

QUALIFYING PRODUCTS¹**High-Performance 120 and 277V T8 Ballasts**

CEE High-Performance Commercial Lighting Systems Initiative

Updated 01/03/11



For a list of qualifying 347 V T8 ballasts, see:

www.cee1.org/com/com-lt/347-ballasts.xls

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Legend: **Red Font** is a product no longer manufactured, but still meets the criteria as a qualifying product

Manufacturer	Product Name	Model Number	NEMA ⁴ Premium®	Voltage (V)	Ballast Type ²	Ballast Factor Range	Ballast Factor	Input Watts (W)	BEF ³
HP T8 Qualified Ballasts with 1 Lamp									
ACCUPRO	High Efficiency	AP-132IP-UNV	yes	120/277	I	Normal	0.91	29	3.14
American Ballast	High Efficiency	AB1-32-IP-UNV-HE	yes	120/277	I	Normal	0.91	29	3.14
		AB1-32-IP-UNV-1	yes	120/277	I	Normal	0.91	29	3.14
Dynamic Ballast	High Efficiency	DY 132 IS WV - HE	no	120/277	I	Normal	0.88	28	3.14
Fulham	Workhorse	WHHE2-UNV-T8-IS	no	120/277	I	High	1.08	35/34	3.09/3.17
General Electric	GE Ultramax	GE-132-MAX-N/Ultra	yes	120/277	I	Normal	0.88	28	3.11
		GE-132-MAX-L/Ultra	yes	120/277	I	Low	0.77	25	3.08
	UltraStart	GE132-MVPS-L	yes	120/277	P	Low	0.72	25	2.88
		GE132-MVPS-N	yes	120/277	P	Normal	0.89	30	2.97
		GE132-MVPS-H	yes	120/277	P	High	1.18	39	3.03
	Proline	GE-132-MV-N	yes	120/277	I	Normal	0.87	28	3.11
Halco Lighting Technologies	ProLume	EP232IS/L/MV/HE	yes	120/277	I	Normal	0.95	30	3.17
		EP232IS/MV/HE	yes	120/277	I	High	1.05	33	3.18
		EP232IS/120/SL	yes	120	I	High	1.15	38	3.03
		EP232IS/MV/SL	yes	120/277	I	High	1.15	38	3.03
Hatch Lighting	Hatch	HL232AIS/UV/HE/W	no	120/277	I	Normal	0.95	30	3.17
		HL232BIS/UV/HE/W	no	120/277	I	High	1.05	33	3.18
Howard Industries	HEX Electronic	E1/32IS-120HEX	no	120	I	Normal	0.87	28	3.11
		E1/32IS-277HEX	no	277	I	Normal	0.87	28	3.11
	HE High Efficiency	EP2/32IS/MV/SC/HE	no	120/277	I	Normal	1.00	35	2.86
	HE Micro Case	EPH2/32IS/MV/MC/HE	no	120/277	I	High	1.08	35/34	3.09/3.18
Keystone Technologies	Premium Series	KTEB-132-UV-IS-L-P	yes	120/277	I	Low	0.77	25	3.08
		KTEB-132-UV-IS-N-P	yes	120/277	I	Normal	0.87	28	3.10
		KTEB-132-UV-PS-N-P	yes	120/277	P	Normal	0.88	31	2.84
		KTEB-132-UV-PS-L-P	yes	120/277	P	Low	0.77	27	2.85
		KTEB-132-UV-PS-H-P	yes	120/277	P	High	1.18	40	2.95
		KTEB-132-UV-IS-H-P	yes	120/277	I	High	1.18	39	3.03
Maxlite	High Efficiency Ballast	SKEU322HEL	no	120/277	I	Normal	0.95	30	3.17
	Electronic Ballasts	SKEU322H/SC	no	120/277	I	High	1.38	45	3.07
MW McWong International	Electronic Ballast	EB-132PRS-U-ES	yes	120/277	P	Normal	0.88	30	2.93
		EB-132PRS-U-ES-HBF	yes	120/277	P	High	1.18	38	3.11
OSRAM SYLVANIA	Quicktronic	QHE1x32T8/UNV ISH-SC	yes	120/277	I	High	1.20	38	3.16
		QHE 1X32T8/UNV ISL-SC	yes	120/277	I	Low	0.78	25	3.12
		QHE 1X32T8/UNV ISL-SC-1	yes	120/277	I	Low	0.77	25	3.08
		QHE 1X32T8/UNV ISN-SC	yes	120/277	I	Normal	0.88	28	3.14
		QHE1x32T8/UNV ISN-SC-1	yes	120/277	I	Normal	0.87	28	3.11
		QHE1x32T8/UNV PSN-MC	yes	120/277	P	Normal	0.88	30/29	2.93/3.03
		QTP 1X32T8/UNV PSN-TC	yes	120/277	P	Normal	0.88	31/30	2.84/ 2.93
		QTP 1X32T8/UNV PSX-TC	yes	120/277	P	Low	0.71	25	2.84

