PHILIPS

Ballast/driver compatibility guide

InstantFit LED lamps

Applicable part numbers for all InstantFit lamps:

452011	452029	452037	452045	452052	452060	452078	452086	453589	453597	453605	453613	456897	456905
456913	456921	463133	463141	463158	456566	456574	456590	456608	456616	456624	452664	452672	452680
452698	456632	456640	456657	458406	458414	458422	458430	458364	458372	458380	458398		

InstantFit drivers[1,2]

			8.5W 1050lm (2ft.)	10.5W 1200lm (3ft.)	12W 1600lm (4ft.)	15W 2100lm (4ft.)	16.5W 2500lm (4ft.)	17W 2100 lm (4ft. Glass)	16.5W 2100lm (U- Bent)[5]
		Grainger Lamp Part Number	32MX87, 32MX88 32MX89, 32MX90	32MX91, 32MX92 32MX93, 32MX94	49H098, 49H099 49H101, 49H102	44ZA82, 44ZA78 44ZA86, 44ZA91	48RE88, 48RE89, 48RE90	40CP62, 40CP61 Sourcing, Sourcing Sourcing, Sourcing	32MX79, 32MX80 32MX81, 32MX82
		Philips Lamp Part Number	452011, 452029 452037, 452045	452052, 452060 452078, 452086	453589, 453597 453605, 453613	456897, 456905 456913, 456921	463133, 463141, 463158	456566, 456574 456590, 456608 456616, 456624	452664, 452672, 452680, 452698
Manufacturer	Grainger Number	Ballast Model	System Certified[3]/ Certified[4]	System Certified[3]/ Certified[4]	System Certified[3]/ Certified[4]	System Certified[3]/ Certified[4]	System Certified[3]/ Certified[4]	System Certified[3]/ Certified[4]	System Certified[3]/ Certified[4]
Philips Advance	45MX70	ICN-2P16-TLED-N	System Certified	System Certified	System Certified	System Certified	System Certified		System Certified
Philips Advance	45MX71	ICN-4P16-TLED-N	System Certified	System Certified	System Certified	System Certified	System Certified		

Systems on this page are:

See footnotes on Page 8.

T8 instant-start ballasts[1]

			8.5W 1050lm (2ft.)	10.5W 1200lm (3ft.)	12W 1600lm (4ft.)	15 W 2100 lm (4ft.)	16.5W 2500lm (4ft.)	17W 2100 lm (4ft. Glass)	16.5W 2100lm (U- Bent)[5]
	Grainger Lamp Part Number		32MX87, 32MX88 32MX89, 32MX90	32MX91, 32MX92 32MX93, 32MX94	49H098, 49H099 49H101, 49H102	44ZA82, 44ZA78 44ZA86, 44ZA91	48RE88, 48RE89, 48RE90	40CP62, 40CP61 Sourcing, Sourcing Sourcing, Sourcing	32MX79, 32MX80 32MX81, 32MX82
	Philips Lamp Part Number		452011, 452029 452037, 452045	452052, 452060 452078, 452086	453589, 453597 453605, 453613	456897, 456905 456913, 456921	463133, 463141, 463158	456566, 456574 456590, 456608 456616, 456624	452664, 452672, 452680, 452698
Manufacturer	Grainger Number	Ballast Model	System Certified[3]/ Certified[4]	System Certified[3]/ Certified[4]	System Certified[3]/ Certified[4]	System Certified[3]/ Certified[4]	System Certified[3]/ Certified[4]	System Certified[3]/ Certified[4]	System Certified[3]/ Certified[4]
Philips Advance	3HHH4	ICN-1P32-N	System Certified	System Certified	System Certified	System Certified			
Philips Advance	2MCX5	ICN-2P32-N	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified
Philips Advance	1VN21	ICN-3P32-N	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	
Philips Advance	1VN22	ICN-4P32-N	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	
Philips Advance	5PTN3	IOPA-1P32-N	Not Recommended	System Certified	System Certified	Not Recommended	Not Recommended	Not Recommended	Not Recommended
Philips Advance	5PTN4	IOPA-2P32-N	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified
Philips Advance	21AN20	IOPA-3P32-N	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	
Philips Advance	36N040	IOPA-4P32-N	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	
Philips Advance	5PTN6	IOPA-2P32-LW-N	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified
Philips Advance	21AN21	IOPA-3P32-LW-N	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	
Philips Advance	41H214	IOPA-4P32-LW-N	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	
Philips Advance	5PTN7	IOPA-1P32-HL-N	System Certified	System Certified	System Certified			System Certified	
Philips Advance	4TLK5	IOPA-2P32-HL-N	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified
Philips Advance	4TLK6	IOPA-3P32-HL-N	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	
Philips Advance	34GN63	IOPA-4P32-HL-SC	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	
Philips Advance	Sourcing	GOPA-1P32-SC	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	
Philips Advance	Sourcing	GOPA-2P32-SC	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified
Philips Advance	Sourcing	GOPA-3P32-SC	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	
Philips Advance	Sourcing	GOPA-4P32-SC	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	
Philips Advance	Sourcing	GOPA-1P32-LW-SC	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	
Philips Advance	Sourcing	GOPA-2P32-LW-SC	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified
Philips Advance	Sourcing	GOPA-3P32-LW-SC	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	
Philips Advance	Sourcing	GOPA-4P32-LW-SC	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	
Philips Advance	Sourcing	RES-2P32-N	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified
Philips Advance	Sourcing	REB-2P32-SC	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified
Philips Advance	Sourcing	REB-4P32-SC	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	

