



Ballast Compatibility List

Espen Retroflex LED T8 Lamps

Applicable to: L48T8/835/22W-EB, L48T8/840/22W-EB, L48T8/850/22W-EB, L36T8/835/17W-EB, L36T8/840/17W-EB, L36T8/850-EB, L24T8/835/12W-EB, L24T8/840/12W-EB, L24T8/850/12W-EB

Table 1: Instant Start Ballasts

Manufacturer	Ballast Model	Compatibility
Espen	VE132120HIP	Compatible
Espen	VE232120HIP	Compatible
Espen	VE332120HIP	Compatible
Espen	VE432120HIP	Compatible
Espen	VE232120MIP	Compatible
Espen	VE332120MIP	Compatible
Espen	VE432120MIP	Compatible
Espen	VE132MVHIP	Compatible
Espen	VE232MVHIP	Compatible
Espen	VE332MVHIP	Compatible
Espen	VE432MVHIP	Compatible
Espen	VE232MVHIPL	Compatible
Espen	VE332MVHIPL	Compatible
Espen	VE432MVHIPL	Compatible
Espen	VE232MVHIPH	Compatible
Espen	VE332MVHIPH	Compatible
Espen	VE432MVHIPH	Compatible
Espen	VE232MVHIPE	Compatible
Espen	VE332MVHIPE	Compatible
Espen	VE432MVHIPE	Compatible
Espen	VE232MVHIPL	Compatible
Espen	VE332MVHIPL	Compatible
Espen	VE432MVHIPL	Compatible
Espen	VE232MVHIPHE	Compatible
Espen	VE332MVHIPHE	Compatible
Espen	VE432MVHIPHE	Compatible
Espen	VE2P32MVHIPE	Compatible
Espen	VE3P32MVHIPE	Compatible
Espen	VE4P32MVHIPE	Compatible

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Espen	VE2P32MVHIPLE	Compatible
Espen	VE3P32MVHIPLE	Compatible
Espen	VE4P32MVHIPLE	Compatible
Espen	VE2P32MVHIPLE	Compatible
Espen	VE3P32MVHIPHE	Compatible
Espen	VE4P32MVHIPHE	Compatible
Espen	VE232347MVHIPE	Compatible
Espen	VE332347MVHIPE	Compatible
Espen	VE432347MVHIPE	Compatible
Espen	VE232347MVHIPLE	Compatible
Espen	VE332347MVHIPLE	Compatible
Espen	VE432347MVHIPLE	Compatible
Espen	VE232347MVHIPHE	Compatible
Espen	VE332347MVHIPHE	Compatible
Espen	VE432347MVHIPHE	Compatible
Philips	ICN-1P32-N	Compatible
Philips	ICN-2P32-N	Compatible
Philips	ICN-3P32-N	Compatible
Philips	ICN-4P32-N	Compatible
Philips	IOPA-1P32-N	Compatible
Philips	IOPA-2P32-N	Compatible
Philips	IOPA-3P32-N	Compatible
Philips	IOPA-4P32-N	Compatible
Philips	IOPA-2P32-LW-N	Compatible
Philips	IOPA-3P32-LW-N	Compatible
Philips	IOPA-4P32-LW-N	Compatible
Philips	IOPA-1P32-HL-N	Compatible
Philips	IOPA-2P32-HL-N	Compatible
Philips	IOPA-3P32-HL-N	Compatible
Philips	IOPA-4P32-HL-SC	Compatible
Philips	IOPA-4P32-HL-90C-G	Compatible
Philips	GOPA-1P32-SC	Compatible
Philips	GOPA-2P32-SC	Compatible
Philips	GOPA-3P32-SC	Compatible
Philips	GOPA-4P32-SC	Compatible
Philips	GOPA-1P32-LW-SC	Compatible
Philips	GOPA-2P32-LW-SC	Compatible
Philips	GOPA-3P32-LW-SC	Compatible
Philips	GOPA-4P32-LW-SC	Compatible
Universal	B132IUNVHP-N	Compatible
Universal	B232IUNVHP-N	Compatible
Universal	B332IUNVHP-A	Compatible
Universal	B432IUNVHP-A	Compatible
Universal	B132IUNVHE-A	Compatible