HP 120 and 277 V T8 Ballasts

Manufacturer	Product Name	Model Number	NEMA ⁴ Premium®	Voltage (V)	Ballast Type ²	Ballast Factor Range	Ballast Factor	Input Watts (W)	BEF ³
Sage Lighting Ltd	Sage	NLO232T8PIS	no	120	P	High	1.03	36	2.86
		SAU139Q2	no	120	P	Normal	1.00	33	3.03
		SLU232T8HPIS-ROHS	no	120/277	P	High	1.40	45	3.11
		NU240T8RS-ROHS	no	120	P	High	1.40	41	3.41
		SAU139Q2	no	120	P	High	1.02	33	3.09
		SLU232T8HPIS-ROHS	no	120/277	I	High	1.40	45	3.11
SOLA Canada Lighting & Power Inc	Sola	E-758-F-132SC	no	120	I	Normal	0.97	31	3.13
Standard Products, Inc.	Optistart	E232T8PRS120-277/L	no	120/277	P	Normal	0.88	29	3.03
	Gold Label	E232T8PS120-277/N/XTRM	no	120/277	P	High	1.40	41	3.41
Sunpark Electronics Corp.	Ultralumen	U-1/32PSE	no	120/277	P	Normal	0.88	30	2.93
Technical Consumer Products, Inc.	-	TCP2P32ISUNVH	yes	120/277	I	High	1.37	45	3.04
		E2P32ISUNVHE	yes	120/277	I	High	1.37	45	3.04
		TCP2P32ISUNV	yes	120/277	I	Normal	0.99	31	3.19
		E2P32ISUNVE	yes	120/277	I	Normal	0.99	31	3.19
Topstar International Inc.	T8 Electronic Ballast	BB-T8/UVH-2x32/HPF	no	120	I	Normal	0.96	30	3.20
Ultrasave Lighting Ltd.	-	SR132120	no	120	P	Normal	0.86	30	2.87
		SR132277	no	277	P	Normal	0.86	30	2.87
		PR232120M-HE	no	120/277	P	Normal	0.97	33	2.94
		UT132120M-HE	no	120/277	I	Normal	0.87	28	3.11
		UT132120ML-HE	no	120/277	I	Low	0.74	24	3.08
		UT232120L-HE	no	120	I	Normal	0.97	30	3.23
		PR132120M-P-HE	no	120/277	P	Normal	0.88	30	2.93
		PR232120M-P-HE	no	120/277	P	Normal	0.88	29	3.03
Universal Lighting Technologies	F32 T8	PR232120ML-P-HE	no	120/277	P	Low	0.72	24	3.00
		B232PUNVEL-A	yes	120/277	P	Low	0.71	25/23	2.84/3.09
		B232PUNVHP-A	yes	120/277	P	Normal	1.00	32	3.13
		B232IUNVEL-A	yes	120/277	I	Normal	0.95	30	3.17
		B232IUNVHE-A	yes	120/277	I	High	1.05	33	3.18
		B132PUNVHP-A	yes	120/277	P	Normal	0.88	31/30	2.84/2.93
		B132IUNVHE-A	yes	120/277	I	Normal	0.87	28	3.11
		B132IUNVEL-A	yes	120/277	I	Low	0.77	25	3.08
HP T8 Qualified Ballasts with 2 Lamps									
ACCUPRO	High Efficiency	AP-232IP-UNV	yes	120/277	I	Normal	0.89	56	1.59
American Ballast	High Efficiency	AB2-32-IP-UNV-HE	yes	120/277	I	Normal	0.89	56	1.59
		AB2-32-IP-UNV-1	yes	120/277	I	Normal	0.89	56	1.59
		AB2-32-IP-UNV-HBF	yes	120/277	I	Normal	1.18	76/75	1.55/1.57
		AB2-32-IP-UNV-LX	yes	120/277	I	Normal	0.77	48	1.60
Atlas Lighting Products, Inc.	-	EB232UIH	no	120/277	I	High	1.18	70	1.69
		EB232UI	no	120/277	I	Normal	0.87	55	1.58
Axis Technologies	DDH	AX232B	no	120/277	P	Normal	0.99	64/66	1.55/1.5
Dynamic Ballast	High Efficiency	DY 232 IS WV - HE	no	120/277	I	Normal	0.88	55	1.60
Energy Efficient Lighting Supply	High Efficiency	EEL-PSB-F32-2-MVOLT	no	120/277	P	Normal	.88/.91	59	1.49/1.54
Eспен Technology, Inc.	Elite	VE232MVHIPE	yes	120/277	I	Normal	0.89	55/54	1.62/1.65
		VE232MVHIPHE	yes	120/277	I	High	1.19	76/75	1.57/1.59
		VE232MVHRPHE	yes	120/277	P	High	1.18	72/71	1.64/1.66
	Apollo	VE232MVHRPE	yes	120/277	P	Normal	0.88	57/56	1.54/1.57
		VE232MVHIPL	yes	120/277	I	Low	0.77	48/47	1.60/1.64
Fulham	Workhorse	WHSG3-UNV-T8-IS	no	277	I	High	1.02	66	1.55
		WHSG3-UNV-T8-HB	no	120/277	I	High	1.33	84	1.58
		WHPS2-UNV-T8-PS	no	120/277	P	Normal	0.93	59/58	1.57/1.60
		WHHE2-UNV-T8-IS	no	120/277	I	Normal	0.89	55/54	1.61/1.64
Fusion Ballasts	Electronic ballasts	FB232MVE-HE	no	120/277	I	Normal	0.87	55	1.58
General Electric Company	Proline	GE-232-MV-H	no	120/277	I	High	1.18	76	1.55
		GE-232-MV-N	yes	277	I	Normal	0.88	55	1.60
		GE-232-277-N	yes	277	I	Normal	0.89	56	1.59
	Ultrastart	GE-232-MV-PS-H	yes	120/277	P	High	1.15	75 / 74	1.53/ 1.55
		GE-232-MVPS-N	yes	120/277	P	Normal	0.89	58	1.53
		GE-232-MVPS-L	yes	120/277	P	Low	0.71	47	1.51
	Ultramax	GE-232-MAX-N+	yes	120/277	I	Normal	1.00	62	1.61
		GE-232-MAX-L-42T	yes	277	I	Low	0.77	48	1.60
		GE-232-MAX-H-42T	yes	120/277	I	High	1.15	73	1.58
		GE-232-MAX-H	yes	120/277	I	High	1.19	74/73	1.61/1.63
		GE-232-MAX-L/Ultra	yes	120/277	I	Low	0.77	48	1.60
		GE-232-MAX-N/Ultra	yes	120/277	I	Normal	0.87	54 / 53	1.61/ 1.64
		GE-232-MAX-H/Ultra	yes	120/277	I	High	1.15	74 / 73	1.55/ 1.58
Ultrastart	GE-232-120-PS-N	yes	120	P	Normal	0.89	57	1.56	
	GE-232-277-PS-N	yes	277	P	Normal	0.89	57	1.56	

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Manufacturer	Product Name	Model Number	NEMA ⁴ Premium®	Voltage (V)	Ballast Type ²	Ballast Factor Range	Ballast Factor	Input Watts (W)	BEF ³
Halco Lighting Technologies	ProLume	EP232IS/MV/HE	yes	120/277	I	Normal	0.87	55	1.58
		EP232IS/L/MV/HE	yes	120/277	I	Low	0.77	48	1.60
		EP232IS/H/MV/SL	yes	120/277	I	High	1.18	74	1.59
		EP332IS/H/MV/SL	yes	120/277	I	High	1.33	83	1.60
Hatch Lighting	Hatch	HL232AIS/UV/HE/W	no	120/277	I	Low	0.77	48	1.60
		HL232BIS/UV/HE/W	no	120/277	I	Normal	0.87	55	1.58
Howard Industries	HEX Electronic	E2/32IS-120HEX	no	120	I	Normal	0.87	55	1.58
		E2/32IS-277HEX	no	277	I	Normal	0.87	55	1.58
		EL2/32IS-277HEX	no	277	I	Low	0.77	48	1.60
	HE High Efficiency	EPL2/32IS/MV/SC/HE	no	120/277	I	Low	0.77	48	1.60
		EP2/32IS/MV/SC/HE	no	120/277	I	Normal	0.87	54/53	1.61/1.64
		EPH2/32IS/MV/SC/HE	no	120/277	I	High	1.14	73/72	1.56/1.58
		EPH3/32IS/MV/SC/HE	no	277	I	High	1.25	80	1.56
		EP2/32IS/MV/MC/HE	no	120/277	I	Normal	0.89	55/54	1.62/1.65
		EPL2/32IS/MV/MC/HE	no	277	I	Low	0.78	48	1.63
	HE Micro Case	EP2/32PRS/MV/MC/HE	no	120/277	P	Normal	0.88	57 / 56	1.54/1.57
		EPH3/32IS/MV/MC/HE	no	277	I	Normal	1.27	80	1.59
		EPL3/32IS/MV/MC/HE	no	277	I	Normal	0.92	57	1.61
		EPH2/32IS/MV/MC/HE	no	120/277	I	High	1.18	74/73	1.59/1.61
		EPH2/32IS/MV/MC	no	120/277	I	High	1.18	74/73	1.59/1.62
Keystone Technologies	Premium Series	KTEB-232-UV-IS-L-P	yes	120/277	I	Low	0.77	48	1.60
		KTEB-232-UV-IS-N-P	yes	120/277	I	Normal	0.87	55	1.58
		KTEB-232-UV-PS-N-P	yes	120/277	P	Normal	0.88	60	1.47
		KTEB-232-UV-PS-L-P	yes	120/277	P	Low	0.77	52	1.48
		KTEB-232-UV-PS-H-P	yes	120/277	P	High	1.18	78	1.51
		KTEB-232-UV-IS-H-P	yes	120/277	I	High	1.18	74/73	1.60/1.61
Maintenance Engineering	Premira Electronic Ballast	BPM932	no	120/277	P	Normal	0.88	55	1.60
Maxlite	Anti-Striation	SKEU322AS	no	120/277	I	Normal	0.88	44	2.00
	High Efficiency Ballast	SKEU322HE/SC	no	120/277	I	Normal	0.89	55/54	1.62/1.65
		SKEU322HEH/SC	no	120/277	I	High	1.19	76/75	1.57/1.59
		SKEU322HEL/SC	no	120/277	I	Low	0.77	48/47	1.60/1.64
		SKEU322HEL	no	120/277	I	Low	0.77	48	1.60
		SKEU322L/SC	no	120/277	I	Low	0.78	48	1.63
	Electronic Ballasts	SKE1323	no	120	I	Normal	0.96	55	1.75
		SKE1324	no	120	I	High	1.05	67	1.57
		SKE1324L	no	120	I	Normal	0.94	58	1.62
		SKEU322H/SC	no	120/277	I	High	1.18	74/73	1.59/1.61
EB-232PRS-U-ES		yes	120/277	P	Normal	0.88	57/56	1.54/1.57	
MW McWong International	Electronic Ballast	EB-232PRS-U-ES-LBF	yes	120/277	P	Low	0.78	52/51	1.50/1.53
		EB-232PRS-U-ES-HBF	yes	120/277	P	High	1.18	72/71	1.64/1.66
		EB-232IS-U-ES	yes	120/277	I	Normal	0.89	55/54	1.62/1.65
		EB-232IS-U-ES-LBF	yes	277	I	Low	0.78	48	1.62
		EB-232IS-U-ES-HBF	yes	120/277	I	High	1.18	74/73	1.59/1.61
		QHE 2X32T8/UNV ISH-SC	yes	120/277	I	High	1.20	74 / 73	1.62 / 1.64
OSRAM SYLVANIA	Quicktronic	QHE 2X32T8/UNV ISL-SC	yes	120/277	I	Low	0.78	48	1.63
		QHE 2X32T8/UNV ISL-SC-1	yes	120/277	I	Low	0.77	48	1.60
		QHE 2X32T8/UNV ISN-SC	yes	120/277	I	Normal	0.88	55	1.60
		QHE 2X32T8/UNV ISN-SC-1	yes	120/277	I	Normal	0.87	55	1.58
		QHE 3X32T8/UNV ISN-SC	yes	277	I	Normal	0.99	62	1.60
		QHE 4X32T8/UNV ISN-SC	yes	120/277	I	High	1.06	68	1.56
		QHE 2x32T8/UNV-PSH-HT	yes	120/277	P	High	1.15	72/70	1.60/1.64
		QHE 2x32T8/UNV-PSN-MC	yes	120/277	P	Normal	0.88	57/55	1.54/1.60
		QTP 2X32T8/UNV PSN-TC	yes	120/277	P	Normal	0.88	59 / 56	1.49/ 1.57
		QTP 2X32T8/UNV PSX-TC	yes	120/277	P	Low	0.71	47 / 46	1.51/ 1.54
		QTP 2X32T8/UNV ISN-SC	yes	277	I	Normal	0.88	55.6	1.58
		QTP 2X32T8/UNV ISH-SC	yes	277	I	High	1.20	77	1.56
		QHE 2x32T8/UNV ISM-SC	yes	120/277	I	Medium	1.00	63/62	1.61
		Philips - Advance	Optanium	IOP-2P32-HL-SC	yes	120/277	I	High	1.18
IOP-2S32-SC	yes			120/277	P	Normal	0.88	56	1.57
IOP-2P32-SC @ 120V	yes			120	I	Normal	0.87	55	1.58
IOP-2P32-SC @ 277V	yes			277	I	Normal	0.87	54	1.61
IOP-2P32-LW-SC	yes			120/277	I	Low	0.77	48	1.60
IOP-2S32-LW-SC	yes			120/277	P	Low	0.71	47	1.51
IOPA-2P32-LW-SC	yes			120/277	I	Low	0.77	48	1.60
IOPA-2P32-SC	yes			120/277	I	Normal	0.87	54	1.61
IOPA-2P32-HL-SC	yes			120/277	I	High	1.18	74/72	1.59/1.64
IOPA-2P32-LW-N	no			120/277	I	Low	0.77	48	1.60
IOPA-2P32-N	no		120/277	I	Normal	0.87	55/54	1.58/1.61	
Standard	REL-2P32-HL-SC		no	120	I	High	1.20	77	1.56
	VEL-2P32-HL-SC		no	277	I	High	1.20	77	1.56
Centium	ICN-2P32-LW-SC		yes	277	I	Low	0.78	48	1.63
	ICN-2P32N	yes	120/277	I	Normal	0.89	56	1.59	
P.Q.L., Inc.	Superior Life	SL-2/32IS-120/277 (70201)	no	120/277	I	Normal	0.87	54/53	1.61/1.64
		SL-2/32IS-120 (70209)	no	120	I	Normal	0.88	56	1.60