See footnotes on Page 8.

T8 instant–start ballasts[1]

			8.5W 1050lm (2ft.)	10.5W 1200lm (3ft.)	12W 1600lm (4ft.)	15 W 2100 lm (4ft.)	16.5W 2500lm (4ft.)	17W 2100 lm (4ft. Glass)	16.5W 2100lm (U- Bent)[5]
		Grainger Lamp Part Number	32MX87, 32MX88 32MX89, 32MX90	32MX91, 32MX92 32MX93, 32MX94	49H098, 49H099 49H101, 49H102	44ZA82, 44ZA78 44ZA86, 44ZA91	48RE88, 48RE89, 48RE90	40CP62, 40CP61 Sourcing, Sourcing Sourcing, Sourcing	32MX79, 32MX80 32MX81, 32MX82
		Philips Lamp Part Number	452011, 452029 452037, 452045	452052, 452060 452078, 452086	453589, 453597 453605, 453613	456897, 456905 456913, 456921	463133, 463141, 463158	456566, 456574 456590, 456608 456616, 456624	452664, 452672, 452680, 452698
Manufacturer	Grainger Number	Ballast Model	System Certified[3]/ Certified[4]	System Certified[3]/ Certified[4]	System Certified[3]/ Certified[4]	System Certified[3]/ Certified[4]	System Certified[3]/ Certified[4]	System Certified[3]/ Certified[4]	System Certified[3]/ Certified[4]
Fulham Co. Inc	N/A	WH3-120-L	System Certified	System Certified	System Certified	System Certified		System Certified	System Certified
Fulham Co. Inc	N/A	WH3-277-L	System Certified	System Certified	System Certified	System Certified		System Certified	System Certified
Fulham Co. Inc	N/A	WH5-120-L	System Certified	System Certified	System Certified	System Certified		System Certified	
Fulham Co. Inc	N/A	WH5-277-L	System Certified	System Certified	System Certified				
Fulham Co. Inc	N/A	WHSG1-UNV-T8-IS	Not Recommended	System Certified	System Certified	System Certified		System Certified	
Fulham Co. Inc	N/A	WHSG2-UNV-T8-IS	System Certified	System Certified	System Certified	System Certified		System Certified	System Certified
Fulham Co. Inc	N/A	WHSG2-UNV-T8-LB		System Certified	System Certified	System Certified		System Certified	System Certified
Fulham Co. Inc	N/A	WHSG3-UNV-T8-IS	Not Recommended	Not Recommended	System Certified	System Certified		System Certified	
Fulham Co. Inc	N/A	WHSG3-UNV-T8-LB	Not Recommended	Not Recommended	System Certified				
Fulham Co. Inc	N/A	WHSG3-UNV-T8-HB	Not Recommended	Not Recommended	System Certified	System Certified		System Certified	
Fulham Co. Inc	N/A	WH42-UNV-L	System Certified	System Certified	System Certified	System Certified		System Certified	System Certified
Fulham Co. Inc	N/A	WH43-UNV-L	Not Recommended	Not Recommended	System Certified	System Certified		System Certified	System Certified
Fulham Co. Inc	N/A	WH44-UNV-L	Not Recommended	Not Recommended	System Certified	System Certified		System Certified	System Certified
Fulham Co.Inc / Leviton	N/A	Zipline (361RC-Z03)	Not Recommended	Not Recommended	System Certified				
General Electric	N/A	GE-132-MV-N		Certified	Certified	Certified	Certified	Certified	
General Electric	N/A	GE-232-MV-N	Certified	Certified	Certified	Certified	Certified	Certified	Certified
General Electric	N/A	GE-332-MV-N	Certified	Certified	Certified	Certified	Certified	Certified	
General Electric	N/A	GE-232-MV-N-DIY	Certified	Certified	Certified	Certified	Certified	Certified	Certified
General Electric	N/A	GE-332-MV-N-DIY	Certified	Certified	Certified	Certified	Certified	Certified	
General Electric	N/A	GE-432-MV-N-DIY	Certified	Certified	Certified	Certified	Certified	Certified	
General Electric	N/A	GE232MAX-N/ULTRA	Certified	Certified	Certified	Certified	Certified	Not Recommended	Certified
General Electric	N/A	GE432MAX-N/ULTRA	Not Recommended	Not Recommended	Not Recommended	Certified	Certified	Certified	
General Electric	N/A	GE232MAX-L/ULTRA	Certified	Certified	Certified	Certified	Certified	Certified	Certified
General Electric	N/A	GE332MAX-L/ULTRA	Not Recommended	Certified	Certified	Certified	Certified	Certified	
General Electric	N/A	GE132MAX-H/ULTRA		Certified	Certified	Certified	Certified	Certified	
General Electric	N/A	GE232MAX-H/ULTRA	Certified	Certified	Certified	Certified	Not Recommended	Not Recommended	Certified
General Electric	N/A	GE332MAX-H/ULTRA	Not Recommended	Not Recommended	Not Recommended	Certified	Certified	Certified	
General Electric	N/A	GE432MAX-H/ULTRA	Certified	Certified	Certified	Certified	Certified	Certified	
General Electric	N/A	GE232MAX347-N	Certified	Certified	Certified		Certified		Certified
General Electric	N/A	GE432MAX347-N	Certified	Certified	Certified	Certified	Certified	Certified	
General Electric	N/A	GE232-120RES-DIY	Certified	Certified	Certified	Certified	Certified	Certified	Certified
General Electric	N/A	GE432-120RES-DIY	Certified	Certified	Certified	Certified	Certified	Certified	

See footnotes on Page 8.

T8 instant–start ballasts[1]

