TP-HE	IS	2	N	0.87	Parallel	Yes	✓	✓	--	✓	✓	--
		DB-432L-MV-TP-HE	IS	3	N	0.87	Parallel	Yes	✓	✓	--	✓	✓	--
		DB-432N-MV-TP-HE	IS	4	L	0.77	Parallel	Yes	✓	✓	--	✓	✓	--
	WORK HORSE	DBG32N-MV-TP-PS-HL	IS	4	N	0.87	Parallel	Yes	✓	✓	--	✓	✓	--
		WHSG3-UNV-T8-IS	PS	3	H	/	Series	No	X	X	--	X	X	--
		WHSG4-UNV-T8-IS	IS	3	N	0.99	Parallel	Yes	X	X	--	X	X	--

KEY					
✓	Compatible	X	Not Compatible	P	PF < 0.85
--	Not Applicable	/	Not Tested	T	THD > 30%