2 Lamp Products

HP 120 and 277 V T8 Ballasts

Manufacturer	Product Name	Model Number	NEMA ⁴ Premium®	Voltage (V)	Ballast Type ²	Ballast Factor Range	Ballast Factor	Input Watts (W)	BEF ³
	HP	SL-2/32IS-277 (70200)	no	277	I	Normal	0.88	56	1.60

HP 120 and 277 V T8 Ballasts

Manufacturer	Product Name	Model Number	NEMA ⁴ Premium®	Voltage (V)	Ballast Type ²	Ballast Factor Range	Ballast Factor	Input Watts (W)	BEF ³
Robertson Worldwide	Sterling Series	ISL232T8HEMVL	yes	120/277	I	Low	0.77	48/47	1.60/1.64
		ISL232T8HEMV	yes	277	I	Normal	0.88	55	1.60
	-	PSA232T8HEMV	yes	120/277	P	Normal	0.88	58/56	1.52/1.57
		PSA232T8HEMH	yes	120/277	P	High	1.18	76/74	1.55/1.60
		PSL232T8HEMV	yes	120/277	P	Normal	0.88	60/59	1.47/1.49
Sage Lighting Ltd	Sage	NLO232T8PIS	no	120	P	Normal	0.90	58	1.55
		NLU232T8PIS	no	120/277	P	Normal	0.90	58/59	1.55/1.53
		SLU232T8HPIS-ROHS	no	120/277	P	High	1.18/1.20	73	1.62/1.64
		NU232T8RS-ROHS	no	120/277	P	Normal	0.90	61	1.48
		NU240T8RS-ROHS	no	120	P	High	1.20	75	1.60
		SLU232T8HPIS-ROHS	no	120/277	I	High	1.18/1.20	73	1.62/1.64
		SU232T8LMCIS-ROHS	no	120/277	I	Low	0.78	48.9	1.60
		E2-32-I-UV-H	no	120/277	I	High	1.18/1.20	73/74	1.62
SLI Lighting	SLI	E2-32-I-UV-N	no	120/277	I	Normal	0.88	55	1.60
		E2-32-I-UV-L	no	120/277	I	Low	0.77	48	1.60
		E-758-F-232-HL	no	120	I	High	1.16	74	1.57
SOLA Canada Lighting & Power Inc	Sola	E-758-F-232SC	no	120	I	Normal	0.91	57	1.60
		E-758-U-232SC	no	120/277	I	Normal	0.94	58.5	1.61
		E232T8IS120/N	no	120	I	Normal	0.88	55	1.60
Standard Products, Inc.	Gold Label	E232T8IS120/N/BULK	no	120	I	Normal	0.88	55	1.60
		E232T8IS120/L	no	120	I	Low	0.78	48	1.63
		E232T8PS120-277/N/XTRM	no	120/277	P	High	1.20	75	1.60
		OptiStart	E232SPR120-277L	no	120/277	P	Low	.67/.70	42/44
	Sunpark Electronics Corp.	HiLumen	U-2/32IS	yes	120/277	I	Normal	0.89	55.7
U-2/32IS HBF			yes	120/277	I	High	1.17	74.9	1.56
U-2/32ISE			yes	120/277	I	Normal	0.89	54	1.65
Ultra Lumen		U-2/32ISE-HBF	yes	120/277	I	High	1.18	73	1.62
		U-2/32ISE-LBF	yes	120/277	I	Low	0.78	48	1.63
		U-2/32PSE	yes	120/277	P	Normal	0.88	56	1.57
		U-2/32PSE-HBF	yes	120/277	P	High	1.15	71.6	1.61
Superior Lamps, Inc.	Heavy Duty Electronic Ballast	BPS932	no	120/277	P	Normal	0.88	55	1.60
SwitchGenie, LLC.	SwitchGenie	SG232	no	120/277	I	Normal	0.88	54	1.63
Technical Consumer Products, Inc.	E32	E32IS32120H	no	120	I	High	1.22	77	1.58
		E32IS32277H	no	277	I	High	1.22	78	1.57
		E432IS32120N	no	120	I	Normal	0.89	55.9	1.59
	E432	E432IS32277N	no	277	I	Normal	0.99	63	1.58
		E432IS32120L	no	120	I	Low	0.79	49	1.60
		E432IS32120U	no	120	I	Low	0.72	44	1.62
	-	TCP2P32ISUNVLE	yes	277	I	Low	0.78	48	1.63
		TCP2P32ISUNVE	yes	120/277	I	Normal	0.89	55/54	1.62/1.65
		TCP2P32ISUNVHE	yes	120/277	I	High	1.18	74/73	1.60/1.62
		TCP2P32ISUNVH	yes	120/277	I	High	1.18	73/72	1.61/1.64
		E2P32ISUNVHE	yes	120/277	I	High	1.18	73/72	1.61/1.64
		TCP2P32ISUNV	yes	120/277	I	Normal	0.88	54/53	1.63/1.66
		E2P32ISUNVE	yes	120/277	I	Normal	0.88	54/53	1.63/1.66
TCP2P32ISUNVL	yes	120/277	I	Low	0.78	48	1.63		
E2P32ISUNVLE	yes	120/277	I	Low	0.78	48	1.63		
TransPower Company	Energy Saving Ballast	APC 402 U	no	120/277	P	Normal	0.95	61	1.56
		APC 402 U	no	120/277	P	High	1.10	68	1.62
Ultrasave Lighting Ltd.	-	SR232120	no	120	P	Normal	0.88	55	1.60
		SR232277	no	277	P	Low	0.85	53	1.60
		UT232120MH	no	120/277	I	High	1.18	75	1.57
		UT232120M-HE	no	120/277	I	Normal	0.87	55	1.58
		UT332120M-HE	no	120/277	I	Normal	1	63	1.59
		PR232120M-HE	no	120/277	P	Normal	0.93	62	1.50
		UT232120ML-HE	no	120/277	I	Low	0.77	48	1.60
		UT332120MH-HE	no	120/277	I	High	1.26	81	1.56
		PR232120M-P-HE	no	120/277	P	Normal	0.87	56	1.55
PR232120ML-P-HE	no	120/277	P	Low	0.70	46	1.52		
Universal Lighting Technologies	F32 T8 Ultim8	B332I277HE	yes	277	I	High	1.01	61	1.66
		B232IUNV104-A	yes	120/277	I	High	1.04	65/64	1.60/1.63
		B232PUNVHE-A	yes	120/277	P	Normal	0.88	56/55	1.57/1.60
		B232PUNVEL-A	yes	120/277	P	Low	0.71	47/46	1.51/1.54
		B332PUNVHP-A	yes	120/277	P	Normal	0.99	64 / 63	1.55/1.57
		B232IUNVHP-B	yes	277	I	Normal	0.88	55	1.60
		B332I120HE	yes	120	I	Normal	0.96	60	1.60
		B332I120L-A	yes	120	I	Normal	0.92	58	1.59
		B332IUNVEL-A	yes	277	I	Normal	0.89	56	1.59
		B232PUNVHP-A	yes	277	P	Normal	0.88	60	1.47
		B232I120HE	yes	120	I	Normal	0.87	54	1.61
		B232I277HE	yes	277	I	Normal	0.87	53	1.64
		B232IUNVHE-A	yes	120/277	I	Normal	0.87	55 / 54	1.58/1.61
B332I277EL	yes	277	I	Normal	0.87	55	1.58		