			8.5W 1050lm (2ft.)	10.5W 1200lm (3ft.)	12W 1600lm (4ft.)	15 W 2100 lm (4ft.)	16.5W 2500lm (4ft.)	17W 2100 lm (4ft. Glass)	16.5W 2100lm (U–Bent)[5]
	Grainger Lamp Part Number		32MX87, 32MX88 32MX89, 32MX90	32MX91, 32MX92 32MX93, 32MX94	49H098, 49H099 49H101, 49H102	44ZA82, 44ZA78 44ZA86, 44ZA91	48RE88, 48RE89, 48RE90	40CP62, 40CP61 Sourcing, Sourcing Sourcing, Sourcing	32MX79, 32MX80 32MX81, 32MX82
	Philips Lamp Part Number		452011, 452029 452037, 452045	452052, 452060 452078, 452086	453589, 453597 453605, 453613	456897, 456905 456913, 456921	463133, 463141, 463158	456566, 456574 456590, 456608 456616, 456624	452664, 452672, 452680, 452698
Manufacturer	**Grainger Number**	**Ballast Model**	**System Certified[3]/ Certified[4]**	**System Certified[3]/ Certified[4]**	**System Certified[3]/ Certified[4]**	**System Certified[3]/ Certified[4]**	**System Certified[3]/ Certified[4]**	**System Certified[3]/ Certified[4]**	**System Certified[3]/ Certified[4]**
Osram Sylvania	N/A	QTP 1x32T8/UNV ISN-SC	Certified	Certified	Certified	Certified	Certified	Certified	
Osram Sylvania	N/A	QTP 2x32T8/UNV ISN-SC	Certified	Certified	Certified	Certified	Certified	Certified	Certified
Osram Sylvania	N/A	QTP 3x32T8/UNV ISN-SC	Certified	Certified	Certified	Certified	Certified	Certified	
Osram Sylvania	N/A	QTP 4x32T8/UNV ISN-SC	Certified	Certified	Certified	Certified	Certified	Certified	
Osram Sylvania	N/A	QHE 1x32T8/UNV ISN-SC	Certified	Certified	Certified	Certified	Certified	Certified	
Osram Sylvania	N/A	QHE 2x32T8/UNV ISN-SC	Certified	Certified	Certified	Certified	Certified	Certified	Certified
Osram Sylvania	N/A	QHE 3x32T8/UNV ISN-SC	Certified	Certified	Certified	Certified	Certified	Certified	
Osram Sylvania	N/A	QHE 4x32T8/UNV ISN-SC	Certified	Certified	Certified	Certified	Certified	Certified	
Osram Sylvania	N/A	QHE 1x32T8/UNV ISL-SC	Certified	Certified	Certified	Certified	Certified	Certified	
Osram Sylvania	N/A	QHE 2x32T8/UNV ISL-SC	Certified	Certified	Certified	Certified	Certified	Certified	Certified
Osram Sylvania	N/A	QHE 3x32T8/UNV ISL-SC	Certified	Certified	Certified	Certified	Certified	Certified	
Osram Sylvania	N/A	QHE 4x32T8/UNV ISL-SC	Certified	Certified	Certified	Certified	Certified	Certified	
Osram Sylvania	N/A	QHE 1x32T8/UNV ISH-SC	Certified	Certified	Certified	Certified	Certified	Certified	
Osram Sylvania	N/A	QHE 3x32T8/UNV ISH-SC	Not Recommended	Not Recommended	Not Recommended	Certified	Certified	Certified	
Osram Sylvania	N/A	QHE 4x32T8/UNV ISH	Certified	Certified	Certified	Certified	Certified	Certified	
Osram Sylvania	N/A	QHE 1x32T8/UNV ISH HT SC	Certified	Certified	Certified	Certified	Certified	Certified	