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Universal	B232IUNVHE-A	Compatible
Universal	B332IUNVHE-A	Compatible
Universal	B432IUNVHE-A	Compatible
Universal	B132IUNVEL-A	Compatible
Universal	B232IUNVEL-A	Compatible
Universal	B332IUNVEL-A	Compatible
Universal	B432IUNVEL-A	Compatible
Universal	B232IUNVHEH-A	Compatible
Universal	B332IUNVHEH-A	Compatible
Universal	B432I277HEH	Compatible
GE	GE-132-MV-N	Compatible
GE	GE-232-MV-N	Compatible
GE	GE-332-MV-N	Compatible
GE	GE-232-MV-N-DIY	Compatible
GE	GE-332-MV-N-DIY	Compatible
GE	GE-432-MV-N-DIY	Compatible
GE	GE232MAX-N/ULTRA	Compatible
GE	GE332MAX-N/ULTRA	Compatible
GE	GE232MAX-L/ULTRA	Compatible
GE	GE332MAX-L/ULTRA	Compatible
GE	GE432MAX-L/ULTRA	Compatible
GE	GE132MAX-H/ULTRA	Compatible
GE	GE232MAX-H/ULTRA	Compatible
GE	GE332MAX-H/ULTRA	Compatible
GE	GE432MAX-H/ULTRA	Compatible
GE	GE232MAX347-N	Compatible
GE	GE432MAX347-N	Compatible
GE	GE232-120RES-DIY	Compatible
GE	GE432-120RES-DIY	Compatible
Sylvania	QTP 1X32T8/UNV ISN-SC	Compatible
Sylvania	QTP 2X32T8/UNV ISN-SC	Compatible
Sylvania	QTP 3X32T8/UNV ISN-SC	Compatible
Sylvania	QTP 4X32T8/UNV ISN-SC	Compatible
Sylvania	QHE 1x32T8/UNV ISN-SC	Compatible
Sylvania	QHE 2X32T8/UNV ISN-SC	Compatible
Sylvania	QHE 3x32T8/UNV ISN-SC	Compatible
Sylvania	QHE 4X32T8/UNV ISN-SC	Compatible
Sylvania	QHE 1x32T8/UNV ISL-SC	Compatible
Sylvania	QHE 2X32T8/UNV ISL-SC	Compatible
Sylvania	QHE 3x32T8/UNV ISL-SC	Compatible
Sylvania	QHE 4X32T8/UNV ISL-SC	Compatible
Sylvania	QHE 1x32T8/UNV ISH-SC	Compatible
Sylvania	QHE 3x32T8/UNV ISH-SC	Compatible
Sylvania	QHE 1X32T8/UNV ISH HT	Compatible

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Sylvania	QHE 2X32T8/UNV ISH HT	Compatible
Sylvania	QHE 1X32T8/UNV ISN-SC-1	Compatible
Sylvania	QHE 2X32T8/UNV ISN-SC-1	Compatible
Sylvania	QHE 3x32T8/UNV ISN-SC-1	Compatible
Sylvania	QHE 4x32T8/UNV ISN-SC-1	Compatible
Sylvania	QHE 2x32T8/UNV ISL-SC-1	Compatible
Sylvania	QHE 4x32T8/UNV ISL-SC-1	Compatible
Ultrasave	UT232347	Compatible
Ultrasave	UT332347	Compatible
Ultrasave	UT432347	Compatible
Ultrasave	UT232120M	Compatible
Ultrasave	UT332120M	Compatible
Ultrasave	UT432120M	Compatible

Table 2: Program Start Ballasts

Manufacturer	Ballast Model	Compatibility
Espen	VE232MVHRPE	Compatible
Espen	VE332MVHRPE	Compatible
Espen	VE232MVHRPLE	Compatible
Espen	VE332MVHRPLE	Compatible
Espen	VE232MVHRPHE	Compatible
Espen	VE332MVHRPHE	Compatible
Espen	VE2P32MVHPPE	Compatible
Espen	VE3P32MVHPPE	Compatible
Espen	VE4P32MVHPPE	Compatible
Espen	VE2P32MVHPPLE	Compatible
Espen	VE3P32MVHPPLE	Compatible
Espen	VE4P32MVHPPLE	Compatible
Espen	VE2P32MVHPPHE	Compatible
Espen	VE3P32MVHPPHE	Compatible
Espen	VE4P32MVHPPHE	Compatible

Table 3: Dimming Ballasts

Manufacturer	Ballast Model	Compatibility
Philips	REZ-2S32-SC	Compatible
Philips	REZ-3S32-SC	Compatible
Espen	VE239MVHRPD-10	Compatible
Espen	VE232MVHRPT3-AB	Compatible
Espen	VE332MVHRPT3-AB	Compatible

Life Ratings:

For ballast with normal ballast factor (BF=0.88) and low ballast factor (BF=0.78), Espen Retroflex lams are rated for 50,000 hours. For ballast with high ballast factor (BF > 1.00), Espen Retroflex are rated for 40,000 hours.

Energy Savings:

For a 2 lamp F32T8 instant system with BF=0.88, average system wattage 58W with 4400 lm, vs. 2 lamp Espen Retroflex system, average system wattage 44W with 4400 lm. 58-44=14W, 25% of energy saved, with equivalent lumen.

Please contact Espen for information about ballasts not on the list. Information in this document is subject to change without prior notice.