HP 120 and 277 V T8 Ballasts

Manufacturer	Product Name	Model Number	NEMA ⁴ Premium®	Voltage (V)	Ballast Type ²	Ballast Factor Range	Ballast Factor	Input Watts (W)	BEF ³		
		B3321120EL	yes	120	I	Normal	0.86	53	1.62		
		B2321120EL	yes	120	I	Low	0.77	47	1.64		
		B23212770EL	yes	277	I	Low	0.77	47	1.64		
		B2321UNVEL-A	yes	120/277	I	Low	0.77	48	1.60		
		B2321UNVHEH-A	yes	120/277	I	High	1.18	74/73	1.59/1.61		
		B232PUNVEL-A	yes	120/277	P	Low	0.71	47/46	1.51/1.54		
		B232PUNVHE-A	yes	120/277	P	Normal	0.88	56/55	1.57/1.60		
Triad	B2321UNV104-A	yes	120/277	I	High	1.04	65/64	1.60/1.63			
HP T8 Qualified Ballasts with 3 Lamps											
ACCUPRO	High Efficiency	AP-332IP-UNV	yes	120/277	I	Normal	0.88	83	1.06		
American Ballast	High Efficiency	AB3-32-IP-UNV-HE	yes	120/277	I	Normal	0.88	83	1.06		
		AB3-32-IP-UNV-1	yes	120/277	I	Normal	0.88	83	1.06		
		AB3-32-IP-UNV-HBF	yes	120/277	I	Normal	1.18	112/109	1.05/1.08		
Atlas Lighting Products, Inc.	-	AB3-32-IP-UNV-LX	yes	120/277	I	Normal	0.77	73	1.05		
		EB332UIH	no	120/277	I	High	1.18	108/106	1.09/1.11		
Dynamic Ballast	High Efficiency	EB332UI	no	120/277	I	Normal	0.87	83	1.05		
		DY 332 IS WV - HE	no	120/277	I	Normal	0.88	83	1.06		
Energy Efficient Lighting Supply	High Efficiency	EEL-ISB-F32-3-MVOLT	no	120/277	I	Normal	.94/.96	89/91	1.06/1.05		
Espen Technology, Inc.	Apollo	VE332120HIP	yes	120	I	Normal	0.88	84	1.05		
		VE332MVHIPL	yes	277	I	Low	0.78	74	1.05		
	Elite	VE332120HIPH	yes	120	I	High	1.18	109	1.08		
		VE332MVHIPE	yes	120/277	I	Normal	0.88	84/83	1.05/1.06		
		VE332MVHIPHE	yes	120/277	I	High	1.17	110/108	1.06/1.08		
		VE332MVHIPH	yes	120/277	I	High	1.18	109/107	1.08/1.10		
		VE332MVHRPE	yes	120/277	P	Normal	0.88	87/85	1.01/1.03		
VE332MVHRPHE	yes	120/277	P	High	1.18	113/110	1.04/1.07				
Fulham	Workhorse	WHSG3-UNV-T8-IS	no	120/277	I	Normal	0.93	89/87	1.05/1.07		
		WHSG4-UNV-T8-IS	no	120	I	Normal	1.00	93	1.08		
		WHSG4-UNV-T8-IS	no	277	I	Normal	0.99	93	1.07		
		WHSG4-UNV-T8-HB	no	120/277	I	High	1.19	115/112	1.04/1.06		
		WHCG4-120-T8-IS	no	120	I	Normal	0.99	91	1.09		
Fusion Ballasts	Electronic ballasts	FB432MVE	no	120/277	I	Normal	0.99	92	1.08		
		FB432MVE-HE	no	120/277	I	Normal	0.96	88	1.09		
General Electric Company	Proline	GE-332-277-N	yes	277	I	Normal	0.88	84	1.05		
		GE-332-MV-L	yes	120/277	I	Low	0.78	74/73	1.07		
	-	-	GE-332-MV-N	yes	120/277	I	Normal	0.87	81/80	1.09	
			GE-332-MV-H	yes	120/277	I	High	1.15	113/110	1.05	
			GE-332-MAX-N+	yes	120/277	I	Normal	1.00	91/90	1.10/1.11	
		Ultramax	GE-332-MAX-N-42T	yes	120/277	I	Normal	0.87	82/80	1.06/1.09	
			GE-332-MAX-L-42T	yes	120/277	I	Low	0.77	72/71	1.07/1.08	
			GE-332-MAX-H-42T	yes	120/277	I	High	1.18	106/104	1.11/1.13	
			GE-332-MAX-H/Ultra	yes	120/277	I	High	1.18	106/104	1.11/1.13	
			GE-332-MAX-L/Ultra	yes	120/277	I	Low	0.77	72/71	1.07/1.08	
			GE-332-MAX-N/Ultra	yes	120/277	I	Normal	0.87	82 / 80	1.06/1.09	
			Ultrastart	GE-332-MVPS-L	yes	120/277	P	Low	0.71	68	1.04
				GE-332-MVPS-N	yes	120/277	P	Normal	0.89	84	1.06
				GE-332-MV-PS-H	yes	120/277	P	High	1.15	110/108	1.04/1.06
				GE-332-120-PS-N	yes	120	P	Normal	0.89	84	1.06
GE-332-277-PS-N	yes	277		P	Normal	0.89	85	1.05			
Halco Lighting Technologies	ProLume	EP332IS/L/MV/HE	yes	120/277	I	Low	.78/.77	75/74	1.04		
		EP332IS/MV/HE	yes	120/277	I	Normal	.87/.88	83/81	1.05/1.09		
		EP332IS/H/MV/SL	yes	120/277	I	High	1.18	108	1.09		
		EP432IS/L/MV/HE	yes	120/277	I	Normal	.87/.86	81/78	1.07/1.10		
		EP432IS/MV/HE	yes	120/277	I	Normal	.94/.95	89/88	1.06/1.08		
		EP432IS/L/MV/SL	yes	120/277	I	Low	0.84	79	1.06		
Hatch Lighting	Hatch	HL432AIS/UV/HE/W	no	120/277	I	Normal	.87/.86	81/78	1.07/1.10		
		HL432BIS/UV/HE/W	no	120/277	I	Normal	.94/.95	89/88	1.06/1.08		
Howard Industries	HEX Electronic	E3/32IS-277 HEX	no	277	I	Normal	0.87	83	1.05		
		E3/32IS-120 HEX	no	120	I	Normal	0.87	83	1.05		
		EL3/32IS-120 HEX	no	120	I	Low	0.77	73	1.05		
		EL3/32IS/MV/SC/HE	no	277	I	Low	0.75	71	1.06		
		EL3/32IS-277 HEX	no	277	I	Low	0.77	73	1.05		
	HE High Efficiency	EP3/32IS/MV/SC/HE	no	120/277	I	Normal	0.87	82/80	1.06/1.09		
		EPH3/32IS/MV/SC/HE	no	120/277	I	High	1.15	110/107	1.05/1.07		
		EPL4/32IS/MV/SC/HE	no	120/277	I	Low	0.84	80 / 79	1.05/1.06		
		EPL3/32IS/MV/SC/HE	no	120/277	I	Low	0.75	72/71	1.04/1.06		
		EP4/32IS/MV/SC/HE	no	277	I	Normal	0.92	88	1.05		
		EP3/32IS/MV/MC	no	120/277	I	Normal	0.88	84/83	1.05/1.06		
		EPH3/32IS/MV/MC	no	120/277	I	High	1.18	109/107	1.08/1.10		
	Micro Case	EP3/32IS/MV/MC	no	120/277	I	Low	0.78	75/74	1.04/1.05		
		EP3/32IS/MV/MC/HE	no	120/277	I	Normal	0.88	84/83	1.05/1.06		
EP4/32IS/MV/MC/HE		no	277	I	Normal	0.96	89	1.08			
EPH3/32IS/MV/MC/HE		no	120/277	I	High	1.18	109/107	1.08/1.10			