Osram Sylvania	N/A	QHE 2x32T8/UNV ISH HT SC	Certified	Certified	Certified	Certified	Certified	Certified	Certified
Osram Sylvania	N/A	QHE 1x32T8/UNV ISN-SC-1	Certified	Certified	Certified	Certified	Certified	Certified	
Osram Sylvania	N/A	QHE 2x32T8/UNV ISN-SC-1	Certified	Certified	Certified	Certified	Certified	Certified	Certified
Osram Sylvania	N/A	QHE 4X32T8/UNV ISH-HT-1			Certified	Certified	Certified	Certified	
Osram Sylvania	N/A	QHE 3x32T8/UNV ISN-SC-1	Certified	Certified	Certified	Certified	Certified	Certified	
Osram Sylvania	N/A	QHE 4x32T8/UNV ISN-SC-1	Certified	Certified	Certified	Certified	Not Recommended	Certified	
Osram Sylvania	N/A	QHE 2x32T8/UNV ISL-SC-1	Certified	Certified	Certified	Certified	Certified	Certified	Certified
Osram Sylvania	N/A	QHE 4x32T8/UNV ISL-SC-1	Certified	Certified	Certified	Certified	Certified	Certified	
Ultrasave	N/A	UT232347	Certified	Certified	Certified	Certified	Certified	Certified	Certified
Ultrasave	N/A	UT432347	Certified	Certified	Certified	Certified	Certified	Certified	
Universal Lighting Technologies	N/A	B132IUNVHP-N	Certified	Certified	Certified	Certified	Certified	Certified	
Universal Lighting Technologies	N/A	B232IUNVHP-N	Certified	Certified	Certified	Certified	Certified	Certified	Certified
Universal Lighting Technologies	N/A	B332IUNVHP-A		Certified	Certified	Certified	Certified	Certified	
Universal Lighting Technologies	N/A	B432IUNVHP-A	Certified	Certified	Certified	Certified	Certified	Certified	
Universal Lighting Technologies	N/A	B132IUNVHE-A	Certified	Certified	Certified	Certified	Certified	Certified	
Universal Lighting Technologies	N/A	B232IUNVHE-A	Certified	Certified	Certified	Certified	Certified	Certified	Certified
Universal Lighting Technologies	N/A	B332IUNVHE-A	Certified	Certified	Certified	Certified	Certified	Certified	
Universal Lighting Technologies	N/A	B432IUNVHE-A	Certified	Certified	Certified	Certified	Certified	Certified	
Universal Lighting Technologies	N/A	B132IUNVEL-A	Certified	Certified	Certified	Certified	Certified	Certified	
Universal Lighting Technologies	N/A	B232IUNVEL-A	Certified	Certified	Certified	Certified	Certified	Certified	Certified
Universal Lighting Technologies	N/A	B332IUNVEL-A	Certified	Certified	Certified	Certified	Certified	Certified	
Universal Lighting Technologies	N/A	B432IUNVEL-A	Certified	Certified	Certified	Certified	Certified	Certified	
Universal Lighting Technologies	N/A	B232IUNVHEH-A	Certified	Certified	Certified	Certified	Certified	Certified	
Universal Lighting Technologies	N/A	B332IUNVHEH-A	Certified	Certified	Certified	Certified	Certified	Certified	
Universal Lighting Technologies	N/A	B432I277HEH	Certified	Certified	Certified	Certified	Certified	Certified	

See footnotes on Page 8.

T8 programmed–start ballasts (fixed output)[1]

			8.5W 1050lm (2ft.)	10.5W 1200lm (3ft.)	12W 1600lm (4ft.)	15 W 2100 lm (4ft.)	16.5W 2100lm (U- Bent)[5]
	Grainger Lamp Part Number		32MX87, 32MX88 32MX89, 32MX90	32MX91, 32MX92 32MX93, 32MX94	49H098, 49H099 49H101, 49H102	44ZA82, 44ZA78 44ZA86, 44ZA91	32MX79, 32MX80 32MX81, 32MX82
	Philips Lamp Part Number		452011, 452029 452037, 452045	452052, 452060 452078, 452086	453589, 453597 453605, 453613	456897, 456905 456913, 456921	452664, 452672, 452680, 452698
Manufacturer	**Grainger Number**	**Ballast Model**	**System Certified[3]/ Certified[4]**	**System Certified[3]/ Certified[4]**	**System Certified[3]/ Certified[4]**	**System Certified[3]/ Certified[4]**	**System Certified[3]/ Certified[4]**
Philips Advance	13Y375	IOP-2PSP32-N				System Certified	
Philips Advance	5KNJ2	IOP-3PSP32-SC	System Certified	System Certified	System Certified	System Certified	
Philips Advance	5KNJ3	IOP-4PSP32-SC	System Certified	System Certified	System Certified	System Certified	
Philips Advance	13Y376	IOP-2PSP32-LW-N				System Certified	
Philips Advance	29NT97	IOP-3PSP32-LW-SC	System Certified	System Certified	System Certified	System Certified	
Philips Advance	29NT98	IOP-4PSP32-LW-SC	System Certified	System Certified	System Certified	System Certified	
Philips Advance	Sourcing	HOP-2PSP32-HL-L				System Certified	
Philips Advance	Sourcing	HOP-4PSP32-HL-G				System Certified	
General Electric	N/A	GE-232MVPS-XL				Certified	
General Electric	N/A	GE-332MVPS-XL				Certified	
General Electric	N/A	GE-132MVPS-L					
General Electric	N/A	GE-232MVPS-L					
General Electric	N/A	GE-332MVPS-L					
General Electric	N/A	GE-432MVPS-L					
General Electric	N/A	GE-132MVPS-N				Certified	
General Electric	N/A	GE-232MVPS-N	Certified	Certified	Certified	Certified	Certified
General Electric	N/A	GE-332MVPS-N	Certified	Certified	Certified	Certified	
General Electric	N/A	GE-432MVPS-N	Certified	Certified	Certified	Certified	
General Electric	N/A	GE-132MVPS-H				Certified	
General Electric	N/A	GE-232MVPS-H				Certified	
General Electric	N/A	GE-332MVPS-H				Certified	
General Electric	N/A	GE-432MVPS-H				Certified	
Osram Sylvania	N/A	QHE 1X32T8/UNV PSX-MC				Certified	