HP 120 and 277 V T8 Ballasts

Manufacturer	Product Name	Model Number	NEMA ⁴ Premium®	Voltage (V)	Ballast Type ²	Ballast Factor Range	Ballast Factor	Input Watts (W)	BEF ³
		EPL3/321S/MV/MC/HE	no	120/277	I	Low	0.78	75/74	1.04/1.05

HP 120 and 277 V T8 Ballasts

Manufacturer	Product Name	Model Number	NEMA ⁴ Premium®	Voltage (V)	Ballast Type ²	Ballast Factor Range	Ballast Factor	Input Watts (W)	BEF ³
Jefferson Electric	Jefferson	401-4320-UNV	no	277	I	Normal	0.94	89	1.06
Keystone Technologies	High Efficiency	KTEB-332EBF-UV-TP-PIC	no	120/277	I	Low	0.77	74	1.04
		KTEB-332HBF-UV-TP-PIC	no	120/277	I	High	1.18	108	1.09
	Premium Series	KTEB-332-UV-IS-L-P	yes	120/277	I	Low	.78/.77	75/74	1.04
		KTEB-332-UV-IS-N-P	yes	120/277	I	Normal	.87/.88	83/81	1.05/1.09
		KTEB-332-UV-PS-N-P	yes	120/277	P	Normal	0.88	88	1.00
		KTEB-332-UV-PS-L-P	yes	120/277	P	Low	0.77	79	0.97
		KTEB-332-UV-PS-H-P	yes	120/277	P	High	1.18	114	1.04
KTEB-332-UV-IS-H-P	yes	120/277	I	High	1.18	111/108	1.06/1.09		
Maintenance Engineering	Premira Electronic Ballast	BPM933	no	120/277	P	Normal	0.88	81	1.09
Maxlite	High Efficiency Ballast	SKEU323HE	no	120/277	I	Normal	0.96	89	1.08
		SKEU323HEL	no	120/277	I	Normal	0.86	80	1.08
		SKEU323HEL/SC	no	120	I	Low	0.78	74	1.05
		SKEU323HE/SC	no	120/277	I	Normal	0.88	84/83	1.05/1.06
		SKEU323HEH/SC	no	120/277	I	High	1.17	110/108	1.06/1.08
	Electronic Ballast	SKE1323/SC	no	120	I	Normal	0.88	84	1.05
		SKE1323H/SC	no	120	I	High	1.18	109	1.08
		SKEU323H/SC	no	120/277	I	High	1.18	109/107	1.08/1.10
		SKEU323L/SC	no	277	I	Low	0.78	74	1.05
		SKEU323/SC	no	120/277	I	Normal	0.88	85	1.04
		SKE1323	no	120	I	Normal	0.88	75	1.17
		SKE1324	no	120	I	Normal	0.96	91	1.06
		SKE1324L	no	120	I	Low	0.85	77	1.10
		SKEU1324L	no	120	I	Low	0.84	77	1.09
MW McWong International	Electronic Ballast	EB-332PRS-U-ES	yes	120/277	P	Normal	0.88	87/85	1.01/1.03
		EB-332IS-U-ES	yes	120/277	I	Normal	0.88	84/83	1.05/1.06
		EB-332IS-U-ES-LBF	yes	277	I	Low	0.78	74	1.05
		EB-332IS-U-ES-HBF	yes	120/277	I	High	1.18	108/106	1.09/1.11
OSRAM SYLVANIA	Quicktronic	QHE 3X32T8/UNV ISH-SC	yes	120/277	I	High	1.18	111/109	1.06/1.08
		QHE 3x32T8/UNV-PSH-HT	yes	120/277	P	High	1.15	110/108	1.05/1.07
		QHE 3X32T8/UNV ISL-SC	yes	120/277	I	Low	0.78	73/72	1.08
		QHE 3X32T8/UNV ISL-SC1	yes	120/277	I	Low	0.77	73	1.05
		QHE 3X32T8/UNV ISN-SC	yes	120/277	I	Normal	0.88	83 / 82	1.06/1.07
		QHE 3X32T8/UNVISN-SC1	yes	120/277	I	Normal	0.87	82/81	1.06/1.07
		QHE 4X32T8/UNV ISL-SC	yes	120/277	I	Low	0.85	80	1.06
		QHE 4X32T8/UNV ISN-SC	yes	120/277	I	Normal	0.96	90/89	1.07/1.08
		QHE 3X32T8/UNV PSN-SC	yes	120/277	P	Normal	0.88	83/82	1.06/1.07
		QTP 3X32T8/UNV PSN-SC	yes	120/277	P	Normal	0.88	88 / 85	1/1.04
		QTP 3X32T8/UNV PSX-SC	yes	120/277	P	Low	0.71	73/71	.97/1.00
		QTP 3X32T8/UNV ISH-SC	yes	120/277	I	High	1.18	114/111	1.04/1.06
		QTP 3X32T8/UNV ISN-SC	yes	277	I	Normal	0.88	84	1.05
		QTP 3X32T8/UNV ISL-SC	yes	277	I	Low	0.78	75	1.04
		QHE 3x32T8/UNV ISM-SC	yes	120/277	I	Medium	0.98	90/89	1.10
Philips - Advance	Centium	ICN-3P32-SC	yes	277	I	Normal	0.88	84	1.05
		ICN-3P32-LW-SC	yes	120/277	I	Low	0.77	73	1.05
	Optanium	IOP-3P32-HL-90C-SC	yes	120/277	I	High	1.18	110/107	1.07/1.10
		IOP-3S32-SC	yes	120/277	P	Normal	0.88	83	1.06
		IOP-3P32-SC @ 120V	yes	120	I	Normal	0.87	82	1.06
		IOP-3P32-SC @ 277V	yes	277	I	Normal	0.87	80	1.09
		IOP-3P32-LW-SC @ 120V	yes	120	I	Low	0.77	73	1.05
		IOP-3P32-LW-SC @ 277V	yes	277	I	Low	0.77	71	1.08
		IOP-3S32-LW-SC	yes	120/277	P	Low	0.71	72	0.99
		IOPA-3P32 LW-SC	yes	120/277	I	Low	0.77	73/71	1.05/1.08
		IOPA-3P32-SC	yes	120/277	I	Normal	0.87	82/80	1.06/1.09
		IOPA-3P32-HL-SC	yes	120/277	I	High	1.18	110/107	1.07/1.10
		IOP-3PSP32-SC	yes	120/277	P	Normal	0.88	84/85	1.05/1.04
IOPA-4P32-HL	yes	120/277	I	High	1.29	122/120	1.06/1.08		
P.Q.L., Inc.	Superior Life	SL-3/32IS-120/277 (70204)	no	120/277	I	Normal	0.88	84/83	1.05/1.06
		SL-3/32IS-120 (70212)	no	120	I	Normal	0.88	84	1.05
		SL-3/32IS-277 (70203)	no	277	I	Normal	0.88	84	1.05
		SL-3/32IS-120/277 (70205)	no	120/277	I	Normal	0.88	84/83	1.05/1.06
Robertson Worldwide	Sterling Series	ISL332T8HEMVL	yes	120/277	I	Low	0.77	73/72	1.05/1.07
		ISL332T8HEMV	yes	120/277	I	Normal	0.88	83/81	1.06/1.09
Sage Lighting Ltd	Sage	PSL432T8HEMV	yes	277	P	Normal	0.95	94	1.01
		SAU440IS-ROHS	no	120	P	Normal	0.91	89	1.02
SLI Lighting	SLI	SAU440HPIS-ROHS	no	120/277	I	High	1.43	117	1.22
		E3-32-I-UV-L	no	120/277	I	Low	0.78	73	1.07
SOLA Canada Lighting & Power Inc	Sola	E3-32-I-UV-N	no	120/277	I	Normal	0.88	83	1.06
		E3-32-I-UV-H	no	120/277	I	High	1.18	104	1.13
		E-758-F-332	no	120	I	Normal	0.86	82	1.05