Osram Sylvania	N/A	QHE 1X32T8/UNV PSN-MC				Certified	
Osram Sylvania	N/A	QHE 2x32T8/UNV PSN-MC	Certified	Certified	Certified	Certified	Certified
Osram Sylvania	N/A	QHE 3x32T8/UNV PSN-SC	Certified	Certified	Certified	Certified	
Osram Sylvania	N/A	QHE 4x32T8/UNV PSN-SC	Certified	Certified	Certified	Certified	
Osram Sylvania	N/A	QHES 2X32T8/UNV PSL-SC				Certified	
Osram Sylvania	N/A	QHE 2X32T8/UNV PSH-HT				Certified	
Osram Sylvania	N/A	QHE 3X32T8/UNV PSH-HT-SC				Certified	
Osram Sylvania	N/A	QHE 4X32T8/UNV PSH-HT				Certified	
Universal Lighting Technologies	N/A	B232PUNVHE-B	Certified	Certified	Certified	Certified	Certified
Universal Lighting Technologies	N/A	B332PUNVHE-A	Certified	Certified	Certified	Certified	
Universal Lighting Technologies	N/A	B432PUNVHE-A	Certified	Certified	Certified	Certified	
Universal Lighting Technologies	N/A	B232PUNVHEH-A				Certified	

See footnotes on Page 8.

T8 programmed–start ballasts (Dimmable)[1]

			15 W 2100 lm (4 ft.)	
Grainger Lamp Part Number			44ZA82, 44ZA78, 44ZA86, 44ZA91	
Philips Lamp Part Number			456897, 456905, 456913, 456921	
Manufacturer	**Grainger Number**	**Ballast Model**	**System Certified[3]/ Certified[4]**	**Dimmer Recommendation**
Philips Advance	Sourcing	IZT-2S32-SC	System Certified	Use Compatible 0-10V dimmer
Philips Advance	1FYF3	IZT-4S32	System Certified	Use Compatible 0-10V dimmer
Philips Advance	1FYF4	REZ-132-SC	System Certified	Philips Lightolier – V1500EBUW Lutron – MRF2-6ND-120
Philips Advance	3VK07	REZ-2S32-SC	System Certified	Philips Lightolier – V1500EBUW Lutron – MRF2-6ND-120
Philips Advance	3VK08	REZ-3S32-SC	System Certified	Philips Lightolier – V1500EBUW Lutron – MRF2-6ND-120
General Electric	N/A	GE132MVPSN-V03	Certified	Use Compatible 0-10V dimmer
General Electric	N/A	GE232MVPSN-V03	Certified	Use Compatible 0-10V dimmer
General Electric	N/A	GE332MVPSN-V03	Certified	Use Compatible 0-10V dimmer
General Electric	N/A	GE432MVPSN-V03	Certified	Use Compatible 0-10V dimmer
General Electric	N/A	GE232MVPSH-V03	Certified	Use Compatible 0-10V dimmer
General Electric	N/A	GE332MVPSH-V03	Certified	Use Compatible 0-10V dimmer
General Electric	N/A	GE432MVPSH-V03	Certified	Use Compatible 0-10V dimmer

Emergency ballasts[1,7]