3 Lamp Products

HP 120 and 277 V T8 Ballasts

Manufacturer	Product Name	Model Number	NEMA ⁴ Premium®	Voltage (V)	Ballast Type ²	Ballast Factor Range	Ballast Factor	Input Watts (W)	BEF ³	
Standard Products, Inc.	Gold Label	E332T8IS120/N	no	120	I	Normal	0.90	83	1.08	
		E332T8IS120/L	no	120	I	Low	0.78	73	1.07	
		E332T8IS120/L/BULK	no	120	I	Low	0.78	73	1.07	
		E432T8IS120/L	no	120	I	Low	0.85	80	1.06	
		E432T8IS120/N	no	120	I	Normal	0.97	88	1.10	
		E432T8IS120/N/BULK	no	120	I	Normal	1.00	93	1.08	
		E432T8IS120/L/BULK	no	120	I	Low	0.85	80	1.06	
	E432T8IS120/H	no	120	I	High	1.15	109	1.06		
	Optistart	E432T8PRS120-277/N	no	120/277	P	Normal	0.94	89	1.06	
		E432T8PRS120-277/L	no	120/277	P	Normal	0.87	78	1.12	
Sunpark Electronics Corp.	HiLumen	U-3/32IS HPF	yes	120/277	I	Normal	0.89	82.9	1.07	
		U-3/32IS HBF	yes	120/277	I	High	1.17	109.8	1.07	
	Ultra Lumen	U-3/32ISE	yes	120/277	I	Normal	0.88	83	1.06	
		U-3/32ISE-HBF	yes	120/277	I	High	1.18	106	1.11	
		U-3/32ISE-LBF	yes	120/277	I	Low	0.78	74	1.05	
		U-3/32PSE	no	120/277	P	Normal	0.88	85	1.04	
		U-3/32PSE-HBF	no	120/277	P	High	1.18	110	1.07	
Superior Lamps, Inc.	Heavy Duty Electronic Ballast	BPS933	no	120/277	P	Normal	0.88	81	1.09	
SwitchGenie, LLC.	SwitchGenie	SG332	no	120/277	I	Normal	0.88	81	1.09	
Technical Consumer Products, Inc.	E32	E32IS32120H	no	120	I	High	1.20	114	1.05	
		E32IS32277H	no	277	I	High	1.18	112	1.06	
		E432IS32120N	no	120	I	Normal	0.87	80	1.08	
	E432	E432IS32277N	no	277	I	Normal	0.95	89	1.07	
		E432IS32120L	no	120	I	Low	0.84	78	1.07	
		E432IS32120U	no	120	I	Low	0.77	72	1.07	
		E432IS32277L	no	277	I	Low	0.82	77	1.07	
		E432IS32277U	no	277	I	Low	0.77	71	1.08	
		TCP3P32ISUNVLE	yes	277	I	Low	0.78	74	1.05	
			TCP3P2ISUNVE	yes	120/277	I	Normal	0.88	84/83	1.05/1.06
			TCP3P32ISUNVHE	yes	120/277	I	High	1.18	108/106	1.09/1.11
			TCP3P32ISUNVH	yes	120/277	I	High	1.18	109/107	1.08/1.10
			E3P32ISUNVHE	yes	120/277	I	High	1.18	109/107	1.08/1.10
			TCP3P32ISUNV	yes	120/277	I	Normal	0.88	84/83	1.05/1.06
			E3P32ISUNVE	yes	120/277	I	Normal	0.88	84/83	1.05/1.06
TCP3P32ISUNVL			yes	120/277	I	Low	0.78	75/74	1.04/1.05	
E3P32ISUNVLE			yes	120/277	I	Low	0.78	75/74	1.04/1.05	
Topstar International Inc.			T8 Electronic Ballast	BB-T8/UVH-4x32/HPF	no	120	I	Normal	0.90	84
	BB-T8/UVH-3x32/HPF	no		120	I	Normal	0.86	81	1.06	
Ultrasave Lighting Ltd.		UT332120	no	120	I	Normal	0.89	83	1.07	
		UT332120M	no	120/277	I	Normal	0.89	83	1.07	
		UT332120MH	no	120/277	I	High	1.18	110	1.07	
		UT432120	no	120	I	Normal	1.00	93	1.08	
		UT432120M	no	120/277	I	Normal	1.00	93	1.08	
		eT432120M	no	120/277	I	Normal	0.99	92	1.08	
		GTL432120	no	120	I	Normal	0.91	86	1.06	
		UT432120L	no	120	I	Low	0.82	78	1.05	
		UT432120M-HE	no	120	I	Normal	0.96	88	1.09	
		UT332120M-HE	no	120/277	I	Normal	0.87	82	1.06	
		UT332120MH-HE	no	120/277	I	High	1.13	108	1.05	
		UT332120ML-HE	no	120/277	I	Low	0.76	73	1.04	
Universal Lighting Technologies	F32 T8 Ultim8	B332120RHH	yes	120	I	High	1.18	113	1.04	
		B3321277RHH	yes	277	I	High	1.18	113	1.04	
		B3321277RHU-A	yes	277	I	High	1.08	102	1.06	
		B4321277HEH	yes	277	I	High	1.28	119	1.08	
		B3321UNVHP-A	yes	277	I	Normal	0.88	83	1.06	
		B3321120HE	yes	120	I	Normal	0.87	80	1.09	
		B3321277HE	yes	277	I	Normal	0.87	79	1.10	
		B4321120HE	yes	120	I	Normal	0.96	88	1.09	
		B4321277HE	yes	277	I	Normal	0.96	89	1.08	
		B3321UNVHE-A	yes	120/277	I	Normal	0.87	83 / 81	1.05/1.07	
		B4321120EL	yes	120	I	Low	0.84	79	1.06	
		B3321UNVHEH-A	yes	120/277	I	High	1.18	111/108	1.06/1.09	
		B432PUNVHP-A	yes	120/277	P	Normal	0.93	92/90	1.01/1.03	
		B4321UNVHP-A	yes	277	I	Normal	0.94	89	1.06	
		B4321UNVHE-A	yes	120/277	I	Normal	0.96	84/82	1.14/1.17	
		B4321277EL	yes	277	I	Normal	0.87	76	1.14	
		B4321120EL	yes	120	I	Normal	0.85	73	1.16	
		B3321120EL	yes	120	I	Low	0.77	70	1.10	
		B3321UNVEL-A	yes	120/277	I	Low	0.77	74 / 73	1.04/1.05	
		HP T8 Qualified Ballasts with 4 Lamps								
ACCUPRO	High Efficiency	AP-432IP-UNV	yes	120/277	I	Normal	0.88	111/109	.79/81	

HP 120 and 277 V T8 Ballasts

Manufacturer	Product Name	Model Number	NEMA ⁴ Premium®	Voltage (V)	Ballast Type ²	Ballast Factor Range	Ballast Factor	Input Watts (W)	BEF ³
American Ballast	High Efficiency	AB4-32-IP-UNV-HE	yes	120/277	I	Normal	0.88	109	0.81
		AB4-32-IP-UNV-1	yes	120/277	I	Normal	0.88	109	0.81
		AB4-32-IP-UNV-HBF	yes	120/277	I	Normal	1.18	147/144	.80/.82
		AB4-32-IP-UNV-LX	yes	120/277	I	Normal	0.77	96	0.80
Atlas Lighting Products, Inc.	-	EB432UIH	no	120/277	I	High	1.18	140/134	.86/.90
		EB432UI	no	120/277	I	Normal	0.87	109	0.80
Dynamic Ballast	High Efficiency	DY 432 IS WV - HE	no	120/277	I	Normal	0.88	106	0.83
Energy Efficient Lighting Supply	High Efficiency	EEL-ISB-F32-4-MVOLT	no	120/277	I	Normal	.87/.88	106/108	.82/.81
Eспен Technology, Inc.	Elite	VE432MVHIPL	yes	120/277	I	Low	0.77	98/96	0.79/0.80
		VE432MVHIPE	yes	120/277	I	Normal	0.88	110/108	0.80/0.81
		VE432MVHIPHE	yes	120/277	I	High	1.16	145/144	0.80/0.81
		VE432MVHIPH	yes	120/277	I	High	1.16	145	0.80
	Apollo	VE432MVHIPL	yes	120/277	I	Low	0.77	98/96	0.79/0.80
Fulham	Workhorse	WHSG4-UNV-T8-IS	no	120	I	Normal	0.92	114	0.81
		WHSG4-UNV-T8-IS	no	277	I	Normal	0.92	112	0.82
		WHCG4-277-T8-IS	no	277	I	Normal	0.89	110	0.81
Fusion Ballasts	Electronic ballasts	FB432MVE	no	120/277	I	Normal	0.87	108	0.81
		FB432MVE-HE	no	120/277	I	Normal	0.86	106	0.81
General Electric Company	Proline	GE-432-MV-L	yes	120/277	I	Low	0.80	100/98	.80/.82
		GE-432-MV-N	yes	120/277	I	Normal	0.88	110	0.80
		GE-432-MV-H	yes	120/277	I	High	1.18	146/143	.81/.83
	Ultramax	GE-432-MAX-H/Ultra	yes	120/277	I	High	1.18	148/145	.80/.81
		GE-432-MAX-N/Ultra	yes	120/277	I	Normal	0.87	108/106	.81/.82
		GE-432-MAX-L/Ultra	yes	120/277	I	Low	0.77	97/95	.79/.81
		GE-432-MAX-N+	yes	120/277	I	Normal	1.00	121	0.83
		GE-432-MAX-N-42T	yes	120/277	I	Normal	0.87	108/106	.81/.82
		GE-432-MAX-L-42T	yes	120/277	I	Low	0.77	97/95	.79/.81
	Ultrastart	GE-432-MAX-H-42T	yes	120/277	I	High	1.15	148/145	.80/.81
		GE-432-277-PS-N	yes	277	I	Normal	0.88	110	0.80
		GE-432-120-PS-N	yes	120	P	Normal	0.89	112	0.79
		GE-432-MVPS-N	yes	120/277	P	Normal	0.89	114/112	.78/.79
		GE-432-MVPS-L	yes	120/277	P	Low	0.71	88	0.81
		GE-432-MVPS-H	yes	120/277	P	High	1.16	144	0.81
Halco Lighting Technologies	ProLume	EP432IS/L/MV/HE	yes	120/277	I	Low	.78/.77	98/96	0.80
		EP432IS/MV/HE	yes	120/277	I	Normal	.88/.87	110/106	.80/.82
		EP432IS/L/MV/SL	yes	120/277	I	Low	0.77	96	0.80
		HL432AIS/UV/HE/W	no	120/277	I	Normal	.78/.77	98/96	.80/.80
Hatch Lighting	Hatch	HL432BIS/UV/HE/W	no	120/277	I	Normal	.88/.87	110/106	.80/.82
		EL4/32IS-120HEX	no	120	I	Normal	0.87	109	0.80
Howard Industries	HEX Electronic	E4/32IS-277HEX	no	277	I	Normal	0.87	109	0.80
		EL4/32IS-120HEX	no	120	I	Low	0.77	98	0.79
		EL4/32IS-277HEX	no	277	I	Low	0.77	96	0.80
		EPL4/32IS/MV/SC/HE	no	120/277	I	Low	0.75	95 / 94	0.80
	HE High Efficiency	EL4/32IS/MV/SC/HE	no	277	I	Low	0.75	94	0.80
		EP4/32IS/MV/SC/HE	no	120/277	I	Normal	0.87	109/107	.80/.81
		EP4/32IS/MV/MC	no	120/277	I	Normal	0.88	110/108	.80/.81
	Micro Case	EPL4/32IS/MV/MC	no	120/277	I	Low	0.77	98/96	.79/.80
		EP4/32IS/MV/MC/HE	no	120/277	I	Normal	0.88	110/108	.80/.82
		EPL4/32IS/MV/MC/HE	no	120/277	I	Low	0.77	98/96	.79/.80
	Small Case	EPH4/32IS/MV/SC	no	120/277	I	High	1.16	145/144	.80/.81
Jefferson Electric	Jefferson	401-4320-UNV	no	277	I	Normal	0.88	108	0.81
Keystone Technologies	High Efficiency	KTEB-432EBF-UV-TP-PIC	no	120/277	I	Low	0.77	96	0.80
		KTEB-432-UV-IS-L-P	yes	120/277	I	Low	.78/.77	98/96	0.80
	Premium Series	KTEB-432-UV-IS-N-P	yes	120/277	I	Normal	.88/.87	110/106	.80/.82
		KTEB-432-UV-PS-N-P	yes	120/277	P	Normal	0.87	114	0.76
Maintenance Engineering	Premira Electronic Ballast	BPM934	no	120/277	P	Normal	0.87	110	0.79
Maxlite	Anti-Striation	SKEU324AS	no	120/277	I	Normal	0.88	88	1.00
		SKEU324L/SC	no	120/277	I	Low	0.77	98/96	.79/.80
	Electronic Ballasts	SKEU324/SC	no	277	I	Normal	0.88	108	0.82
		SKEU324H/SC	no	120/277	I	High	1.16	145	0.80
		SKEU324HE	no	120/277	I	Normal	0.88	109	0.81
	High Efficiency Ballast	SKEU324HEH/SC	no	120/277	I	High	1.16	145/144	0.80
		SKEU324HEL/SC	no	120/277	I	Low	0.77	98/96	.79/.80
		SKEU324HE/SC	no	120/277	I	Normal	0.88	110/108	.80/.82
SKEU324HEL	no	120/277	I	Low	0.77	95	0.81		
MW McWong International	Electronic Ballast	EB-432IS-U-ES	yes	120/277	I	Normal	0.88	110/108	.80/.81
		EB-432IS-U-ES-LBF	yes	120/277	I	Low	0.77	98/96	.79/.80
		EB-432IS-U-ES-HBF	yes	120/277	I	High	1.16	145/144	.80/.81