				8.5W 1050lm (2ft.)	10.5W 1200lm (3ft.)	12W 1600lm (4ft.)	15 W 2100 lm (4ft.)	17W 2100 lm (4ft. Glass)	16.5W 2100lm (U- Bent)[5]	16.5 W 2100 lm (4-pin long compact 2 ft.)
		Grainger Lamp Part Number		32MX87, 32MX88 32MX89, 32MX90	32MX91, 32MX92 32MX93, 32MX94	49H098, 49H099 49H101, 49H102	44ZA82, 44ZA78 44ZA86, 44ZA91	40CP62, 40CP61 Sourcing, Sourcing Sourcing, Sourcing	32MX79, 32MX80 32MX81, 32MX82	44ZA61, 44ZA62, 44ZA53
		Philips Lamp Part Number		452011, 452029 452037, 452045	452052, 452060 452078, 452086	453589, 453597 453605, 453613	456897, 456905 456913, 456921	456566, 456574 456590, 456608 456616, 456624	452664, 452672, 452680, 452698	456632, 456640 456657
Manufacturer	**Grainger Number**	**Emergency Ballast Model**	**# of lamps in Emergency**	**System Certified[3]/ Certified[4]**	**System Certified[3]/ Certified[4]**	**System Certified[3]/ Certified[4]**	**System Certified[3]/ Certified[4]**	**System Certified[3]/ Certified[4]**	**System Certified[3]/ Certified[4]**	**System Certified[3]/ Certified[4]**
Philips Bodine	12X231	(new) B50 (12NC: 913702456401)	1	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified
Philips Bodine	12X242	LP600	1	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified
Philips Bodine	1FYF3	LP600STU	1	Not Recommended	Not Recommended	System Certified	System Certified	System Certified	System Certified	System Certified
Philips Chloride	Sourcing	DEB-6LP	1	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified
Fulham	N/A	FH7-UNV-500L	1	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified
Fulham	N/A	FH11-UNV-750L-xx	1	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified
Fulham	N/A	FH12-UNV-1400L-xx	1	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified
Iota Engineering	N/A	I-320	1 or 2	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified
Iota Engineering	N/A	I-160[6]	1 or 2	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified
Iota Engineering	N/A	I-162	2	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified
Iota Engineering	N/A	ISL-54	1 or 2	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified
Iota Engineering	N/A	ISL-540	1 or 2	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified

See footnotes on Page 8.

4-pin long compact instant-start ballasts[1]

			16.5 W 2100 lm (4-pin long compact 2 ft.)
	Grainger Lamp Part Number		44ZA61, 44ZA62, 44ZA53
	Philips Lamp Part Number		456632, 456640, 456657
Manufacturer	**Grainger Number**	**Ballast Model**	**System Certified[3]/ Certified[4]**
Philips Advance	Sourcing	ICN-1TTP40-SC	System Certified
Philips Advance	1XWJ5	ICN-2TTP40-SC	System Certified
Philips Advance	1XWJ6	ICN-3TTP40-SC	System Certified
General Electric	N/A	GE140MAX-A	Certified
General Electric	N/A	GE240MAX-A	Certified
General Electric	N/A	GE340MAX-A	Certified
Osram Sylvania	N/A	QHE1X40DL/UNV ISN-SC	Certified
Osram Sylvania	N/A	QHE2X40DL/UNV ISN-SC	Certified
Osram Sylvania	N/A	QHE3X40DL/UNV ISN-SC	Certified

T12 electronic ballasts[1]

			15 W 2100 lm (4 ft.)
	Grainger Lamp Part Number		44ZA82, 44ZA78 44ZA86, 44ZA91
	Philips Lamp Part Number		456897, 456905 456913, 456921
Manufacturer	**Grainger Number**	**Ballast Model**	**System Certified[3]/ Certified[4]**
Philips Advance	4FZN3	ICN-2S40-N	System Certified
Philips Advance	5ZND2	RELB-2S40-N	System Certified

CFL ballasts[1,2]

			10.5W, 900 lm (Vertical Configuration)	85W, 900 lm (Horizontal Configuration)
	Grainger Lamp Part Number		44ZA63, 44ZA58, 44ZA59, 44ZA54	44ZA56, 44ZA55, 44ZA60, 44ZA57
	Philips Lamp Part Number		458406, 458414, 458422, 458430	458364, 458372, 458380, 458398
Manufacturer	**Grainger Number**	**Driver Model**	**System Certified[3]/ Certified[4]**	**System Certified[3]/ Certified[4]**
Philips Advance	Sourcing	ICF-2S13-M1-BS	System Certified	System Certified
Philips Advance	Sourcing	ICF-2S13-H1-LD	System Certified	System Certified
Philips Advance	Sourcing	ICF-2S13-M1-BS-QS	System Certified	System Certified
Philips Advance	Sourcing	ICF-2S26-H1-LD	System Certified	System Certified[8]
Philips Advance	Sourcing	ICF-2S26-M1-BS	System Certified	System Certified
Philips Advance	Sourcing	ICF-2S26-M1-BS-QS	System Certified	System Certified
Philips Advance	Sourcing	ICF-2S18-H1-LD	System Certified	System Certified
Philips Advance	Sourcing	ICF-2S18-M1-BS	System Certified	System Certified
Philips Advance	Sourcing	ICF-2S18-M1-BS-QS	System Certified	System Certified
Philips Advance	Sourcing	ICF-2S42-M2-LD	System Certified	System Certified
Philips Advance	Sourcing	ICF-2S42-M2-BS	System Certified	System Certified
Philips Advance	Sourcing	ICF-2S42-90C-M2-BS	System Certified	System Certified
Philips Advance	Sourcing	ICF-2S42-90C-M2-LD	System Certified	System Certified
General Electric	N/A	GEC218-MVPS-SE	Certified	Certified
Universal Lighting Technologies	N/A	C218UNVME	Certified	Certified
Universal Lighting Technologies	N/A	C2642UNVME	Certified	Certified
Osram Sylvania	N/A	QTP 1/2X18CF/UNV DM	Certified	Certified
Osram Sylvania	N/A	QTP 2X26CF/UNV DM	Certified	Certified
Howard Industries	N/A	EP2/26CF/MV/2	Certified	Certified

Emergency ballasts (for compact fluorescent lamps)[1,7]

				Vertical Lamp	Horizontal Lamp
	Grainger Lamp Part Number			44ZA63, 44ZA58, 44ZA59, 44ZA54	44ZA56, 44ZA55, 44ZA60, 44ZA57
	Philips Lamp Part Number			458406, 458414, 458422, 458430	458364, 458372, 458380, 458398
Manufacturer	**Grainger Number**	**Emergency Ballast Model**	**# of lamps in Emergency**	**System Certified[3]/ Certified[4]**	**System Certified[3]/ Certified[4]**
Philips Bodine	Sourcing	(new) B50 (12NC:913702456401)	1	System Certified	System Certified
Philips Bodine	Sourcing	B30CR	1	System Certified	System Certified
Iota	N/A	I-42	2		System Certified
Iota	N/A	I-420	1 or 2	System Certified	System Certified
Iota	N/A	I-160	1	System Certified	
Iota	N/A	I-160	2	System Certified	System Certified
Fulham	N/A	FH11-UNV-750L (2)	2	System Certified	System Certified
Fulham	N/A	FH12-UNV-1400L (2)	2	System Certified	System Certified

Systems on this page are:

1. Ballast tests are performed with a specific date code. Please contact the factory for date code information.
2. UL/CSA Classified with the listed ballasts / drivers
3. System performance (Philips InstantFit LED T8 lamp and ballast) has been evaluated by the lamp and ballast manufacturer.
4. System performance (Philips InstantFit LED T8 lamp and ballast) has been evaluated by the lamp manufacturer only.
5. Typical application for U-Bent Lamps is with 2-lamp ballasts.
6. Connect BRN/BRN-W leads.
7. Please contact the emergency ballast manufacturer for wiring diagrams.
8. 2 lamp operation only.
* Please contact Philips for questions about third party ballasts that are not on this list. Information in this document is subject to change without prior notice.

For more information, contact your Grainger Representative or visit www.grainger.com®