Manufacturer	Product Name	Model Number	NEMA ⁴ Premium®	Voltage (V)	Ballast Type ²	Ballast Factor Range	Ballast Factor	Input Watts (W)	BEF ³
OSRAM SYLVANIA	Quicktronic	QHE4x32T8/UNV ISH	yes	120/277	I	High	1.15	144/141	0.80/0.82
		QHE 4X32T8/UNV ISL-SC	yes	120/277	I	Low	0.78	95	0.82
		QHE 4X32T8/UNV ISL-SC-1	yes	120/277	I	Low	0.77	96	0.80
		QHE 4X32T8/UNV ISN-SC	yes	120/277	I	Normal	0.88	108/107	0.81/0.82
		QHE 4X32T8/UNV ISN-SC-1	yes	120/277	I	Normal	0.87	109/107	.80/.81
		QHE 4x32T8/UNV-PSH-HT	yes	120/277	P	High	1.15	143/141	.80/.82
		QHE 4x32T8/UNV-PSN-SC	yes	120/277	P	Normal	0.88	111/108	.79/.81
		QTP 4X32T8/UNV PSN-SC	yes	120/277	P	Normal	0.88	118/113	.75/.78
		QTP 4X32T8/UNV PSX-SC	yes	120/277	P	Low	0.71	93/91	.76/.78
		QTP 4X32T8/UNV ISL-SC	yes	120/277	I	Low	0.78	98	0.80
		QTP 4X32T8/UNV ISN-SC	yes	277	I	Normal	0.88	110	0.80
		QHE 4x32T8/UNV ISM-SC	yes	120/277	I	Medium	0.98	122/120	0.80/0.82
Philips - Advance	Centium	ICN-4P32-LW-SC	yes	120/277	I	Low	0.77	95	0.81
		ICN-4P32-SC	yes	120/277	I	Normal	0.89	111	0.80
	Optanium	IOP-4P32-HL-90C-G	yes	120/277	I	High	1.18	148/144	0.80/0.82
		IOP-4S32-SC	yes	120/277	P	Normal	0.88	109	0.81
		IOP-4P32-SC @ 120V	yes	120	I	Normal	0.87	108	0.81
		IOP-4P32-SC @ 277V	yes	277	I	Normal	0.87	106	0.82
		IOP-4P32-LW-SC @ 120V	yes	120	I	Low	0.77	97	0.79
		IOP-4P32-LW-SC @ 277V	yes	277	I	Low	0.77	95	0.81
		IOP-4S32-LW-SC	yes	120/277	P	Low	0.71	92	0.77
		IOPA-4P32-LW-SC	yes	120/277	I	Low	0.77	94	0.82
IOPA-4P32-SC	yes	120/277	I	Normal	0.87	106	0.82		
IOP-4PSP32-SC	no	120/277	P	Normal	0.88	109/110	.81/.80		
IOPA-4P32-HL	yes	120/277	I	High	1.18	152/148	.78/.80		
P.Q.L., Inc.	Superior Life	SL-4/32IS-120/277 (70204)	no	120/277	I	Normal	0.87	109/107	.80/.81
		SL-4/32IS-120 (70212)	no	120	I	Normal	0.88	110	0.80
		SL-4/32IS-277 (70203)	no	277	I	Normal	0.88	110	0.80
		SL-4/32IS-120 (70205)	no	120	I	Normal	0.87	109/107	.80/.81
Robertson Worldwide	Sterling Series	ISL432T8HEMVL	yes	120/277	I	Low	0.77	95/94	0.81/0.82
		ISL432T8HEMV	yes	120/277	I	Normal	0.88	110/108	0.8/0.81
Sage Lighting Ltd	Sage	PSL432T8HEMV	yes	120/277	P	Normal	.87/.88	113/112	.77/.79
		SAU440IS-ROHS	no	120/277	P	Normal	0.88	107	0.82
SLI Lighting	SLI	SAU440HPIS-ROHS	no	120/277	I	High	1.33	143	0.93
		E4-32-I-UV-L	no	120/277	I	Low	0.78	95/96	0.82
		E4-32-I-UV-N	no	120/277	I	Normal	0.87	106	0.82
SOLA Canada Lighting & Power	Sola	E4-32-I-UV-H	no	120/277	I	High	1.20	140/134	.86/.90
		E-758-F-432SC	no	120	I	Normal	0.91	112	0.81
Standard Products, Inc.	Gold Label	E-758-U-432SC	no	120/277	I	Normal	0.91	13	0.81
		E432T8IS120/L	no	120	I	Low	0.78	95	0.82
		E432T8IS120/N	no	120	I	Normal	0.85	105	0.81
		E432T8IS120/N/BULK	no	120	I	Normal	0.88	108	0.81
		E432T8IS120/L/BULK	no	120	I	Low	0.78	95	0.82
Sunpark Electronics Corp.	Optistart	E432T8IS120/H	no	120	I	High	1.15	109	1.06
		E432T8PRS120-277/L	no	120/277	P	Low	0.77	101	0.77
Superior Lamps, Inc.	HiLumen	U-4/32IS HPF	yes	120/277	I	Normal	0.88	109	0.81
		U-4/32IS HBF	yes	120/277	I	High	1.17	149.8	0.79
		U-4/32IS LBF	yes	120/277	I	Low	0.78	97.2	0.80
	Ultra Lumen	U-4/32ISE	yes	120/277	I	Normal	0.88	108	0.81
		U-4/32ISE-HBF	yes	120/277	I	High	1.16	144	0.81
U-4/32ISE-LBF	yes	120/277	I	Low	0.77	96	0.80		
SwitchGenie, LLC.	SwitchGenie	BPS934	no	120/277	P	Normal	0.87	110	0.79
Technical Consumer Products, Inc.	E432	SG432	no	120/277	I	Normal	0.88	108	0.81
		E432IS32120N	no	120	I	Normal	0.87	107	0.81
		E432IS32277N	no	277	I	Normal	0.88	108	0.82
		E432IS32120L	no	120	I	Low	0.78	95	0.82
		E432IS32120U	no	120	I	Low	0.72	84	0.85
		E432IS32277L	no	277	I	Low	0.75	92	0.82
	E432IS32277U	no	277	I	Low	0.70	85	0.82	
	-	TCP4P32ISUNVLE	yes	120/277	I	Low	0.77	98/96	.79/.80
		TCP4P32ISUNVE	yes	120/277	I	Normal	0.88	110/108	.80/.82
		TCP4P32ISUNVHE	yes	120/277	I	High	1.16	145/144	.80/.81
		TCP4P32ISUNVH	yes	120/277	I	High	1.18	147/145	0.80/0.81
		E4P32ISUNVHE	yes	120/277	I	High	1.18	147/145	0.80/0.81
		TCP4P32ISUNV	yes	120/277	I	Normal	0.88	110/108	0.80/0.81
		E4P32ISUNVE	yes	120/277	I	Normal	0.88	110/108	0.80/0.81
TCP4P32ISUNVL		yes	120/277	I	Low	0.77	96/95	0.80/0.81	
E4P32ISUNVLE	yes	120/277	I	Low	0.77	96/95	0.80/0.81		
Topstar International Inc.	T8 Electronic Ballast	BB-T8/UVH-4x32/HPF	no	120	I	Normal	0.86	108	0.80

HP 120 and 277 V T8 Ballasts

Manufacturer	Product Name	Model Number	NEMA ⁴ Premium®	Voltage (V)	Ballast Type ²	Ballast Factor Range	Ballast Factor	Input Watts (W)	BEF ³
Ultrasave Lighting Ltd	-	UT432120L	no	120	I	Low	0.71	93	0.76
		eT432120M	no	120/277	I	Normal	0.87	108	0.81
		GTL432120	no	120	I	Low	0.82	101	0.81
		UT432120MH	no	120/277	I	High	1.18	146	0.81
		UT432120M-HE	no	120	I	Normal	0.86	106	0.81
		UT432120L-HE	no	120	I	Low	0.79	100	0.79
Universal Lighting Technologies	F32 T8	UT432120ML-HE	no	120/277	I	Low	0.76	96	0.79
		B432I277HEH	yes	277	I	High	1.18	145	0.81
		B432I120HE	yes	120	I	Normal	0.87	100	0.87
		B432PUNVHP-A	yes	277	P	Normal	0.88	115	0.77
		B432IUNV-D	yes	277	I	Normal	0.88	109	0.81
		B432I277RH-A	yes	277	I	Normal	0.88	110	0.80
		B432IUNVHP-A	yes	277	I	Normal	0.88	108	0.81
		B432I277HE	yes	277	I	Normal	0.87	105	0.83
		B432IUNVHE-A	yes	120/277	I	Normal	0.87	109/106	0.80/0.82
		B423I120HE	yes	120	I	Normal	0.87	106	0.82
		B432I277L-A	yes	277	I	Low	0.78	98	0.76
		B432I120EL	yes	120	I	Low	0.77	95	0.81
		B432I277EL	yes	277	I	Low	0.77	93	0.82
B432IUNVEL-A	yes	120/277	I	Low	0.77	97/96	0.79/0.80		
HP T8 Qualified Ballasts with 6 Lamps									
General Electric Company	UltraMax	GE632MAX-H90	yes	120/277	I	High	1.18	221/215	.53/.55

6 Lamp

¹ CEE's specification uses the BALLAST EFFICACY FACTOR (BEF) as the true measure of efficiency. The input watt figure calculations are based on a premium 4, 32V T8 reference lamp.

P signifies programmed start, I signifies instant start, D signifies dimming capabilities

³ BEF is calculated by multiplying the Ballast Factor by 100 and dividing by the input watts, except for Howard Industries and Standard Products, which provide the information in their catalog.

⁴ NEMA Premium® is a trademark of the National Electrical Manufacturers Association. It is an identifiable certification mark for manufacturers to use on products that meet the ballast portion of CEE's current specification for High Performance Lighting Systems. The label is available to all manufacturers that enroll in the NEMA Premium® program and sign a Memorandum of Understanding and Licensing agreement with NEMA.